



## **Ultra Cloud Core 5G Access and Mobility Management Function, Release 2023.04 - CLI Command Reference**

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## About this Guide



**Note** The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. While any existing biased terms are being substituted, exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

This preface describes the *Ultra Cloud Core 5G Access and Mobility Management Function - CLI Command Reference*, the document conventions, and the customer support details.

- [Conventions Used, on page xxi](#)
- [Contacting Customer Support, on page xxii](#)

## Conventions Used

The following tables describe the conventions used throughout this documentation.

Notice Type	Description
Information Note	Provides information about important features or instructions.
Caution	Alerts you of potential damage to a program, device, or system.
Warning	Alerts you of potential personal injury or fatality. May also alert you of potential electrical hazards.

Typeface Conventions	Description
Text represented as a screen display	This typeface represents displays that appear on your terminal screen, for example:  Login:

Typeface Conventions	Description
Text represented as <b>commands</b>	This typeface represents commands that you enter, for example: <b>show ip access-list</b> This document always gives the full form of a command in lowercase letters. Commands are not case sensitive.
Text represented as a <b>command variable</b>	This typeface represents a variable that is part of a command, for example: <b>show card slot_number</b> <i>slot_number</i> is a variable representing the applicable chassis slot number.
Text represented as menu or sub-menu names	This typeface represents menus and sub-menus that you access within a software application, for example: Click the <b>File</b> menu, then click <b>New</b>

## Contacting Customer Support

Use the information in this section to contact customer support.

Refer to the support area of <http://www.cisco.com> for up-to-date product documentation or to submit a service request. A valid username and password are required to access this site. Please contact your Cisco sales or service representative for additional information.



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## aaa

Configures the AAA-based user management parameters.

---

### Command Modes

Exec

---

### Syntax Description

```
aaa authentication users user admin change-password { old-password  
old_password | new-password new_password | confirm-password new_password }
```

**old-password** *old\_password*

Specify the current password.

Must be a string.

**new-password** *new\_password*

Specify the new password.

Must be a string.

**confirm-password** *new\_password*

Specify the new password once again to change the password.

Must be a string.

---

**Usage Guidelines** Use this command to configure the AAA-based user management parameters.

## amf-global

Configures global AMF parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **amf-global** **amf-name** *amf\_name*

**amf-name** *amf\_name*

Specify name of the AMF.

Must be a string.

---

**Usage Guidelines** Use this command to configure global AMF parameters. The CLI prompt changes to the AMF Global Configuration mode (config-amf-global).

## amf-global call-control-policy

Configures call control policy.

---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

---

**Syntax Description** **call-control-policy** *cc\_policy\_name* { **asynch-type-comm** { **false** | **true** } | **check-eir** { **false** | **true** } | **default-dnn** *default\_dnn* | **disable-init-csr-reg** { **false** | **true** } | **disable-rfsp-pcf** { **false** | **true** } | **enable-auth-periodic-reg** { **false** | **true** } | **enable-auth-svc-req** { **false** | **true** } | **enable-guti-realloc-periodic-reg** { **false** | **true** } | **enable-guti-realloc-service-req** { **false** | **true** } | **report-uli** { **false** | **true** } | **retrieve-imei** { **false** | **true** } }

**asynch-type-comm { false | true }**

Specify whether to enable or disable asynchronous communication.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**call-control-policy *cc\_policy\_name***

Specify the name of the Call Control Policy.

Must be a string.

**check-eir { false | true }**

Specify whether to enable or disable the parameters to check EIR.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**default-dnn *default\_dnn***

Specify the default DNN.

Must be a string.

**disable-init-csr-reg { false | true }**

Specify whether to enable or disable initial CSR registration.

Must be one of the following:

- **false**
- **true**

Default Value: true.

**disable-rfsp-pcf { false | true }**

Specify whether to enable or disable RFSP PCF.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**enable-auth-periodic-reg { false | true }**

Specify whether to enable or disable periodic authentication registration.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**enable-auth-svc-req { false | true }**

Specify whether to enable or disable authentication service request.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**enable-guti-realloc-periodic-reg { false | true }**

Specify whether to enable or disable GUTI reallocation periodic registration.

Must be one of the following:

- **false**
- **true**

Default Value: true.

**enable-guti-realloc-service-req { false | true }**

Specify whether to enable or disable GUTI reallocation service request.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**report-uli { false | true }**

Specify whether to enable or disable ULI report.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**retrieve-imei { false | true }**

Specify whether to enable or disable the parameters to retrieve IMEI.

Must be one of the following:

- false
- true

Default Value: false.

**tai-group *tai\_group\_name***

Specify name of the TAI group.

**Usage Guidelines** Use this command to configure call control policy parameters.

## amf-global call-control-policy am-policy

Configures global AM policy parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description** **am-policy skip { false | true }**

**skip { false | true }**

Specify whether to skip fetching the AM Policy.

Must be one of the following:

- false
- true

Default Value: false.

**Usage Guidelines** Use this command to configure global AM parameters.

## amf-global call-control-policy core-network-type-restriction

Configures enabling policy to apply CoreNetworkType restriction at AMF.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

**Syntax Description** **core-network-type-restriction *restriction***

**core-network-type-restriction restriction**

Specify the core network type restriction.

Must be one of the following:

- **5gc**
- **override-udm-restrictions**

**Usage Guidelines** Use this command to configure enabling policy to apply CoreNetworkType restriction at AMF.

## amf-global call-control-policy default-slice

Configures default slice for the subscriber.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** **default-slice name slice\_name sst slice\_service\_type sdt slice\_differentiator\_type**

**name slice\_name**

Specify name of the slice.

Must be a string.

**sdt slice\_differentiator\_type**

Specify the Slice Differentiator Type (SDT).

Must be a string in the octet-string24 pattern. For information on the octet-string24 pattern, see the Input Pattern Types section.

**sst slice\_service\_type**

Specify the Slice Service Type (SST).

Must be an integer in the range of 0-255.

**Usage Guidelines** Use this command to configure default slice for the subscriber.

## amf-global call-control-policy feature-support-ie ims-vops-service-3gpp no-support

Configures ims-vops-service-3gpp support.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-call\_control\_policy\_name)

**Syntax Description** `feature-support-ie ims-vops-service-3gpp [ not-supported { false | true } ] [ reject-voice-centric-ue { false | true } ]`

**not-supported { false | true }**

Specify whether to enable or disable 5G VoPS 3GPP support.

Must be one of the following:

- **false**
- **true**

Default Value: true.

**reject-voice-centric-ue { false | true }**

Specify if VoPS is not supported whether to reject voice-centric UE registration.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**Usage Guidelines** Use this command to configure ims-vops-service-3gpp support.

## amf-global call-control-policy feature-support-ie ims-vops-service-3gpp support

Configures ims-vops-service-3gpp support.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-call\_control\_policy\_name)

**Syntax Description** `feature-support-ie ims-vops-service-3gpp support supported { false | true } ue-capability-match-required { false | true }`

**supported { false | true }**

Specify whether to enable or disable 5G VoPS 3GPP support.

Must be one of the following:

- **false**
- **true**

Default Value: false.



**ue-capability-match-required { false | true }**

Specify whether if VoPS is supported UE capability check is required or not required.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**Usage Guidelines**

Use this command to configure ims-vops-service-3gpp support.

## amf-global call-control-policy local-cause-code-map auth-failure

Configures the UE authentication failure condition type parameter.

**Command Modes**

Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_service\_name*)

**Syntax Description**

**local-cause-code-map auth-failure cause-code-5gmm** *cause\_code\_5gmm*

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **illegal-ms**
- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: illegal-ms.

**Usage Guidelines**

Use this command to configure the ue authentication failure condition type parameter.

## amf-global call-control-policy local-cause-code-map clear-subscriber

Configures the UE subscriber clear condition type.

**Command Modes**

Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** `local-cause-code-map clear-subscriber cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **5GS-services-not-allowed**
- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: plmn-not-allowed.

**Usage Guidelines** Use this command to configure the UE subscriber clear condition type.

## amf-global call-control-policy local-cause-code-map ctxt-xfer-fail-amf

Configures the AMF context transfer failure condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description** `local-cause-code-map ctxt-xfer-fail-amf cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**
- **ue-identity-not-derived**

Default Value: ue-identity-not-derived.

**Usage Guidelines** Use this command to configure the AMF context transfer failure condition type parameter.

## amf-global call-control-policy local-cause-code-map ctxt-xfer-fail-mme

Configures the MME context transfer failure condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** `local-cause-code-map ctxt-xfer-fail-mme cause-code-5gmm cause_code_5gmm`

`cause-code-5gmm cause_code_5gmm`

Specify the condition type.

Must be one of the following:

- `no-suitable-cells-in-tracking-area`
- `plmn-not-allowed`
- `restricted-service-area`
- `roaming-not-allowed-in-this-tracking-area`
- `tracking-area-not-allowed`
- `ue-identity-not-derived`

Default Value: `ue-identity-not-derived`.

**Usage Guidelines** Use this command to configure the MME context transfer failure condition type parameter.

## amf-global call-control-policy local-cause-code-map dnn-mismatch

Configures the DNN mismatch condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** `local-cause-code-map dnn-mismatch cause-code-5gmm cause_code_5gmm`

`cause-code-5gmm cause_code_5gmm`

Specify the condition type.

Must be one of the following:

- `no-suitable-cells-in-tracking-area`
- `plmn-not-allowed`

- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: plmn-not-allowed.

**Usage Guidelines** Use this command to configure the DNN mismatch condition type parameter.

## amf-global call-control-policy local-cause-code-map dnn-not-subscribed

Configures the DNN not subscribed condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

**Syntax Description** `local-cause-code-map dnn-not-subscribed cause-code-5gmm cause_code_5gmm`

`cause-code-5gmm cause_code_5gmm`

Specify the condition type.

Must be one of the following:

- **dnn-not-subscribed**

Default Value: dnn-not-subscribed.

**Usage Guidelines** Use this command to configure the DNN not subscribed condition type parameter.

## amf-global call-control-policy local-cause-code-map gw-unreachable

Configures the GW Unreachable Condition Type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description** `local-cause-code-map gw-unreachable cause-code-5gmm cause_code_5gmm`

`cause-code-5gmm cause_code_5gmm`

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**

- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: no-suitable-cells-in-tracking-area.

**Usage Guidelines** Use this command to configure the GW Unreachable Condition Type parameter.

## amf-global call-control-policy local-cause-code-map inter-plmn-roaming

Configures the inter-PLMN roaming condition type parameter.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `local-cause-code-map inter-plmn-roaming cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm *cause\_code\_5gmm***

Specify the condition type.

Must be one of the following:

- **5GS-services-not-allowed**
- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: plmn-not-allowed.

**Usage Guidelines** Use this command to configure the inter-PLMN roaming condition type parameter.

## amf-global call-control-policy local-cause-code-map peer-node-unknown

Configures the peer node no response condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description** `local-cause-code-map peer-node-unknown cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**
- **ue-identity-not-derived**

Default Value: ue-identity-not-derived.

**Usage Guidelines** Use this command to configure the peer node no response condition type parameter.

## amf-global call-control-policy local-cause-code-map restricted-zone-code

Configures the restricted zone code condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** `local-cause-code-map restricted-zone-code cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **5GS-services-not-allowed**
- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: no-suitable-cells-in-tracking-area.

**Usage Guidelines** Use this command to configure the restricted zone code condition type parameter.

# amf-global call-control-policy local-cause-code-map smf-selection-failure

Configures the SMF selection failure condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** **local-cause-code-map smf-selection-failure cause-code-5gmm** *cause\_code\_5gmm*

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: no-suitable-cells-in-tracking-area.

**Usage Guidelines** Use this command to configure the SMF selection failure condition type parameter.

# amf-global call-control-policy local-cause-code-map udm-unavailable

Configures the UDM not available condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** **local-cause-code-map udm-unavailable cause-code-5gmm** *cause\_code\_5gmm*

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**

- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: no-suitable-cells-in-tracking-area.

**Usage Guidelines** Use this command to configure the UDM not available condition type parameter.

## amf-global call-control-policy paging-priority map

Configures mapping ARP from SMF to Ngap paging priority.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

**Syntax Description** `paging-priority map arp arp_value ngap-paging-priority ngap_paging_priority`

**arp *arp\_value***

Specify the Allocation and Retention Priority (ARP) value from SMF.

Must be an integer in the range of 1-15.

**ngap-paging-priority *ngap\_paging\_priority***

Specify the paging priority in the paging message.

Must be an integer in the range of 0-7.

**Usage Guidelines** Use this command to configure mapping ARP from SMF to Ngap paging priority.

## amf-global call-control-policy policy amf-redirection

Configures AMF redirection parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

**Syntax Description** `policy amf-redirection { enabled | disabled }`

**enabled { false | true }**

Specify whether to enable or disable AMF redirection.

Must be one of the following:

- **false**
- **true**

Default Value: false.



**Usage Guidelines** Use this command to configure AMF redirection parameters.

## amf-global call-control-policy policy context-release

Configures UE Context release procedure parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** `policy context-release force-smf-update { false | true }`

**force-smf-update { false | true }**

Specify whether to initiate SMF update without PDU list available in release messages.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**Usage Guidelines** Use this command to configure UE Context release procedure parameters.

## amf-global call-control-policy policy idle-mode paging

Configures tailist for paging.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** `policy idle-mode paging use-new-tailist`

**use-new-tailist**

Specify to use new tailist for paging as last stage.

**Usage Guidelines** Use this command to configure tailist for paging.

## amf-global call-control-policy policy idle-mode ue-cfg-update

Configures enabling paging for UE config.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-policy\_name)

**Syntax Description** `policy idle-mode ue-cfg-update initiate-paging`

**initiate-paging**

Specify to enable paging for UE config.

**Usage Guidelines**

Use this command to configure enabling paging for UE config.

## amf-global call-control-policy policy nssf-interaction

Configures NSSF interaction parameters.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

**Syntax Description**

**policy nssf-interaction { disabled | enabled }**

**enabled { false | true }**

Specify whether to enable or disable NSSF interaction.

Must be one of the following:

- false
- true

Default Value: false.

**Usage Guidelines**

Use this command to configure NSSF interaction parameters.

## amf-global call-control-policy policy slicing

Configures slicing policy configuration parameters.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

**Syntax Description**

**policy slicing inclusion-mode *inclusion\_mode***

**inclusion-mode *inclusion\_mode***

Specify the NSSAI Inclusion Mode to be send in Registration Accept.

Must be one of the following:

- A
- B
- C
- D
- None

Default Value: None.

**Usage Guidelines** Use this command to configure slicing policy configuration parameters.

## amf-global call-control-policy policy ue-cfg-update

Configures UE Config update procedure parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** `policy ue-cfg-update [ on-nssf-slice-change { false | true } ] [ on-tai-change { false | true } ]`

**on-nssf-slice-change { false | true }**

Specify whether to initiate UE config update procedure if slice parameter from NSSF changes.

Must be one of the following:

- false
- true

Default Value: false.

**on-tai-change { false | true }**

Specify whether to initiate UE config update procedure on TAI list changes.

Must be one of the following:

- false
- true

Default Value: false.

**Usage Guidelines** Use this command to configure UE Config update procedure parameters.

## amf-global call-control-policy policy ue-context-transfer

Configures UE context transfer related parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description** `policy ue-context-transfer [ allow-interplmn-supi-transfer { false | true } ] [ horizontal-key-derivation { false | true } ] [ use-source-key { false | true } ] [ use-source-pcf { false | true } ]`

**allow-interplmn-supi-transfer { false | true }**

Specify whether source AMF sends UE context with SUPI.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**horizontal-key-derivation { false | true }**

Specify whether source AMF will generate new key every time.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**use-source-key { false | true }**

Specify whether target AMF will use key received from source AMF.

Must be one of the following:

- **false**
- **true**

Default Value: true.

**use-source-pcf { false | true }**

Specify whether target AMF sends pcfReselectedInd as true in transfer-update and source AMF clears PCF association.

Must be one of the following:

- **false**
- **true**

Default Value: true.

**Usage Guidelines**

Use this command to configure UE context transfer related parameters.

# amf-global call-control-policy rat-type-restriction

Configures enabling policy to apply RatType restriction at AMF.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

**Syntax Description**     **rat-type-restriction** *restriction*

**rat-type-restriction** *restriction*

Specify the RAT type restriction.

Must be one of the following:

- EUTRAN
- NR
- VIRTUAL
- WLAN
- override-udm-restrictions

**Usage Guidelines**     Use this command to configure enabling policy to apply RatType restriction at AMF.

## amf-global call-control-policy registration restrict

Configures enabling policy to restrict subscriber for all locations at AMF.

**Command Modes**     Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

**Syntax Description**     **registration restrict access-type** *access\_type*

**access-type** *access\_type*

Specify the access type.

Must be one of the following:

- all

**Usage Guidelines**     Use this command to configure enabling policy to restrict subscriber for all locations at AMF.

## amf-global call-control-policy security-algo security-algo

Configures multiple algorithms in priority order.

**Command Modes**     Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

**Syntax Description**     **security-algo** *priority* [ [ **ciphering-algo** *ciphering\_algorithm* ] [ **integrity-prot-algo** *integrity\_protocol\_algorithm* ] ]

**ciphering-algo** *ciphering\_algorithm*

Specify the ciphering algorithm.

Must be one of the following:

- 128-5G-EA1
- 128-5G-EA2
- 5G-EA0

**integrity-prot-algo** *integrity\_protocol\_algorithm*

Specify the integrity protocol algorithm.

Must be one of the following:

- 128-5G-IA1
- 128-5G-IA2
- 5G-IA0

**security-algo** *priority*

Specify the priority.

Must be an integer.

**Usage Guidelines**

Use this command to configure multiple algorithms in priority order.

## amf-global call-control-policy timers context-transfer-guard

Configures the context-transfer-guard timer parameter.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description**

**timers context-transfer-guard value** *timeout\_duration*

**value** *timeout\_duration*

Specify the timeout period in seconds. Configure guard timer values, which must be in the range of 0-10.

The default value is 5. The value 0 is used to disable the timer in the procedure.

**Usage Guidelines**

Use this command to configure the context-transfer-guard timer in seconds. Started by source AMF on receiving TransferUpdate. On expiry, PDUs will be cleared locally.

## amf-global call-control-policy timers ho-supervisory

Configures the ho-supervisory timer parameter.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

---

**Syntax Description**     **timers ho-supervisory value** *timer\_value*

**value** *timer\_value*

Specify the timer value in milliseconds.

Must be an integer in the range of 100-10000.

Default Value: 500.

---

**Usage Guidelines**     Use this command to configure the ho-supervisory timer parameter.

## amf-global call-control-policy timers t3502

Configures the t3502 timer parameter.

---

**Command Modes**     Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-policy\_name)

---

**Syntax Description**     **timers t3502 value** *timeout\_duration*

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-35712000.

---

**Usage Guidelines**     Use this command to configure the t3502 timer parameter.

## amf-global call-control-policy timers t3512

Configures the t3512 timer parameter.

---

**Command Modes**     Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-policy\_name)

---

**Syntax Description**     **timers t3512 value** *timeout\_duration*

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-35712000.

---

**Usage Guidelines**     Use this command to configure the t3512 timer parameter.

## amf-global call-control-policy timers t3513

Configures the t3513 timer parameter.

---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

---

**Syntax Description** **timers t3513 value** *timeout\_duration* **retry** *max\_retries*

**retry** *max\_retries*

Specify the maximum number of retries.

Must be an integer in the range of 0-5.

Default Value: 4.

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-30.

Default Value: 6.

---

**Usage Guidelines** Use this command to configure the t3513 timer parameter.

## amf-global call-control-policy timers t3522

Configures the t3522 timer parameter.

---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

---

**Syntax Description** **timers t3522 value** *timeout\_duration* **retry** *max\_retries*

**retry** *max\_retries*

Specify the maximum number of retries.

Must be an integer in the range of 0-5.

Default Value: 4.

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-30.

Default Value: 6.

---

**Usage Guidelines** Use this command to configure the t3522 timer parameter.

## amf-global call-control-policy timers t3550

Configures the t3550 timer parameter.



---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

---

**Syntax Description** **timers t3550 value** *timeout\_duration* **retry** *max\_retries*

**retry** *max\_retries*

Specify the maximum number of retries.

Must be an integer in the range of 0-5.

Default Value: 4.

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-30.

Default Value: 6.

---

**Usage Guidelines** Use this command to configure the t3550 timer parameter.

## amf-global call-control-policy timers t3555

Configures the t3555 timer parameter.

---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

---

**Syntax Description** **timers t3555 value** *timeout\_duration* **retry** *max\_retries*

**retry** *max\_retries*

Specify the maximum number of retries.

Must be an integer in the range of 0-5.

Default Value: 4.

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-30.

Default Value: 6.

---

**Usage Guidelines** Use this command to configure the t3555 timer.

## amf-global call-control-policy timers t3560

Configures the t3560 timer parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description** `timers t3560 value timeout_duration retry max_retries`

**retry max\_retries**

Specify the maximum number of retries.

Must be an integer in the range of 0-5.

Default Value: 4.

**value timeout\_duration**

Specify the timeout period in seconds.

Must be an integer in the range of 0-30.

Default Value: 6.

**Usage Guidelines** Use this command to configure t3560 timer parameter.

## amf-global call-control-policy timers t3570

Configures the t3570 timer parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description** `timers t3570 value timeout_duration retry max_retries`

**retry max\_retries**

Specify the maximum number of retries.

Must be an integer in the range of 0-5.

Default Value: 4.

**value timeout\_duration**

Specify the timeout period in seconds.

Must be an integer in the range of 0-30.

Default Value: 6.

**Usage Guidelines** Use this command to configure the t3570 timer parameter.

## amf-global call-control-policy timers tguard

Configures the tguard timer parameter.

---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

---

**Syntax Description** **timers tguard value** *timeout\_duration*

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-35712000.

---

**Usage Guidelines** Use this command to configure the tguard timer parameter.

## amf-global call-control-policy timers tidle

Configures the UE connected mode inactivity timer parameter.

---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

---

**Syntax Description** **timers tidle value** *timeout\_duration*

**value** *timeout\_duration*

Specify the timer value in seconds.

Must be an integer in the range of 30-25200.

---

**Usage Guidelines** Use this command to configure the UE connected mode inactivity timer parameter.

## amf-global call-control-policy timers tidt

Configures the tidt timer parameter.

---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

---

**Syntax Description** **timers tidt value** *timeout\_duration*

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-35712000.

---

**Usage Guidelines** Use this command to configure the tidt timer parameter.

## amf-global call-control-policy timers tn2

Configures the tn2 timer parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description** **timers tn2 value** *timeout\_duration*

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-35712000.

**Usage Guidelines** Use this command to configure the tn2 timer parameter.

## amf-global call-control-policy timers tpurge

Configures the purge timer parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy Configuration (config-call-control-policy-*policy\_name*)

**Syntax Description** **timers tpurge value** *timeout\_duration*

**value** *timeout\_duration*

Specify the timeout period in seconds.

Must be an integer in the range of 0-35712000.

**Usage Guidelines** Use this command to configure the purge timer parameter.

## amf-global dnn-policy

Configures the DNN policy parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** **dnn-policy** *dnn\_name* [ [ **ims-enabled** { **false** | **true** } ] [ **lbo-roaming-allowed** { **false** | **true** } ] [ **nf-profile-name** *nf\_profile\_name* ] ]

**dnn-policy** *dnn\_name*

Specify name of the DNN.

Must be a string.

**ims-enabled { false | true }**

Specify whether IMS is enabled for DNN.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**lbo-roaming-allowed { false | true }**

Specify whether Local Breakout Roaming is supported.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**nf-profile-name *nf\_profile\_name***

Specify name of the NF profile.

Must be a string.

---

**Usage Guidelines** Use this command to configure DNN policy parameter.

## amf-global dnn-policy network-element-profile-list

Configures the network element profile list.

---

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > DNN Policy Configuration (config-dnn-policy-policy\_name)

---

**Syntax Description** **network-element-profile-list smf** *smf\_profile\_name*

**smf *smf\_profile\_name***

Specify name of the SMF network element profile.

Must be a string.

---

**Usage Guidelines** Use this command to configure the network element profile list.

## amf-global nf-profile

Configures NF profile parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** **nf-profile** *nf\_profile\_name*

***nf\_profile\_name***

Specify name of the NF profile.

Must be a string.

**Usage Guidelines** Use this command to configure NF profile parameters. The CLI prompt changes to the NF Profile Configuration mode (config-nf-profile-<profile\_name>).

## amf-global nf-profile nf-type-profile

Configures the NF profile type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > NF Profile Configuration (config-nf-profile-*profile\_name*)

**Syntax Description** **nf-type-profile type** *nf\_profile\_type*

**type** *nf\_profile\_type*

Specify the NF profile type.

Must be one of the following:

- **ausf**
- **nrf**
- **nssf**
- **pcf**
- **smf**
- **udm**

**Usage Guidelines** Use this command to configure the NF profile type parameter. The CLI prompt changes to the NF Type Profile Configuration mode (config-nf-type-profile-<type>).

## amf-global nf-profile nf-type-profile grpc-endpoint

Configures GRPC endpoint parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > NF Profile Name Configuration (config-nf-profile-*nf\_profile\_name*) > NF Profile Type Configuration (config-nf-type-profile-*profile\_name*)

**Syntax Description** **grpc-endpoint host** *host\_name* **port** *port\_number*

**host** *host\_name*

Specify the host name.

Must be a string.

**port** *port\_number*

Specify the port number.

Must be an integer.

**Usage Guidelines** Use this command to configure GRPC endpoint parameters.

## amf-global nf-profile nf-type-profile http-endpoint

Configures HTTP endpoint parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > NF Profile Name Configuration (config-nf-profile-*nf\_profile\_name*) > NF Profile Type Configuration (config-nf-type-profile-*profile\_name*)

**Syntax Description** **http-endpoint** **base-url** *base\_url*

**base-url** *base\_url*

Specify the base URL.

Must be a string.

**Usage Guidelines** Use this command to configure HTTP endpoint parameters.

## amf-global operator-policy

Configures the operator policy.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** **operator-policy** *policy\_name* [ [ **ccp-name** *ccp\_name* ] [ **nf-profile-name** *nf\_profile\_name* ] [ **paging-policy-name** *paging\_policy\_name* ] ]

**ccp-name** *ccp\_name*

Specify name of the CCP.

Must be a string.

**emergency-profile-name** *emergency\_profile\_name*

Specify name of the emergency profile.

**nf-profile-name** *nf\_profile\_name*

Specify name of the NF profile.

Must be a string.

**operator-policy** *policy\_name*

Specify name of the operator policy.

Must be a string.

**paging-map-name** *paging\_map\_name*

Specify name of the 5G paging map.

Must be a string of 1-64 characters.

**Usage Guidelines**

Use this command to configure the operator policy.

## amf-global operator-policy network-element-profile-list

Configures network element profiles.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > Operator Policy Configuration (config-operator-policy-*policy\_name*)

**Syntax Description**

```
network-element-profile-list { amf amf_ne_profile_name | ausf ausf_ne_profile_name
| nssf nssf_ne_profile_name | pcf pcf_ne_profile_name | smf smf_ne_profile_name | udm
udm_ne_profile_name }
```

**amf** *amf\_ne\_profile\_name*

Specify name of the AMF network element profile.

Must be a string.

**ausf** *ausf\_ne\_profile\_name*

Specify name of the AUSF network element profile.

Must be a string.

**nssf** *nssf\_ne\_profile\_name*

Specify name of the NSSF network element profile.

Must be a string.

**pcf** *pcf\_ne\_profile\_name*

Specify name of the PCF network element profile.

Must be a string.



**smf smf\_ne\_profile\_name**

Specify name of the SMF network element profile.

Must be a string.

**udm udm\_ne\_profile\_name**

Specify name of the UDM network element profile.

Must be a string.

**Usage Guidelines**

Use this command to configure network element profiles.

## amf-global paging-algo

Configures the paging algorithm.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description**

```
paging-algo algorithm_name [ [ action action ] [ max-n-gnb max_gnbs_to_page ] [ t3513-timeout paging_timeout ] [ max-paging-attempts max_paging_attempts ] ]
```

**action action**

Specify the action.

Must be one of the following:

- **all\_gnb\_all\_tai**
- **all\_gnb\_last\_tai**
- **all\_gnb\_remaining\_tai\_all**
- **all\_gnb\_remaining\_tai\_seq**
- **last\_gnb\_last\_tai**
- **last\_n\_gnb\_last\_tai**

**max-n-gnb max\_gnbs\_to\_page**

Specify the max number of gNBs to page.

Must be an integer in the range of 1-5.

**max-paging-attempts max\_paging\_attempts**

Specify the maximum number of paging attempts.

Must be an integer in the range of 1-5.

**paging-algo paging\_algorithm\_name**

Specify name of the paging algorithm.

Must be a string of 1-64 characters.

**t3513-timeout *paging\_timeout***

Specify the paging timeout value in seconds.

Must be an integer in the range of 1-10.

**Usage Guidelines** Use this command to configure the paging algorithm.

## amf-global paging-map

Configures the paging map parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** **paging-map** *paging\_map\_name*

***paging\_map\_name***

Specify name of the 5G paging map.

Must be a string of 1-64 characters.

**Usage Guidelines** Use this command to configure the paging map parameters.

## amf-global paging-map precedence

Configures the paging map precedence parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** **paging-map** *map\_name* [ **precedence** *map\_precedence\_level* [ [ **paging-profile-name** *paging\_profile\_name* ] [ **trigger-type** *trigger\_type* ] ] ]

**arp-value *arp\_value***

Specify the Allocation and Retention Priority (ARP) value.

Must be an integer in the range of 1-15.

**dereg-value *deregistration\_trigger\_value***

Specify the deregistration trigger value.

Must be one of the following:

- **amf\_init**
- **udm\_init**

**dnn-value** *dnn\_value*

Specify the Data Network Name (DNN) value.

Must be a string of 1-64 characters.

**fiveqi-value** *5qi\_value*

Specify the 5G QoS Indicator value.

Must be an integer in the range of 1-85.

**paging-profile-name** *paging\_profile\_name*

Specify name of the 5G paging profile.

Must be a string of 1-64 characters.

**ppi-value** *ppi\_value*

Specify the Paging Policy Indicator (PPI) value.

Must be an integer in the range of 1-7.

**precedence** *map\_precedence\_level*

Specify the map precedence level.

Must be an integer in the range of 1-255.

**trigger-type** *trigger\_type*

Specify the paging trigger type.

Must be one of the following:

- **5qi**
- **arp**
- **dereg**
- **dnn**
- **ppi**
- **uecfg**

**Usage Guidelines**

Use this command to configure the paging map precedence parameter.

## amf-global paging-profile

Configures paging profile parameters.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** `paging-profile` *paging\_profile\_name*

***paging\_profile\_name***

Specify name of the 5G paging profile.

Must be a string of 1-64 characters.

**Usage Guidelines** Use this command to configure paging profile parameters. The CLI prompt changes to the Paging Profile Configuration mode (config-paging-profile-<profile\_name>).

## amf-global paging-profile paging-stage

Configures paging stage information.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > Paging Profile Configuration (config-paging-profile-*profile\_name*)

**Syntax Description** `paging-stage` *paging\_stage\_precedence* [ `paging-algo` *paging\_algorigthm\_name* ]

***paging-algo* *paging\_algorigthm\_name***

Specify name of the paging algorigthm.

Must be a string of 1-64 characters.

***paging\_stage\_precedence***

Specify the stage.

Must be an integer in the range of 1-5.

**Usage Guidelines** Use this command to configure paging stage.

## amf-global plmn-policy

Configures the operator policy.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** `plmn-policy` *plmn\_name* `operator-policy-name` *operator\_policy\_name*

**`operator-policy-name` *operator\_policy\_name***

Specify name of the operator policy.

Must be a string.

**`plmn-policy` *plmn\_name***

Specify name of the PLMN.

Must be a string of 5-6 characters in the plmn-string pattern. For information on the plmn-string pattern, see the Input Pattern Types section.

**Usage Guidelines** Use this command to configure the operator policy.

## amf-global supi-policy

Configures SUPI policy information.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** **supi-policy** *supi\_prefix* **operator-policy-name** *operator\_policy\_name*

**operator-policy-name** *operator\_policy\_name*

Specify name of the operator policy.

Must be a string.

**supi-policy** *supi\_prefix*

Specify the SUPI prefix.

Must be a string of 1-15 characters in the supi-string pattern. For information on the supi-string pattern, see the Input Pattern Types section.

**Usage Guidelines** Use this command to configure SUPI policy parameters.

## amf-global timers proc-timeout ue-registration

Configures timeout value for registration.

**Command Modes** Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global)

**Syntax Description** **timers proc-timeout ue-registration value** *timer\_value*

**value** *timer\_value*

Specify the timer value in seconds.

Must be an integer in the range of 0-120.

**Usage Guidelines** Use this command to configure timeout value for registration.

## amf-services

Configures AMF service configuration parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description**

```
amf-services amf_service_name [ [ amf-name amf_name ] [ emergency-profile-name
emergency_profile_name ] [ locality locality_name ] [ operator-policy-name
operator_policy_name ] [ relative-amf-capacity relative_amf_capacity ] [
validate-Tais { false | true } ] ]
```

**amf-name** *amf\_name*

Specify name of the AMF.

Must be a string.

**amf-services** *amf\_service\_name*

Specify name of the AMF service.

Must be a string.

**emergency-profile-name** *emergency\_profile\_name*

Specify name of the emergency profile.

**locality** *locality\_name*

Specify the locality for Geo support.

Must be a string.

**operator-policy-name** *operator\_policy\_name*

Specify name of the operator policy.

**relative-amf-capacity** *relative\_amf\_capacity*

Specify the relative AMF capacity.

Must be an integer in the range of 0-255.

Default Value: 127.

**validate-Tais** { **false** | **true** }

Specify whether to enable or disable TAI validation.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**Usage Guidelines**

Use this command to configure AMF service configuration parameters. The CLI prompt changes to the AMF Services Configuration mode (config-amf-services-<service\_name>).

## amf-services guamis

Configures the Globally Unique AMF ID (GUAMIS).

### Command Modes

Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

### Syntax Description

**guamis** **mcc** *mobile\_country\_code* **mnc** *mobile\_network\_code* **region-id** *amf\_region\_id* **set-id** *amf\_set\_id* **pointer** *amf\_pointer*

#### **mcc** *mobile\_country\_code*

Specify the mobile country code.

Must be a string.

#### **mnc** *mobile\_network\_code*

Specify the mobile network code.

Must be a string.

#### **pointer** *amf\_pointer*

Specify the pointer value.

Must be an integer.

#### **region-id** *amf\_region\_id*

Specify the AMF region ID.

Must be an integer.

#### **set-id** *amf\_set\_id*

Specify the AMF set ID.

Must be an integer.

### Usage Guidelines

Use this command to configure the GUAMIS, which is used to uniquely identify an AMF within a 5G network. It is comprised of the MCC, MNC, AMF Region ID, AMF Set ID and AMF Pointer.

## amf-services local-cause-code-map auth-failure

Configures the UE authentication failure condition type parameter.

### Command Modes

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*policy\_name*)

### Syntax Description

**local-cause-code-map** **auth-failure** **cause-code-5gmm** *cause\_code\_5gmm*

**cause-code-5gmm *cause\_code\_5gmm***

Specify the condition type.

Must be one of the following:

- **illegal-ms**
- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: illegal-ms.

**Usage Guidelines**

Use this command to configure the UE authentication failure condition type parameter.

## amf-services local-cause-code-map clear-subscriber

Configures the UE subscriber clear condition type.

**Command Modes**

Exec > Global Configuration (config) > AMF Global Configuration (config-amf-global) > AMF Call Control Policy (config-call-control-policy-*call\_control\_policy\_name*)

**Syntax Description**

**local-cause-code-map clear-subscriber cause-code-5gmm *cause\_code\_5gmm***

**cause-code-5gmm *cause\_code\_5gmm***

Specify the condition type.

Must be one of the following:

- **5GS-services-not-allowed**
- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: plmn-not-allowed.

**Usage Guidelines**

Use this command to configure the UE subscriber clear condition type.



## amf-services local-cause-code-map ctxt-xfer-fail-amf

Configures the AMF context transfer failure condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*service\_name*)

**Syntax Description** `local-cause-code-map ctxt-xfer-fail-amf cause-code-5gmm cause_code_5gmm`

`cause-code-5gmm cause_code_5gmm`

Specify the condition type.

Must be one of the following:

- `no-suitable-cells-in-tracking-area`
- `plmn-not-allowed`
- `restricted-service-area`
- `roaming-not-allowed-in-this-tracking-area`
- `tracking-area-not-allowed`
- `ue-identity-not-derived`

Default Value: `ue-identity-not-derived`.

**Usage Guidelines** Use this command to configure the AMF context transfer failure condition type parameter.

## amf-services local-cause-code-map ctxt-xfer-fail-mme

Configures the MME context transfer failure condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** `local-cause-code-map ctxt-xfer-fail-mme cause-code-5gmm cause_code_5gmm`

`cause-code-5gmm cause_code_5gmm`

Specify the condition type.

Must be one of the following:

- `no-suitable-cells-in-tracking-area`
- `plmn-not-allowed`
- `restricted-service-area`
- `roaming-not-allowed-in-this-tracking-area`
- `tracking-area-not-allowed`

- **ue-identity-not-derived**

Default Value: ue-identity-not-derived.

**Usage Guidelines** Use this command to configure the MME context transfer failure condition type parameter.

## amf-services local-cause-code-map dnn-mismatch

Configures the DNN mismatch condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** `local-cause-code-map dnn-mismatch cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm *cause\_code\_5gmm***

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: plmn-not-allowed.

**Usage Guidelines** Use this command to configure the DNN mismatch condition type parameter.

## amf-services local-cause-code-map dnn-not-subscribed

Configures the DNN not subscribed condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** `local-cause-code-map dnn-not-subscribed cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm *cause\_code\_5gmm***

Specify the condition type.

Must be one of the following:

- **dnn-not-subscribed**

Default Value: dnn-not-subscribed.

**Usage Guidelines** Use this command to configure the DNN not subscribed condition type parameter.

## amf-services local-cause-code-map gw-unreachable

Configures the gw unreachable condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** `local-cause-code-map gw-unreachable cause-code-5gmm cause_code_5gmm`

`cause-code-5gmm cause_code_5gmm`

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: no-suitable-cells-in-tracking-area.

**Usage Guidelines** Use this command to configure the gw unreachable condition type parameter.

## amf-services local-cause-code-map inter-plmn-roaming

Configures the inter-PLMN roaming condition type parameter.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `local-cause-code-map inter-plmn-roaming cause-code-5gmm cause_code_5gmm`

`cause-code-5gmm cause_code_5gmm`

Specify the condition type.

Must be one of the following:

- **5GS-services-not-allowed**
- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**

- **tracking-area-not-allowed**

Default Value: plmn-not-allowed.

**Usage Guidelines** Use this command to configure the inter-PLMN roaming condition type parameter.

## amf-services local-cause-code-map peer-node-unknown

Configures the peer node no response condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** `local-cause-code-map peer-node-unknown cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm *cause\_code\_5gmm***

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**
- **ue-identity-not-derived**

Default Value: ue-identity-not-derived.

**Usage Guidelines** Use this command to configure the peer node no response condition type parameter.

## amf-services local-cause-code-map restricted-zone-code

Configures the restricted zone code condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** `local-cause-code-map restricted-zone-code cause-code-5gmm cause_code_5gmm`

**cause-code-5gmm *cause\_code\_5gmm***

Specify the condition type.

Must be one of the following:

- **5GS-services-not-allowed**
- **no-suitable-cells-in-tracking-area**

- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: no-suitable-cells-in-tracking-area.

**Usage Guidelines** Use this command to configure the restricted zone code condition type parameter.

## amf-services local-cause-code-map smf-selection-failure

Configures the SMF selection failure condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** **local-cause-code-map smf-selection-failure cause-code-5gmm** *cause\_code\_5gmm*

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: no-suitable-cells-in-tracking-area.

**Usage Guidelines** Use this command to configure the SMF selection failure condition type parameter.

## amf-services local-cause-code-map udm-unavailable

Configures the UDM not available condition type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** **local-cause-code-map udm-unavailable cause-code-5gmm** *cause\_code\_5gmm*

**cause-code-5gmm** *cause\_code\_5gmm*

Specify the condition type.

Must be one of the following:

- **no-suitable-cells-in-tracking-area**
- **plmn-not-allowed**
- **restricted-service-area**
- **roaming-not-allowed-in-this-tracking-area**
- **tracking-area-not-allowed**

Default Value: no-suitable-cells-in-tracking-area.

### Usage Guidelines

Use this command to configure the UDM not available condition type parameter.

## amf-services locality oauth2-enabled

Configures the AMF ID (**oauth2-enabled**) to enable the client authorization support to NRF.

### Command Modes

```
Exec > Global Configuration (config) > AMF Services Configuration (amf-services amf_services_name)
> AMF Name (amf-name amf_name) > Locality (locality locality_name) > oauth2-enabled
```

### Syntax Description

```
amf-name amf_name
locality locality_name
oauth2-enabled
access-token-jws-algo { HS256 | ES256 | RS256 }
access-token-jws-key { shared_secret_key | public_key }
```

#### oauth2-enabled

Enable the OAuth2 client authorization to register the AMF with NRF. The default value is false.

#### access-token-jws-algo { HS256 | ES256 | RS256 }

Specify the type of the access token for the JWS Algorithm authorization.

#### access-token-jws-key { shared\_secret\_key | public\_key }

Specify the type of the access token for the JWS Key authorization.

### Usage Guidelines

Use this command, when the **oauth2-enabled** feature is configured, the options **access-token-jws-algo** and **access-token-jws-key** are mandatory.

## amf-services peer-mme gummei

Configures Globally Unique MME Identifier (GUMMEI) parameters.

### Command Modes

```
Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-amf_services_name)
```

### Syntax Description

```
peer-mme gummei mcc mobile_country_code mnc mobile_network_code group-id mme_group_id
mme-code mme_code address peer_mme_ip_address
```

**address *peer\_mme\_ip\_address***

Specify the IP address if the peer MME.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

-Or-

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**group-id *mme\_group\_id***

Specify the MME group ID.

Must be an integer in the range of 0-65535.

**mcc *mobile\_country\_code***

Specify the three-digit mobile country code. For example, 123.

Must be a string in the three-digit pattern. For information on the three-digit pattern, see the Input Pattern Types section.

**mme-code *mme\_code***

Specify the MME code.

Must be an integer in the range of 0-255.

**mnc *mobile\_network\_code***

Specify the two- or three-digit mobile network code. For example, 23, 456.

Must be a string in the two-or-three-digit pattern. For information on the two-or-three-digit pattern, see the Input Pattern Types section.

**Usage Guidelines**

Use this command to configure peer MME parameters.

## amf-services peer-mme tai-match

Configures TAI match.

**Command Modes**

Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description**

**peer-mme tai-match priority** *tai\_match\_priority* **mcc** *mobile\_country\_code* **mnc** *mobile\_network\_code*

**mcc *mobile\_country\_code***

Specify the three-digit mobile country code. For example, 123.

Must be a string in the three-digit pattern. For information on the three-digit pattern, see the Input Pattern Types section.

**mnc *mobile\_network\_code***

Specify the two- or three-digit mobile network code. For example, 23, 456.

Must be a string in the two-or-three-digit pattern. For information on the two-or-three-digit pattern, see the Input Pattern Types section.

**priority *tai\_match\_priority***

Specify the TAI match priority value.

Must be an integer in the range of 0-4096.

**Usage Guidelines** Use this command to configure TAI match parameters.

## amf-services peer-mme tai-match tac

Configures Tracking Area Code parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** **tac** *options*

**Usage Guidelines** Use this command to configure the Tracking Area Code parameters.

## amf-services peer-mme tai-match tac any

Configures the Tracking Area Code wildcard for peer MME.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **any** *options*

**address *ip\_address***

Specify the IP address of the peer MME.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

-Or-

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**Usage Guidelines** Use this command to configure the the Tracking Area Code wildcard for peer MME.

## amf-services peer-mme tai-match tac startval

Configures the Tracking Area Code start value.



---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `tac startval start tac_start_value`

**address ip\_address**

Specify the IP address of the peer MME.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

-Or-

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**start tac\_start\_value**

Specify the Tracking Area Code start value.

Must be an integer in the range of 1-65535.

---

**Usage Guidelines** Use this command to configure the the Tracking Area Code start value.

## amf-services peer-mme tai-match tac startval to

Configures the Tracking Area Code range for peer MME.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `tac to end tac_start_value`

**address ip\_address**

Specify the IP address of the peer MME.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

-Or-

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**end tac\_end\_value**

Specify the Tracking Area Code range for Peer MME.

Must be an integer in the range of 1-65535.

---

**Usage Guidelines** Use this command to configure the the Tracking Area Code range for peer MME.

## amf-services pgw

Configures peer SMF+PGW-C parameters.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_service\_name*)

**Syntax Description** **pgw fqdn** *fqdn* **smf-network-element-profile** *smf\_ne\_profile\_name*

### **fqdn fqdn**

Specify the PGW fully qualified domain name.

Must be a string.

### **smf-network-element-profile smf\_profile\_name**

Specify name of the SMF network element profile.

Must be a string.

**Usage Guidelines** Use this command to configure SMF+PGW-C parameters.

## amf-services relative-amf-capacity

Configures the AMF Services ID (**relative-amf-capacity**) to enable the Relative Capacity Configuration Update feature in AMF.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (amf-services *amf\_services\_name*)

**Syntax Description** **config**  
**amf-services** *service\_name*  
**relative-amf-capacity** *capacity\_number*

### **relative-amf-capacity capacity\_number**

**relative-amf-capacity** *capacity\_number*—Specifies the AMF capacity, within the range of 0–255. The default value is 127.

**Usage Guidelines** Use this **relative-amf-capacity** command, when you want the relative capacity configuration update feature in AMF feature to be configured.

## amf-services tai-groups

Configures TAI groups.

**Command Modes** Exec > Global Configuration (config) > AMF Services Configuration (config-amf-services-*amf\_services\_name*)

**Syntax Description** **tai-groups** *tai\_group\_name*

***tai\_group\_name***

Specify name of the TAI group.

**Usage Guidelines**

Use this command to configure TAI groups.

You can configure a maximum of one element with this command.

## amf-tools

Enable or disable the AMF tools.

**Command Modes**

Exec > Global Configuration (config)

**Syntax Description**

**amf-tools enable { false | true }**

**enable { false | true }**

Specify to enable or disable the AMF tools.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**Usage Guidelines**

Use this command to enable or disable the AMF tools.

## amf-tools amf-mock-tool

Configures AMF mock tool.

**Command Modes**

Exec > Global Configuration (config)

**Syntax Description**

**amf-mock-tool external-ip *external\_ip\_address***

**external-ip *external\_ip\_address***

Specify the external IP address.

Must be a string.

**Usage Guidelines**

Use this command to configure AMF mock tool external IP address.

## amf-tools lattice

Configures lattice.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **lattice** **sctp-k8-node-name** *sctp\_k8\_node\_name* **sctp-ip-address** *sctp\_ip\_address*  
**lattice-tar-url** *lattice\_tar\_url* **test-companion-tar-url** *test\_companion\_tar\_url*

**lattice-tar-url** *lattice\_tar\_url*

Specify the lattice tar URL.

Must be a string.

**sctp-ip-address** *sctp\_ip\_address*

Specify the external IP address for SCTP.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

-Or-

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**sctp-k8-node-name** *sctp\_k8\_node\_name*

Specify the kubernetes node name on which lattice is to be deployed.

Must be a string.

**test-companion-tar-url** *test\_companion\_tar\_url*

Specify the test companion tar URL.

Must be a string.

---

**Usage Guidelines** Use this command to configure lattice.

## apn-groups

Configures APN groups.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **apn-groups name** *apn\_group\_name*

**name** *apn\_group\_name*

Specify name of the APN group.

Must be a string.

---

**Usage Guidelines** Use this command to configure APN groups. The CLI prompt changes to the APN Groups Configuration mode (config-apn-groups-<group\_name>).

## apn-groups apns

Configures APN group parameters.

---

**Command Modes** Exec > Global Configuration (config) > APN Groups Configuration (config-apn-groups-*group\_name*)

---

**Syntax Description** **apns** *apn\_name*

**apns** *apn\_name*

Specify name of the APN.

Must be a string.

---

**Usage Guidelines** Use this command to configure APN group parameters.

## apn-profiles

Configures APN profile parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **apn-profiles** *apn\_profile\_name*

**apn-profiles** *apn\_profile\_name*

Specify name of the APN profile.

Must be a string.

---

**Usage Guidelines** Use this command to configure APN profile parameters.

## cd

Changes the current working directory.

---

**Command Modes** Exec

---

**Syntax Description** **cd** *directory* .ssh

**cd** *directory*

Specify the directory name.

Must be a string.

---

**Usage Guidelines** Use this command to change the current working directory.

## cdl clear sessions

Clears the data from the Cisco Data Layer (CDL) datastore.

### Command Modes

Exec

### Syntax Description

```
cdl clear sessions [ db-name database | filter filter | map-id map_id |
slice-name slice_name ]
```

#### **db-name** *database*

Specify the database name to be queried for displaying the session details.

Must be a string of 1 to 16 characters.

#### **filter** *filter*

Specify the filter.

#### **map-id** *map\_id*

Specify the map ID to display the data for a map.

Must be an integer in the range of 0-1024.

#### **slice-name** *slice\_name*

Specify the slice name to be queried.

Must be a string of 1 to 16 characters.

### Usage Guidelines

Use this command to clear the data from the Cisco Data Layer (CDL) datastore.

## cdl kafka

Displays the Kafka parameters for Geo Replication.

### Command Modes

Exec

### Syntax Description

```
cdl kafka [ describe [ consumer-groups name | topics [ name kafka_topic_name
| include-internal-topics ] | list [ consumer-groups | topics
include-internal-topics ]
```

#### **describe**

Describe the kafka topics or consumer groups.

#### **consumer-groups** *name*

Displays the kafka consumer groups. By default, all the consumer groups are described

**topics name *kafka\_topic\_name***

Displays the specified kafka topics. By default, all the internal topics are described

**include-internal-topics**

Indicates to include the internal topics.

**list**

Lists the kafka topics or the consumer groups.

**consumer-groups**

Lists the kafka topics or the consumer groups.

**topics include-internal-topics**

List all the kafka topics that include the internal topics.

**Usage Guidelines**

Use this command to display Kafka parameters for Geo Replication.

## cdl show sessions

Displays the session data from the datastore.

**Command Modes**

Exec

**Syntax Description**

```
cdl show sessions count [ detailed [ db-name db_name | filter { condition
[ ends-with | match | starts-with ] | key key_value } | map-id map_id |
slice-name slice_name ] | summary ] | summary [ db-name db_name | filter {
condition [ ends-with | match | starts-with ] | key key_value } | limit
limit | map-id map_id | max-data-size-kb maximum_data_size | next-eval-end-time
| next-eval-start-time | purge-on-eval | slice-name slice_name ] | detailed
[ db-name db_name | filter { condition [ ends-with | match | starts-with
] | key key_value } | limit limit | map-id map_id | max-data-size-kb
maximum_data_size | next-eval-end-time | next-eval-start-time | purge-on-eval
| slice-name slice_name ]
```

**count**

Display the session count information.

**detailed**

Display the session details with data.

**db-name *db\_name***

Specify the database name to be queried for displaying the session details.

Must be a string of 1 to 16 characters.

**key** *key\_value*

Specify the query value.

Must be a string of 0 to 512 characters.

**map-id** *map\_id*

Specify the map ID to display the data for a map.

Must be an integer in the range of 0-1024.

**limit** *limit*

Specify the maximum number of records to display.

Must be an integer in the range of 1-500.

**filter condition** { *ends-with* | *match* | *starts-with* }

Specify the query expression to filter the results of query.

**purge-on-eval**

Displays the list of sessions that have purge-on-eval flag set to true or false.

**next-eval-end-time**

Displays the sessions that have the next-eval-time less than this time.

**next-eval-start-time**

Displays the sessions that have the next-eval-time greater than this time.

**Usage Guidelines**

Use this command to display the session details.

## cdl show status

Displays the status of the database from the datastore.

**Command Modes**

Exec

**Syntax Description**

```
cdl show status db-name database_name
```

**db-name** *database\_name*

Specify the database name to display the status.

Must be a string of 1 to 16 characters.

**Usage Guidelines**

Use this command to display the status of the queried database from the datastore.



## clear ipam

Clears the IP Address Management (IPAM) operational data.

---

**Command Modes** Exec

---

**Syntax Description** `clear ipam`

---

**Usage Guidelines** Use this command to clear IPAM operational data.

## clear ipam

Clears the IP Address Management (IPAM) operational data.

---

**Command Modes** Exec

---

**Syntax Description** `clear ipam`

---

**Usage Guidelines** Use this command to clear the IPAM data.

## clear subscriber

Clears subscriber data.

---

**Command Modes** Exec

---

**Syntax Description** `clear subscriber { all | gr-instance gr_instance | imei imei_id | namespace namespace | nf-service nf_service | supi supi_id | config_specific_options }`

### **all**

Specify to remove all subscriber data.

### **gr-instance *gr\_instance***

Specify the subscribers from the GR instance.

### **imei *imei\_id***

Specify the International Mobile Equipment Identity.

Must be a string of 15-16 characters.

### **namespace *namespace***

NOTE: This keyword is deprecated, use nf-service instead. Specifies the product namespace under which to search.

Default Value: cisco-mobile-infra:none.

**nf-service *nf\_service***

Specify the network function service under which to search.

Default Value: cisco-mobile-infra:none.

**supi *supi\_id***

Specify to remove subscriber data associated with the SUPI ID.

Must be a string of 1-63 characters.

**Usage Guidelines** Use this command to clear subscriber data.

## clear subscriber

Clears the subscriber data.

**Command Modes** Exec

**Syntax Description**

```
clear subscriber { all | gnodeb-id { mcc mcc_value | mnc mnc_value } |
gr-instance gr_instance | imei imei_id | namespace namespace | nf-service nf_service
  | supi supi_id | config_specific_options }
```

**all**

Clears all the subscriber data.

**gnodeb-id { *mcc mcc\_value* | *mnc mnc\_value* }**

Specify the gNodeB ID.

**gr-instance *gr\_instance***

Specify the subscribers from the GR instance.

**imei *imei\_id***

Specify the International Mobile Equipment Identity.

Must be a string of 15 to 16 characters.

**namespace *namespace***

Specify the product namespace under which to search.



**Note** This keyword is deprecated, use nf-service instead.

Default Value: cisco-mobile-infra:none

**nf-service *nf\_service***

Specify the network function service under which to search.

Default Value: cisco-mobile-infra:none.

**supi *supi\_id***

Specify to remove subscriber data associated with the SUPI ID.

Must be a string of 1 to 63 characters.

**Usage Guidelines** Use this command to clear the subscriber data.

## clear subscriber clear-opt ran-opt

Displays and clears subscriber data based on specified criteria.

**Command Modes** Exec

**Syntax Description** `{ clear | show } subscriber gnodeb-id gnodeb_id mnc mobile_network_code mcc mobile_country_code`

**gnodeb-id *gnodeb\_id***

Specify the gnodeb-id.

Must be an integer in the range of 0-4294967295.

**mnc *mobile\_country\_code***

Specify the mobile country code.

Must be a string in the two-or-three-digit pattern. For information on the two-or-three-digit pattern, see the Input Pattern Types section.

**mnc *mobile\_network\_code***

Specify the mobile network code.

Must be a string in the two-or-three-digit pattern. For information on the two-or-three-digit pattern, see the Input Pattern Types section.

**Usage Guidelines** Use this command to view and to clear subscriber data based on specified criteria.

## client http header

Configures HTTP header parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `client http header user-agent user_agent_header`

**user-agent *user\_agent\_header***

Specify the user agent header.

Must be one of the following:

- **app-name**
- **cluster-name**
- **disable**

Default Value: app-name.

**Usage Guidelines** Use this command to configure HTTP header parameters.

## client http ping

Configures HTTP ping parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `client http ping { [ interval ping_interval ] [ timeout ping_timeout ] }`

**interval *ping\_interval***

Specify, in milliseconds, the time interval between two HTTP pings.

Must be an integer in the range of 0-30000.

Default Value: 10000.

**timeout *ping\_timeout***

Specify, in milliseconds, the ping timeout duration to detect if remote host is down.

Must be an integer in the range of 0-15000.

Default Value: 5000.

**Usage Guidelines** Use this command to configure HTTP ping parameters.

## client inbound interface

Configures inbound client interface parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `client inbound interface interface_name`

**interface *interface\_name***

Specify name of the interface.

**Usage Guidelines** Use this command to configure inbound client interface parameters. The CLI prompt changes to the Interface Configuration mode (config-interface-<interface\_name>).

## client inbound interface limit overload

Configures Overload configuration parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `client inbound limit overload reject-code response_code`

**reject-code response\_code**

Specify the response code to be used when pending limit exceeds.

Must be an integer.

**Usage Guidelines** Use this command to configure Overload configuration parameters.

## client inbound interface limit pending

Configures pending limit parameter.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `client inbound limit pending request max_pending_request_limit`

**request max\_pending\_request\_limit**

Specify the maximum pending request limit to allow.

Must be an integer.

Default Value: 10240.

**Usage Guidelines** Use this command to configure the pending request limit parameter.

## client inbound limit overload

Configures Overload configuration parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `client inbound limit overload reject-code response_code`

**reject-code response\_code**

Specify the response code to be used when pending limit exceeds.

Must be an integer.

**Usage Guidelines** Use this command to configure Overload configuration parameters.

## client inbound limit pending

Configures pending limit parameter.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `client inbound limit pending request max_pending_request_limit`

**request max\_pending\_request\_limit**

Specify the maximum pending request limit to allow.

Must be an integer.

Default Value: 10240.

**Usage Guidelines** Use this command to configure the pending request limit parameter.

## client outbound host ping

Configures outbound host ping parameter.

**Command Modes** Exec > Global Configuration (config) > Interface Configuration (config-interface-interface\_name)

**Syntax Description** `host ping backoff backoff_interval timeout ping_timeout interval ping_interval`

**backoff backoff\_interval**

Specify, in milliseconds, the backoff time interval to wait when remote host is detected down before pinging again.

Must be an integer in the range of 0-3600000.

Default Value: 0.

**interval ping\_interval**

Specify, in milliseconds, the time interval between two pings.

Must be an integer in the range of 0-30000.

Default Value: 0.

**timeout ping\_timeout**

Specify the ping timeout duration, in milliseconds, to detect remote host down.

Must be an integer in the range of 0-15000.

Default Value: 0.

**Usage Guidelines** Use this command to configure outbound host ping parameter.

## client outbound interface

Configures outbound client interface parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `client outbound interface interface_name`

**interface *interface\_name***

Specify the interface.

**Usage Guidelines** Use this command to configure outbound client interface parameters. The CLI prompt changes to the Interface Configuration mode (config-interface-<interface\_name>).

## client outbound interface host ping

Configures outbound host ping parameter.

**Command Modes** Exec > Global Configuration (config) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description** `host ping backoff backoff_interval timeout ping_timeout interval ping_interval`

**backoff *backoff\_interval***

Specify, in milliseconds, the backoff time interval to wait when remote host is detected down before pinging again.

Must be an integer in the range of 0-3600000.

Default Value: 0.

**interval *ping\_interval***

Specify, in milliseconds, the time interval between two pings.

Must be an integer in the range of 0-30000.

Default Value: 0.

**timeout *ping\_timeout***

Specify the ping timeout duration, in milliseconds, to detect remote host down.

Must be an integer in the range of 0-15000.

Default Value: 0.

**Usage Guidelines** Use this command to configure outbound host ping parameter.

## client outbound interface limit consecutive failure

Configures consecutive failure configuration parameters.

**Command Modes** Exec > Global Configuration (config) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description** **limit consecutive failure count** *consecutive\_failure\_count* **codes** *failure\_codes*

**codes** *failure\_codes*

Specify the list of failure codes to be considered, such as timeout, 503, etc.

Must be a string.

You can configure a maximum of 10 elements with this keyword.

**count** *consecutive\_failure\_count*

Specify the consecutive failure limit count to detect remote host as down.

Must be an integer.

Default Value: 0.

**Usage Guidelines** Use this command to configure consecutive failure configuration parameters.

## client outbound interface limit pending

Configures pending limit configuration.

**Command Modes** Exec > Global Configuration (config) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description** **limit pending response** *response\_message\_limit*

**response** *response\_message\_limit*

Specify the pending response message limit to detect remote host as down.

Must be an integer.

Default Value: 1024.

**Usage Guidelines** Use this command to configure pending limit configuration.

## client outbound limit consecutive failure

Configures consecutive failure configuration parameters.

**Command Modes** Exec > Global Configuration (config) > Interface Configuration (config-interface-*interface\_name*)



**Syntax Description**    `limit consecutive failure count` *consecutive\_failure\_count* **codes** *failure\_codes*

**codes** *failure\_codes*

Specify the list of failure codes to be considered, such as timeout, 503, etc.

Must be a string.

You can configure a maximum of 10 elements with this keyword.

**count** *consecutive\_failure\_count*

Specify the consecutive failure limit count to detect remote host as down.

Must be an integer.

Default Value: 0.

**Usage Guidelines**    Use this command to configure consecutive failure configuration parameters.

## client outbound limit pending

Configures pending limit configuration.

**Command Modes**    Exec > Global Configuration (config) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description**    `limit pending response` *response\_message\_limit*

**response** *response\_message\_limit*

Specify the pending response message limit to detect remote host as down.

Must be an integer.

Default Value: 1024.

**Usage Guidelines**    Use this command to configure pending limit configuration.

## commit

Configures the commit parameters.

**Command Modes**    Exec

**Syntax Description**    `commit [ abort { persist-id` *persist\_id*  `} | confirm { persist-id` *persist\_id*  `} | persist-id` *persist\_id*  `]`

**abort** *persist-id* *persist\_id*

Specify to abort commit. Specify the persistence ID for the commit operation.

Must be an integer.

**confirm persist-id** *persist\_id*

Specify to confirm commit. Specify the persistence ID for the commit operation.

Must be an integer.

**persist-id** *persist\_id*

Specify the persistence ID for the commit operation.

Must be an integer.

**Usage Guidelines**

Use this command to configure the commit parameters.

## compare

Compares the running configuration to another configuration or a file.

**Command Modes**

Exec

**Syntax Description**

```
compare file { filename another_configuration }
```

***filename*** [.kube | .ssh] |

Specify the file name ending with .kube/.ssh or the directory path of the file to be compared.

Must be a string.

***another\_configuration***

Specify the configuration to be compared against.

Must be a string.

**Usage Guidelines**

Use this command to configure the file that must be compared.

## config

Manipulates the software configuration information.

**Command Modes**

Exec

**Syntax Description**

```
config [ exclusive | no-confirm | shared | terminal ]
```

**exclusive**

Specify to enter the exclusive configuration mode.

**no-confirm**

Specify to apply the command without asking for confirmation.

**shared**

Specify to enter the shared configuration mode.

**terminal**

Specify to enter the terminal configuration mode.

---

**Usage Guidelines** Use this command to manipulate the software configuration information.

## config-error info

Displays configuration error information.

---

**Command Modes** Exec

---

**Syntax Description** **show config-error [ info ]**

---

**Usage Guidelines** Use this command to view configuration error information.

## coverage

Configures code coverage utilities.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **coverage container-stop** *container\_stop*

**container-stop** *container\_stop*

Specify the container stop.

Must be a string.

Default Value: false.

---

**Usage Guidelines** Use this command to configure code coverage utilities.

## datastore dbs

Configures DBS parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **datastore dbs** *dbs\_name*

**dbs** *dbs\_name*

Specify name of the DBS.

Must be a string.

**Usage Guidelines** Use this command to configure the DBS parameters. The CLI prompt changes to the DBS Configuration mode (config-dbs-<dbs\_name>).

## datastore dbs endpoints

Configures endpoint parameters.

**Command Modes** Exec > Global Configuration (config) > DBS Configuration (config-dbs-*dbs\_name*)

**Syntax Description** `endpoints endpoint_name [ port port_number ]`

**endpoints endpoint\_name**

Specify the endpoint host name.

Must be a string.

**port port\_number**

Specify the port number.

Must be an integer.

**Usage Guidelines** Use this command to configure endpoint parameters.

## datastore notification-ep

Configures notification endpoint parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `datastore notification-ep { [ host host_name ] [ port port_number ] }`

**host host\_name**

Specify the host name.

Must be a string.

**port port\_number**

Specify the port number.

Must be an integer.

**Usage Guidelines** Use this command to configure notification endpoint parameters.

## datastore session-db

Configures Session DB parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **datastore session-db endpoints** *endpoint\_name* [ [ **port** *port\_number* ] [ **slice-name** *slice\_name* ] ]

**slice-name** *slice\_name*

Specify name of the slice.

Must be a string.

**Usage Guidelines** Use this command to configure Session DB parameters.

## datastore session-db endpoints

Configures endpoint parameters.

**Command Modes** Exec > Global Configuration (config) > DBS Configuration (config-dbs-*dbs\_name*)

**Syntax Description** **endpoints** *endpoint\_name* [ **port** *port\_number* ]

**endpoints** *endpoint\_name*

Specify the endpoint host name.

Must be a string.

**port** *port\_number*

Specify the port number.

Must be an integer.

**Usage Guidelines** Use this command to configure endpoint parameters.

## debug-settings amf-ngap-ep

Configures debug settings for AMF NGAP endpoint.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **debug-settings amf-ngap-ep go-debug**

**go-debug**

Specify to debug.

Must be a string.

---

**Usage Guidelines** Use this command to configure debug settings for the AMF NGAP endpoint.

## debug-settings amf-rest-ep

Configures debug settings for AMF REST endpoint.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `debug-settings amf-rest-ep go-debug`

**go-debug**

Specify to debug.

Must be a string.

---

**Usage Guidelines** Use this command to configure debug settings for the AMF REST endpoint.

## debug-settings amf-sctp-lb

Configures debug settings for amf-sctp-lb.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `debug-settings amf-sctp-lb go-debug`

**go-debug**

Specify to debug.

Must be a string.

---

**Usage Guidelines** Use this command to configure debug settings for amf-sctp-lb.

## debug-settings amf-service

Configures debug settings for AMF service.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `debug-settings amf-service go-debug`

**go-debug**

Specify to debug.

Must be a string.

---

**Usage Guidelines** Use this command to configure debug settings for the AMF service.

## deployment

Configures the product deployment parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **deployment** { **app-name** *application\_name* | **cluster-name** *cluster\_name* | **dc-name** *datacenter\_name* | **logical-nf-instance-id** *logical\_nf\_instance\_id* | **model** *deployment\_model* }

**app-name** *application\_name*

Specify name of the application.

Must be a string.

**cluster-name** *cluster\_name*

Specify name of the cluster.

Must be a string.

**dc-name** *datacenter\_name*

Specify name of the datacenter.

Must be a string.

**logical-nf-instance-id** *logical\_nf\_instance\_id*

Specify the logical NF instance ID.

Must be an integer.

Default Value: 0.

**model** *deployment\_model*

Specify the deployment model. Default: Large.

Must be one of the following:

- **small**

---

**Usage Guidelines** Use this command to configure product deployment parameters.

## deployment resource

Configures the deployment CPU resource parameter.

**Command Modes** Exec > Global Configuration (config) > Deployment Configuration (config-deployment)

**Syntax Description** **resource** **cpu** *cpu\_size*

**cpu** *cpu\_size*

Specify the CPU size in millicores.

Must be an integer in the range of 2000-1000000.

Default Value: 18000.

**Usage Guidelines** Use this command to configure the deployment CPU resource parameter.

## describe

Displays the command information.

**Command Modes** Exec

**Syntax Description** **describe** *command*

**command**

Specify the command name to display the detailed information about the command.

Must be a string.

The command must be one of the following:

- **aaa**
- **cd**
- **cdl**
- **clear**
- **commit**
- **compare**
- **config**
- **describe**
- **dump**
- **exit**
- **geo**



- **help**
- **history**
- **id**
- **idle-timeout**
- **ignore-leading-space**
- **job**
- **leaf-prompting**
- **license**
- **logout**
- **monitor**
- **no**
- **paginate**
- **quit**
- **reconcile**
- **screen-length**
- **screen-width**
- **search**
- **send**
- **show**
- **show-defaults**
- **smiuser**
- **system**
- **terminal**
- **timestamp**
- **transaction**
- **who**

**Usage Guidelines** Use this command to display the command-specific information.

## diagnostics

Displays diagnostics information.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<b>show diagnostics</b>
<b>Usage Guidelines</b>	Use this command to view diagnostics information.

## diagnostics info

Displays diagnostics information.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<b>show diagnostics [ info ]</b>
<b>Usage Guidelines</b>	Use this command to view diagnostics information.

## dump

Removes the transaction history.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<b>dump transactionhistory</b>  <b>transactionhistory</b> Dump the transaction history.
<b>Usage Guidelines</b>	Use this command to remove the transaction history.

## edr

Configures EDR reporting parameters.

<b>Command Modes</b>	Exec > Global Configuration (config)
<b>Syntax Description</b>	<b>edr { [ reporting <i>reporting_status</i> ] [ subscribers <i>subscribers_edr_reporting</i> ] }</b>  <b>reporting <i>reporting_status</i></b> Specify to enable or disable EDR reporting. Must be one of the following: <ul style="list-style-type: none"> <li>• <b>disable</b></li> <li>• <b>enable</b></li> </ul> Default Value: disable.

**Usage Guidelines** Use this command to configure EDR parameters.

## edr edrsubscribers

Configures subscriber EDR reporting.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **edr subscribers** *subscribers\_for\_edr\_reporting*

**Syntax Description** **edr reporting { enable | disable } subscribers** *subscribers\_for\_edr\_reporting*

**subscribers** *subscribers\_for\_edr\_reporting*

Specify the subscribers to enable EDR reporting. For example, imsi-123456789012345.

Must be a string.

You can configure a maximum of 10 elements with this keyword.

**Usage Guidelines** Use this command to configure subscriber EDR reporting.

## edr file files

Configures EDR file parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **edr file { transaction | transaction-collision } [ reporting** *reporting\_status*  
**] [ verbose** *verbosity\_status* **]**

**file { transaction | transaction-collision }**

Specify name of the EDR file.

**reporting** *reporting\_status*

Specify to enable or disable reporting of this file.

Must be one of the following:

- **disable**
- **enable**

Default Value: disable.

**verbose** *verbosity\_status*

Specify to enable or disable field description or long names in the file.

Must be one of the following:

- **disable**
- **enable**

Default Value: disable.

**Usage Guidelines** Use this command to configure EDR file parameters.

## edr file files disable

Disables procedure IDs.

**Command Modes** Exec > Global Configuration (config) > EDR File Configuration (config-file-*edr\_file*)

**Syntax Description** **disable procedure-id** *procedure\_ids*

**procedure-id** *procedure\_ids*

Specify the procedure ID value(s)/name(s).

Must be a string.

**Usage Guidelines** Use this command to disable specific procedure IDs.

## edr file files flush

Configures EDR file flush parameters.

**Command Modes** Exec > Global Configuration (config) > EDR File Configuration (config-file-*edr\_file*)

**Syntax Description** **flush interval** *file\_flush\_interval*

**interval** *file\_flush\_interval*

Specify, in milliseconds, the file flush interval.

Must be an integer.

Default Value: 1000.

**Usage Guidelines** Use this command to configure the EDR file flush parameters.

## edr file files limit

Configures EDR file limit parameters.

**Command Modes** Exec > Global Configuration (config) > EDR File Configuration (config-file-*edr\_file*)

**Syntax Description** **limit** { [ **count** *max\_files\_to\_preserve* ] [ **size** *max\_single\_file\_size* ] }

**count *max\_files\_to\_preserve***

Specify the maximum number of files to be preserved.

Must be an integer.

Default Value: 10.

**size *max\_single\_file\_size***

Specify the maximum single file size limit in MB.

Must be an integer.

Default Value: 100.

**Usage Guidelines** Use this command to configure the EDR file limit parameters.

## edr file files procedure-id disable-event-id

Disables transaction-level procedure ID configuration.

**Command Modes** Exec > Global Configuration (config) > EDR File Configuration (config-file-*edr\_file*)

**Syntax Description** **procedure-id** *procedure\_id*

**procedure *procedure\_id***

Specify the procedure ID value/name.

Must be a string.

**Usage Guidelines** Use this command to disable transaction-level procedure ID configuration.

## edr file files procedure-id disable-event-id disable-inner disable

Disables event IDs.

**Command Modes** Exec > Global Configuration (config) > EDR File Configuration (config-file-*edr\_file*) > Procedure ID Configuration (config-procedure-id-*procedure\_id*)

**Syntax Description** **disable event-id** *event\_ids*

**event-id *event\_ids***

Specify the event ID value(s)/name(s).

Must be a string.

**Usage Guidelines** Use this command to disable event IDs.

## edr file files procedure-id disable-event-id disable-inner event-id disable-field-id

Disables procedure-level event ID configuration.

**Command Modes** Exec > Global Configuration (config) > EDR File Configuration (config-file-*edr\_file*) > Procedure ID Configuration (config-procedure-id-*procedure\_id*)

**Syntax Description** **event-id** *event\_id*

**event** *event\_id*

Specify the event ID value/name.

Must be a string.

**Usage Guidelines** Use this command to disable procedure-level event ID configuration.

## edr file files procedure-id disable-event-id disable-inner event-id disable-field-id disable

Disables field IDs.

**Command Modes** Exec > Global Configuration (config) > EDR File Configuration (config-file-*edr\_file*) > Procedure ID Configuration (config-procedure-id-*procedure\_id*)

**Syntax Description** **disable field-id** *field\_ids*

**field-id** *field\_ids*

Specify the field ID value(s)/name(s).

Must be a string.

**Usage Guidelines** Use this command to disable field IDs.

## endpoint all

Displays endpoint status.

**Command Modes** Exec

**Syntax Description** **show endpoint** [ **all** ]

**Usage Guidelines** Use this command to view the status of endpoints.

## endpoint info

Displays endpoint information.

---

**Command Modes** Exec

---

**Syntax Description** `show endpoint info`

---

**Usage Guidelines** Use this command to view endpoint information.

## exit

Exits the current configuration mode and returns to the parent configuration mode.

---

**Command Modes** Exec

---

**Syntax Description** `exit`

---

**Usage Guidelines** Use this command to exit the current configuration mode and return to the parent configuration mode. When used in the Exec mode, exits the management session.

## geo maintenance

Configures Geo Admin Controller to enable or disable maintenance mode.

---

**Command Modes** Exec

---

**Syntax Description** `geo maintenance mode { false | true }`

`mode { false | true }`

Specify whether to enable or disable maintenance mode. To enable, set to true.

Must be one of the following:

- `false`
- `true`

Default Value: false.

---

**Usage Guidelines** Use this command to configure Geo Admin Controller to enable or disable maintenance mode.

## geo reset-role

Configures Geo Admin Controller for reset role.

---

**Command Modes** Exec

---

**Syntax Description** `geo reset-role { [ instance-id instance_id ] [ role new_role ] }`

**instance-id** *instance\_id*

Specify the instance ID for geo command.

**role** *new\_role*

Specify the new role for the specified site.

---

**Usage Guidelines** Use this command to configure Geo Admin Controller for reset role.

## geo switch-role

Configures Geo Admin Controller for trigger failover.

---

**Command Modes** Exec

---

**Syntax Description** `geo switch-role { [ failback-interval failback_interval ] [ instance-id instance_id ] [ role new_role ] }`

**failback-interval** *failback\_interval*

Specify, in seconds, the interval between notify failover and actual failover.

Must be a string.

**instance-id** *instance\_id*

Specify the instance ID for geo command.

**role** *new\_role*

Specify the new role for the specified site.

---

**Usage Guidelines** Performs instance role manipulation. Use this command to configure Geo Admin Controller for trigger failover.

## geomonitor podmonitor pods

Configures configuration of pods to be monitored.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `geomonitor podmonitor pods pod_name [ [ failedReplicaPercent failed_replica_precentage ] [ retryCount retry_count ] [ retryFailOverInterval retry_interval ] [ retryInterval retry_interval ] ]`



**failedReplicaPercent *failed\_replica\_precentage***

Specify the percentage of failed replica after which GR failover will get triggered.

Must be an integer in the range of 10-100.

**Pods *pod\_name***

Specify the name of the pod to be monitored.

Must be a string.

**retryCount *retry\_count***

Specify the counter value to retry if pod failed to ping after which pod is marked as down.

Must be an integer in the range of 1-10.

**retryFailOverInterval *retry\_interval***

Specify, in milliseconds, the retry interval if pod ping fails.

Must be an integer in the range of 200-10000.

**retryInterval *retry\_interval***

Specify, in milliseconds, the retry interval if pod ping is successful.

Must be an integer in the range of 200-10000.

**Usage Guidelines**

Use this command to configure configuration of pods to be monitored.

## geomonitor remotecclustermonitor

Configures remote cluster monitoring parameters.

**Command Modes**

Exec > Global Configuration (config)

**Syntax Description**

```
geomonitor remotecclustermonitor retryCount retry_count retryInterval  
retry_interval
```

**retryCount *retry\_count***

Specify the retry count if remote cluster is not reachable. To disable, set to 0.

Must be an integer in the range of 0-10.

Default Value: 3.

**retryInterval *retry\_interval***

Specify, in milliseconds, the retry interval after which status of the remote site will be fetched.

Must be an integer in the range of 200-50000.

Default Value: 3000.

**Usage Guidelines** Use this command to configure remote cluster monitoring parameters.

## geomonitor trafficMonitor

Configures traffic monitoring configuration.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `geomonitor trafficMonitor thresholdCount threshold_count thresholdInterval threshold_interval`

### **thresholdCount** *threshold\_count*

Specify the number of calls received for standby instance. To disable, set to 0.

Must be an integer in the range of 0-10000.

Default Value: 0.

### **thresholdInterval** *threshold\_interval*

Specify, in milliseconds, the maximum duration window to hit the threshold count value.

Must be an integer in the range of 100-10000.

Default Value: 3000.

**Usage Guidelines** Use this command to configure traffic monitoring configuration.

## geomonitor vipmonitor instance

Configures VIP monitoring parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `geomonitor vipmonitor instance instance_id`

### **instance** *instance\_id*

Specify the instance ID.

Must be an integer in the range of 1-8.

**Usage Guidelines** Use this command to configure VIP monitoring configuration. The CLI prompt changes to the Instance Configuration mode (config-instance-<instance\_id>).

## geomonitor vipmonitor instance vips

Configures VIP interface monitoring parameters.

**Command Modes**

Exec > Global Configuration (config) > Instance Configuration (config-instance-*instance\_id*)

**Syntax Description**

```
vips vip_interface_name [ retryCount retry_count | retryFailOverInterval
retry_interval | retryInterval retry_interval | vipIp vip_ip | vipPort vip_port_number
]
```

**retryCount** *retry\_count*

Specify the counter value to retry if VIP failed to ping after which VIP is marked as down.  
Must be an integer in the range of 1-10.

**retryFailOverInterval** *retry\_interval*

Specify, in milliseconds, the retry interval if VIP failed to ping.  
Must be an integer in the range of 200-10000.

**retryInterval** *retry\_interval*

Specify, in milliseconds, the retry interval if VIP pinged successfully.  
Must be an integer in the range of 200-10000.

**vipIp** *vip\_ip*

Specify the IPv4 address.  
Must be a string.

**vipPort** *vip\_port\_number*

Specify the diagnostic port number.  
Must be an integer.

**vip\_interface\_name**

Specify name of the interface to monitor.  
Must be a string.

**Usage Guidelines**

Use this command to configure VIP interface monitoring parameters.

## group nf-mgmt

Configures NF management group name.

**Command Modes**

Exec > Global Configuration (config)

**Syntax Description**

```
nf-mgmt mgmt_group_name { nrf-mgmt-group nrf_mgmt_group_name |
failure-handling-profile fh_profile_name | nrf-auth-group nrf_auth_group_name |
locality locality_name | re-register { false | true } }
```

**failure-handling-profile *fh\_profile\_name***

Specify name of the Failure Handling profile for the NRF Management functionality.

Must be a string.

**locality *locality\_name***

Specify the locality information.

Must be a string.

**nf-mgmt *mgmt\_group\_name***

Specify name of the NRF management group.

Must be a string.

**nrf-mgmt-group *nrf\_mgmt\_group\_name***

Specify name of the NRF management group.

Must be a string.

---

**Usage Guidelines** Use this command to configure NF management group name.

## group nf-mgmt heartbeat

Configures the heartbeat interval parameter.

---

**Command Modes** Exec > Global Configuration (config) > NF Management Group Configuration  
(*config-nf-mgmt-mgmt\_group\_name*)

---

**Syntax Description** **heartbeat interval** *heartbeat\_interval*

**interval *heartbeat\_interval***

Specify the heartbeat interval in seconds.

Must be an integer.

---

**Usage Guidelines** Use this command to configure the heartbeat interval parameter.

## group nrf discovery

Configures NRF discovery group parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **group nrf discovery** *group\_name* [ **nrf-type** *nrf\_type* ]

**discovery group\_name**

Specify name of the NRF discovery group.

Must be a string.

**nrf-type nrf\_type**

Specify the NRF type.

Must be one of the following:

- **PLMN**: PLMN.
- **SHARED**: SHARED.
- **SLICE-LOCAL**: SLICE-LOCAL.

**Usage Guidelines**

Use this command to configure the NRF discovery group configuration.

## group nrf discovery service type nrf

Configures the NRF discovery service name.

**Command Modes**

Exec > Global Configuration (config)

**Syntax Description**

```
nrf nrf_service_name [ responsetimeout response_timeout ]
```

**nrf nrf\_service\_name**

Specify name of the NRF discovery service.

Must be one of the following:

- **nnrf-disc**

**responsetimeout response\_timeout**

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**Usage Guidelines**

Use this command to configure the NRF discovery service name.

## group nrf discovery service type nrf endpoint-profile

Configures endpoint profile parameters2.

**Command Modes**

Exec > Global Configuration

**Syntax Description** `endpoint-profile endpoint_profile_name { api-uri-prefix api_uri_prefix | api-root api_root | uri-scheme uri_scheme }`

**api-root *api\_root***

Specify the API root.

Must be a string.

**api-uri-prefix *api\_uri\_prefix***

Specify the API URI prefix.

Must be a string.

**endpoint-profile *endpoint\_profile\_name***

Specify name of the endpoint profile.

Must be a string.

**uri-scheme *uri\_scheme***

Specify the URI scheme.

Must be one of the following:

- **http**
- **https**

**Usage Guidelines** Use this command to configure endpoint profile parameters.

## group nrf discovery service type nrf endpoint-profile endpoint-name

Configures endpoint parameters.

**Command Modes** Exec > Global Configuration

**Syntax Description** `endpoint-name endpoint_name [ priority priority | capacity endpoint_capacity ]`

**capacity *endpoint\_capacity***

Specify the endpoint capacity.

Must be an integer in the range of 0-65535.

Default Value: 10.

**priority *priority***

Specify the node priority for endpoint.

Must be an integer in the range of 0-65535.

***endpoint\_name***

Specify name of the endpoint.

Must be a string.

**Usage Guidelines**

Use this command to configure endpoint parameters.

## group nrf discovery service type nrf endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## group nrf discovery service type nrf endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name)



> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port** *port\_number*

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## group nrf discovery service type nrf endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

---

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

---

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

---

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

---

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## group nrf discovery service type nrf endpoint-profile version uri-version

Configures URI version information.

---

**Command Modes**

Exec > Global Configuration

---

**Syntax Description**

```
uri-version uri_version [ full-version full_version ]
```

**full-version full\_version**

Specify the full version in the format *major-version.minor-version.patch-version.[alpha-draft-number]*

Must be a string.

**uri-version *uri\_version***

Specify the URI version.

Must be a string in the pattern v\d.

**Usage Guidelines** Use this command to configure URI version information.

## group nrf mgmt

Configures the NRF self-management group parameters.

**Command Modes** Exec > Global Configuration

**Syntax Description** `mgmt group_name [ nrf-type nrf_type ]`

**mgmt *group\_name***

Specify name of the NRF self-management group.

Must be a string.

**nrf-type *nrf\_type***

Specify the NRF type.

Must be one of the following:

- **PLMN**: PLMN.
- **SHARED**: SHARED.
- **SLICE-LOCAL**: SLICE-LOCAL.

**Usage Guidelines** Use this command to configure the NRF self-management group parameters.

## group nrf mgmt service type nrf

Configures the NRF self-management service information.

**Command Modes** Exec > Global Configuration

**Syntax Description** `nrf nrf-service-name nrf_service_name [ responsetimeout response_timeout ]`

**nrf-service-name *nrf\_service\_name***

Specify name of the NRF service.

Must be one of the following:

- **nnrf-nfm**

**responsetimeout *response\_timeout***

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**Usage Guidelines**

Use this command to configure the NRF self-management service information.

## group nrf mgmt service type nrf endpoint-profile

Configures endpoint profile parameters<sup>1</sup>.

**Command Modes**

Exec > Global Configuration

**Syntax Description**

```
endpoint-profile endpoint_profile_name { api-uri-prefix api_uri_prefix | api-root api_root | uri-scheme uri_scheme }
```

**api-root *api\_root***

Specify the API root.

Must be a string.

**api-uri-prefix *api\_uri\_prefix***

Specify the API URI prefix.

Must be a string.

**endpoint-profile *endpoint\_profile\_name***

Specify name of the endpoint profile.

Must be a string.

**uri-scheme *uri\_scheme***

Specify the URI scheme.

Must be one of the following:

- **http**
- **https**

**Usage Guidelines**

Use this command to configure endpoint profile parameters.

## group nrf mgmt service type nrf endpoint-profile endpoint-name

Configures endpoint parameters.

<b>Command Modes</b>	Exec > Global Configuration
<b>Syntax Description</b>	<p><b>endpoint-name</b> <i>endpoint_name</i> [ <b>max-retry-count</b> <i>max_retry_count</i> ] [ <b>priority</b> <i>endpoint_priority</i> ]</p> <p><b>max-retry-count</b> <i>max_retry_count</i></p> <p>Specify the maximum retry count.</p> <p>Must be an integer in the range of 0-10.</p> <p>Default Value: 3.</p> <p><b>priority</b> <i>endpoint_priority</i></p> <p>Specify the node priority for endpoint.</p> <p>Must be an integer in the range of 0-65535.</p> <p><b>endpoint_name</b></p> <p>Specify name of the endpoint.</p> <p>Must be a string.</p>

**Usage Guidelines** Use this command to configure endpoint parameters.

## group nrf mgmt service type nrf endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name

Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

# group nrf mgmt service type nrf endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> )



> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Syntax Description

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6
ipv6_address ] [ port port_number ] }
```

#### ipv4 ipv4\_address

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

#### ipv6 ipv6\_address

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

#### port port\_number

Specify the port number.

Must be an integer in the range of 0-65535.

### Usage Guidelines

Use this command to configure the endpoint IP address and port number parameters.

## group nrf mgmt service type nrf endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

### Command Modes

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Command Modes

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Command Modes

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Command Modes

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name

**group nrf mgmt service type nrf endpoint-profile endpoint-name tertiary ip-address**

Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Syntax Description

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

#### **ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

#### **ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

#### **port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

#### Usage Guidelines

Use this command to configure the endpoint IP address and port number parameters.

# group nrf mgmt service type nrf endpoint-profile version uri-version

Configures version information.

---

**Command Modes** Exec > Global Configuration

---

**Syntax Description** **uri-version** *uri\_version* [ **full-version** *full\_version* ]

**full-version** *full\_version*

Specify the full version in the format *major-version.minor-version.patch-version.[alpha-draft-number]*

Must be a string.

**uri-version** *uri\_version*

Specify the URI version.

Must be a string in the pattern *v\d*.

---

**Usage Guidelines** Use this command to configure the version information.

## help

Displays help information for specified command.

---

**Command Modes** Exec

---

**Syntax Description** **help** *command*

**command**

Specify the command name to display the corresponding help information.

Must be a string.

The command must be one of the following:

- **aaa**
- **cd**
- **cdl**
- **clear**
- **commit**
- **compare**
- **config**

- describe
- dump
- exit
- geo
- help
- history
- id
- idle-timeout
- ignore-leading-space
- job
- leaf-prompting
- license
- logout
- monitor
- no
- paginate
- quit
- reconcile
- screen-length
- screen-width
- search
- send
- show
- show-defaults
- smiuser
- system
- terminal
- timestamp
- transaction
- who

---

**Usage Guidelines**

Use this command to view help information for a specified command.

# history

Configures the command history cache size.

---

**Command Modes** Exec

---

**Syntax Description** **history** *history\_size*

***history\_size***

Specify the command history cache size.

Must be an integer in the range of 0-1000.

---

**Usage Guidelines** Use this command to configure the command history cache size.

# id

Displays the user ID information.

---

**Command Modes** Exec

---

**Syntax Description** **id**

---

**Usage Guidelines** Use this command to view the user ID information.

# idle-timeout

Configures the maximum duration for which a command can remain idle in seconds after which the system automatically terminates the connection.

---

**Command Modes** Exec

---

**Syntax Description** **idle-timeout** *timeout\_in\_seconds*

***timeout\_in\_seconds***

Specify the idle timeout duration in seconds.

---

**Usage Guidelines** Use this command to configure the maximum duration for which a command can remain idle.

# ignore-leading-space

Configures whether to ignore or consider the leading whitespace at the beginning of a command.

---

**Command Modes** Exec

**Syntax Description** `ignore-leading-space { false | true }`

`{ false | true }`

Specify false to ignore leading whitespace, and true to consider it.

Must be either "false" or "true".

**Usage Guidelines** Use this command to configure whether to ignore or consider leading whitespace at the beginning of a command.

## infra metrics experimental

Configures the experimental metrics version to be enabled.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `infra metrics experimental version experimental_metrics_version`

`version experimental_metrics_version`

Specify the experimental metrics version to be enabled.

Must be an integer in the range of 0-4.

Default Value: 0.

**Usage Guidelines** Use this command to configure the experimental metrics version to be enabled.

## infra metrics verbose verboseLevels

Configures verbose configuration parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `infra metrics verbose pod_type level verbose_level`

`level verbose_level`

Specify the verbosity level.

Must be one of the following:

- debug
- production
- trace

Default Value: trace.

***pod\_type***

Specify the pod type.

Must be one of the following:

- **load-balancer**
- **protocol**
- **service**

---

**Usage Guidelines** Use this command to configure verbose configuration parameters.

## infra transaction limit

Configures the maximum stage limit per transaction.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `infra transaction limit stage max_stage_limit`

***stage max\_stage\_limit***

Specify the maximum stage limit per transaction.

Must be an integer.

Default Value: 100.

---

**Usage Guidelines** Use this command to configure the maximum stage limit per transaction.

## infra transaction limit consecutive same

Configures the maximum consecutive stage limit per transaction.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `infra transaction limit consecutive same stage max_consecutive_stage_limit`

***stage max\_consecutive\_stage\_limit***

Specify the maximum consecutive stage limit per transaction.

Must be an integer.

Default Value: 10.

---

**Usage Guidelines** Use this command to configure the maximum consecutive stage limit per transaction.

## infra transaction loop

Configures the transaction loop detection parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `infra transaction loop detection detection_status`

**detection *detection\_status***

Specify to enable or disable loop detection.

Must be one of the following:

- **disable**
- **enable**

Default Value: disable.

**Usage Guidelines** Use this command to configure the transaction loop detection parameter.

## infra transaction loop category

Configures the loop category.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `infra transaction loop category loop_category`

**category *loop\_category***

Specify the category.

**Usage Guidelines** Use this command to configure the loop category. The CLI prompt changes to the Loop Category Configuration mode(config-category-<category>).

## infra transaction loop category threshold

Configures the loop detection interval parameter.

**Command Modes** Exec > Global Configuration (config) > Loop Category Configuration (config-category-*category*)

**Syntax Description** `threshold interval loop_detect_interval`

**interval *loop\_detect\_interval***

Specify, in seconds, the loop detection interval.



Must be an integer.

Default Value: 5.

---

**Usage Guidelines**

Use this command to configure the loop detection interval parameter.

## infra transaction loop category threshold thresholds

Configures thresholds.

---

**Command Modes**

Exec > Global Configuration (config) > Loop Category Configuration (config-category-*category*)

---

**Syntax Description**

**threshold** *threshold\_level* [ [ **action** *threshold\_action* ] [ **count** *max\_transactions* ] ]

**action** *threshold\_action*

Specify the action to take on threshold breach.

Must be one of the following:

- **kill-session**
- **log-event**
- **noop**

Default Value: noop.

**count** *max\_transactions*

Specify the maximum number of transactions for the threshold interval.

Must be an integer.

Default Value: 100.

**thresholds** *threshold\_level*

Specify the threshold level.

Must be one of the following:

- **high**
- **low**

---

**Usage Guidelines**

Use this command to configure thresholds.

## instance instance-id

Configures instance ID of GR instance.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `instance instance-id instance_id`

**id** *instance\_id*

Specify the instance ID.

**Usage Guidelines** GR instance-specific parameters. Use this command to configure the instance ID of GR instance. The CLI prompt changes to the Instance ID Configuration mode (config-instance-id-<instance\_id>).

## instance instance-id endpoint ep

Configures endpoint parameters.

**Command Modes** Exec > Global Configuration (config) > Instance ID Configuration (config-instance-id-*instance\_id*)

**Syntax Description** `endpoint endpoint_type [ [ instancetype ep_local_interface_type ] [ loopbackEth loopbackEth ] [ loopbackPort loopbackPort ] [ nodes node_replicas_for_resiliency ] [ replicas replicas_per_node ] [ uri-scheme uri_scheme ] ]`

**certificate-name** *certificate\_alias\_name*

Specify the alias name for the certificate.

**endpoint** *endpoint\_type*

Specify the endpoint type.

**instancetype** *ep\_local\_interface\_type*

Specify the endpoint local interface type.

Must be one of the following:

- Dual
- IPv4
- IPv6

Default Value: IPv4.

**internal-vip** *internal\_vip*

Specify the internal VIP.

Must be a string.

**loopbackEth** *loopbackEth*

Specify the endpoint local interface name or host IP.

Must be a string.

**loopbackPort** *loopbackPort*

Specify the endpoint local port.

Must be an integer.

**max-fragment-size** *max\_fragment\_size*

Specify the Maximum SCTP fragment size for data packet.

Must be an integer.

Default Value: 0.

**nodes** *node\_replicas\_for\_resiliency*

Specify the number of node replicas for resiliency.

Must be an integer.

Default Value: 1.

**replicas** *replicas\_per\_node*

Specify the number of replicas per node.

Must be an integer.

Default Value: 1.

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**
- **https**

Default Value: http.

---

**Usage Guidelines** Use this command to configure endpoint parameters.

## instance instance-id endpoint ep interface

Configures the interface type.

---

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_name*)

---

**Syntax Description** **interface** *interface\_type*

**certificate-name** *certificate\_alias\_name*

Specify the alias name for certificate.

**instancetype *ep\_local\_interface\_type***

Specify the endpoint local interface type.

Must be one of the following:

- **Dual**
- **IPv4**
- **IPv6**

Default Value: IPv4.

**loopbackEth *loopback\_eth***

Specify the Loopback Eth pod interface.

Must be a string.

**loopbackPort *loopback\_port\_number***

Specify the loopback port number.

Must be an integer.

**uri-scheme *uri\_scheme***

Specify the URI scheme.

Must be one of the following:

- **http**
- **https**

Default Value: http.

***interface\_type***

Specify the interface type.

**Usage Guidelines**

Use this command to configure the interface type.

## instance instance-id endpoint ep interface dispatcher

Displays the dispatcher queue support details for the interface.

**Command Modes**

Exec > Global Configuration (config) > Instance ID Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description**

```
dispatcher { cache { false | true } | capacity queue_capacity | count
dispatcher_queues_count | expiry cache_entry_expiry_duration | nonresponsive
cache_entry_expiry_duration | outbound { false | true } | rate-limit
queue_rate_limit | threshold outstanding_requests_per_queue_cache }
```

**cache { false | true }**

Specify to enable or disable retransmission cache support. To disable, set to true.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**capacity *queue\_capacity***

Specify the capacity of each queue.

Must be an integer.

Default Value: 5000.

**count *dispatcher\_queues\_count***

Specify the count of dispatcher queues.

Must be an integer.

Default Value: 0.

**expiry *cache\_entry\_expiry\_duration***

Specify, in milliseconds, the responded cache entry expiry duration.

Must be an integer.

Default Value: 60000.

**nonresponsive *cache\_entry\_expiry\_duration***

Specify, in milliseconds, the non-responsive cache entry expiry duration.

Must be an integer.

Default Value: 30000.

**outbound { false | true }**

Specify to enable or disable queue support for outbound messages. To disable, set to true.

Must be one of the following:

- **false**
- **true**

Default Value: true.

**rate-limit *queue\_rate\_limit***

Specify the rate limit for each queue.

Must be an integer.

instance instance-id endpoint ep interface internal base-port

Default Value: 0.

**threshold *outstanding\_requests\_per\_queue\_cache***

Specify the outstanding requests per queue cache.

Must be an integer.

Default Value: 30000.

**Usage Guidelines** Use this command to view dispatcher queue support details for the interface.

## instance instance-id endpoint ep interface internal base-port

Configures the internal base-port to start endpoint parameter.

**Command Modes** Exec > Global Configuration (config) > Instance ID Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description** **internal base-port start** *base\_port\_to\_start\_ep*

**start *base\_port\_to\_start\_ep***

Specify the base port to start endpoint.

Must be an integer in the range of 1024-65535.

**Usage Guidelines** Use this command to configure the internal base-port to start endpoint parameter.

## instance instance-id endpoint ep interface sla

Configures SLA parameters.

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_name*) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description** **sla** { [ **response** *response\_time* ] [ **procedure** *procedure\_time* ] }

**procedure *procedure\_time***

Specify, in milliseconds, the procedure time.

Must be an integer in the range of 1000-120000.

**response *response\_time***

Specify, in milliseconds, the response time.

Must be an integer in the range of 1000-180000.

**Usage Guidelines** Use this command to configure SLA parameters.

## instance instance-id endpoint ep interface vip

Configures Virtual IP parameters.

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_name*) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description** **vip-ip** *vip\_ip\_address* [ [ **offline** ] [ **vip-interface** *interface\_name* ] [ **vip-port** *vip\_port\_number* ] ]

### **offline**

Specify to mark the vip-ip as offline.

### **vip-interface** *interface\_name*

Specify the interface name to advertise BGP router.

Must be a string.

### **vip-ip** *vip\_ip\_address*

Specify the host IP address.

Must be a string.

### **vip-port** *vip\_port\_number*

Specify the port number.

Must be an integer.

**Usage Guidelines** Use this command to configure Virtual IP parameters.

## instance instance-id endpoint ep interface vip6

Configures VIP IPv6 parameters.

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_name*) > Interface Configuration (config-interface-*interface\_name*)

**Syntax Description** **vip-ip6** *vip\_ip6* [ [ **offline** ] [ **vip-ipv6-port** *port\_number* ] ]

### **offline**

Specify the VIP IP as offline.

### **vip-ip6** *vip\_ip6*

Specify the host detail.

Must be a string.

**instance instance-id endpoint ep internal base-port**

**vip-ipv6-port *port\_number***

Specify the port number.

Must be an integer.

**Usage Guidelines** Use this command to configure VIP IPv6 parameters.

## instance instance-id endpoint ep internal base-port

Configures the internal base-port to start endpoint parameter.

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*)

**Syntax Description** **internal base-port start** *base\_port\_to\_start\_ep*

**start** *base\_port\_to\_start\_ep*

Specify the base port to start endpoint.

Must be an integer in the range of 1024-65535.

**Usage Guidelines** Use this command to configure the internal base-port to start endpoint parameter.

## instance instance-id endpoint ep internal-port

Configures internal port parameters.

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*)

**Syntax Description** **internal-port metrics** *metrics\_port* **admin** *admin\_port* **ipc** *ipc\_port* **pprof** *pprof\_port*  
**keepalived** *keepalived\_port*

**admin** *admin\_port*

Specify the admin port number for SCTP.

Must be an integer.

Default Value: 7879.

**ipc** *ipc\_port*

Specify the IPC port number for SCTP.

Must be an integer.

Default Value: 9005.



**keepalived *keepalived\_port***

Specify the keepalived port number for SCTP.

Must be an integer.

Default Value: 29000.

**metrics *metrics\_port***

Specify the metrics port number for SCTP.

Must be an integer.

Default Value: 7083.

**pprof *pprof\_port***

Specify the PPROF port number for SCTP.

Must be an integer.

Default Value: 7850.

---

**Usage Guidelines**

Use this command to configure internal port parameters.

## instance instance-id endpoint ep retransmission

Configures retransmission configuration parameters.

---

**Command Modes**

Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*)

---

**Syntax Description**

**retransmission timeout** *retransmission\_interval* **max-retry** *max\_retry*

**max-retry *max\_retry***

Specify the maximum number of times to request retry attempts. To disable retransmission, set to 0

Must be an integer in the range of 0-5.

Default Value: 3.

**timeout *retransmission\_interval***

Specify the retransmission interval in seconds. To disable retransmission, set to 0

Must be an integer in the range of 0-10.

Default Value: 2.

---

**Usage Guidelines**

Use this command to configure retransmission configuration parameters.

## instance instance-id endpoint ep system-health-level crash

Configures system health crash parameters.

### Command Modes

Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*)

### Syntax Description

```
system-health-level crash { [ cpu-percent cpu_percentage ] [ memory-in-mbs
memory ] [ num-of-goroutine goroutine_per_core ] }
```

#### **cpu-percent** *cpu\_percentage*

Specify the CPU percentage.

Must be an integer.

Default Value: 80.

#### **memory-in-mbs** *memory*

Specify the memory in MB.

Must be an integer.

Default Value: 2048.

#### **num-of-goroutine** *goroutine\_per\_core*

Specify the number of goroutine per core.

Must be an integer.

Default Value: 45000.

### Usage Guidelines

Use this command to configure system health crash parameters.

## instance instance-id endpoint ep system-health-level critical

Configures system health critical parameters.

### Command Modes

Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*)

### Syntax Description

```
system-health-level critical { [ cpu-percent cpu_percent ] [ memory-in-mbs
memory ] [ num-of-goroutine number_of_goroutine ] }
```

#### **cpu-percent** *cpu\_percentage*

Specify the CPU percentage.

Must be an integer.

Default Value: 60.

**memory-in-mbs *memory***

Specify the memory in MB.

Must be an integer.

Default Value: 1024.

**num-of-goroutine *number\_of\_goroutine***

Specify the number of goroutine per core.

Must be an integer.

Default Value: 35000.

---

**Usage Guidelines** Use this command to configure system health critical parameters.

## instance instance-id endpoint ep system-health-level warn

Configures system health warn parameters.

---

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*)

---

**Syntax Description** **system-health-level warn** { [ **cpu-percent** *cpu\_percentage* ] [ **memory-in-mbs** *memory* ] [ **num-of-goroutine** *number\_of\_goroutine* ] }

**cpu-percent *cpu\_percentage***

Specify the CPU percentage.

Must be an integer.

Default Value: 50.

**memory-in-mbs *memory***

Specify the memory in MBs.

Must be an integer.

Default Value: 512.

**num-of-goroutine *goroutine\_per\_core***

Specify the number of goroutine per core.

Must be an integer.

Default Value: 25000.

---

**Usage Guidelines** Use this command to configure system health warn parameters.

## instance instance-id endpoint ep vip

Configures VIP parameters.

### Command Modes

Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*)

### Syntax Description

**vip-ip** *vip\_ipv4\_address* [ [ **offline** ] [ **vip-interface** *vip\_interface\_name* ] [ **vip-port** *port\_number* ] ]

#### **offline**

Specify the VIP-IP as offline.

#### **vip-interface** *vip\_interface\_name*

Specify the interface name to advertise BGP router.

Must be a string.

#### **vip-ip** *vip\_ipv4\_address*

Specify the VIP IPv4 address.

Must be a string.

#### **vip-port** *port\_number*

Specify the port number.

Must be an integer.

### Usage Guidelines

Use this command to configure VIP parameters.

## instance instance-id endpoint ep vip6

Configures VIP IPv6 parameters.

### Command Modes

Exec > Global Configuration (config) > Instance ID Configuration (config-instance-id-*instance\_id*) > Endpoint Configuration (config-endpoint-*endpoint\_type*)

### Syntax Description

**vip-ipv6** *vip\_ipv6\_detail* [ [ **offline** ] [ **vip-ipv6-port** *vip\_ipv6\_port\_number* ] ]

#### **offline**

Specify the VIP-IP as offline.

#### **vip-ipv6-port** *vip\_ipv6\_port\_number*

Specify the port number.

Must be an integer.

***vip-ipv6 vip\_ipv6\_detail***

Specify the IPv6 detail.

Must be a string.

**Usage Guidelines** Use this command to configure VIP IPv6 parameters.

## instances instance

Configures instance configuration parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **instances instance** *instance\_id* [ [ **cluster-id** *cluster\_id* ] [ **system-id** *system\_id* ] [ **slice-name** *slice\_name* ] ]

***cluster-id cluster\_id***

Specify the instance cluster ID.

Must be a string.

***instance instance\_id***

Specify the instance ID.

Must be an integer in the range of 1-8.

***slice-name slice\_name***

Specify the CDL slice name associated with instance ID.

Must be a string.

***system-id system\_id***

Specify the instance system ID.

Must be a string.

**Usage Guidelines** Use this command to configure instance configuration parameters.

## job

Suspends the jobs that are running in the background.

**Command Modes** Exec

**Syntax Description** **job stop** *job\_id*

***job\_id***

Specify the job ID.

Must be an integer.

**Usage Guidelines** Use this command to suspend the jobs that are running in the background.

## k8 amf local etcd endpoint

Configures AMF local Etcd endpoint parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `amf local etcd endpoint host host_name port port_number`

***host host\_name***

Specify the host name.

Must be a string.

Default Value: etcd.

***port port\_number***

Specify the port number.

Must be an integer.

Default Value: 2379.

**Usage Guidelines** Use this command to configure AMF local Etcd endpoint parameters.

## k8 label pod-group-config

Configures K8 node affinity label pod group configuration.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `k8 label pod_group key label_key value label_value`

***key label\_key***

Specify the key for the label.

Must be a string.

***value label\_value***

Specify the value for the label.

Must be a string.

**pod\_group**

Specify the pod group for the VMs.

Must be one of the following:

- **cdl-layer**
- **oam-layer**
- **protocol-layer**
- **service-layer**

**Usage Guidelines** Use this command to configure K8 node affinity label pod group configuration.

## k8 label sctp-layer

Configures AMF sctp-layer parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **sctp-layer key** *label\_key* **value** *label\_value*

**key label\_key**

Specify the key for the label.

Must be a string.

**value label\_value**

Specify the value for the label.

Must be a string.

**Usage Guidelines** Use this command to configure sctp-layer parameters.

## k8s single-node

Enables AMF to be deployed in single node.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **k8s single-node { false | true }**

**single-node { false | true }**

Specify whether to enable or disable single-node deployment of AMF.

Must be one of the following:

- **false**

- **true**

Default Value: false.

If **k8s single-node true** is configured, AMF pods can be deployed in a single node.

Single node deployment involves some additional configurations. For more information, contact your Cisco account representative.




---

**Note** AMF does not support dynamic changes to this command.

---

**Usage Guidelines** Use this command to enable AMF to be deployed in single node.

## leaf-prompting

Enables or disables automatically querying for leaf values.

**Command Modes** Exec

**Syntax Description** `leaf-prompting { false | true }`

`{ false | true }`

Specify false to disable leaf prompting, true to enable.

Must be either "false" or "true".

**Usage Guidelines** Use this command to automatically query for leaf values.

## license smart register

Registers the VNF for Smart Licensing.

**Command Modes** Exec

**Syntax Description** `license smart register [ force | idtoken idtoken ]`

**register**

Register the VNF for Smart Licensing.

**force**

Force registration of the agent.

**idtoken**

Specify the ID token to register the agent with.



Must be an integer.

**Usage Guidelines** Use this command to register the VNF for Smart Licensing.

## license smart deregister

Deregisters the VNF for Smart Licensing.

**Command Modes** Exec

**Syntax Description** `license smart deregister`

### *deregister*

Deregisters the VNF for Smart Licensing.

**Usage Guidelines** Use this command to deregister the VNF for Smart Licensing.

## license smart renew

Renews smart agent IDs and authentication.

**Command Modes** Exec

**Syntax Description** `license smart renew { ID | auth }`

### **renew**

Renews the smart agent IDs and authentication.

### **ID**

Specify the ID to renew smart agent license registration information.

### **auth**

Specify to initiate a manual update of the license usage information with Cisco.

**Usage Guidelines** Use this command to renew the smart agent IDs and authentication.

## license smart status

Displays the smart licensing status information.

**Command Modes** Exec

**Syntax Description** `license smart status status-only { true | false }`

**status**

Displays the smart licensing information.

**status-only**

Displays only the status information.

Must be one of the following:

- false
- true

**Usage Guidelines** Use this command to view the smart licensing status information.

## local-instance

Configures GR instance for current instance.

**Command Modes** Exec > Global Configuration

**Syntax Description** `local-instance instance gr_instance_id`

**instance** *gr\_instance\_id*

Specify the GR instance ID of current instance.

**Usage Guidelines** Use this command to configure GR instance for current instance.

## logging async application enable

Enables and configures async logging.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `logging async application { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async monitor-subscriber { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async tracing { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async transaction { disable | enable buffer-size buffer_size }`

**buffer-size** *buffer\_size*

Specify the buffer size for async logging.

Must be an integer.

**Usage Guidelines** Use this command to enable and configure async logging.

## logging async monitor-subscriber enable

Enables and configures async logging.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `logging async application { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async monitor-subscriber { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async tracing { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async transaction { disable | enable buffer-size buffer_size }`

**buffer-size *buffer\_size***

Specify the buffer size for async logging.

Must be an integer.

**Usage Guidelines** Use this command to enable and configure async logging.

## logging async tracing enable

Enables and configures async logging.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `logging async application { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async monitor-subscriber { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async tracing { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async transaction { disable | enable buffer-size buffer_size }`

**buffer-size *buffer\_size***

Specify the buffer size for async logging.

Must be an integer.

**Usage Guidelines** Use this command to enable and configure async logging.

## logging async transaction enable

Enables and configures async logging.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `logging async application { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async monitor-subscriber { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async tracing { disable | enable buffer-size buffer_size }`

**Syntax Description** `logging async transaction { disable | enable buffer-size buffer_size }`

**buffer-size *buffer\_size***

Specify the buffer size for async logging.

Must be an integer.

**Usage Guidelines** Use this command to enable and configure async logging.

## logging error

Configures error logging parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `logging error stack status`

**stack *status***

Specify to enable or disable error stack.

Must be one of the following:

- **disable**
- **enable**

Default Value: enable.

**Usage Guidelines** Use this command to configure error logging parameters.

## logging level

Configures the logging level.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `logging level` *log\_level*

***application application\_log\_level***

Specify the application logging level.

Must be one of the following:

- **debug**
- **error**
- **info**
- **off**
- **trace**
- **warn**

***monitor-subscriber monitor\_subscriber\_log\_level***

Specify the monitor subscriber logging level.

Must be one of the following:

- **debug**
- **error**
- **info**
- **off**
- **trace**
- **warn**

***tracing tracing\_log\_level***

Specify the tracing logging level.

Must be one of the following:

- **debug**
- **error**
- **info**
- **off**
- **trace**
- **warn**

**transaction *transaction\_log\_level***

Specify the transaction logging level.

Must be one of the following:

- **debug**
- **error**
- **info**
- **off**
- **trace**
- **warn**

---

**Usage Guidelines** Use this command to configure the logging level.

## logging logger

Configures the log name.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **logging name** *log\_name*

**name** *log\_name*

Specify the log name in "module.component.interface" format.

Must be a string.

---

**Usage Guidelines** Use this command to configure the log name.

## logging logger level

Configures the logging level.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **logging level** *log\_type\_options*

**application** *application\_log\_level*

Specify the application logging level.

Must be one of the following:

- **debug**
- **error**

- info
- off
- trace
- warn

**monitor-subscriber *monitor\_subscriber\_log\_level***

Specify the monitor subscriber logging level.

Must be one of the following:

- debug
- error
- info
- off
- trace
- warn

**tracing *tracing\_log\_level***

Specify the tracing logging level.

Must be one of the following:

- debug
- error
- info
- off
- trace
- warn

**transaction *transaction\_log\_level***

Specify the transaction logging level.

Must be one of the following:

- debug
- error
- info
- off
- trace

- warn

**Usage Guidelines** Use this command to configure the logging level.

## logging transaction

Configures the logging transaction parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `logging transaction { [ duplicate { disable | enable } ] [ message { disable | enable } ] [ persist { disable | enable [ max-file-size max_file_size ] [ max-rotation max_rotations ] } ] }`

### **duplicate { enable | disable }**

Specify whether to enable or disable duplicate logs in transaction logging.

Must be one of the following:

- disable
- enable

Default Value: disable.

### **max-file-size max\_file\_size**

Specify the maximum transaction file size in MB.

Must be an integer in the range of 1-10000.

Default Value: 50.

### **max-rotation max\_rotations**

Specify the maximum number of file rotations.

Must be an integer in the range of 2-1000.

Default Value: 10.

### **message { enable | disable }**

Specify whether to enable or disable messages in transaction logging.

Must be one of the following:

- disable
- enable

Default Value: disable.



**persist { enable | disable }**

Specify whether to enable or disable file-based transaction logging.

Must be one of the following:

- **disable**
- **enable**

Default Value: disable.

**Usage Guidelines**

Use this command to configure the logging transaction parameters.

# logout

Logout a specific session or a specific user from all sessions.

**Command Modes**

Exec

**Syntax Description**

**logout** [ **session** *session\_id* | **user** *user\_name* ]

**session** *session\_id*

Specify the session ID from the possible completion options.

Must be a string.

**user** *user\_name*

Specify the user name or the user process from the possible completion options.

Must be a string.

**Usage Guidelines**

Use this command to log out a specific session or a specific user from all sessions.

# monitor protocol

Configures the AMF to monitor the protocol.

**Command Modes**

Exec

**Syntax Description**

**monitor protocol** [ **interface** *interface\_name* [ **capture-duration** *duration* | **gr-instance** *gr\_instance* | **pcap** ] ]

**interface** *interface\_name*

Specify the name of interface on which PCAP is captured.

Must be a string.

Must be one of the following:

- sbi
- pfcf
- gtpu
- gtpc
- gtp

**capture-duration *duration***

Specify the duration, in seconds, during which PCAP is captured.

Must be an integer.

Default Value: 300 seconds

**gr-instance *gr\_instance***

Specify the GR instance ID.

**pcap**

Enable PCAP file generation.

Must be "yes or "no".

Default Value: no

**Usage Guidelines** Use this command to monitor the protocol.

## monitor subscriber

Configures the AMF to monitor the subscribers.

**Command Modes** Exec

**Syntax Description** `monitor subscriber [ capture-duration duration | dump filename file_name | supi supi | gr-instance gr_instance | imei subscriber_imei | imsi subscriber_imsi | internal-messages [ yes ] | list | namespace [ sgw | smf ] | [ capture-duration duration | gr-instance gr_instance | internal-messages [ yes ] | nf-service [ sgw | smf ] | transaction-logs [ yes ] ] | nf-service [ sgw | smf ] | supi supi | transaction-logs [ yes ] ]`

**supi *supi***

Specify the subscriber identifier.

Must be a string.

**capture-duration *duration***

Specify the duration, in seconds, during which PCAP is captured.

Must be an integer.

Default Value: 300 seconds

#### **internal-messages**

Set to yes to enable internal messages.

Default Value: disabled

#### **transaction-logs**

Set to yes to enable transaction logging.

Default Value: disabled

#### **dump filename *file\_name***

Specify the path of the file name to be dumped.

Must be a string.

#### **list**

List the monitored subscriber files.

---

#### **Usage Guidelines**

Use this command to monitor the subscribers.

## **no**

Restores the command history cache size to its default setting. See the *history* command.

---

#### **Command Modes**

Exec

---

#### **Syntax Description**

**no history**

---

#### **Usage Guidelines**

Use this command to configure the command history cache size to its default setting. For more details, see the *history* command.

## **nrf discovery-info discovery-filter**

Displays NF discovery filter information.

---

#### **Command Modes**

Exec > Global Configuration

---

#### **Syntax Description**

**show discovery-filter**

---

#### **Usage Guidelines**

Use this command to view NF discovery filter information.

## nrf discovery-info discovery-filter nf-discovery-profile

Displays discovery profile information.

**Command Modes** Exec > Global Configuration

**Syntax Description** `show nf-discovery-profile`

**Usage Guidelines** Use this command to view NF discovery profile information.

## nrf discovery-info discovery-filter nf-discovery-profile nf-service

Displays NF service information.

**Command Modes** Exec > Global Configuration

**Syntax Description** `show nf-service`

**Usage Guidelines** Use this command to view NF service information.

## nrf registration-info

Displays NRF registration information.

**Command Modes** Exec

**Syntax Description** `show nrf [ registration-info [ gr-instance gr_instance ] ]`

**gr-instance *gr\_instance***

Specify the GR instance ID.

Must be a string.

**Usage Guidelines** Use this command to view registration information.

## nrf subscription-info

Displays NF subscription information.

**Command Modes** Exec > Global Configuration

**Syntax Description** `show nrf subscription-info`

**Usage Guidelines** Use this command to view NF subscription information.

# paginate

Configures whether or not to paginate CLI command output.

---

**Command Modes** Exec

---

**Syntax Description** `paginate { true | false }`  
  
`{ true | false }`

Specify false to disable paginating CLI command output, and true to enable.  
Must be either "false" or "true".

---

**Usage Guidelines** Use this command to paginate the command output.

# patch amf-ngap-ep

Configures patch amf-ngap-ep parameter.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `patch amf-ngap-ep patch-url patch_url`  
  
`patch-url patch_url`

Specify the patch URL.  
Must be a string.

---

**Usage Guidelines** Use this command to configure patch amf-ngap-ep parameter.

# patch amf-rest-ep

Configures patch AMF REST endpoint.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `patch amf-rest-ep patch-url patch_url`  
  
`patch-url patch_url`

Specify the patch URL.  
Must be a string.

---

**Usage Guidelines** Use this command to configure patch AMF REST endpoint.

## patch amf-sctp-lb

Configures patch amf-sctp-lb parameter.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **patch amf-sctp-lb patch-url** *patch\_url*

**patch-url** *patch\_url*

Specify the patch URL.

Must be a string.

---

**Usage Guidelines** Use this command to configure patch amf-sctp-lb parameter.

## patch amf-service

Configures patch AMF service.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **patch amf-service patch-url** *patch\_url*

**patch-url** *patch\_url*

Specify the patch URL.

Must be a string.

---

**Usage Guidelines** Use this command to configure patch AMF service.

## peers

Displays peer information.

---

**Command Modes** Exec

---

**Syntax Description** **show peers**

---

**Usage Guidelines** Use this command to view peer information.

## peers all

Displays information for all peers.

---

**Command Modes** Exec

---

**Syntax Description**    `show peers [ all ]`

---

**Usage Guidelines**    Use this command to view peer configuration information.

## profile emergency-profile emergency

Configures emergency profile parameters.

---

**Command Modes**    Exec > Global Configuration (config)

---

**Syntax Description**    `profile emergency-profile profile_name [ [ dnn dnn_name ] [ ue-validation-level ue_validation_level ] ]`

**dnn dnn\_name**

Specify name of the DNN.

Must be a string.

**emergency-profile profile\_name**

Specify name of the profile.

Must be a string.

**ue-validation-level ue\_validation\_level**

Specify the UE validation level.

Must be one of the following:

- **auth-only**: Specify to allow only authenticated UEs. Subscription is bypassed.
- **full**: Specify to allow only authenticated UEs with subscription and location validated. Allow only UEs with Normal Registration.
- **none**: Specify to allow any UE. UE without SUPI will attach using IMEI/PEI. Authentication is optional.
- **supi-only**: Specify to allow only UEs with SUPI. UE without SUPI will be rejected. Authentication is optional.

---

**Usage Guidelines**    Use this command to configure emergency profile parameters. The CLI prompt changes to the Emergency Profile Configuration mode (config-emergency-profile-<profile\_name>).

## profile emergency-profile emergency extended-emergency-num

Configures the extended emergency number parameters.

---

**Command Modes**    Exec > Global Configuration (config) > Emergency Profile Configuration (config-emergency-profile-profile\_name)

**Syntax Description** **extended-emergency-num** *extended\_emergency\_number* **sub-service**  
*emergency\_number\_sub\_service\_type*

**extended-emergency-num** *extended\_emergency\_number*

Specify the extended emergency number.

Must be a string of 1-10 characters.

**sub-service** *emergency\_number\_sub\_service\_type*

Specify the emergency number sub-service type.

Must be a string.

**Usage Guidelines** Use this command to configure extended emergency number parameters.  
You can configure a maximum of 10 elements with this command.

## profile emergency-profile emergency local-emergency-num

Configures local emergency number parameters.

**Command Modes** Exec > Global Configuration (config) > Emergency Profile Configuration  
(config-emergency-profile-*profile\_name*)

**Syntax Description** **local-emergency-num** *emergency\_number* *emergency\_number\_service\_type*

**emergency\_number**

Specify the emergency number.

Must be a string of 1-10 characters.

**emergency\_number\_service\_type**

Specify the emergency number service type.

Must be one of the following:

- ambulance
- fire
- marine-guard
- mountain-rescue
- police

**Usage Guidelines** Use this command to configure local emergency number parameters.  
You can configure a maximum of 10 elements with this command.



# profile emergency-profile emergency slice

Configures slice for subscriber parameters.

## Command Modes

Exec > Global Configuration (config) > Emergency Profile Configuration  
(config-emergency-profile-*profile\_name*)

## Syntax Description

**slice name** *slice\_name* [ **sst** *slice\_service\_type* **sdt** *slice\_differentiator\_type* ]

### **name** *slice\_name*

Specify name of the slice.

Must be a string.

### **sdt** *slice\_differentiator\_type*

Specify the Slice Differentiator Type (SDT).

Must be a string in the octet-string24 pattern. For information on the octet-string24 pattern, see the Input Pattern Types section.

### **sst** *slice\_service\_type*

Specify the Slice Service Type (SST).

Must be an integer in the range of 0-255.

## Usage Guidelines

Use this command to configure slice for subscriber parameters.

# profile network-element amf

Configures the peer AMF network element configuration parameters.

## Command Modes

Exec > Global Configuration (config)

## Syntax Description

**profile network-element amf** *peer\_amf\_config\_name* [ [ **nf-client-profile** *nf\_client\_profile\_name* ] [ **failure-handling-profile** *failure\_handling\_profile\_name* ] ]

### **failure-handling-profile** *failure\_handling\_profile\_name*

Specify name of the failure handling profile.

Must be a string.

### **nf-client-profile** *nf\_client\_profile\_name*

Specify name of the NF client profile.

Must be a string.

***peer\_amf\_config\_name***

Specify name of the AMF peer configuration.

Must be a string.

**Usage Guidelines**

Use this command to configure the peer AMF network element configuration parameters. The CLI prompt changes to the AMF NE Configuration mode (config-amf-<amf\_name>).

## profile network-element amf query-params

Configures query parameters for AMF discovery.

**Command Modes**

Exec > Global Configuration (config) > AMF NE Configuration mode (config-amf-*amf\_name*)

**Syntax Description**

**query-params** *amf\_query\_params*

**query-params** *amf\_query\_params*

Specify the AMF query parameters.

Must be one of the following:

- **dnn**
- **guami**
- **requester-plmn**
- **snsais**
- **supi**
- **tai**
- **target-plmn**

**Usage Guidelines**

Use this command to configure query parameters for AMF discovery.

## profile network-element ausf

Configures peer AUSF parameters.

**Command Modes**

Exec > Global Configuration (config)

**Syntax Description**

**profile network-element ausf** *peer\_ausf\_config\_name* **nf-client-profile** *nf\_client\_profile\_name* **failure-handling-profile** *fh\_profile\_name*

**failure-handling-profile** *fh\_profile\_name*

Specify name of the failure handling profile.

Must be a string.

**nf-client-profile *nf\_client\_profile\_name***

Specify name of the NF client profile.

Must be a string.

**peer\_ausf\_config\_name**

Specify name of the peer AUSF configuration.

Must be a string.

**Usage Guidelines** Use this command to configure peer AUSF parameters.

## profile network-element ausf query-params

Configures query parameter for AUSF discovery.

**Command Modes** Exec > Global Configuration (config) > AUSF Peer Configuration (config-amf-*peer\_ausf\_config\_name*)

**Syntax Description** **query-params** *amf\_ausf\_query\_params*

**query-params *amf\_ausf\_query\_params***

Specify the AMF AUSF query parameters.

Must be one of the following:

- requester-plmn
- routing-indicator
- supi
- target-plmn

**Usage Guidelines** Use this command to configure query parameter for AUSF discovery.

## profile network-element nssf

Configures peer NSSF parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **profile network-element nssf** *peer\_nssf\_config\_name* **nf-client-profile** *nf\_client\_profile\_name* **failure-handling-profile** *fh\_profile\_name*

**failure-handling-profile *fh\_profile\_name***

Specify name of the failure handling profile.

Must be a string.

**nf-client-profile** *nf\_client\_profile\_name*

Specify name of the NF client profile.

Must be a string.

**peer\_nssf\_config\_name**

Specify name of the NSSF peer configuration.

Must be a string.

**Usage Guidelines** Use this command to configure peer NSSF parameters.

## profile network-element nssf query-params

Configures query parameters for NSSF discovery.

**Command Modes** Exec > Global Configuration (config) > NSSF Peer Configuration (config-nssf-peer\_nssf\_config\_name)

**Syntax Description** **query-params** *query\_parameters*

**query-params** *query\_parameters*

Specify NRF query parameters.

Must be one of the following:

- **dnn**
- **requester-plmn**
- **snsais**
- **supi**
- **tai**
- **target-plmn**

**Usage Guidelines** Use this command to configure query parameters for NSSF discovery.

## profile network-element pcf

Configures peer PCF parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **profile network-element pcf** *peer\_pcf\_config\_name* **nf-client-profile** *nf\_client\_profile\_name* **failure-handling-profile** *failure\_handling\_profile\_name*

**failure-handling-profile** *failure\_handling\_profile\_name*

Specify name of the failure handling profile.

Must be a string.

**nf-client-profile** *nf\_client\_profile\_name*

Specify name of the NF client profile.

Must be a string.

**peer\_pcf\_config\_name**

Specify name of the PCF peer configuration.

Must be a string.

**Usage Guidelines**

Use this command to configure the peer PCF parameters.

## profile network-element pcf query-params

Configures query parameters for PCF discovery.

**Command Modes**

Exec > Global Configuration (config) > PCF Peer Configuration (config-*pcf-peer\_pcf\_config\_name*)

**Syntax Description**

**query-params** *query\_parameters*

**query-params** *query\_parameters*

Specify NRF query parameters.

Must be one of the following:

- **dnn**
- **requester-plmn**
- **snssais**
- **supi**
- **tai**
- **target-plmn**

**Usage Guidelines**

Use this command to configure query parameters for PCF discovery.

## profile network-element smf

Configures SMF peer parameters.

**Command Modes**

Exec > Global Configuration (config)

**Syntax Description** `profile network-element smf peer_smf_config_name nf-client-profile nf_client_profile_name failure-handling-profile fh_profile_name`

**failure-handling-profile *fh\_profile\_name***

Specify name of the failure handling profile.

Must be a string.

**nf-client-profile *nf\_client\_profile\_name***

Specify name of the NF client profile.

Must be a string.

***peer\_smf\_config\_name***

Specify name of the SMF peer configuration.

Must be a string.

**Usage Guidelines** Use this command to configure SMF peer parameters.

## profile network-element smf query-params

Configures query parameter for SMF discovery.

**Command Modes** Exec > Global Configuration (config) > SMF Peer Configuration (config-smf-peer\_ *smf\_config\_name*)

**Syntax Description** `query-params query_parameters`

**query-params *smf\_query\_params***

Specify the SMF query parameters.

Must be one of the following:

- dnn
- pgwfqdn
- pgwind
- requester-plmn
- snssais
- supi
- tai
- target-plmn

**Usage Guidelines** Use this command to configure query parameter for SMF discovery.

## profile network-element udm

Configures peer UDM parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **profile network-element udm** *peer\_udm\_config\_name* **nf-client-profile** *nf\_client\_profile\_name* **failure-handling-profile** *fh\_profile\_name*

**failure-handling-profile** *fh\_profile\_name*

Specify name of the failure handling profile.

Must be a string.

**nf-client-profile** *nf\_client\_profile\_name*

Specify name of the NF client profile.

Must be a string.

**peer\_udm\_config\_name**

Specify name of the UDM peer configuration.

Must be a string.

**Usage Guidelines** Use this command to configure peer UDM parameters.

## profile network-element udm query-params

Configures query parameters for UDM discovery.

**Command Modes** Exec > Global Configuration (config) > UDM Peer Configuration (config-udm-peer\_udm\_config\_name)

**Syntax Description** **query-params** *query\_parameters*

**query-params** *amf\_udm\_query\_params*

Specify the AMF UDM query parameters.

Must be one of the following:

- **requester-plmn**
- **routing-indicator**
- **supi**
- **target-plmn**

**Usage Guidelines** Use this command to configure query parameters for UDM discovery.

## profile nf-client nf-type amf amf-profile

Configures AMF profile parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **profile nf-client nf-type amf amf-profile** *profile\_name*

**amf-profile** *profile\_name*

Specify the AMF profile name

Must be a string.

**Usage Guidelines** Use this command to configure AMF profile parameters. The CLI prompt changes to the AMF Profile Configuration mode (config-amf-profile-<profile\_name>).

## profile nf-client nf-type amf amf-profile locality

Configures the AMF profile locality parameter.

**Command Modes** Exec > Global Configuration (config) > AMF Profile Configuration (config-amf-profile-*profile\_name*)

**Syntax Description** **locality** *locality\_name* [ **priority** *locality\_priority* ]

**locality** *locality\_name*

Specify name of the locality.

Must be a string.

**priority** *locality\_priority*

Specify priority of the locality configuration.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the AMF profile locality parameter.

## profile nf-client nf-type amf amf-profile locality service name type

Configures the AMF service name type parameter.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

**Syntax Description** **service name type** *amf\_service\_name\_type* **responsetimeout** *response\_timeout*



**responsetimeout *response\_timeout***

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type *amf\_service\_name\_type***

Specify the service name type.

Must be one of the following:

- **namf-comm**
- **namf-evts**
- **namf-loc**
- **namf-mt**

**Usage Guidelines**

Use this command to configure the AMF service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<service\_name\_type>).

## profile nf-client nf-type amf amf-profile locality service name type endpoint-profile

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Syntax Description</b>	<p><b>endpoint-profile</b> <i>endpoint_profile_name</i> { <b>capacity</b> <i>capacity_value</i>   <b>priority</b> <i>profile_priority</i>   <b>api-uri-prefix</b> <i>api_uri_prefix</i>   <b>api-root</b> <i>api_root</i>   <b>uri-scheme</b> <i>uri_scheme</i> }</p> <p><b>api-root</b> <i>api_root</i> Specify the API root. Must be a string.</p> <p><b>api-uri-prefix</b> <i>api_uri_prefix</i> Specify the API URI prefix. Must be a string.</p> <p><b>capacity</b> <i>capacity_value</i> Specify the profile capacity. Must be an integer in the range of 0-65535. Default Value: 10.</p> <p><b>endpoint-profile</b> <i>endpoint_profile_name</i> Specify name of the endpoint profile. Must be a string.</p> <p><b>priority</b> <i>profile_priority</i> Specify the priority of the profile. Must be an integer in the range of 0-65535. Default Value: 1.</p>

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

**Usage Guidelines**

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (config-endpoint-profile-<profile\_name>).

## profile nf-client nf-type amf amf-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<p><b>endpoint-name</b> <i>endpoint_name</i> [ <b>priority</b> <i>node_priority</i>   <b>capacity</b> <i>node_capacity</i> ]</p> <p><b>capacity</b> <i>node_capacity</i></p> <p>Specify the node capacity for the endpoint. Must be an integer in the range of 0-65535.</p> <p><b>endpoint-name</b> <i>endpoint_name</i></p> <p>Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address. Must be a string.</p> <p><b>priority</b> <i>node_priority</i></p> <p>Specify the node priority for the endpoint. Must be an integer in the range of 0-65535.</p>
<b>Usage Guidelines</b>	Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-< <i>endpoint_name</i> >).

## profile nf-client nf-type amf amf-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) >
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Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

**default-notification-subscriptions** name [ **callback-uri** callback\_uri | **n1-message-class** n1\_message\_class | **n2-information-class** n2\_information\_class | **notification-type** notification\_type ]

**callback-uri** callback\_uri

Specify the callback URI.

Must be a string.

**profile nf-client nf-type amf amf-profile locality service name type endpoint-profile endpoint-name primary ip-address**

**n1-message-class *n1\_message\_class***

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class *n2\_information\_class***

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type *notification\_type***

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION
- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

***name***

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (`config-default-notification-subscriptions-<name>`)

## **profile nf-client nf-type amf amf-profile locality service name type endpoint-profile endpoint-name primary ip-address**

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (`config`) > AMF NF-Client Configuration (`config-amf`) > AMF Profile Configuration (`config-amf-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`) > Endpoint Name Configuration (`config-endpoint-name-endpoint_name`)

<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Syntax Description</b>	<p>{ <b>primary</b>   <b>secondary</b>   <b>tertiary</b> } ip-address { [ <b>ipv4</b> ipv4_address   <b>ipv6</b> ipv6_address ] [ <b>port</b> port_number ] }</p> <p><b>ipv4 ipv4_address</b></p> <p>Specify the IPv4 address.</p> <p>Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p>

**profile nf-client nf-type amf amf-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## **profile nf-client nf-type amf amf-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)



**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 *ipv4\_address***

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type amf amf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**profile nf-client nf-type amf amf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Syntax Description</b>	<p><b>{ primary   secondary   tertiary } ip-address { [ ipv4 ipv4_address   ipv6 ipv6_address ] [ port port_number ] }</b></p> <p><b>ipv4 ipv4_address</b> Specify the IPv4 address.</p> <p>Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p>

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type amf amf-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )

<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<p><b>version</b> <b>uri-version</b> { <i>uri_version</i>   <b>full-version</b> <i>full_version</i> }</p> <p><b>full-version</b> <i>full_version</i></p> <p>Specify the full version in the format <i>major-version.minor-version.patch-version.[alpha-draft-number]</i> Must be a string.</p> <p><b>uri-version</b> <i>uri_version</i></p> <p>Specify the URI version. Must be a string in the pattern v\d.</p>
<b>Usage Guidelines</b>	Use this command to configure the URI version parameter.

## profile nf-client nf-type ausf ausf-profile

Configures AUSF profile parameters.

<b>Command Modes</b>	Exec > Global Configuration (config)
<b>Syntax Description</b>	<p><b>profile nf-client nf-type ausf ausf-profile</b> <i>profile_name</i></p> <p><b>ausf-profile</b> <i>profile_name</i></p> <p>Specify name of the AUSF profile. Must be a string.</p>
<b>Usage Guidelines</b>	Use this command to configure AUSF profile parameters. The CLI prompt changes to the AUSF Profile Configuration mode (config-ausf-profile-< <i>profile_name</i> >).

## profile nf-client nf-type ausf ausf-profile locality

Configures the AUSF profile locality parameter.

<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<b>locality</b> <i>locality_name</i> [ <b>priority</b> <i>locality_priority</i> ]

**locality** *locality\_name*

Specify name of the locality.

Must be a string.

**priority** *locality\_priority*

Specify priority of the locality configuration.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the AUSF profile locality parameter.

## profile nf-client nf-type ausf ausf-profile locality service name type

Configures the AUSF service name type parameter.

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

**Syntax Description** **service name type** *ausf\_service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type** *ausf\_service\_name\_type*

Specify the AUSF service name type.

Must be one of the following:

- **nausf-auth**

**Usage Guidelines** Use this command to configure the AUSF service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<service\_name\_type>).

## profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Syntax Description</b>	<p><b>endpoint-profile</b> <i>endpoint_profile_name</i> { <b>capacity</b> <i>capacity_value</i>   <b>priority</b> <i>profile_priority</i>   <b>api-uri-prefix</b> <i>api_uri_prefix</i>   <b>api-root</b> <i>api_root</i>   <b>uri-scheme</b> <i>uri_scheme</i> }</p> <p><b>api-root</b> <i>api_root</i></p> <p>Specify the API root.</p> <p>Must be a string.</p> <p><b>api-uri-prefix</b> <i>api_uri_prefix</i></p> <p>Specify the API URI prefix.</p> <p>Must be a string.</p>

**capacity** *capacity\_value*

Specify the profile capacity.

Must be an integer in the range of 0-65535.

Default Value: 10.

**endpoint-profile** *endpoint\_profile\_name*

Specify name of the endpoint profile.

Must be a string.

**priority** *profile\_priority*

Specify the priority of the profile.

Must be an integer in the range of 0-65535.

Default Value: 1.

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

**Usage Guidelines**

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (config-endpoint-profile-<profile\_name>).

## profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name

**profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile endpoint-name**

Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Syntax Description** **endpoint-name** *endpoint\_name* [ **priority** *node\_priority* | **capacity** *node\_capacity* ]

**capacity** *node\_capacity*

Specify the node capacity for the endpoint.

Must be an integer in the range of 0-65535.

**endpoint-name** *endpoint\_name*

Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address.

Must be a string.

**priority** *node\_priority*

Specify the node priority for the endpoint.



Must be an integer in the range of 0-65535.

### Usage Guidelines

Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-<endpoint\_name>).

## profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

### Command Modes

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

### Command Modes

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

### Command Modes

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

### Command Modes

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

### Command Modes

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

### Command Modes

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

### Command Modes

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description** **default-notification-subscriptions** *name* [ **callback-uri** *callback\_uri* | **n1-message-class** *n1\_message\_class* | **n2-information-class** *n2\_information\_class* | **notification-type** *notification\_type* ]

**callback-uri** *callback\_uri*

Specify the callback URI.

Must be a string.

**n1-message-class** *n1\_message\_class*

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class** *n2\_information\_class*

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type** *notification\_type*

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION
- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

**name**

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (config-default-notification-subscriptions-*<name>*)

# profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Syntax Description</b>	<pre>{ <b>primary</b>   <b>secondary</b>   <b>tertiary</b> } <b>ip-address</b> { [ <b>ipv4</b> <i>ipv4_address</i>   <b>ipv6</b> <i>ipv6_address</i> ] [ <b>port</b> <i>port_number</i> ] }</pre> <p><b>ipv4 <i>ipv4_address</i></b> Specify the IPv4 address. Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p> <p><b>ipv6 <i>ipv6_address</i></b> Specify the IPv6 address. Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.</p> <p><b>port <i>port_number</i></b> Specify the port number. Must be an integer in the range of 0-65535.</p>

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description** { primary | secondary | tertiary } ip-address { [ ipv4 ipv4\_address | ipv6 ipv6\_address ] [ port port\_number ] }

#### **ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

#### **ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

#### **port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

**profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## **profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 *ipv4\_address***

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type ausf ausf-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<pre><b>version uri-version</b> { <i>uri_version</i>   <b>full-version</b> <i>full_version</i> }</pre> <p><b>full-version</b> <i>full_version</i></p> <p>Specify the full version in the format <i>major-version.minor-version.patch-version.[alpha-draft-number]</i></p> <p>Must be a string.</p> <p><b>uri-version</b> <i>uri_version</i></p> <p>Specify the URI version.</p> <p>Must be a string in the pattern v\d.</p>
<b>Usage Guidelines</b>	Use this command to configure the URI version parameter.

## profile nf-client nf-type chf chf-profile

Configures the CHF profile parameters.

<b>Command Modes</b>	Exec > Global Configuration (config)
<b>Syntax Description</b>	<pre><b>profile nf-client nf-type chf chf-profile</b> <i>profile_name</i></pre> <p><b>chf-profile</b> <i>profile_name</i></p> <p>Specify name of the CHF profile.</p> <p>Must be a string.</p>
<b>Usage Guidelines</b>	Use this command to configure the CHF profile parameters. The CLI prompt changes to the CHF Profile Configuration mode (config-chf-profile-<profile_name>).



## profile nf-client nf-type chf chf-profile locality

Configures the CHF profile locality parameter.

**Command Modes** Exec > Global Configuration (config) > CHF Profile Configuration (config-chf-profile-*profile\_name*)

**Syntax Description** **locality** *locality\_name* [ **priority** *locality\_priority* ]

**locality** *locality\_name*

Specify name of the locality.

Must be a string.

**priority** *locality\_priority*

Specify priority of the locality configuration.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the CHF profile locality parameter.

## profile nf-client nf-type chf chf-profile locality service name type

Configures the CHF service name type parameter.

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

**Syntax Description** **service name type** *service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type** *service\_name\_type*

Specify the CHF service name type.

Must be one of the following:

- **nchf-convergedcharging**
- **nchf-spendinglimitcontrol**

```
profile nf-client nf-type chf chf-profile locality service name type endpoint-profile
```

**Usage Guidelines** Use this command to configure the CHF service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<service\_name\_type>).

## profile nf-client nf-type chf chf-profile locality service name type endpoint-profile

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** **endpoint-profile** *endpoint\_profile\_name* { **capacity** *capacity\_value* | **priority** *profile\_priority* | **api-uri-prefix** *api\_uri\_prefix* | **api-root** *api\_root* | **uri-scheme** *uri\_scheme* }

**api-root** *api\_root*

Specify the API root.

Must be a string.

**api-uri-prefix** *api\_uri\_prefix*

Specify the API URI prefix.

Must be a string.

**capacity** *capacity\_value*

Specify the profile capacity.

Must be an integer in the range of 0-65535.

Default Value: 10.

**endpoint-profile** *endpoint\_profile\_name*

Specify name of the endpoint profile.

Must be a string.

**priority** *profile\_priority*

Specify the priority of the profile.

Must be an integer in the range of 0-65535.

Default Value: 1.

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

**Usage Guidelines**

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (config-endpoint-profile-<profile\_name>).

## profile nf-client nf-type chf chf-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) >

**profile nf-client nf-type chf chf-profile locality service name type endpoint-profile endpoint-name**

Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Command Modes

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Command Modes

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Command Modes

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Command Modes

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Command Modes

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Command Modes

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Command Modes

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Command Modes

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

#### Syntax Description

**endpoint-name** *endpoint\_name* [ **priority** *node\_priority* | **capacity** *node\_capacity* ]

#### **capacity** *node\_capacity*

Specify the node capacity for the endpoint.

Must be an integer in the range of 0-65535.

**endpoint-name** *endpoint\_name*

Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address.

Must be a string.

**priority** *node\_priority*

Specify the node priority for the endpoint.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-<endpoint\_name>).

## profile nf-client nf-type chf chf-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description** **default-notification-subscriptions** *name* [ **callback-uri** *callback\_uri* | **n1-message-class** *n1\_message\_class* | **n2-information-class** *n2\_information\_class* | **notification-type** *notification\_type* ]

**callback-uri** *callback\_uri*

Specify the callback URI.

Must be a string.

**n1-message-class** *n1\_message\_class*

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class** *n2\_information\_class*

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type** *notification\_type*

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION

- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

**name**

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (config-default-notification-subscriptions-*<name>*)

## profile nf-client nf-type chf chf-profile locality service name type endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**profile nf-client nf-type chf chf-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description** { **primary** | **secondary** | **tertiary** } **ip-address** { [ **ipv4** *ipv4\_address* | **ipv6** *ipv6\_address* ] [ **port** *port\_number* ] }

**ipv4 *ipv4\_address***

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## **profile nf-client nf-type chf chf-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)



<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Syntax Description</b>	<p>{ <b>primary</b>   <b>secondary</b>   <b>tertiary</b> } ip-address { [ <b>ipv4</b> ipv4_address   <b>ipv6</b> ipv6_address ] [ <b>port</b> port_number ] }</p> <p><b>ipv4 ipv4_address</b></p> <p>Specify the IPv4 address.</p> <p>Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p>

**profile nf-client nf-type chf chf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

### **ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

### **port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

#### **Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## **profile nf-client nf-type chf chf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

#### **Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 *ipv4\_address***

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type chf chf-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<pre><b>version</b> <b>uri-version</b> { <i>uri_version</i>   <b>full-version</b> <i>full_version</i> }</pre> <p><b>full-version</b> <i>full_version</i></p> <p>Specify the full version in the format <i>major-version.minor-version.patch-version.[alpha-draft-number]</i></p> <p>Must be a string.</p> <p><b>uri-version</b> <i>uri_version</i></p> <p>Specify the URI version.</p> <p>Must be a string in the pattern v\d.</p>
<b>Usage Guidelines</b>	Use this command to configure the URI version parameter.

## profile nf-client nf-type eir eir-profile

Configures EIR profile parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **profile nf-client nf-type eir eir-profile** *eir\_profile\_name*

**eir-profile** *eir\_profile\_name*

Specify name of the EIR profile.

Must be a string.

---

**Usage Guidelines** Use this command to configure the EIR profile parameters. The CLI prompt changes to the EIR Profile Configuration mode (config-eir-profile-<profile\_name>).

## profile nf-client nf-type eir eir-profile locality

Configures the EIR profile locality parameter.

---

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*)

---

**Syntax Description** **locality** *locality\_name* [ **priority** *priority* ]

**locality** *locality\_name*

Specify name of the locality.

Must be a string.

**priority** *priority*

Specify the priority of the locality configuration.

Must be an integer in the range of 0-65535.

---

**Usage Guidelines** Use this command to configure the EIR profile locality parameter.

## profile nf-client nf-type eir eir-profile locality service name type

Configures the EIR service name type parameter.

---

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

---

**Syntax Description** **service name type** *service\_name\_type* [ **responsetimeout** *response\_timeout\_interval* ]

**responsetimeout** *response\_timeout\_interval*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type service\_name\_type**

Specify the EIR service name type.

Must be one of the following:

- n5g-eir-eic

**Usage Guidelines**

Use this command to configure the EIR service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<service\_name\_type>).

## profile nf-client nf-type eir eir-profile locality service name type endpoint-profile

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** **endpoint-profile** *endpoint\_profile\_name* { **capacity** *capacity\_value* | **priority** *profile\_priority* | **api-uri-prefix** *api\_uri\_prefix* | **api-root** *api\_root* | **uri-scheme** *uri\_scheme* }

**api-root** *api\_root*

Specify the API root.

Must be a string.

**api-uri-prefix** *api\_uri\_prefix*

Specify the API URI prefix.

Must be a string.

**capacity** *capacity\_value*

Specify the profile capacity.

Must be an integer in the range of 0-65535.

Default Value: 10.

**endpoint-profile** *endpoint\_profile\_name*

Specify name of the endpoint profile.

Must be a string.

**priority** *profile\_priority*

Specify the priority of the profile.

Must be an integer in the range of 0-65535.

Default Value: 1.

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

**Usage Guidelines**

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (config-endpoint-profile-<profile\_name>).

## profile nf-client nf-type eir eir-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)



**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Syntax Description** **endpoint-name** *endpoint\_name* [ **priority** *node\_priority* | **capacity** *node\_capacity* ]

**capacity** *node\_capacity*

Specify the node capacity for the endpoint.

Must be an integer in the range of 0-65535.

**endpoint-name** *endpoint\_name*

Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address.

Must be a string.

**priority** *node\_priority*

Specify the node priority for the endpoint.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-*<endpoint\_name>*).

## profile nf-client nf-type eir eir-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name

Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration  
(config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

**default-notification-subscriptions** name [ **callback-uri** callback\_uri | **n1-message-class** n1\_message\_class | **n2-information-class** n2\_information\_class | **notification-type** notification\_type ]

**callback-uri** callback\_uri

Specify the callback URI.

Must be a string.

**n1-message-class** n1\_message\_class

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class** *n2\_information\_class*

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type** *notification\_type*

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION
- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

**name**

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (config-default-notification-subscriptions-<name>)

## profile nf-client nf-type eir eir-profile locality service name type endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**profile nf-client nf-type eir eir-profile locality service name type endpoint-profile endpoint-name primary ip-address**

<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Syntax Description</b>	<p><b>{ primary   secondary   tertiary } ip-address { [ ipv4 <i>ipv4_address</i>   ipv6 <i>ipv6_address</i> ] [ port <i>port_number</i> ] }</b></p> <p><b>ipv4 <i>ipv4_address</i></b> Specify the IPv4 address. Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p> <p><b>ipv6 <i>ipv6_address</i></b> Specify the IPv6 address. Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.</p> <p><b>port <i>port_number</i></b> Specify the port number. Must be an integer in the range of 0-65535.</p>

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type eir eir-profile locality service name type endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )

**profile nf-client nf-type eir eir-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description** { **primary** | **secondary** | **tertiary** } **ip-address** { [ **ipv4** *ipv4\_address* | **ipv6** *ipv6\_address* ] [ **port** *port\_number* ] }

**ipv4 *ipv4\_address***

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type eir eir-profile locality service name type endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Syntax Description</b>	<pre>{ primary   secondary   tertiary } ip-address { [ ipv4 <i>ipv4_address</i>   ipv6 <i>ipv6_address</i> ] [ port <i>port_number</i> ] }</pre> <p><b>ipv4 <i>ipv4_address</i></b> Specify the IPv4 address. Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p> <p><b>ipv6 <i>ipv6_address</i></b> Specify the IPv6 address. Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.</p> <p><b>port <i>port_number</i></b> Specify the port number. Must be an integer in the range of 0-65535.</p>

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type eir eir-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Syntax Description** **version uri-version** { *uri\_version* | **full-version** *full\_version* }

**full-version** *full\_version*

Specify the full version in the format *major-version.minor-version.patch-version.[alpha-draft-number]*



Must be a string.

**uri-version** *uri\_version*

Specify the URI version.

Must be a string in the pattern `v\d`.

**Usage Guidelines** Use this command to configure the URI version parameter.

## profile nf-client nf-type group nrf auth service type nrf oauth2

Configures the AMF ID (**service type nrf oauth2** in the **group nrf auth**) to enable an NRF endpoint, to which the AMF will send the `AccessToken` request to the NRF server, when the `nf-client` is configured.

**Command Modes** Exec > Global Configuration (`config`) > AMF Configuration (`config-amf amf_name`) > NF Profile Name Configuration (`config-nf-profile-nf nf_profile_name`) > NF Profile Type Configuration (`config-nf-type-profile profile_type_name`) > `group nrf auth` > `service type nrf oauth2`

**Syntax Description**

```

group nrf auth nrf_group_name
  service type nrf oauth2
    endpoint-profile endpoint_profile_details
    capacity capacity_number
    uri-scheme http
    endpoint-name endpoint_name
    priority priority_number
    primary ip-address ipv4 ipv4_address
    primary ip-address port port_address

```

**group nrf auth** *nrf\_group\_name*

Specify the NRF group name to authenticate. Must be a string.

**service type nrf oauth2**

Specify the service and the type of NRF, which must be authenticated to enable the OAuth2 profile configuration.

**endpoint-profile** *endpoint\_profile\_details*

Specify the endpoint profile details.

**capacity** *capacity\_number*

Specify the capacity requirement in number.

**uri-scheme** **http**

Specify the URI scheme.

**endpoint-name *endpoint\_name***

Specify the endpoint name.

**priority *priority\_number***

Specify the priority request. Must be in numbers.

**primary ip-address ipv4 *ipv4\_address***

Specify the primary IPv4 address.

**primary ip-address port *port\_address***

Specify the primary port address.

**Usage Guidelines**

Use this command, when the **service type nrf oauth2** in the **group nrf auth** feature is configured, when the AMF sends the `AccessToken` request to the NRF server, when the `nf-client` is configured.

## profile nf-client nf-type nssf nssf-profile

Configures NSSF profile parameters.

**Command Modes**

Exec > Global Configuration (config)

**Syntax Description**

**profile nf-client nf-type nssf nssf-profile** *nssf\_profile\_name*

**nssf-profile *nssf\_profile\_name***

Specify name of the NSSF profile.

Must be a string.

**Usage Guidelines**

Use this command to configure the NSSF profile parameters. The CLI prompt changes to the NSSF Profile Configuration mode (`config-nssf-profile-<profile_name>`).

## profile nf-client nf-type nssf nssf-profile locality

Configures locality parameter.

**Command Modes**

Exec > Global Configuration (config) > NSSF Profile Configuration (`config-nssf-profile-profile_name`)

**Syntax Description**

**locality** *locality\_name* [ **priority** *locality\_config\_priority* ]

**locality *locality\_name***

Specify name of the locality.

Must be a string.

**priority locality\_config\_priority**

Specify the priority of the locality configuration.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the NSSF Profile Locality parameter.

## profile nf-client nf-type nssf nssf-profile locality service name type

Configures the NSSF service name type parameter.

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

**Syntax Description**

**service name type** *service\_name\_type* [ **responsetimeout** *response\_timeout\_interval* ]

**responsetimeout response\_timeout\_interval**

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type service\_name\_type**

Specify the NSSF service name type.

Must be one of the following:

- **nssf-nselection**

**Usage Guidelines**

Use this command to configure the NSSF service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<service\_name\_type>).

## profile nf-client nf-type nssf nssf-profile locality service name type endpoint-profile

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Syntax Description</b>	<p><b>endpoint-profile</b> <i>endpoint_profile_name</i> { <b>capacity</b> <i>capacity_value</i>   <b>priority</b> <i>profile_priority</i>   <b>api-uri-prefix</b> <i>api_uri_prefix</i>   <b>api-root</b> <i>api_root</i>   <b>uri-scheme</b> <i>uri_scheme</i> }</p> <p><b>api-root</b> <i>api_root</i> Specify the API root. Must be a string.</p> <p><b>api-uri-prefix</b> <i>api_uri_prefix</i> Specify the API URI prefix. Must be a string.</p> <p><b>capacity</b> <i>capacity_value</i> Specify the profile capacity. Must be an integer in the range of 0-65535.</p>

Default Value: 10.

**endpoint-profile** *endpoint\_profile\_name*

Specify name of the endpoint profile.

Must be a string.

**priority** *profile\_priority*

Specify the priority of the profile.

Must be an integer in the range of 0-65535.

Default Value: 1.

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

**Usage Guidelines**

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (config-endpoint-profile-<profile\_name>).

## profile nf-client nf-type nssf nssf-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name

Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Syntax Description**

**endpoint-name** *endpoint\_name* [ **priority** *node\_priority* | **capacity** *node\_capacity* ]

**capacity** *node\_capacity*

Specify the node capacity for the endpoint.

Must be an integer in the range of 0-65535.

**endpoint-name** *endpoint\_name*

Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address.

Must be a string.

**priority** *node\_priority*

Specify the node priority for the endpoint.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-<endpoint\_name>).

# profile nf-client nf-type nssf nssf-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description**

**default-notification-subscriptions** *name* [ **callback-uri** *callback\_uri* | **n1-message-class** *n1\_message\_class* | **n2-information-class** *n2\_information\_class* | **notification-type** *notification\_type* ]

**callback-uri** *callback\_uri*

Specify the callback URI.

Must be a string.

**n1-message-class** *n1\_message\_class*

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class** *n2\_information\_class*

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type** *notification\_type*

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION
- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

**name**

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (config-default-notification-subscriptions-*<name>*)



# profile nf-client nf-type nssf nssf-profile locality service name type endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile_name) > Locality Configuration (config-locality-locality_name)

**profile nf-client nf-type nssf nssf-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description** { **primary** | **secondary** | **tertiary** } **ip-address** { [ **ipv4** ipv4\_address | **ipv6** ipv6\_address ] [ **port** port\_number ] }

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## **profile nf-client nf-type nssf nssf-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name

Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

# profile nf-client nf-type nssf nssf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile_name) > Locality Configuration (config-locality-locality_name)

> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

---

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6
ipv6_address ] [ port port_number ] }
```

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

---

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type nssf nssf-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

---

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

---

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

---

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

---

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<pre>version uri-version { uri_version   full-version full_version }</pre> <p><b>full-version</b> <i>full_version</i></p> <p>Specify the full version in the format <i>major-version.minor-version.patch-version.[alpha-draft-number]</i></p> <p>Must be a string.</p> <p><b>uri-version</b> <i>uri_version</i></p> <p>Specify the URI version.</p> <p>Must be a string in the pattern v\d.</p>
<b>Usage Guidelines</b>	Use this command to configure the URI version parameter.

## profile nf-client nf-type oauthenabled

Configures the AMF ID (**oauthenabled**) to enable the `Nnrf_AccessToken` request to the NRF server, when the `nf-client` is configured.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF Configuration (config-amf <i>amf_name</i> ) > NF Profile Name Configuration (config-nf-profile-nf <i>nf_profile_name</i> ) > NF Profile Type Configuration (config-nf-type-profile <i>profile_type_name</i> ) > oauthenabled enabled
<b>Syntax Description</b>	<pre>oauthenabled { true   false } nf-type-profile nf_type_profile_name locality locality_name priority priority_number service name type service_name type_npcf_am_policy_control</pre>

```
endpoint-profile endpoint_profile_details  
capacity capacity_number  
uri-scheme http  
endpoint-name endpoint_name  
priority priority_number  
primary ip-address ipv4 ipv4_address  
primary ip-address port port_address
```

### **oauthenabled**

Enable the OAuth2 client authorization to register the AMF with NRF. The default value is false.

### **nf-type-profile** *nf\_type\_profile\_name*

Specify the NF profile name.

### **locality** *locality\_name*

Specify the locality.

### **priority** *priority\_number*

Specify the priority request. Must be in numbers.

### **service name type** *service\_name type\_npcf\_am\_policy\_control*

Specify the service name and the type.

### **endpoint-profile** *endpoint\_profile\_details*

Specify the endpoint profile details.

### **capacity** *capacity\_number*

Specify the capacity requirement in number.

### **uri-scheme** **http**

Specify the URI scheme.

### **endpoint-name** *endpoint\_name*

Specify the endpoint name.

### **primary ip-address ipv4** *ipv4\_address*

Specify the primary IPv4 address.

### **primary ip-address port** *port\_address*

Specify the primary port address.

**Usage Guidelines** Use this command, when the **oauthenticated** feature is configured, when the AMF sends the `Nnrf_AccessToken` request to the NRF server, when the `nf-client` is configured.

## profile nf-client nf-type pcf pcf-profile

Configures PCF profile parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `profile nf-client nf-type pcf pcf-profile profile_name`

**pcf-profile profile\_name**

Specify name of the PCF profile.

Must be a string.

**Usage Guidelines** Use this command to configure the PCF profile parameters. The CLI prompt changes to the PCF Profile Configuration mode (config-pcf-profile-<profile\_name>).

## profile nf-client nf-type pcf pcf-profile locality

Configures the PCF profile locality parameter.

**Command Modes** Exec > Global Configuration (config) > PCF Profile Configuration (config-psf-profile-profile\_name)

**Syntax Description** `locality locality_name [ priority locality_priority ]`

**locality locality\_name**

Specify name of the locality.

Must be a string.

**priority locality\_priority**

Specify priority of the locality configuration.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the PCF profile locality parameter.

## profile nf-client nf-type pcf pcf-profile locality service name type

Configures the PCF service name type parameter.



**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

**Syntax Description** **service name type** *service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type** *service\_name\_type*

Specify the PCF service name parameters.

Must be one of the following:

- **npcf-am-policy-control**
- **npcf-bdtpolicycontrol**
- **npcf-eventexposure**
- **npcf-policyauthorization**
- **npcf-smpolicycontrol**
- **npcf-ue-policy-control**

**Usage Guidelines** Use this command to configure the PCF service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<*service\_name\_type*>).

## profile nf-client nf-type pcf pcf-profile locality service name type endpoint-profile

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Syntax Description</b>	<p><b>endpoint-profile</b> <i>endpoint_profile_name</i> { <b>capacity</b> <i>capacity_value</i>   <b>priority</b> <i>profile_priority</i>   <b>api-uri-prefix</b> <i>api_uri_prefix</i>   <b>api-root</b> <i>api_root</i>   <b>uri-scheme</b> <i>uri_scheme</i> }</p> <p><b>api-root</b> <i>api_root</i> Specify the API root. Must be a string.</p> <p><b>api-uri-prefix</b> <i>api_uri_prefix</i> Specify the API URI prefix. Must be a string.</p> <p><b>capacity</b> <i>capacity_value</i> Specify the profile capacity. Must be an integer in the range of 0-65535. Default Value: 10.</p> <p><b>endpoint-profile</b> <i>endpoint_profile_name</i> Specify name of the endpoint profile. Must be a string.</p>

**priority** *profile\_priority*

Specify the priority of the profile.

Must be an integer in the range of 0-65535.

Default Value: 1.

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

**Usage Guidelines**

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (`config-endpoint-profile-<profile_name>`).

## profile nf-client nf-type pcf pcf-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (`config`) > AMF NF-Client Configuration (`config-amf`) > AMF Profile Configuration (`config-amf-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`)

**Command Modes**

Exec > Global Configuration (`config`) > AUSF NF-Client Configuration (`config-ausf`) > AUSF Profile Configuration (`config-ausf-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`)

**Command Modes**

Exec > Global Configuration (`config`) > CHF NF-Client Configuration (`config-chf`) > CHF Profile Configuration (`config-chf-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`)

**Command Modes**

Exec > Global Configuration (`config`) > EIR NF-Client Configuration (`config-eir`) > EIR Profile Configuration (`config-eir-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`)

**Command Modes**

Exec > Global Configuration (`config`) > NSSF NF-Client Configuration (`config-nssf`) > NSSF Profile Configuration (`config-nssf-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`)

<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<p><b>endpoint-name</b> <i>endpoint_name</i> [ <b>priority</b> <i>node_priority</i>   <b>capacity</b> <i>node_capacity</i> ]</p> <p><b>capacity</b> <i>node_capacity</i></p> <p>Specify the node capacity for the endpoint. Must be an integer in the range of 0-65535.</p> <p><b>endpoint-name</b> <i>endpoint_name</i></p> <p>Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address. Must be a string.</p> <p><b>priority</b> <i>node_priority</i></p> <p>Specify the node priority for the endpoint. Must be an integer in the range of 0-65535.</p>
<b>Usage Guidelines</b>	Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-< <i>endpoint_name</i> >).

# profile nf-client nf-type pcf pcf-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description**

**default-notification-subscriptions** *name* [ **callback-uri** *callback\_uri* | **n1-message-class** *n1\_message\_class* | **n2-information-class** *n2\_information\_class* | **notification-type** *notification\_type* ]

**callback-uri** *callback\_uri*

Specify the callback URI.

Must be a string.

**n1-message-class** *n1\_message\_class*

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class** *n2\_information\_class*

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type** *notification\_type*

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION
- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

**name**

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (config-default-notification-subscriptions-<name>)

# profile nf-client nf-type pcf pcf-profile locality service name type endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> )

**profile nf-client nf-type pcf pcf-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Syntax Description

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

#### **ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

#### **ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

#### **port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

#### Usage Guidelines

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type pcf pcf-profile locality service name type endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

#### Command Modes

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name



Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

# profile nf-client nf-type pcf pcf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile_name) > Locality Configuration (config-locality-locality_name)

> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Syntax Description

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

#### ipv4 ipv4\_address

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

#### ipv6 ipv6\_address

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

#### port port\_number

Specify the port number.

Must be an integer in the range of 0-65535.

### Usage Guidelines

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type pcf pcf-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

### Command Modes

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

### Command Modes

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

### Command Modes

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

### Command Modes

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<p><b>version uri-version</b> { <i>uri_version</i>   <b>full-version</b> <i>full_version</i> }</p> <p><b>full-version</b> <i>full_version</i></p> <p>Specify the full version in the format <i>major-version.minor-version.patch-version.[alpha-draft-number]</i></p> <p>Must be a string.</p> <p><b>uri-version</b> <i>uri_version</i></p> <p>Specify the URI version.</p> <p>Must be a string in the pattern v\d.</p>
<b>Usage Guidelines</b>	Use this command to configure the URI version parameter.

## profile nf-client nf-type sepp sepp-profile

Configures SEPP profile parameters.

<b>Command Modes</b>	Exec > Global Configuration (config)
<b>Syntax Description</b>	<p><b>profile nf-client nf-type sepp sepp-profile</b> <i>sepp_profile_name</i></p> <p><b>sepp-profile</b> <i>sepp_profile_name</i></p> <p>Specify name of the SEPP profile.</p> <p>Must be a string.</p>
<b>Usage Guidelines</b>	Use this command to configure the SEPP profile parameters. The CLI prompt changes to the SEPP Profile Configuration mode (config-sepp-profile-<profile_name>).

## profile nf-client nf-type sepp sepp-profile locality

Configures the SEPP profile locality parameter.

**Command Modes** Exec > Global Configuration (config) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*)

**Syntax Description** **locality** *locality\_name* [ **priority** *priority* ]

**locality** *locality\_name*

Specify name of the locality.

Must be a string.

**priority** *priority*

Specify the priority of the locality configuration.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the SEPP profile locality parameter.

## profile nf-client nf-type sepp sepp-profile locality service name type

Configures the SEPP service name type parameter.

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

**Syntax Description** **service name type** *service\_name\_type* [ **responsetimeout** *response\_timeout\_interval* ]

**responsetimeout** *response\_timeout\_interval*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type** *service\_name\_type*

Specify the SEPP service name type.

Must be one of the following:

- **nsmf-pdusession**

**Usage Guidelines** Use this command to configure the SEPP service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<*service\_name\_type*>).

# profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** **endpoint-profile** *endpoint\_profile\_name* { **capacity** *capacity\_value* | **priority** *profile\_priority* | **api-uri-prefix** *api\_uri\_prefix* | **api-root** *api\_root* | **uri-scheme** *uri\_scheme* }

**api-root** *api\_root*

Specify the API root.

Must be a string.

**api-uri-prefix** *api\_uri\_prefix*

Specify the API URI prefix.

Must be a string.

**capacity** *capacity\_value*

Specify the profile capacity.

Must be an integer in the range of 0-65535.

Default Value: 10.

**endpoint-profile** *endpoint\_profile\_name*

Specify name of the endpoint profile.

Must be a string.

**priority** *profile\_priority*

Specify the priority of the profile.

Must be an integer in the range of 0-65535.

Default Value: 1.

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

### Usage Guidelines

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (config-endpoint-profile-<profile\_name>).

## profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

### Command Modes

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<b>endpoint-name</b> <i>endpoint_name</i> [ <b>priority</b> <i>node_priority</i>   <b>capacity</b> <i>node_capacity</i> ]

**capacity** *node\_capacity*

Specify the node capacity for the endpoint.

Must be an integer in the range of 0-65535.



**endpoint-name** *endpoint\_name*

Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address.

Must be a string.

**priority** *node\_priority*

Specify the node priority for the endpoint.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-<endpoint\_name>).

# profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description** **default-notification-subscriptions** *name* [ **callback-uri** *callback\_uri* | **n1-message-class** *n1\_message\_class* | **n2-information-class** *n2\_information\_class* | **notification-type** *notification\_type* ]

**callback-uri** *callback\_uri*

Specify the callback URI.

Must be a string.

**n1-message-class** *n1\_message\_class*

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class** *n2\_information\_class*

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type** *notification\_type*

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION

- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

**name**

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (config-default-notification-subscriptions-<name>)

## profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Syntax Description</b>	<pre>{ <b>primary</b>   <b>secondary</b>   <b>tertiary</b> } <b>ip-address</b> { [ <b>ipv4</b> <i>ipv4_address</i>   <b>ipv6</b> <i>ipv6_address</i> ] [ <b>port</b> <i>port_number</i> ] }</pre> <p><b>ipv4 <i>ipv4_address</i></b> Specify the IPv4 address. Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p> <p><b>ipv6 <i>ipv6_address</i></b> Specify the IPv6 address. Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.</p> <p><b>port <i>port_number</i></b> Specify the port number. Must be an integer in the range of 0-65535.</p>
<b>Usage Guidelines</b>	Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
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<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Syntax Description</b>	<p>{ <b>primary</b>   <b>secondary</b>   <b>tertiary</b> } ip-address { [ <b>ipv4</b> ipv4_address   <b>ipv6</b> ipv6_address ] [ <b>port</b> port_number ] }</p> <p><b>ipv4 ipv4_address</b></p> <p>Specify the IPv4 address.</p> <p>Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p>

**profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

### **ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

### **port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

#### **Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## **profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

#### **Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

#### **Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

**ipv4 *ipv4\_address***

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type sepp sepp-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<pre><b>version uri-version</b> { <i>uri_version</i>   <b>full-version</b> <i>full_version</i> }</pre> <p><b>full-version</b> <i>full_version</i></p> <p>Specify the full version in the format <i>major-version.minor-version.patch-version.[alpha-draft-number]</i></p> <p>Must be a string.</p> <p><b>uri-version</b> <i>uri_version</i></p> <p>Specify the URI version.</p> <p>Must be a string in the pattern v\d.</p>
<b>Usage Guidelines</b>	Use this command to configure the URI version parameter.

## profile nf-client nf-type smf smf-profile

Configures SMF profile parameters.



**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **profile nf-client nf-type smf smf-profile** *smf\_profile\_name*

**smf-profile** *smf\_profile\_name*

Specify name of the SMF profile.

Must be a string.

**Usage Guidelines** Use this command to configure the SMF profile parameters. The CLI prompt changes to the SMF Profile Configuration mode (config-smf-profile-<profile\_name>).

## profile nf-client nf-type smf smf-profile locality

Configures the SMF profile locality parameter.

**Command Modes** Exec > Global Configuration (config) > SMF Profile Configuration (config-smf-profile-*profile\_name*)

**Syntax Description** **locality** *locality\_name* [ **priority** *priority* ]

**locality** *locality\_name*

Specify name of the locality.

Must be a string.

**priority** *priority*

Specify the priority of the locality configuration.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the SMF profile locality parameter.

## profile nf-client nf-type smf smf-profile locality service name type

Configures the SMF service name type parameter.

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

**Syntax Description** **service name type** *smf\_service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

### **type smf\_service\_name\_type**

Specify the service name type.

Must be one of the following:

- **nsmf-pdusession**

#### **Usage Guidelines**

Use this command to configure the SMF service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<service\_name\_type>).

## **profile nf-client nf-type smf smf-profile locality service name type endpoint-profile**

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

#### **Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

#### **Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

#### **Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

#### **Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

#### **Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

#### **Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

#### **Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** **endpoint-profile** *endpoint\_profile\_name* { **capacity** *capacity\_value* | **priority** *profile\_priority* | **api-uri-prefix** *api\_uri\_prefix* | **api-root** *api\_root* | **uri-scheme** *uri\_scheme* }

**api-root** *api\_root*

Specify the API root.

Must be a string.

**api-uri-prefix** *api\_uri\_prefix*

Specify the API URI prefix.

Must be a string.

**capacity** *capacity\_value*

Specify the profile capacity.

Must be an integer in the range of 0-65535.

Default Value: 10.

**endpoint-profile** *endpoint\_profile\_name*

Specify name of the endpoint profile.

Must be a string.

**priority** *profile\_priority*

Specify the priority of the profile.

Must be an integer in the range of 0-65535.

Default Value: 1.

**uri-scheme** *uri\_scheme*

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

**Usage Guidelines**

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (config-endpoint-profile-<profile\_name>).

## profile nf-client nf-type smf smf-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Syntax Description**

**endpoint-name** *endpoint\_name* [ **priority** *node\_priority* | **capacity** *node\_capacity* ]

**capacity** *node\_capacity*

Specify the node capacity for the endpoint.

Must be an integer in the range of 0-65535.

**endpoint-name** *endpoint\_name*

Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address.

Must be a string.

**priority** *node\_priority*

Specify the node priority for the endpoint.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-*<endpoint\_name>*).

# profile nf-client nf-type smf smf-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name

Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration  
(config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

**default-notification-subscriptions** name [ **callback-uri** callback\_uri | **n1-message-class** n1\_message\_class | **n2-information-class** n2\_information\_class | **notification-type** notification\_type ]

**callback-uri** callback\_uri

Specify the callback URI.

Must be a string.

**n1-message-class** n1\_message\_class

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class** *n2\_information\_class*

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type** *notification\_type*

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION
- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

**name**

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (config-default-notification-subscriptions-<name>)

## profile nf-client nf-type smf smf-profile locality service name type endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

profile nf-client nf-type smf smf-profile locality service name type endpoint-profile endpoint-name primary ip-address

<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Syntax Description</b>	<p>{ <b>primary</b>   <b>secondary</b>   <b>tertiary</b> } <b>ip-address</b> { [ <b>ipv4</b> <i>ipv4_address</i>   <b>ipv6</b> <i>ipv6_address</i> ] [ <b>port</b> <i>port_number</i> ] }</p> <p><b>ipv4 <i>ipv4_address</i></b> Specify the IPv4 address. Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.</p> <p><b>ipv6 <i>ipv6_address</i></b> Specify the IPv6 address. Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.</p> <p><b>port <i>port_number</i></b> Specify the port number. Must be an integer in the range of 0-65535.</p>



**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type smf smf-profile locality service name type endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )

**profile nf-client nf-type smf smf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address**

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description** { **primary** | **secondary** | **tertiary** } **ip-address** { [ **ipv4** *ipv4\_address* | **ipv6** *ipv6\_address* ] [ **port** *port\_number* ] }

**ipv4 *ipv4\_address***

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 *ipv6\_address***

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port *port\_number***

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type smf smf-profile locality service name type endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description** { **primary** | **secondary** | **tertiary** } **ip-address** { [ **ipv4** *ipv4\_address* | **ipv6** *ipv6\_address* ] [ **port** *port\_number* ] }

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type smf smf-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*)

**Syntax Description** **version uri-version** { *uri\_version* | **full-version** *full\_version* }

**full-version** *full\_version*

Specify the full version in the format *major-version.minor-version.patch-version.[alpha-draft-number]*

Must be a string.

**uri-version *uri\_version***

Specify the URI version.

Must be a string in the pattern \vd.

---

**Usage Guidelines** Use this command to configure the URI version parameter.

## profile nf-client nf-type udm udm-profile

Configures UDM profile parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **profile nf-client nf-type udm udm-profile** *udm\_profile\_name*

**udm-profile *udm\_profile\_name***

Specify name of the UDM profile.

Must be a string.

---

**Usage Guidelines** Use this command to configure the UDM profile parameters. The CLI prompt changes to the UDM Profile Configuration mode (config-udm-profile-<profile\_name>).

## profile nf-client nf-type udm udm-profile locality

Configures the UDM profile locality parameters.

---

**Command Modes** Exec > Global Configuration (config) > UDM Profile Configuration (config-udm-profile-*profile\_name*)

---

**Syntax Description** **locality** *locality\_name* [ **priority** *priority* ]

**locality *locality\_name***

Specify name of the locality.

Must be a string.

**priority *priority***

This keyword sets the priority for the locality configuration.

Must be an integer in the range of 0-65535.

---

**Usage Guidelines** Use this command to configure the UDM profile locality parameter.

# profile nf-client nf-type udm udm-profile locality service name type

Configures the UDM service name type parameter.

## Command Modes

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*)

## Syntax Description

**service name type** *service\_name\_type* [ **responsetimeout** *response\_timeout* ]

### **responsetimeout** *response\_timeout*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

### **type** *service\_name\_type*

Specify the UDM service name type.

Must be one of the following:

- **nudm-ee**
- **nudm-pp**
- **nudm-sdm**
- **nudm-ueau**
- **nudm-uecm**

## Usage Guidelines

Use this command to configure the UDM service name type parameter. The CLI prompt changes to the Service Name Type Configuration mode (config-type-<*service\_name\_type*>).

# profile nf-client nf-type udm udm-profile locality service name type endpoint-profile

Configures endpoint profile parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

## Command Modes

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*)

<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> )
<b>Syntax Description</b>	<p><b>endpoint-profile</b> <i>endpoint_profile_name</i> { <b>capacity</b> <i>capacity_value</i>   <b>priority</b> <i>profile_priority</i>   <b>api-uri-prefix</b> <i>api_uri_prefix</i>   <b>api-root</b> <i>api_root</i>   <b>uri-scheme</b> <i>uri_scheme</i> }</p> <p><b>api-root</b> <i>api_root</i> Specify the API root. Must be a string.</p> <p><b>api-uri-prefix</b> <i>api_uri_prefix</i> Specify the API URI prefix. Must be a string.</p> <p><b>capacity</b> <i>capacity_value</i> Specify the profile capacity. Must be an integer in the range of 0-65535.</p>

**profile nf-client nf-type udm udm-profile locality service name type endpoint-profile endpoint-name**

Default Value: 10.

**endpoint-profile *endpoint\_profile\_name***

Specify name of the endpoint profile.

Must be a string.

**priority *profile\_priority***

Specify the priority of the profile.

Must be an integer in the range of 0-65535.

Default Value: 1.

**uri-scheme *uri\_scheme***

Specify the URI scheme.

Must be one of the following:

- **http**: HTTP.
- **https**: HTTPS.

**Usage Guidelines**

Use this command to configure endpoint profile parameters. The CLI prompt changes to the Endpoint Profile Configuration mode (`config-endpoint-profile-<profile_name>`).

## profile nf-client nf-type udm udm-profile locality service name type endpoint-profile endpoint-name

Configures the endpoint name parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (`config`) > AMF NF-Client Configuration (`config-amf`) > AMF Profile Configuration (`config-amf-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`)

**Command Modes**

Exec > Global Configuration (`config`) > AUSF NF-Client Configuration (`config-ausf`) > AUSF Profile Configuration (`config-ausf-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`)

**Command Modes**

Exec > Global Configuration (`config`) > CHF NF-Client Configuration (`config-chf`) > CHF Profile Configuration (`config-chf-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name Type Configuration (`config-type-service_name_type`) > Endpoint Profile Configuration (`config-endpoint-profile-profile_name`)

**Command Modes**

Exec > Global Configuration (`config`) > EIR NF-Client Configuration (`config-eir`) > EIR Profile Configuration (`config-eir-profile-profile_name`) > Locality Configuration (`config-locality-locality_name`) > Service Name



Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-smf) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Syntax Description**

**endpoint-name** *endpoint\_name* [ **priority** *node\_priority* | **capacity** *node\_capacity* ]

**capacity** *node\_capacity*

Specify the node capacity for the endpoint.

Must be an integer in the range of 0-65535.

**endpoint-name** *endpoint\_name*

Specify name of the endpoint. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address.

Must be a string.

**priority** *node\_priority*

Specify the node priority for the endpoint.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this configuration to configure the endpoint name parameters. The CLI prompt changes to the Endpoint Name Configuration mode (config-endpoint-name-<endpoint\_name>).

# profile nf-client nf-type udm udm-profile locality service name type endpoint-profile endpoint-name default-notification-subscriptions

Configures the Default Notification Subscription parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

## Command Modes

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

## Command Modes

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

## Command Modes

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

## Command Modes

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

## Command Modes

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

## Command Modes

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

## Command Modes

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

## Command Modes

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Command Modes**

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-*profile\_name*) > Locality Configuration (config-locality-*locality\_name*) > Service Name Type Configuration (config-type-*service\_name\_type*) > Endpoint Profile Configuration (config-endpoint-profile-*profile\_name*) > Endpoint Name Configuration (config-endpoint-name-*endpoint\_name*)

**Syntax Description**

**default-notification-subscriptions** *name* [ **callback-uri** *callback\_uri* | **n1-message-class** *n1\_message\_class* | **n2-information-class** *n2\_information\_class* | **notification-type** *notification\_type* ]

**callback-uri** *callback\_uri*

Specify the callback URI.

Must be a string.

**n1-message-class** *n1\_message\_class*

Specify the N1 Message Class.

Must be one of the following:

- 5GMM

**n2-information-class** *n2\_information\_class*

Specify the N2 Information Class.

Must be one of the following:

- RAN

**notification-type** *notification\_type*

Specify the notification type.

Must be one of the following:

- DATA\_CHANGE\_NOTIFICATION
- DATA\_REMOVAL\_NOTIFICATION
- LOCATION\_NOTIFICATION
- N1\_MESSAGES
- N2\_INFORMATION

**name**

Specify the name of the default notification subscriptions.

Must be a string.

**Usage Guidelines**

Use this command to configure the Default Notification Subscription parameters. The CLI prompt changes to the Default Notification Subscriptions Configuration mode (config-default-notification-subscriptions-*<name>*)

# profile nf-client nf-type udm udm-profile locality service name type endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Service Name Type Configuration (config-type- <i>service_name_type</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> ) > Endpoint Name Configuration (config-endpoint-name- <i>endpoint_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> )

> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Syntax Description

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

#### ipv4 ipv4\_address

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

#### ipv6 ipv6\_address

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

#### port port\_number

Specify the port number.

Must be an integer in the range of 0-65535.

### Usage Guidelines

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type udm udm-profile locality service name type endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

### Command Modes

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Command Modes

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Command Modes

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

### Command Modes

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name

**profile nf-client nf-type udm udm-profile locality service name type endpoint-profile endpoint-name secondary ip-address**

Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Command Modes

Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

#### Syntax Description

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6 ipv6_address ] [ port port_number ] }
```

#### **ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

#### **ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

#### **port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

#### Usage Guidelines

Use this command to configure the endpoint IP address and port number parameters.

# profile nf-client nf-type udm udm-profile locality service name type endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number parameters. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile-profile_name) > Locality Configuration (config-locality-locality_name) > Service Name Type Configuration (config-type-service_name_type) > Endpoint Profile Configuration (config-endpoint-profile-profile_name) > Endpoint Name Configuration (config-endpoint-name-endpoint_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile-profile_name) > Locality Configuration (config-locality-locality_name)

> Service Name Type Configuration (config-type-service\_name\_type) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name) > Endpoint Name Configuration (config-endpoint-name-endpoint\_name)

**Syntax Description**

```
{ primary | secondary | tertiary } ip-address { [ ipv4 ipv4_address | ipv6
ipv6_address ] [ port port_number ] }
```

**ipv4 ipv4\_address**

Specify the IPv4 address.

Must be a string in the ipv4-address pattern. For information on the ipv4-address pattern, see the Input Pattern Types section.

**ipv6 ipv6\_address**

Specify the IPv6 address.

Must be a string in the ipv6-address pattern. For information on the ipv6-address pattern, see the Input Pattern Types section.

**port port\_number**

Specify the port number.

Must be an integer in the range of 0-65535.

**Usage Guidelines**

Use this command to configure the endpoint IP address and port number parameters.

## profile nf-client nf-type udm udm-profile locality service name type endpoint-profile version uri-version

Configures the URI version parameter. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > AMF Profile Configuration (config-amf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF-Client Configuration (config-ausf) > AUSF Profile Configuration (config-ausf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > CHF Profile Configuration (config-chf-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > EIR Profile Configuration (config-eir-profile-profile\_name) > Locality Configuration (config-locality-locality\_name) > Endpoint Profile Configuration (config-endpoint-profile-profile\_name)



<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > NSSF Profile Configuration (config-nssf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > PCF Profile Configuration (config-pcf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > SEPP Profile Configuration (config-sepp-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > SMF Profile Configuration (config-smf-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > UDM Profile Configuration (config-udm-profile- <i>profile_name</i> ) > Locality Configuration (config-locality- <i>locality_name</i> ) > Endpoint Profile Configuration (config-endpoint-profile- <i>profile_name</i> )
<b>Syntax Description</b>	<p><b>version uri-version</b> { <i>uri_version</i>   <b>full-version</b> <i>full_version</i> }</p> <p><b>full-version</b> <i>full_version</i></p> <p>Specify the full version in the format <i>major-version.minor-version.patch-version.[alpha-draft-number]</i></p> <p>Must be a string.</p> <p><b>uri-version</b> <i>uri_version</i></p> <p>Specify the URI version.</p> <p>Must be a string in the pattern <i>v\d</i>.</p>
<b>Usage Guidelines</b>	Use this command to configure the URI version parameter.

## profile nf-client-failure nf-type amf

Configures the AMF Profile Failure Handling parameters.

<b>Command Modes</b>	Exec > Global Configuration (config)
<b>Syntax Description</b>	<b>profile nf-client-failure nf-type amf</b>
<b>Usage Guidelines</b>	Use this command to configure the AMF Profile Failure Handling parameters. The CLI prompt changes to the AMF Configuration mode (config-amf).

## profile nf-client-failure nf-type amf profile failure-handling

Configures the AMF Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > AMF NF Client Failure Configuration (config-amf)

**Syntax Description** **profile failure-handling** *fh\_template\_name*

**failure-handling** *fh\_template\_name*

Specify name of the AMF failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure the AMF Failure Handling Template parameters. The CLI prompt changes to the Failure Handling <profile\_name> Configuration (config-failure-handling-<profile\_name>).

## profile nf-client-failure nf-type amf profile failure-handling service name type

Configures the AMF Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > AMF NF-Client Configuration (config-amf) > Failure Handling Profile Configuration (config-failure-handling-*profile\_name*)

**Syntax Description** **service name type** *amf\_service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type** *amf\_service\_name\_type*

Specify the AMF service name type.

Must be one of the following:

- **namf-comm**
- **namf-evts**
- **namf-loc**
- **namf-mt**

**Usage Guidelines** Use this command to configure AMF Failure Handling parameters. The CLI prompt changes to the Failure Handling Service Name Type Configuration mode (config-type-<service\_name\_type>)

## profile nf-client-failure nf-type amf profile failure-handling service name type message type

Configures the AMF message type parameters.

**Command Modes** Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** **message type** *amf\_message\_type*

### **type** *amf\_message\_type*

Specify the AMF message type.

Must be one of the following:

- **AmfCommCreateUeContext**
- **AmfCommEBIAssignment**
- **AmfCommN1N2MessageTransfer**
- **AmfCommSMSStatusChangeNotify**
- **AmfCommUeContextTransfer**
- **AmfCommUeContextTransferUpdate**
- **AmfN1MessageNotifyClient**

**Usage Guidelines** Use this command to configure the AMF message type parameters.

## profile nf-client-failure nf-type amf profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes** Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Syntax Description** **status-code httpv2** { **range** range | range } { **action** action | **retransmit** retransmit | **retransmit-interval** retransmit\_interval | **retry** retry\_value }

**action action**

Specify the action.

Must be one of the following:

- **continue**: Specify to continue the session without any retry. The retry count configuration is invalid with this action.
- **retry-and-continue**: Specify to retry as per the configured retry count and continue the session.

- **retry-and-ignore**: Specify to retry as per the configured retry count and ignore the session in case all retry fails.
- **retry-and-terminate**: Specify to retry as per the configured retry count and terminate the session in case all retry fails.
- **terminate**: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.

**code** *code\_value*

Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).

Must be an integer.

-Or-

Must be a string.

**retransmit-interval** *retransmit\_interval*

Specify the retransmit interval in milliseconds.

Must be an integer.

**retransmit** *retransmit*

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry** *retry\_value*

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

**Usage Guidelines** Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type ausf

Configures AUSF Profile Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `profile nf-client-failure nf-type ausf`

**Usage Guidelines** Use this command to configure AUSF Profile Failure Handling parameters. The CLI prompt changes to the AUSF Configuration mode (config-ausf).

## profile nf-client-failure nf-type ausf profile failure-handling

Configures the AUSF Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > AUSF NF Client Failure Configuration (config-ausf)

**Syntax Description** **profile failure-handling** *fh\_template\_name*

**failure-handling** *fh\_template\_name*

Specify name of the AUSF failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure the AUSF Failure Handling Template parameters. The CLI prompt changes to the Failure Handling Profile Configuration mode (config-failure-handling-<profile\_name>).

## profile nf-client-failure nf-type ausf profile failure-handling service name type

Configures the AUSF Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > AUSF Configuration (config-ausf) > Failure Handling Profile Configuration (config-failure-handling-*profile\_name*)

**Syntax Description** **service name type** *ausf\_service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the response timeout.

Must be an integer.

Default Value: 2000.

**type** *ausf\_service\_name\_type*

Specify the AUSF service name type.

Must be one of the following:

- **nausf-auth**

**Usage Guidelines** Use this command to configure the AUSF Failure Handling parameters.

## profile nf-client-failure nf-type ausf profile failure-handling service name type message type

Configures the AUSF message type parameters.

**Command Modes** Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** `message type ausf_message_type`

**type ausf\_message\_type**

Specify the AUSF message type.

Must be one of the following:

- **AusfAuthenticationCfm**
- **AusfAuthenticationReq**

**Usage Guidelines** Use this command to configure the AUSF message type parameters.

## profile nf-client-failure nf-type ausf profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Syntax Description** `status-code httpv2 { range range | range } { action action | retransmit retransmit | retransmit-interval retransmit_interval | retry retry_value }`

#### **action action**

Specify the action.

Must be one of the following:

- **continue**: Specify to continue the session without any retry. The retry count configuration is invalid with this action.
- **retry-and-continue**: Specify to retry as per the configured retry count and continue the session.
- **retry-and-ignore**: Specify to retry as per the configured retry count and ignore the session in case all retry fails.
- **retry-and-terminate**: Specify to retry as per the configured retry count and terminate the session in case all retry fails.
- **terminate**: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.

#### **code code\_value**

Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).

Must be an integer.

-Or-

Must be a string.



**retransmit-interval** *retransmit\_interval*

Specify the retransmit interval in milliseconds.

Must be an integer.

**retransmit** *retransmit*

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry** *retry\_value*

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

---

**Usage Guidelines** Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type chf

Configures CHF Profile Failure Handling parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **profile nf-client-failure nf-type chf**

---

**Usage Guidelines** Use this command to configure CHF Profile Failure Handling parameters. The CLI prompt changes to the CHF NF Client Configuration mode (config-chf).

## profile nf-client-failure nf-type chf profile failure-handling

Configures the CHF Failure Handling Template parameters.

---

**Command Modes** Exec > Global Configuration (config) > CHF NF Client Failure Configuration (config-chf)

---

**Syntax Description** **profile failure-handling** *fh\_template\_name*

**failure-handling** *fh\_template\_name*

Specify name of the CHF failure handling template.

Must be a string.

---

**Usage Guidelines** Use this command to configure the CHF Failure Handling Template for CHF profile.

## profile nf-client-failure nf-type chf profile failure-handling service name type

Configures the CHF Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > CHF NF-Client Configuration (config-chf) > Failure Handling Profile Configuration (config-failure-handling-profile\_name)

**Syntax Description** **service name type** *chf\_service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type** *chf\_service\_name\_type*

Specify the CHF service name type.

Must be one of the following:

- **nchf-convergedcharging**
- **nchf-spendinglimitcontrol**

**Usage Guidelines** Use this command to configure the CHF Failure Handling parameters.

## profile nf-client-failure nf-type chf profile failure-handling service name type message type

Configures the CHF message type parameters.

**Command Modes** Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type)

**Syntax Description** **message type** *chf\_message\_type*

**type** *chf\_message\_type*

Specify the CHF message type.

Must be one of the following:

- **ChfConvergedchargingCreate**
- **ChfConvergedchargingDelete**

- ChfConvergedchargingUpdate
- ChfSpendingLimitContolSubscribe
- ChfSpendingLimitContolUnSubscribe

**Usage Guidelines**

Use this command to configure the CHF message type parameters.

## profile nf-client-failure nf-type chf profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

```
profile nf-client-failure nf-type chf profile failure-handling service name type message type status-code httpv2
```

<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Syntax Description</b>	<pre>status-code httpv2 { range range   range } { action action   retransmit retransmit   retransmit-interval retransmit_interval   retry retry_value }</pre> <p><b>action action</b></p> <p>Specify the action.</p> <p>Must be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>continue</b>: Specify to continue the session without any retry. The retry count configuration is invalid with this action.</li> <li>• <b>retry-and-continue</b>: Specify to retry as per the configured retry count and continue the session.</li> <li>• <b>retry-and-ignore</b>: Specify to retry as per the configured retry count and ignore the session in case all retry fails.</li> <li>• <b>retry-and-terminate</b>: Specify to retry as per the configured retry count and terminate the session in case all retry fails.</li> <li>• <b>terminate</b>: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.</li> </ul> <p><b>code code_value</b></p> <p>Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).</p> <p>Must be an integer.</p> <p>-Or-</p> <p>Must be a string.</p> <p><b>retransmit-interval retransmit_interval</b></p> <p>Specify the retransmit interval in milliseconds.</p> <p>Must be an integer.</p>

**retransmit *retransmit***

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry *retry\_value***

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

**Usage Guidelines** Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type eir

Configures EIR Profile Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `profile nf-client-failure nf-type eir`

**Usage Guidelines** Use this command to configure EIR Profile Failure Handling parameters. The CLI prompt changes to the EIR Configuration mode (config-eir).

## profile nf-client-failure nf-type eir profile failure-handling

Configures the EIR Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > EIR NF Client Failure Configuration (config-eir)

**Syntax Description** `profile failure-handling fh_template_name`

**failure-handling *fh\_template\_name***

Specify name of the EIR failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure the EIR Failure Handling Template parameters.

## profile nf-client-failure nf-type eir profile failure-handling service name type

Configures the EIR Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > EIR NF-Client Configuration (config-eir) > Failure Handling Profile Configuration (config-failure-handling-*profile\_name*)

**Syntax Description** `service name type` *amf\_service\_name\_type* [ `responsetimeout` *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type** *eir\_service\_name\_type*

Specify the EIR service name type.

Must be one of the following:

- **n5g-eir-eic**

**Usage Guidelines** Use this command to configure the EIR Failure Handling parameters.

## profile nf-client-failure nf-type eir profile failure-handling service name type message type

Specify the EIR message type parameters.

**Command Modes** Exec > Global Configuration (config) > EIR Configuration (config-eir) > Failure Handling *profile\_name* Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** `message type` *eir\_message\_type*

**type** *eir\_message\_type*

Specify the EIR message type.

Must be one of the following:

- **EirCheckEquipmentIdentity**

**Usage Guidelines** Use this command to configure the EIR message type parameters.

## profile nf-client-failure nf-type eir profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration

(config-type-service\_name\_type) > Failure Handling Message Type Configuration  
 (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Syntax Description**

**status-code httpv2** { **range** range | range } { **action** action | **retransmit** retransmit | **retransmit-interval** retransmit\_interval | **retry** retry\_value }

**action *action***

Specify the action.

Must be one of the following:

- **continue**: Specify to continue the session without any retry. The retry count configuration is invalid with this action.
- **retry-and-continue**: Specify to retry as per the configured retry count and continue the session.
- **retry-and-ignore**: Specify to retry as per the configured retry count and ignore the session in case all retry fails.
- **retry-and-terminate**: Specify to retry as per the configured retry count and terminate the session in case all retry fails.
- **terminate**: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.

**code *code\_value***

Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).

Must be an integer.

-Or-

Must be a string.

**retransmit-interval *retransmit\_interval***

Specify the retransmit interval in milliseconds.

Must be an integer.

**retransmit *retransmit***

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry *retry\_value***

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

---

**Usage Guidelines**

Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type nrf

Configures the NRF Profile Failure Handling parameters.

---

**Command Modes**

Exec > Global Configuration (config)



**Syntax Description** `profile nf-client-failure nf-type nrf`

**Usage Guidelines** Use this command to configure NRF Profile Failure Handling parameters. The CLI prompt changes to the NRF Configuration mode (config-nrf).

## profile nf-client-failure nf-type nrf profile failure-handling

Configures the NRF Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > NRF NF Client Failure Configuration (config-nrf)

**Syntax Description** `profile failure-handling fh_template_name`

**failure-handling fh\_template\_name**

Specify name of the NRF failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure the NRF Failure Handling Template parameters.

## profile nf-client-failure nf-type nrf profile failure-handling service name type

Configures NRF Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > NRF NF-Client Configuration (config-nrf) > Failure Handling Profile Configuration (config-failure-handling-profile\_name)

**Syntax Description** `service name type nrf_service_name_type [ responsetimeout response_timeout ]`

**responsetimeout response\_timeout**

Specify the timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**nrf\_service\_name\_type**

Specify the NRF service name type.

Must be one of the following:

- **nrf-nfm**

**Usage Guidelines** Use this command to configure the NRF Failure Handling parameters.

# profile nf-client-failure nf-type nrf profile failure-handling service name type message type

Configures NRF message type parameters.

**Command Modes** Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** **type** *message\_type* **failover-enabled** { **false** | **true** } **re-registration-enabled** { **false** | **true** }

## **failover-enabled** { **false** | **true** }

Specify whether to enable or disable failover to next NRF. This parameter is applicable only for NFUpdate and NRFRegistration message type.

Must be one of the following:

- **false**
- **true**

Default Value: true.

## **re-registration-enabled** { **false** | **true** }

Specify whether to enable or disable re-registration.

Must be one of the following:

- **false**
- **true**

Default Value: true.

## **type** *message\_type*

Specify the message type.

Must be one of the following:

- **Heartbeat**
- **NFUpdate**
- **NRFRegistration**

**Usage Guidelines** Use this command to configure the NRF message type parameters.

## profile nf-client-failure nf-type nrf profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status code.

**Command Modes** Exec > Global Configuration

**Syntax Description** `status-code httpv2 { code code_value | action action }`

### **action action**

Specify the action.

Must be one of the following:

- **retry-next**
- **retry**

### **code code\_value**

Specify the code value. Ranges of status codes must be separated by either hyphen (-) or comma (,).

Must be an integer.

-Or-

Must be a string.

**Usage Guidelines** Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type nssf

Configures NSSF Profile Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `profile nf-client-failure nf-type nssf`

**Usage Guidelines** Use this command to configure NSSF Failure Handling parameters. The CLI prompt changes to the NSSF Configuration mode (config-nssf).

## profile nf-client-failure nf-type nssf profile failure-handling

Configures the NSSF Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > NSSF NF Client Failure Configuration (config-nssf)

**Syntax Description** `profile failure-handling fh_template_name`

**failure-handling fh\_template\_name**

Specify name of the SEPP failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure the NSSF Failure Handling Template parameters.

## profile nf-client-failure nf-type nssf profile failure-handling service name type

Configures the NSSF Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > NSSF NF-Client Configuration (config-nssf) > Failure Handling Profile Configuration (config-failure-handling-profile\_name)

**Syntax Description** `service name type nssf_service_name_type [ responsetimeout response_timeout ]`

**responsetimeout response\_timeout**

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type nssf\_service\_name\_type**

Specify the NSSF service name type.

Must be one of the following:

- **nssf-nsselection**

**Usage Guidelines** Use this command to configure the NSSF Failure Handling parameters.

## profile nf-client-failure nf-type nssf profile failure-handling service name type message type

Configures the NSSF message type parameters.

**Command Modes** Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type)

**Syntax Description** `message type nssf_message_type`

**type nssf\_message\_type**

Specify the NSSF message type.

Must be one of the following:

- NssfNSSelectionReq

**Usage Guidelines**

Use this command to configure the NSSF message type parameters.

## profile nf-client-failure nf-type nssf profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Syntax Description</b>	<pre>status-code httpv2 { range range   range } { action action   retransmit retransmit   retransmit-interval retransmit_interval   retry retry_value }</pre> <p><b>action action</b></p> <p>Specify the action.</p> <p>Must be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>continue</b>: Specify to continue the session without any retry. The retry count configuration is invalid with this action.</li> <li>• <b>retry-and-continue</b>: Specify to retry as per the configured retry count and continue the session.</li> <li>• <b>retry-and-ignore</b>: Specify to retry as per the configured retry count and ignore the session in case all retry fails.</li> <li>• <b>retry-and-terminate</b>: Specify to retry as per the configured retry count and terminate the session in case all retry fails.</li> <li>• <b>terminate</b>: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.</li> </ul> <p><b>code code_value</b></p> <p>Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).</p> <p>Must be an integer.</p> <p>-Or-</p> <p>Must be a string.</p> <p><b>retransmit-interval retransmit_interval</b></p> <p>Specify the retransmit interval in milliseconds.</p> <p>Must be an integer.</p>

**retransmit *retransmit***

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry *retry\_value***

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

**Usage Guidelines** Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type pcf

Configures PCF Profile Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **profile nf-client-failure nf-type pcf**

**Usage Guidelines** Use this command to configure PCF Profile Failure Handling parameters. The CLI prompt changes to the PCF Configuration mode (config-pcf).

## profile nf-client-failure nf-type pcf profile failure-handling

Configures the PCF Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > PCF NF Client Failure Configuration (config-pcf)

**Syntax Description** **profile failure-handling** *fh\_template\_name*

**failure-handling *fh\_template\_name***

Specify name of the PCF failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure the PCF Failure Handling Template parameters.

## profile nf-client-failure nf-type pcf profile failure-handling service name type

Configures the PCF Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > PCF NF-Client Configuration (config-pcf) > Failure Handling Profile Configuration (config-failure-handling-*profile\_name*)

**Syntax Description** `service name type pcf_service_name_type [ responsetimeout response_timeout ]`

**responsetimeout response\_timeout**

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**pcf\_service\_name\_type**

Specify the PCF service name type.

Must be one of the following:

- npcf-am-policy-control
- npcf-bdtpolicycontrol
- npcf-eventexposure
- npcf-policyauthorization
- npcf-smpolicycontrol
- npcf-ue-policy-control

**Usage Guidelines** Use this command to configure the PCF Failure handling parameters.

## profile nf-client-failure nf-type pcf profile failure-handling service name type message type

Configures the PCF message type parameters.

**Command Modes** Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type)

**Syntax Description** `message type pcf_message_type`

**type pcf\_message\_type**

Specify the PCF message type.

Must be one of the following:

- PcfAmfPolicyControlCreate
- PcfAmfPolicyControlDelete
- PcfSmpolicycontrolCreate
- PcfSmpolicycontrolDelete



- PcfSmpolicycontrolUpdate

**Usage Guidelines**

Use this command to configure the PCF message type parameters.

## profile nf-client-failure nf-type pcf profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes**

Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes**

Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes**

Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes**

Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes**

Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes**

Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration

(config-type-service\_name\_type) > Failure Handling Message Type Configuration  
(config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Syntax Description**

```
status-code httpv2 { range range | range } { action action | retransmit retransmit
| retransmit-interval retransmit_interval | retry retry_value }
```

**action action**

Specify the action.

Must be one of the following:

- **continue**: Specify to continue the session without any retry. The retry count configuration is invalid with this action.
- **retry-and-continue**: Specify to retry as per the configured retry count and continue the session.
- **retry-and-ignore**: Specify to retry as per the configured retry count and ignore the session in case all retry fails.
- **retry-and-terminate**: Specify to retry as per the configured retry count and terminate the session in case all retry fails.
- **terminate**: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.

**code code\_value**

Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).

Must be an integer.

-Or-

Must be a string.

**retransmit-interval retransmit\_interval**

Specify the retransmit interval in milliseconds.

Must be an integer.

**retransmit retransmit**

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry *retry\_value***

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

**Usage Guidelines** Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type sepp

Configures SEPP Profile Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **profile nf-client-failure nf-type sepp**

**Usage Guidelines** Use this command to configure SEPP Failure Handling parameters. The CLI prompt changes to the SEPP Configuration mode (config-sepp).

## profile nf-client-failure nf-type sepp profile failure-handling

Configures SEPP Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > SEPP NF Client Failure Configuration (config-sepp)

**Syntax Description** **profile failure-handling *fh\_template\_name***

**failure-handling *fh\_template\_name***

Specify name of the SEPP failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure SEPP Failure Handling Template parameters.

## profile nf-client-failure nf-type sepp profile failure-handling service name type

Configures the SEPP Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > SEPP NF-Client Configuration (config-sepp) > Failure Handling Profile Configuration (config-failure-handling-*profile\_name*)

**Syntax Description** **service name type *sepp\_service\_name\_type* [ responsetimeout *response\_timeout* ]**

**responsetimeout *response\_timeout***

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type *sepp\_service\_name\_type***

Specify the SEPP service name type.

Must be one of the following:

- **nsmf-pdusession**

**Usage Guidelines** Use this command to configure the SEPP Failure Handling parameters.

## profile nf-client-failure nf-type sepp profile failure-handling service name type message type

Configures the SEPP message type parameters.

**Command Modes** Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type)

**Syntax Description** **message type** *sepp\_message\_type*

**type *sepp\_message\_type***

Specify the SEPP message type.

Must be one of the following:

- **HsmfPduSessionNotify**
- **HsmfPduSessionUpdate**
- **VsmfPduSessionCreate**
- **VsmfPduSessionRelease**
- **VsmfPduSessionUpdate**

**Usage Guidelines** Use this command to configure the SEPP message type parameters.

## profile nf-client-failure nf-type sepp profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

<b>Command Modes</b>	Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)
<b>Command Modes</b>	Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile_name) > Failure Handling Service Name Type Configuration (config-type-service_name_type) > Failure Handling Message Type Configuration (config-type-message_type_name)

**Syntax Description**

```
status-code httpv2 { range range | range } { action action | retransmit retransmit
| retransmit-interval retransmit_interval | retry retry_value }
```

**action *action***

Specify the action.

Must be one of the following:

- **continue**: Specify to continue the session without any retry. The retry count configuration is invalid with this action.
- **retry-and-continue**: Specify to retry as per the configured retry count and continue the session.
- **retry-and-ignore**: Specify to retry as per the configured retry count and ignore the session in case all retry fails.
- **retry-and-terminate**: Specify to retry as per the configured retry count and terminate the session in case all retry fails.
- **terminate**: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.

**code *code\_value***

Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).

Must be an integer.

-Or-

Must be a string.

**retransmit-interval *retransmit\_interval***

Specify the retransmit interval in milliseconds.

Must be an integer.

**retransmit *retransmit***

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry *retry\_value***

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

**Usage Guidelines**

Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type smf

Configures SMF Profile Failure Handling parameters.

<b>Command Modes</b>	Exec > Global Configuration (config)
<b>Syntax Description</b>	<b>profile nf-client-failure nf-type smf</b>
<b>Usage Guidelines</b>	Use this command to configure SMF Profile Failure Handling parameters. The CLI prompt changes to the SMF Configuration mode (config-smf).

## profile nf-client-failure nf-type smf profile failure-handling

Configures the SMF Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > SMF NF Client Failure Configuration (config-smf)

**Syntax Description** **profile failure-handling** *fh\_template\_name*

***fh\_template\_name***

Specify name of the SMF failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure the SMF Failure Handling Template parameters.

## profile nf-client-failure nf-type smf profile failure-handling service name type

Configures the SMF Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > SMF NF-Client Configuration (config-smf) > Failure Handling Profile Configuration (config-failure-handling-*profile\_name*)

**Syntax Description** **service name type** *smf\_service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** ***response\_timeout***

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**type** ***smf\_service\_name\_type***

Specify the SMF service name type.

Must be one of the following:

- **nsmf-pdusession**

**Usage Guidelines** Use this command to configure the SMF Failure Handling parameters.

## profile nf-client-failure nf-type smf profile failure-handling service name type message type

Configures the SMF message type parameters.

**Command Modes** Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*)

**Syntax Description** **message type** *smf\_message\_type*

**type** *smf\_message\_type*

Specify the SMF message type.

Must be one of the following:

- **SmfN1N2MsgTxfrFailureNotification**
- **SmfSmContextCreate**
- **SmfSmContextDelete**
- **SmfSmContextRetrieve**
- **SmfSmContextUpdate**

**Usage Guidelines** Use this command to configure the SMF message type parameters.

## profile nf-client-failure nf-type smf profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes** Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration (config-type-*service\_name\_type*) > Failure Handling Message Type Configuration (config-type-*message\_type\_name*)

**Command Modes** Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-*profile\_name*) > Failure Handling Service Name Type Configuration



(config-type-service\_name\_type) > Failure Handling Message Type Configuration  
(config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Syntax Description**

```
status-code httpv2 { range range | range } { action action | retransmit retransmit
| retransmit-interval retransmit_interval | retry retry_value }
```

**action action**

Specify the action.

Must be one of the following:

- **continue**: Specify to continue the session without any retry. The retry count configuration is invalid with this action.
- **retry-and-continue**: Specify to retry as per the configured retry count and continue the session.

- **retry-and-ignore**: Specify to retry as per the configured retry count and ignore the session in case all retry fails.
- **retry-and-terminate**: Specify to retry as per the configured retry count and terminate the session in case all retry fails.
- **terminate**: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.

**code** *code\_value*

Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).

Must be an integer.

-Or-

Must be a string.

**retransmit-interval** *retransmit\_interval*

Specify the retransmit interval in milliseconds.

Must be an integer.

**retransmit** *retransmit*

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry** *retry\_value*

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

**Usage Guidelines** Use this command to configure HTTPv2 status codes.

## profile nf-client-failure nf-type udm

Configures UDM Profile Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `profile nf-client-failure nf-type udm`

**Usage Guidelines** Use this command to configure UDM Profile Failure Handling parameters. The CLI prompt changes to the UDM Configuration mode (config-udm).

## profile nf-client-failure nf-type udm profile failure-handling

Configures the UDM Failure Handling Template parameters.

**Command Modes** Exec > Global Configuration (config) > UDM NF Client Failure Configuration (config-udm)

**Syntax Description** **profile failure-handling** *fh\_template\_name*

**failure-handling** *fh\_template\_name*

Specify name of the UDM failure handling template.

Must be a string.

**Usage Guidelines** Use this command to configure the UDM Failure Handling Template parameters.

## profile nf-client-failure nf-type udm profile failure-handling service name type

Configures UDM Failure Handling parameters.

**Command Modes** Exec > Global Configuration (config) > UDM NF-Client Configuration (config-udm) > Failure Handling Profile Configuration (config-failure-handling-*profile\_name*)

**Syntax Description** **service name type** *udm\_service\_name\_type* [ **responsetimeout** *response\_timeout* ]

**responsetimeout** *response\_timeout*

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

**udm\_service\_name\_type**

Specify the UDM service name type.

Must be one of the following:

- **nudm-ee**
- **nudm-pp**
- **nudm-sdm**
- **nudm-ueau**
- **nudm-uecm**

**Usage Guidelines** Use this command to configure the UDM Failure Handling parameters.

## profile nf-client-failure nf-type udm profile failure-handling service name type message type

Configures the UDM message type parameters.

**Command Modes** Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type)

**Syntax Description** **message type** *udm\_message\_type*

**type** *udm\_message\_type*

Specify the UDM message type.

Must be one of the following:

- **UdmDeRegistrationReq**
- **UdmRegistrationReq**
- **UdmSdmGetUESMSSubscriptionData**
- **UdmSdmSubscribeToNotification**
- **UdmSdmUnsubscribeToNotification**
- **UdmSubscriptionReq**
- **UdmUecmRegisterSMF**
- **UdmUecmUnregisterSMF**
- **UdmUnSubscriptionReq**

**Usage Guidelines** Use this command to configure the UDM message type parameters.

## profile nf-client-failure nf-type udm profile failure-handling service name type message type status-code httpv2

Configures HTTPv2 status codes. This command is common to multiple NF clients, and is available in the following configuration modes.

**Command Modes** Exec > Global Configuration (config) > AMF NF Client Configuration (config-amf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes** Exec > Global Configuration (config) > AUSF NF Client Configuration (config-ausf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration

(config-type-service\_name\_type) > Failure Handling Message Type Configuration  
(config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > CHF NF Client Configuration (config-chf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > EIR NF Client Configuration (config-eir) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NRF NF Client Configuration (config-nrf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > NSSF NF Client Configuration (config-nssf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > PCF NF Client Configuration (config-pcf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > SEPP NF Client Configuration (config-sepp) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > SMF NF Client Configuration (config-smf) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Command Modes**

Exec > Global Configuration (config) > UDM NF Client Configuration (config-udm) > Failure Handling Configuration (config-failure-handling-profile\_name) > Failure Handling Service Name Type Configuration (config-type-service\_name\_type) > Failure Handling Message Type Configuration (config-type-message\_type\_name)

**Syntax Description**

**status-code httpv2** { **range** range | range } { **action** action | **retransmit** retransmit | **retransmit-interval** retransmit\_interval | **retry** retry\_value }

**action action**

Specify the action.

Must be one of the following:

- **continue**: Specify to continue the session without any retry. The retry count configuration is invalid with this action.
- **retry-and-continue**: Specify to retry as per the configured retry count and continue the session.
- **retry-and-ignore**: Specify to retry as per the configured retry count and ignore the session in case all retry fails.
- **retry-and-terminate**: Specify to retry as per the configured retry count and terminate the session in case all retry fails.
- **terminate**: Specify to terminate the session without any retry. Retry count configuration is invalid with this action.

**code *code\_value***

Specify the code, or a range of status codes separated by either - (hyphen) or , (comma).

Must be an integer.

-Or-

Must be a string.

**retransmit-interval *retransmit\_interval***

Specify the retransmit interval in milliseconds.

Must be an integer.

**retransmit *retransmit***

Specify the retransmit value.

Must be an integer in the range of 1-10.

**retry *retry\_value***

Specify the number of times the NF service must retry before proceeding with the action.

Must be an integer in the range of 1-10.

---

**Usage Guidelines** Use this command to configure HTTPv2 status codes.

## profile nf-pair nf-type

Configures the NF client pair type parameter.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `profile nf-pair nf-type nf_type [ [ limit max_discovery_profiles ] [ max-payload-size max_payload_size ] [ nrf-discovery-group group_name ] ]`

**limit *max\_discovery\_profiles***

Specify the maximum number of discovery profiles that NRF can send.

Must be an integer in the range of 1-1000.

Default Value: 10.

**max-payload-size *max\_payload\_size***

Specify the maximum payload size of the discovery response.

Must be an integer in the range of 124-2000.

Default Value: 124.

**nf-type *nf\_type***

Specify the NF client pair type.

Must be one of the following:

- **5G\_EIR**
- **AF**
- **AMF**
- **AUSF**
- **BSF**
- **CHF**
- **GMLC**
- **LMF**
- **N3IWF**
- **NEF**
- **NRF**
- **NSSF**
- **NWDAF**
- **PCF**
- **SEPP**
- **SMF**
- **SMSF**
- **UDM**
- **UDR**
- **UDSF**
- **UPF**

**nrf-discovery-group** *group\_name*

Specify name of the NRF discovery group.

Must be a string.

**Usage Guidelines** Configures NF client pair parameters. Use this command to configure the NF client pair type parameter.

## profile nf-pair nf-type cache invalidation true

Configures the invalidation cache for "true" case.

**Command Modes** Exec > Global Configuration (config) > NF Type Configuration (config-nf-type-*nf\_type*)

**Syntax Description** `cache invalidation { false | true [ timeout timeout_duration ] }`

**timeout** *timeout\_duration*

Specify the invalidation cache timeout duration in milliseconds.

Must be an integer.

Default Value: 0.

**true**

True condition.

**Usage Guidelines** Use this command to configure the true case parameters for invalidation cache.

## profile nf-pair nf-type locality

Configures client locality parameter.

**Command Modes** Exec > Global Configuration (config) > NF Type Configuration (config-nf-type-*nf\_type*)

**Syntax Description** `locality { client locality_name | geo-server locality_name | preferred-server locality_name }`

**client** *locality\_name*

Specify the Client Locality information.

Must be a string.

**geo-server** *locality\_name*

Specify the Geo Service Locality information.

Must be a string.



**preferred-server locality\_name**

Specify the preferred server locality information.

Must be a string.

**Usage Guidelines**

Use this command to configure the client locality parameter.

## profile nf-pair nf-type nrf-auth-group nrf-discovery-group

Configures the AMF ID (**nrf-auth-group nrf-discovery-group** in the **nf-pair**) to specify `auth-groups` containing the NRF endpoint details for each NF type.

**Command Modes**

Exec > Global Configuration (`config`) > AMF Configuration (`config-amf amf_name`) > NF Profile Name Configuration (`config-nf-profile-nf nf_profile_name`) > NF Profile Type Configuration (`config-nf-type-profile profile_type_name`) > nrf-auth-group > nrf-discovery-group

**Syntax Description**

```
profile nf-pair nf-type nf_type_name
  nrf-auth-group nrf_auth_group_name
  nrf-discovery-group nrf_discovery_group_name
  locality client client_name
  locality preferred-server server_name
  locality geo-server geo_server_name
  cache invalidation { true | false } timeout timeout_number
```

**profile nf-pair nf-type nf\_type\_name**

Specify the `nf-type` under the `nf-pair` in the profile name to authenticate. Must be a string.

**nrf-auth-group nrf\_auth\_group\_name**

Specify the `nrf-auth-group` name.

**nrf-discovery-group nrf\_discovery\_group\_name**

Specify the `nrf-discovery-group` name.

**locality client client\_name**

Specify the client name in the locality details.

**locality preferred-server server\_name**

Specify the `preferred-server` or client name in the locality details.

**locality geo-server geo\_server\_name**

Specify the `geo-server` name in the locality details.

**cache invalidation { true | false } timeout timeout\_number**

Enable the cache invalidation configuration. The default value is false.

**Usage Guidelines** Use this command, when the **nrf-discovery-group** under the **nrf-auth-group**, as `auth-groups` containing the NRF endpoint details for each NF type is specified, when you want to enable **nf-pair**.

## quit

Exits the management session.

**Command Modes** Exec

**Syntax Description** `quit`

**Usage Guidelines** Use this command to exit the management session.

## reconcile

Reconciles the IPAM data with the CDL records pod resource parameter.

**Command Modes** Exec

**Syntax Description** `reconcile ipam ipam`

**ipam ipam**

Specify to initiate the reconcile operation.

**Usage Guidelines** Use this command to reconcile the IPAM data with the CDL records pod resource parameter.

## resource pod

Configures Pod resource parameter.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** `resource pod_type`

**resource pod\_type**

Specify the pod type.

**Usage Guidelines** Use this command to configure Pod resource parameter. The CLI prompt changes to the Pod Resource Configuration mode (`config-resource-<pod_type>`).

## resource pod cpu

Configures CPU resource request parameter.

---

**Command Modes** Exec > Global Configuration (config) > Pod Resource Configuration (config-resource-*pod\_type*)

---

**Syntax Description** **cpu request** *cpu\_resource\_request*

**request** *cpu\_resource\_request*

Specify the CPU resource request in millicores.

Must be an integer in the range of 100-1000000.

---

**Usage Guidelines** Use this command to configure CPU resource request parameter.

## resource pod labels

Configures K8 Node Affinity label configuration.

---

**Command Modes** Exec > Global Configuration (config) > Pod Resource Configuration (config-resource-*pod\_type*)

---

**Syntax Description** **labels key** *label\_key* **value** *label\_value*

**key** *label\_key*

Specify the key for the label.

Must be a string.

**value** *label\_value*

Specify the value for the label.

Must be a string.

---

**Usage Guidelines** Use this command to configure K8 Node affinity label configuration.

## resource pod memory

Configures memory resource request parameter.

---

**Command Modes** Exec > Global Configuration (config) > Pod Resource Configuration (config-resource-*pod\_type*)

---

**Syntax Description** **memory request** *memory\_resource\_request*

**request** *memory\_resource\_request*

Specify the memory resource request in megabytes.

Must be an integer in the range of 100-200000.

---

**Usage Guidelines** Use this command to configure memory resource request parameter.

## resources

Displays resources information.

---

**Command Modes** Exec

---

**Syntax Description** `show resources`

---

**Usage Guidelines** Use this command to view resources information.

## resources info

Displays resource information.

---

**Command Modes** Exec

---

**Syntax Description** `show resources [ info ]`

---

**Usage Guidelines** Use this command to view information about the configured resources.

## router bfd instance instance-id

Configures Multi-Hop BFD configuration.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `router bfd instance instance-id instance_id`

**instance-id** *instance\_id*

Specify the instance ID.

---

**Usage Guidelines** Use this command to configure Multi-Hop BFD configuration. The CLI prompt changes to the Instance Configuration mode (config-instance-id-<instance\_id>).

## router bfd instance instance-id interface-list

Configures monitor interface list configuration.

---

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*)

---

**Syntax Description** `interface interface_to_monitor [ gateway-ip gateway_ip_address ]`

**gateway-ip** *gateway\_ip\_address*

Specify IP address of the gateway.

Must be a string.

**interface *interface\_to\_monitor***

Specify the interface to monitor.

Must be a string.

**Usage Guidelines** Use this command to configure monitor interface list configuration.

## router bfd instance instance-id interface-list neighbors

Configures monitor interface list neighbor configuration parameters.

**Command Modes** Exec > Global Configuration (config) > Instance Configuration (config-instance-id-*instance\_id*)

**Syntax Description** **neighbor** *neighbor\_ip\_address*

**neighbor *neighbor\_ip\_address***

Specify IP address of the neighbor.

Must be a string.

**Usage Guidelines** Use this command to configure monitor interface list neighbor configuration parameters.

## router bgplist

Configures BGP speaker configuration.

**Command Modes** Exec > Global Configuration (config)

**Syntax Description** **router bgp** *bgp* [ **learnDefaultRoute** { **false** | **true** } | **loopbackBFDPort** *bfd\_local\_port\_number* | **loopbackPort** *bgp\_local\_port\_number* ]

**bgp *bgp***

Specify the BGP.

Must be an integer.

**learnDefaultRoute { false | true }**

Specify whether to enable or disable learning default route and adding it in kernel space.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**loopbackBFDPort *bfd\_local\_port\_number***

Specify the BFD local port number.

Must be an integer.

Default Value: 3784.

**loopbackPort *bgp\_local\_port\_number***

Specify the BGP local port number.

Must be an integer.

Default Value: 179.

**Usage Guidelines** Use this command to configure the BGP speaker configuration.

## router bgplist bfd

Configures BFD configuration.

**Command Modes** Exec > Global Configuration (config) > Router Configuration (config-router-router)

**Syntax Description** `bfd { interval bfd_interval | min_rx bfd_min_rx | multiplier bfd_interval_multiplier }`

**interval *bfd\_interval***

Specify, in microseconds, the BFD interval.

Must be an integer.

Default Value: 250000.

**min\_rx *bfd\_min\_rx***

Specify, in microseconds, the BFD minimum RX.

Must be an integer.

Default Value: 250000.

**multiplier *bfd\_interval\_multiplier***

Specify the BFD interval multiplier.

Must be an integer.

Default Value: 3.

**Usage Guidelines** Use this command to configure the BFD configuration.

## router bgplist interfaceList

Configures bonding interface configuration.

**Command Modes** Exec > Global Configuration (config) > Router Configuration (config-router-router)

**Syntax Description** **interface** *bgp\_local\_interface*

**interface** *bgp\_local\_interface*

Specify the BGP local interface.

Must be a string.

**Usage Guidelines** Use this command to configure the bonding interface configuration.

## router bgplist interfaceList bondingInterfaces

Configures bonding interface configuration.

**Command Modes** Exec > Global Configuration (config) > Router Configuration (config-router-router) > Router Interface Configuration (config-router-interface)

**Syntax Description** **bondingInterface** *linked\_bonding\_interface*

**bondingInterface** *linked\_bonding\_interface*

Specify the linked bonding interface.

Must be a string.

**Usage Guidelines** Use this command to configure the bonding interface configuration.

## router bgplist interfaceList neighbors

Configures neighbor parameters.

**Command Modes** Exec > Global Configuration (config) > Router Configuration (config-router-router) > Router Interface Configuration (config-router-interface)

**Syntax Description** **neighbor** *neighbor\_ip\_address* [ **fail-over** *failover\_type* | **remote-as** *remote\_as\_number* ]

**fail-over** *failover\_type*

Specify the failover type.

Must be one of the following:

- **bfd**

**neighbor *neighbor\_ip\_address***

Specify the IP address of the neighbor.

Must be a string.

**remote-as *remote\_as\_number***

Specify the Autonomous System (AS) number of the BGP neighbor.

Must be an integer.

Default Value: 65000.

**Usage Guidelines** Use this command to configure the neighbor parameters.

## router bgplist policies

Configures policy parameters.

**Command Modes** Exec > Global Configuration (config) > Router Configuration (config-router-router)

**Syntax Description** `policy-name policy_name [ as-path-set as_path_set | gateWay gateway_address | interface interface | ip-prefix ip_prefix | isStaticRoute { false | true } | mask-range mask_range | modifySourceIp { false | true } ]`

**as-path-set *as\_path\_set***

Specify the Autonomous System (AS) path set.

Must be a string.

**gateWay *gateway\_address***

Specify the gateway address.

Must be a string.

**interface *interface***

Specify the interface to set as source ip.

Must be a string.

**ip-prefix *ip\_prefix***

Specify the IP prefix.

Must be a string.

**isStaticRoute { **false** | **true** }**

Specify whether to enable or disable adding static route into kernel space.



Must be one of the following:

- **false**
- **true**

Default Value: false.

**mask-range** *mask\_range*

Specify the mask range.

Must be a string.

**modifySourceIp** { **false** | **true** }

Specify whether to enable or disable modifying source IP of incoming route.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**policy-name** *policy\_name*

Specify name of the policy.

Must be a string.

**source-prefix** *source\_ip\_prefix*

Specify the source IP prefix.

Must be a string.

---

**Usage Guidelines** Use this command to configure the policy parameters.

## router monitor-interface interface-list

Configures monitor interface list configuration.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **router monitor-interface interface** *interface\_to\_monitor* **linked-interface** *linked\_interface\_to\_monitor*

**interface** *interface\_to\_monitor*

Specify the interface to monitor.

Must be a string.

**linked-interface *linked\_interface\_to\_monitor***

Specify the linked interface to monitor.

Must be a string.

**Usage Guidelines** Use this command to configure monitor interface list configuration.

## rpc

Displays RPC information.

**Command Modes** Exec

**Syntax Description** `show rpc`

**Usage Guidelines** Use this command to view RPC information.

## rpc all

Displays RPC configuration information.

**Command Modes** Exec

**Syntax Description** `show rpc [ all ]`

**Usage Guidelines** Use this command to view RPC configuration information for all RPCs.

## running-status

Displays system running status information.

**Command Modes** Exec

**Syntax Description** `show running-status`

**Usage Guidelines** Use this command to view system running status information.

## running-status info

Displays the system's current status information.

**Command Modes** Exec

**Syntax Description** `show running-status [ info ]`

---

**Usage Guidelines** Use this command to view the system's current status information.

## screen-length

Configures the number of rows of text that the terminal screen displays.

---

**Command Modes** Exec

---

**Syntax Description** **screen-length** *number\_of\_rows*

***number\_of\_rows***

Specify the number of rows.

Must be an integer.

---

**Usage Guidelines** Use this command to configure the number of rows that the terminal screen displays.

## screen-width

Configures the number of columns that the terminal screen displays.

---

**Command Modes** Exec

---

**Syntax Description** **screen-width** *number\_of\_columns*

***number\_of\_columns***

Specify the number of columns.

Must be an integer.

---

**Usage Guidelines** Use this command to configure the number of columns that the terminal screen displays.

## search

Search subscriber by SUPI.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **search subscriber supi** *supi\_info* **detailed { false | true }**

---

**Usage Guidelines** Use this command to search subscriber by SUPI.

## search

Search the subscriber by SUPI.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<pre><b>search subscriber [ detailed { false   true }   supi <i>supi</i> ]</b></pre> <p><b>subscriber detailed { false   true }</b> Specify whether you want detailed subscriber information. Must be "false" or "true".</p> <p><b>supi <i>supi</i></b> Specify the SUPI. Must be a string.</p>
<b>Usage Guidelines</b>	Use this command to search subscriber by SUPI.

## send

Sends messages to the terminal of a specific user or all users.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<pre><b>send <i>user message</i></b></pre> <p><b><i>user</i></b> Specify the user from whom the message must be sent. Must be a string. Must be one of the following:</p> <ul style="list-style-type: none"> <li>• admin</li> <li>• confd-api-manager</li> <li>• confd-message-manager</li> </ul> <p><b><i>message</i></b> Specify the message that must be sent. Must be a string.</p>
<b>Usage Guidelines</b>	Use this command to send messages to the terminal of a specific user or to all users.

## sessions

Displays pending session commits in the database.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<b>show sessions</b>
<b>Usage Guidelines</b>	Use this command to view pending session commits in the database.

## sessions affinity

Displays the affinity count per instance.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<b>show sessions affinity</b>
<b>Usage Guidelines</b>	Use this command to view the affinity count per instance.

## sessions commit-pending

Displays all pending session commits.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<b>show sessions commit-pending</b>
<b>Usage Guidelines</b>	Use this command to view all pending session commits.

## show

Displays the system information.

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<b>show</b> <i>system_component</i>  <b><i>system_component</i></b> Specify the component to view the information. Must be a string. Select from the possible completion options.
<b>Usage Guidelines</b>	Use this command to view the system information.

## show bfd-neighbor

Displays BFD status of neighbors.

---

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<code>show bfd-neighbor [ ip ip_address ]</code>  <b>ip ip_address</b> Specify the IP address of the neighbor. Must be a string.
<b>Usage Guidelines</b>	Use this command to view BFD status of neighbors.

## show bgp-global

Displays BGP global configuration.

---

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<code>show bgp-global</code>
<b>Usage Guidelines</b>	Use this command to view BGP global configuration.

## show bgp-kernel-route

Displays BGP kernel-configured routes.

---

<b>Command Modes</b>	Exec
<b>Syntax Description</b>	<code>show bgp-kernel-route [ application { false   true } ]</code>  <b>application { false   true }</b> Specify whether to display application added routes. Must be one of the following: <ul style="list-style-type: none"><li>• <b>false</b></li><li>• <b>true</b></li></ul> Default Value: false.
<b>Usage Guidelines</b>	Use this command to view BGP kernel-configured routes.

## show bgp-neighbors

Displays BGP neighbor's status.

---

<b>Command Modes</b>	Exec
----------------------	------

---

**Syntax Description**    **show bgp-neighbors [ ip ip\_address ]**

**ip ip\_address**

Specify the IP address of the neighbor.

Must be a string.

---

**Usage Guidelines**    Use this command to view BGP neighbor's status.

## show bgp-route-summary

Displays BGP route summary.

---

**Command Modes**    Exec

---

**Syntax Description**    **show bgp-route-summary**

---

**Usage Guidelines**    Use this command to view BGP route summary.

## show bgp-routes

Displays BGP routes information.

---

**Command Modes**    Exec

---

**Syntax Description**    **show bgp-routes**

---

**Usage Guidelines**    Use this command to view BGP routes information.

## show edr

Displays EDR Transaction Procedure Event fields.

---

**Command Modes**    Exec

---

**Syntax Description**    **show edr { [ event transaction\_procedure\_event ] [ transaction-procedure transaction\_procedure ] }**

**event transaction\_procedure\_event**

Specify the transaction procedure event name/id/all.

Must be a string.

**transaction-procedure transaction\_procedure**

Specify the transaction procedure's name, ID, or all.

Must be a string.

**Usage Guidelines** Use this command to view EDR Transaction Procedure Event fields.

## show geo-maintenance-mode

Indicates whether maintenance mode is enabled or disabled.

**Command Modes** Exec

**Syntax Description** `show geo-maintenance-mode`

**Usage Guidelines** Use this command to view whether maintenance mode is enabled or disabled.

## show georeplication

Displays ETCD/Cache checksum.

**Command Modes** Exec

**Syntax Description** `show georeplication checksum instance-id instance_id`

**checksum**

Specify checksum.

**instance-id *instance\_id***

Specify the instance ID for which checksum will be displayed.

Must be a string.

**Usage Guidelines** Use this command to view ETCD/Cache checksum.

## show local-interface-status

Displays status of local interface.

**Command Modes** Exec

**Syntax Description** `show local-interface-status interface local_interface_name`

**interface *local\_interface\_name***

Specify name of the local interface.

Must be a string.



---

**Usage Guidelines** Use this command to view status of local interface.

## show role

Displays current role for the specified instance.

---

**Command Modes** Exec

---

**Syntax Description** `show role instance-id instance_id`

**instance-id *instance\_id***

Specify the instance ID for which role must be displayed.

---

**Usage Guidelines** Use this command to view current role for the specified instance.

## show subscriber

Displays subscriber information.

---

**Command Modes** Exec

---

**Syntax Description** `show subscriber { all | supi supi_id }`

**all**

Specify all SUPIs or IMEIs.

**count *session\_count***

Specify the sessions count.

Must be one of the following:

- **count**

**gr-instance *gr\_instance***

Specify the network function service under which to search.

**imei *imei\_id***

Specify the International Mobile Equipment Identity.

Must be a string of 15-16 characters.

**namespace *namespace***

NOTE: This keyword is deprecated, use nf-service instead. Specify the product namespace under which to search.

Default Value: cisco-mobile-infra:none.

**nf-service *nf\_service***

Specify the network function service under which to search.

Default Value: cisco-mobile-infra:none.

**supi *supi\_id***

Specify the subscriber's SUPI ID.

Must be a string.

**Usage Guidelines**

Use this command to view summary and detailed subscriber information for all subscribers or specific subscribers based on SUPI, IMEI, or all.

## show subscriber ran-opt

Displays and clears subscriber data based on specified criteria.

**Command Modes**

Exec

**Syntax Description**

```
{ clear | show } subscriber gnodeb-id gnodeb_id mnc mobile_network_code mcc
mobile_country_code
```

**gnodeb-id *gnodeb\_id***

Specify the gnodeb-id.

Must be an integer in the range of 0-4294967295.

**mnc *mobile\_country\_code***

Specify the mobile country code.

Must be a string in the two-or-three-digit pattern. For information on the two-or-three-digit pattern, see the Input Pattern Types section.

**mnc *mobile\_network\_code***

Specify the mobile network code.

Must be a string in the two-or-three-digit pattern. For information on the two-or-three-digit pattern, see the Input Pattern Types section.

**Usage Guidelines**

Use this command to view and to clear subscriber data based on specified criteria.

## show-defaults

Configures whether to display default values when showing the configuration.

---

**Command Modes** Exec

---

**Syntax Description** `show-defaults { false | true }`

**show-defaults { false | true }**

Specify whether to display or hide the default values. To hide select false, to display select true.

Must be either "false" or "true".

---

**Usage Guidelines** Use this command to view default values when viewing the configuration commands.

## slice-group

Configures slice group parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `slice-group slice_group_name`

**slice\_group\_name**

Specify name of the slice group.

Must be a string.

---

**Usage Guidelines** Use this command to configure slice group parameters. The CLI prompt changes to the Slice Group Configuration mode (config-slice-group-<group\_name>).

## slice-group slices

Configures slice parameters.

---

**Command Modes** Exec > Global Configuration (config) > Slice Group Configuration (config-slice-group-group\_name)

---

**Syntax Description** `slices name slice_name [ [ sst slice_service_type ] [ sdt slice_differentiator_type ] ]`

**name slice\_name**

Specify name of the slice.

Must be a string.

**sdt slice\_differentiator\_type**

Specify the Slice Differentiator Type (SDT).

Must be a string in the octet-string24 pattern. For information on the octet-string24 pattern, see the Input Pattern Types section.

**sst slice\_service\_type**

Specify the Slice Service Type (SST).

Must be an integer in the range of 0-255.

**Usage Guidelines**

Use this command to configure slice parameters.

# smiuser

Configures the Subscriber Microservices Infrastructure (SMI) user account parameters.

**Command Modes**

Exec

**Syntax Description**

```
smiuser add-group groupname group_name
smiuser add-user { username username | password password }
smiuser assign-user-group { groupname group_name | username username }
smiuser change-password { username username | current_password current_password
| new_password new_password | confirm_password new_password |
password_expire_days expire_days }
smiuser change-password-age { password_expire_days expire_days | username
username }
smiuser change-self-password { current_password current_password | new_password
new_password | confirm_password new_password | password_expire_days expire_days
}
smiuser delete-group groupname group_name
smiuser delete-user username username
smiuser show-user username username
smiuser unassign-user-group { username username | groupname group_name }
smiuser update-password-length length password_length
```

**groupname group\_name**

Specify the group name in PAM.

Must be a string.

**username username**

Specify the username in PAM.

Must be a string.

**password password**

Specify the user password.

Must be a string.

**current\_password** *current\_password*

Specify the current password.

Must be a string.

**new\_password** *new\_password*

Specify the new password.

Must be a string.

**confirm\_password** *new\_password*

Confirm the new password.

Must be a string.

**password\_expire\_days** *expire\_days*

Specify the number of days before the password expires.

Must be an integer.

**length** *password\_length*

Specify the minimum password length.

Must be an integer.

**Usage Guidelines**

Use this command to configure the SMI user parameters.

## system

Configures the NF's system operations.

**Command Modes**

Exec

**Syntax Description**

```
system { ops-center stop | ops-center-debug { start | stop } | synch { start | stop } | upgrade | uuid-override new-uuid uuid_value }
```

**ops-center stop**

Stops the operations center diagnostics.

**ops-center debug** { **start** | **stop** }

Starts or stops operations center debugging.

**synch** { **start** | **stop** }

Starts or stops the automatic synching of configuration,

**upgrade**

Initiates the upgrade of a product.

**uuid-override new-uuid *uuid\_value***

Change the Universally Unique Identifier (UUID) to a new value.

Must be a string.

---

**Usage Guidelines** Use this command to display the NF's system operations.

## tai-group

Configures Tracking Area Identity (TAI) group parameters.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **tai-group name** *tai\_group\_name* **slice-group** *slice\_group\_name*

**name *tai\_group\_name***

Specify name of the TAI group.

Must be a string.

**slice-group *slice\_group\_name***

Specify name of the slice group.

---

**Usage Guidelines** Use this command to configure TAI group parameters.

## tai-group tais

Configures Tracking Area Identity (TAI).

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** **tai-group name** *tai\_group\_name* **tais name** *tai\_name* [ **ims-voice-over-ps-supported** { **false** | **true** } | **slice-group** *slice\_group\_name* ]

**ims-voice-over-ps-supported { false | true }**

Specify whether IMS Voice Over PS is supported or not supported.

Must be one of the following:

- **false**
- **true**

Default Value: false.

**slice-group *slice\_group\_name***

Specify name of the slice group.

**tais name *tai\_name***

Specify name of the TAI.

Must be a string.

---

**Usage Guidelines** Use this command to configure TAIs. A TAI is composed of MCC, MNC, and possible TACs.

## tai-group tais tailist

Configures TAI list.

---

**Command Modes** Exec > Global Configuration (config) > TAI Group Configuration (config-tai-group-*tai\_group\_name*) > TAIS List Configuration (config-tais-*tai\_name*)

---

**Syntax Description** **mcc** *mobile\_country\_code* **mnc** *mobile\_network\_code*

**mcc *mobile\_country\_code***

Specify the mobile country code. For example, 123.

Must be a string in the three-digit pattern. For information on the three-digit pattern, see the Input Pattern Types section.

**mnc *mobile\_network\_code***

Specify the two- or three-digit mobile network code. For example, 23, 456.

Must be a string in the two-or-three-digit pattern. For information on the two-or-three-digit pattern, see the Input Pattern Types section.

---

**Usage Guidelines** Use this command to configure the TAI list.

You can configure a maximum of 16 elements with this command.

## tai-group tais tailist tac

Configures TAI group TAC values.

---

**Command Modes** Exec > Global Configuration (config) > TAI Group Configuration (config-tai-group-*tai\_group\_name*) > TAIS List Configuration (config-tais-*tai\_name*)

---

**Syntax Description** **tac list** *list\_of\_tac\_values*

**list *list\_of\_tac\_values***

Specify the list of TAC values.

Must be an integer in the range of 0-65535.

You can configure a maximum of 16 elements with this keyword.

**Usage Guidelines** Use this command to configure TAI group TAC values.

## tai-group tais tailist tac range

Configures the TAC range.

**Command Modes** Exec > Global Configuration (config) > TAI Group Configuration (config-tai-group-*tai\_group\_name*) > TAIS List Configuration (config-tais-*tai\_name*)

**Syntax Description** **range start** *tac\_range\_start* **end** *tac\_range\_end*

**end** *tac\_range\_end*

Specify the end value of the TAC range. Must be greater than the start value.

Must be an integer in the range of 0-65535.

**start** *tac\_range\_start*

Specify the start value of the TAC range. Must be lesser than the end value.

Must be an integer in the range of 0-65535.

**Usage Guidelines** Use this command to configure the TAC range.  
You can configure a maximum of 16 elements with this command.

## terminal

Configures the terminal parameters.

**Command Modes** Exec

**Syntax Description** **terminal** *terminal\_type*

**terminal\_type**

Specify the terminal type.

Must be one of the following:

- ansi
- generic
- linux
- vt100
- xterm



---

**Usage Guidelines** Use this command to configure the terminal parameters.

## timestamp

Configures the timestamp parameters.

---

**Command Modes** Exec

---

**Syntax Description** `timestamp { enable | disable }`

`timestamp { enable | disable }`

Specify the configuration to enable or disable the timestamp display.

---

**Usage Guidelines** Use this command to configure the timestamp capability.

## tracing

Configures debug settings for AMF NGAP endpoint.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `tracing enable-trace-percent tracing_percentage append-messages { false | true }`

`append-messages { false | true }`

Specify to enable or disable appending messages.

Must be one of the following:

- `false`
- `true`

Default Value: true.

`enable-trace-percent tracing_percentage`

Specify the tracing percentage.

Must be an integer in the range of 0-100.

Default Value: 100.

---

**Usage Guidelines** Use this command to configure debug settings for the AMF NGAP endpoint.

## tracing endpoint

Configures tracing endpoint.

---

**Command Modes** Exec > Global Configuration (config)

---

**Syntax Description** `tracing endpoint host host_name port port_number`

**host *host\_name***

Specify the host name.

Must be a string.

Default Value: jaeger-collector.

**port *port\_number***

Specify the port number.

Must be an integer.

Default Value: 9411.

---

**Usage Guidelines** Use this command to configure tracing endpoint.

## who

Displays information on currently logged on users.

---

**Command Modes** Exec

---

**Syntax Description** `who`

---

**Usage Guidelines** Use this command to view information on currently logged on users. The command output displays the Session, User, Context, From, Protocol, Date, and Mode information.



## CHAPTER 2

# Input Pattern Types

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## arg-type

**Pattern:**  
`'[^\\*]*.*|..+'; // must not be single '*'`

**Pattern:**  
`'\\*'`

This statement can be used to hide a node from some, or all, northbound interfaces. All nodes with the same value are considered a hide group and are treated the same with regards to being visible or not in a northbound interface.

A node with an hidden property is not shown in the northbound user interfaces (CLI and Web UI) unless an 'unhide' operation is performed in the user interface.

The hidden value 'full' indicates that the node must be hidden from all northbound interfaces, including programmatical interfaces such as NETCONF. The value '\*' is not valid. A hide group can be unhidden only if this is explicitly allowed in the confd.conf(5) daemon configuration.

Multiple hide groups can be specified by giving this statement multiple times. The node is shown if any of the specified hide groups is given in the 'unhide' operation. If a mandatory node is hidden, a hook callback function (or similar) might be needed in order to set the element

## crypt-hash

### Pattern:

```
'$0$.*'
'|$1$[a-zA-Z0-9./]{1,8}$[a-zA-Z0-9./]{22}'
'|$5$(rounds=\d+)$?[a-zA-Z0-9./]{1,16}$[a-zA-Z0-9./]{43}'
'|$6$(rounds=\d+)$?[a-zA-Z0-9./]{1,16}$[a-zA-Z0-9./]{86}'
```

The **crypt-hash** type is used to store passwords using a hash function. The algorithms for applying the hash function and encoding the result are implemented in various UNIX systems as the function crypt(3).

A value of this type matches one of the forms:

- `$0$<clear text password>`
- `$<id>$<salt>$<password hash>`
- `$<id>$<parameter>$<salt>$<password hash>`

The '\$0\$' prefix signals that the value is clear text. When such a value is received by the server, a hash value is calculated, and the string '\$<id>\$<salt>\$' or '\$<id>\$<parameter>\$<salt>\$' is prepended to the result. This value is stored in the configuration data store.

If a value starting with '\$<id>\$', where <id> is not '0', is received, the server knows that the value already represents a hashed value, and stores it as is in the data store.

When a server needs to verify a password given by a user, it finds the stored password hash string for that user, extracts the salt, and calculates the hash with the salt and given password as input. If the calculated hash value is the same as the stored value, the password given by the client is accepted.

This type defines the following hash functions:

Id	Hash Function	Feature
1	MD5	crypt-hash-md5
5	SHA-256	crypt-hash-sha-256
6	SHA-512	crypt-hash-sha-512

The server indicates support for the different hash functions by advertising the corresponding feature.

**Reference:**

- IEEE Std 1003.1-2008 - crypt() function
- RFC 1321: The MD5 Message-Digest Algorithm
- FIPS.180-3.2008: Secure Hash Standard

## date-and-time

**Pattern:**

```
'\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?'
'(Z|[\+\-]\d{2}:\d{2})'
```

The date-and-time type is a profile of the ISO 8601 standard for representation of dates and times using the Gregorian calendar. The profile is defined by the date-time production in Section 5.6 of RFC 3339. The date-and-time type is compatible with the dateTime XML schema type with the following notable exceptions:

1. The date-and-time type does not allow negative years.
2. The date-and-time time-offset -00:00 indicates an unknown time zone (see RFC 3339) while -00:00 and +00:00 and Z all represent the same time zone in dateTime.
3. The canonical format (see below) of data-and-time values differs from the canonical format used by the dateTime XML schema type, which requires all times to be in UTC using the time-offset 'Z'.

This type is not equivalent to the DateAndTime textual convention of the SMIV2 since RFC 3339 uses a different separator between full-date and full-time and provides higher resolution of time-secfrac. The canonical format for date-and-time values with a known time zone uses a numeric time zone offset that is calculated using the device's configured known offset to UTC time.

A change of the device's offset to UTC time will cause date-and-time values to change accordingly. Such changes might happen periodically in case a server follows automatically daylight saving time (DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00.

**Reference:**

- RFC 3339: Date and Time on the Internet: Timestamps
- RFC 2579: Textual Conventions for SMIV2
- XSD-TYPES: XML Schema Part 2: Datatypes Second Edition

## domain-name

**Pattern:**

```
'((([a-zA-Z0-9_]([a-zA-Z0-9\-\_]){0,61})?[a-zA-Z0-9]\.)*'
'([a-zA-Z0-9_]([a-zA-Z0-9\-\_]){0,61})?[a-zA-Z0-9]\.?)'
'|\.'
```

The domain-name type represents a DNS domain name. The name must fully qualified whenever possible. Internet domain names are only loosely specified. Section 3.5 of RFC 1034 recommends a syntax (modified in Section 2.1 of RFC 1123). The Pattern above is intended to allow for current practice in domain name use, and some possible future expansion. It is designed to hold various types of domain names, including names used for A or AAAA records (host names) and other records, such as SRV records.

The Internet host names have a stricter syntax (described in RFC 952) than the DNS recommendations in RFCs 1034 and 1123, and that systems that want to store host names in schema nodes using the domain-name type are recommended to adhere to this stricter standard to ensure interoperability.

The encoding of DNS names in the DNS protocol is limited to 255 characters. Since the encoding consists of labels prefixed by a length bytes and there is a trailing NULL byte, only 253 characters can appear in the textual dotted notation.

The description clause of schema nodes using the domain-name type must describe when and how these names are resolved to IP addresses. The resolution of a domain-name value may require to query multiple DNS records. For example, A for IPv4 and AAAA for IPv6. The order of the resolution process and which DNS record takes precedence can either be defined explicitly or may depend on the configuration of the resolver.

Domain-name values use the US-ASCII encoding. Their canonical format uses lowercase US-ASCII characters. Internationalized domain names MUST be A-labels as per RFC 5890.

#### Reference:

- RFC 952: DoD Internet Host Table Specification
- RFC 1034: Domain Names - Concepts and Facilities
- RFC 1123: Requirements for Internet Hosts -- Application and Support
- RFC 2782: A DNS RR for specifying the location of services (DNS SRV)
- RFC 5890: Internationalized Domain Names in Applications (IDNA): Definitions and Document Framework

## dotted-quad

#### Pattern:

```
'(([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])\.){3}'
'([0-9]|[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])'
```

An unsigned 32-bit number expressed in the dotted-quad notation, that is, four octets written as decimal numbers and separated with the '.' (full stop) character.

## hex-list

#### Pattern:

```
'((([0-9a-fA-F]){2}(:([0-9a-fA-F]){2})*)?)'
```

DEPRECATED: Use yang:hex-string instead. There are no plans to remove tailf:hex-list. A list of colon-separated hexa-decimal octets, for example '4F:4C:41:71'.

The statement tailf:value-length can be used to restrict the number of octets. Using the 'length' restriction limits the number of characters in the lexical representation

## hex-string

**Pattern:**

```
' ([0-9a-fA-F] {2} (: [0-9a-fA-F] {2}) *) ? '
```

A hexadecimal string with octets represented as hex digits separated by colons. The canonical representation uses lowercase characters.

## ipv4-address

**Pattern:**

```
' ( ([0-9] | [1-9] [0-9] | 1 [0-9] [0-9] | 2 [0-4] [0-9] | 25 [0-5]) \. ) {3} '
' ([0-9] | [1-9] [0-9] | 1 [0-9] [0-9] | 2 [0-4] [0-9] | 25 [0-5]) '
' (% [\p{N} \p{L} ]+ ) ? '
```

The ipv4-address type represents an IPv4 address in dotted-quad notation. The IPv4 address may include a zone index, separated by a % sign. The zone index is used to disambiguate identical address values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used. The canonical format for the zone index is the numerical format.

## ipv4-address-and-prefix-length

**Pattern:**

```
' ( ([0-9] | [1-9] [0-9] | 1 [0-9] [0-9] | 2 [0-4] [0-9] | 25 [0-5]) \. ) {3} '
' ([0-9] | [1-9] [0-9] | 1 [0-9] [0-9] | 2 [0-4] [0-9] | 25 [0-5]) '
' / ( ([0-9] ) | ( [1-2] [0-9] ) | ( 3 [0-2] ) ) '
```

The ipv4-address-and-prefix-length type represents a combination of an IPv4 address and a prefix length. The prefix length is given by the number following the slash character and must be less than or equal to 32.

## ipv4-address-no-zone

**Pattern:**

```
' [0-9\. ] * '
```

An IPv4 address is without a zone index and derived from ipv4-address that is used in situations where the zone is known from the context and hence no zone index is needed.

## ipv4-prefix

**Pattern:**

```
' ( ([0-9] | [1-9] [0-9] | 1 [0-9] [0-9] | 2 [0-4] [0-9] | 25 [0-5]) \. ) {3} '
' ([0-9] | [1-9] [0-9] | 1 [0-9] [0-9] | 2 [0-4] [0-9] | 25 [0-5]) '
' / ( ([0-9] ) | ( [1-2] [0-9] ) | ( 3 [0-2] ) ) '
```

The ipv4-prefix type represents an IPv4 address prefix. The prefix length is given by the number following the slash character and must be less than or equal to 32.

A prefix length value of 'n' corresponds to an IP address mask that has n contiguous 1-bits from the most significant bit (MSB) and all other bits set to 0.

The canonical format of an IPv4 prefix has all bits of the IPv4 address set to zero that are not part of the IPv4 prefix.

## ipv6-address

### Pattern:

```
'((:| [0-9a-fA-F]{0,4}) : ) ([0-9a-fA-F]{0,4} : ) {0,5}'
'((( [0-9a-fA-F]{0,4} : ) ? ( : | [0-9a-fA-F]{0,4} )) | )'
'((( (25 [0-5] | 2 [0-4] [0-9] | [01] ? [0-9] ? [0-9] ) \. ) {3} | Pattern:
' (25 [0-5] | 2 [0-4] [0-9] | [01] ? [0-9] ? [0-9] )))'
' (% [\p{N} \p{L} ]+ ) ?'
```

### Pattern:

```
'([[:^:]]+ : ) {6} ([[:^:]]+ : [[:^:]]+ ) | ( . * \. . * ) ) |'
'([[:^:]]+ : ) * [[:^:]]+ : ? : ( [[:^:]]+ : ) * [[:^:]]+ : ? )'
' (% . + ) ?'
```

The ipv6-address type represents an IPv6 address in full, mixed, shortened, and shortened-mixed notation. The IPv6 address may include a zone index, separated by a % sign.

The zone index is used to disambiguate identical address values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.

The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007.

### Reference:

- RFC 4291: IP Version 6 Addressing Architecture
- RFC 4007: IPv6 Scoped Address Architecture
- RFC 5952: A Recommendation for IPv6 Address Text Representation

## ipv6-address-and-prefix-length

### Pattern:

```
'((:| [0-9a-fA-F]{0,4}) : ) ([0-9a-fA-F]{0,4} : ) {0,5}'
'((( [0-9a-fA-F]{0,4} : ) ? ( : | [0-9a-fA-F]{0,4} )) | )'
'((( (25 [0-5] | 2 [0-4] [0-9] | [01] ? [0-9] ? [0-9] ) \. ) {3} |
' (25 [0-5] | 2 [0-4] [0-9] | [01] ? [0-9] ? [0-9] )))'
' ( / ( ( [0-9] ) | ( [0-9] {2} ) | ( 1 [0-1] [0-9] ) | ( 12 [0-8] ) ) ) )'
```

### Pattern:

```
'([[:^:]]+ : ) {6} ([[:^:]]+ : [[:^:]]+ ) | ( . * \. . * ) ) |'
```



```
' ((([^:]+:)*[^:]+)? :: ((([^:]+:)*[^:]+)?) '
' (/ .+ )'
```

The `ipv6-address-and-prefix-length` type represents a combination of an IPv6 address and a prefix length. The prefix length is given by the number following the slash character and must be less than or equal to 128.

## ipv6-address-no-zone

**Pattern:**

```
' [0-9a-fA-F:\.]* '
```

An IPv6 address without a zone index. This type, derived from `ipv6-address`, may be used in situations where the zone is known from the context and hence no zone index is needed.

**Reference:**

- RFC 4291: IP Version 6 Addressing Architecture
- RFC 4007: IPv6 Scoped Address Architecture
- RFC 5952: A Recommendation for IPv6 Address Text Representation

## ipv6-prefix

**Pattern:**

```
' ((:| [0-9a-fA-F] {0,4}) : ) ( [0-9a-fA-F] {0,4} : ) {0,5} '
' ((( [0-9a-fA-F] {0,4} : ) ? ( : | [0-9a-fA-F] {0,4} ) ) | '
' (( (25 [0-5] | 2 [0-4] [0-9] | [01] ? [0-9] ? [0-9] ) \. ) {3} ' Pattern:
' (25 [0-5] | 2 [0-4] [0-9] | [01] ? [0-9] ? [0-9] ) ) ) '
' ( / ( ( [0-9] ) | ( [0-9] {2} ) | ( 1 [0-1] [0-9] ) | ( 12 [0-8] ) ) ) ) ' ;
```

**Pattern:**

```
' (( [^: ]+ : ) {6} ( ( [^: ]+ : [^: ]+ ) | ( . * \. . * ) ) ) | '
' ( ( ( [^: ]+ : ) * [^: ]+ ) ? : : ( ( [^: ]+ : ) * [^: ]+ ) ? ) '
' ( / .+ )'
```

The `ipv6-prefix` type represents an IPv6 address prefix. The prefix length is given by the number following the slash character and must be less than or equal to 128.

A prefix length value of `n` corresponds to an IP address mask that has `n` contiguous 1-bits from the most significant bit (MSB) and all other bits set to 0.

The IPv6 address should have all bits that do not belong to the prefix set to zero. The canonical format of an IPv6 prefix has all bits of the IPv6 address set to zero that are not part of the IPv6 prefix. Furthermore, the IPv6 address is represented as defined in Section 4 of RFC 5952

**Reference:**

- RFC 5952: A Recommendation for IPv6 Address Text Representation

## mac-address

**Pattern:**

```
' [0-9a-fA-F] {2} ( : [0-9a-fA-F] {2} ) {5} '
```

The mac-address type represents an IEEE 802 MAC address. The canonical representation uses lowercase characters. In the value set and its semantics, this type is equivalent to the MacAddress textual convention of the SMIPv2.

**Reference:**

- IEEE 802: IEEE Standard for Local and Metropolitan Area Networks: Overview and Architecture
- RFC 2579: Textual Conventions for SMIPv2

## object-identifier

**Pattern:**

```
' ( ([0-1] (\ . [1-3]? [0-9])) | (2 \ . (0 | ([1-9] \d*))) ) '
' (\ . (0 | ([1-9] \d*))) * '
```

The object-identifier type represents administratively assigned names in a registration-hierarchical-name tree. The values of this type are denoted as a sequence of numerical non-negative sub-identifier values. Each sub-identifier value MUST NOT exceed  $2^{32}-1$  (4294967295). The Sub-identifiers are separated by single dots and without any intermediate whitespace.

The ASN.1 standard restricts the value space of the first sub-identifier to 0, 1, or 2. Furthermore, the value space of the second sub-identifier is restricted to the range 0 to 39 if the first sub-identifier is 0 or 1. Finally, the ASN.1 standard requires that an object identifier has always at least two sub-identifiers. The pattern captures these restrictions.

Although the number of sub-identifiers is not limited, module designers should realize that there may be implementations that stick with the SMIPv2 limit of 128 sub-identifiers.

This type is a superset of the SMIPv2 OBJECT IDENTIFIER type since it is not restricted to 128 sub-identifiers. Hence, this type SHOULD NOT be used to represent the SMIPv2 OBJECT IDENTIFIER type; the object-identifier-128 type SHOULD be used instead.

**Reference:**

- ISO9834-1: Information technology - Open Systems
- Interconnection - Procedures for the operation of OSI
- Registration Authorities: General procedures and top arcs of the ASN.1 Object Identifier tree

## object-identifier-128

**Pattern:**

```
' \d* (\ . \d* ) {1,127} '
```

This type represents object-identifiers restricted to 128 sub-identifiers. In the value set and its semantics, this type is equivalent to the OBJECT IDENTIFIER type of the SMIV2.

**Reference:**

- RFC 2578: Structure of Management Information Version 2 (SMIV2)

## octet-list

**Pattern:**

```
'(\d*(.\d*)*)?'
```

A list of dot-separated octets, for example '192.168.255.1.0'. The statement tailf:value-length can be used to restrict the number of octets. Using the 'length' restriction limits the number of characters in the lexical representation.

## phys-address

**Pattern:**

```
'([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?'
```

Represents media- or physical-level addresses represented as a sequence octets, each octet represented by two hexadecimal numbers. Octets are separated by colons. The canonical representation uses lowercase characters. In the value set and its semantics, this type is equivalent to the PhysAddress textual convention of the SMIV2.

**Reference:**

- RFC 2579: Textual Conventions for SMIV2

## sha-256-digest-string

**Pattern:**

```
'$0$.*'
'|$5$(rounds=\d+)$?[a-zA-Z0-9./]{1,16}$[a-zA-Z0-9./]{43}'
```

The sha-256-digest-string type automatically computes a SHA-256 digest for a value adhering to this type. A value of this type matches one of the forms:

- \$0\$<clear text password>
- \$5\$<salt>\$<password hash>
- \$5\$rounds=<number>\$<salt>\$<password hash>

The '\$0\$' prefix signals that this is plain text. When a plain text value is received by the server, a SHA-256 digest is calculated, and the string '\$5\$<salt>\$' is prepended to the

result, where <salt> is a random 16 character salt used to generate the digest. This value is stored in the configuration data store. The algorithm can be tuned through the /confdConfig/cryptHash/rounds parameter, which if set to a number other than the default will cause '\$5\$rounds=<number>\$<salt>\$' to be prepended instead of only '\$5\$<salt>\$'.

If a value starting with '\$5\$' is received, the server knows that the value already represents a SHA-256 digest, and stores it as is in the data store.

If a default value is specified, it must have a '\$5\$' prefix.

The digest algorithm used is the same as the SHA-256 crypt function used for encrypting passwords for various UNIX systems.

**Reference:**

- IEEE Std 1003.1-2008 - crypt() function FIPS.180-3.2008: Secure Hash Standard

## sha-512-digest-string

**Pattern:**

```
'$0$.*'
'|$6$(rounds=\d+$)?[a-zA-Z0-9./]{1,16}$[a-zA-Z0-9./]{86}'
```

The sha-512-digest-string type automatically computes a SHA-512 digest for a value adhering to this type. A value of this type matches one of the forms

- \$0\$<clear text password>
- \$6\$<salt>\$<password hash>
- \$6\$rounds=<number>\$<salt>\$<password hash>

The '\$0\$' prefix signals that this is plain text. When a plain text value is received by the server, a SHA-512 digest is calculated, and the string '\$6\$<salt>\$' is prepended to the

result, where <salt> is a random 16 character salt used to generate the digest. This value is stored in the configuration data store. The algorithm can be tuned through the

/confdConfig/cryptHash/rounds parameter, which if set to a number other than the default will cause '\$6\$rounds=<number>\$<salt>\$' to be prepended instead of only '\$6\$<salt>\$'.

If a value starting with '\$6\$' is received, the server knows that the value already represents a SHA-512 digest, and stores it as is in the data store.

If a default value is specified, it must have a '\$6\$' prefix. The digest algorithm used is the same as the SHA-512 crypt function used for encrypting passwords for various UNIX systems.

**Reference:**

- IEEE Std 1003.1-2008 - crypt() function FIPS.180-3.2008: Secure Hash Standard

## size

**Pattern:**

```
'S(\d+G)?(\d+M)?(\d+K)?(\d+B)?'
```

A value that represents a number of bytes. An example could be S1G8M7K956B; meaning 1GB + 8MB + 7KB + 956B = 1082138556 bytes.

The value must start with an S. Any byte magnifier can be left out, for example, S1K1B equals 1025 bytes. The order is significant though, that is S1B56G is not a valid byte size.

In ConfD, a 'size' value is represented as an uint64.

## uuid

**Pattern:**

```
'[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-'
'[0-9a-fA-F]{4}-[0-9a-fA-F]{12}'
```

A Universally Unique IDentifier in the string representation defined in RFC 4122. The canonical representation uses lowercase characters. The following is an example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6.

**Reference:**

- RFC 4122: A Universally Unique Identifier (UUID) URN Namespace

## yang-identifier

**Pattern:**

```
'[a-zA-Z_][a-zA-Z0-9\-\_\.]*'
```

**Pattern:**

```
'\.\.\. | [^xX] .* | [^mM] .* | \.\. [^1L] .*'
```

A YANG identifier string as defined by the 'identifier' rule in Section 12 of RFC 6020. An identifier must start with an alphabetic character or an underscore followed by an arbitrary sequence of alphabetic or numeric characters, underscores, hyphens, or dots. A YANG identifier MUST NOT start with any possible combination of the lowercase or uppercase character sequence 'xml'.

**Reference:**

- RFC 6020: YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)

yang-identifier