

Cisco IMC Supervisor Release Notes, Release 2.3

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About Cisco IMC Supervisor

Cisco IMC Supervisor is a management system that allows you to manage rack-mount servers on a large scale. It allows you to create groups of rack-mount servers for monitoring and inventory purposes.

You can use Cisco IMC Supervisor to perform the following tasks:

- Logically grouping servers and viewing summary per group
- Collecting inventory for the managed servers
- Monitoring servers and groups
- Managing firmware including firmware download, upgrade, and activation
- Provide Northbound REST APIs to discover, monitor and manage servers and perform firmware upgrades programmatically.
- Managing standalone server actions including power control, LED control, log collection, KVM launch, and CIMC UI launch.
- Restricting access using Role Based Access Control (RBAC)
- Configuring email alerts
- Configuring server properties using policies and profiles
- Defining schedules to defer tasks such as firmware updates or server discovery
- Diagnosing server hardware issues using UCS Server Configuration Utility
- Cisco Smart Call Home provides proactive diagnostics, alerts, and remediation recommendations
- Managing Cisco UCS S3260 Dense Storage Rack Server
- Configuring the DNS server and other network settings through the Network Configuration policy
- Assigning physical drives to server through the Zoning policy
- Setting up multiple diagnostic images across different geographic locations
- Customizing email rules to include individual servers within a group

Revision History

Release	Date	Description
2.3	March 17, 2021	Created Release Notes for Cisco IMC Supervisor, Release 2.3.
2.3(1.0)	July 22, 2021	Added information for release 2.3(1.0). See the following sections: <ul style="list-style-type: none"> • Upgrading Cisco IMC Supervisor , on page 9 • New and Changed Features in Release 2.3(1.0), on page 17 • Open Bugs in Release 2.3(1.0), on page 19 • Resolved Bugs in Release 2.3(1.0), on page 20
2.3(2.0)	September 29, 2021	Added information for release 2.3(2.0). See the following sections: <ul style="list-style-type: none"> • Upgrading Cisco IMC Supervisor , on page 9 • New and Changed Features in Release 2.3(2.0), on page 17 • Open Bugs in Release 2.3(2.0), on page 19 • Resolved Bugs in Release 2.3(2.0), on page 20
2.3(2.1)	December 22, 2021	Added information for release 2.3(2.1). See the following sections: <ul style="list-style-type: none"> • Upgrading Cisco IMC Supervisor , on page 9 • New and Changed Features in Release 2.3(2.1), on page 17 • Open Bugs in Release 2.3(2.1), on page 19 • Resolved Bugs in Release 2.3(2.1), on page 21

Release	Date	Description
2.3(3.0)	March 14, 2022	Added information for release 2.3(3.0). See the following sections: <ul style="list-style-type: none">• Upgrading Cisco IMC Supervisor , on page 9• New and Changed Features in Release 2.3(3.0), on page 17• Open Bugs in Release 2.3(3.0), on page 19• Resolved Bugs in Release 2.3(3.0), on page 21
2.3(4.0)	July 15, 2022	Added information for release 2.3(4.0). See the following sections: <ul style="list-style-type: none">• Upgrading Cisco IMC Supervisor , on page 9• New and Changed Features in Release 2.3(4.0), on page 17• Open Bugs in Release 2.3(4.0), on page 19• Resolved Bugs in Release 2.3(4.0), on page 21
2.3(5.0)	December 2, 2022	Added information for release 2.3(5.0). See the following sections: <ul style="list-style-type: none">• Upgrading Cisco IMC Supervisor , on page 9• Open Bugs in Release 2.3(5.0), on page 19• Resolved Bugs in Release 2.3(5.0), on page 21

Release	Date	Description
2.3(6.0)	April 10, 2023	<p>Added information for release 2.3(6.0). See the following sections:</p> <ul style="list-style-type: none"> • Upgrading Cisco IMC Supervisor , on page 9 • New and Changed Features in Release 2.3(6.0), on page 18 • Open Bugs in Release 2.3(6.0), on page 19 • Resolved Bugs in Release 2.3(6.0), on page 21
2.3(7.0)	July 4, 2023	<p>Added information for release 2.3(7.0). See the following sections:</p> <ul style="list-style-type: none"> • Upgrading Cisco IMC Supervisor , on page 9 • New and Changed Features in Release 2.3(7.0), on page 18 • Open Bugs in Release 2.3(7.0), on page 20 • Resolved Bugs in Release 2.3(7.0), on page 21
2.3(8.0)	October 13, 2023	<p>Added information for release 2.3(8.0). See the following sections:</p> <ul style="list-style-type: none"> • Upgrading Cisco IMC Supervisor , on page 9 • New and Changed Features in Release 2.3(8.0), on page 18 • Open Bugs in Release 2.3(8.0), on page 20 • Resolved Bugs in Release 2.3(8.0), on page 22

Minimum System Requirements

Supported Server Models

- UCS C-220 M3, M4 and M5

- UCS C-240 M3, M4 and M5
- UCS C-460 M4
- UCS C-480 M5
- UCS C-22 M3
- UCS C-24 M3
- UCS C-420 M3
- UCS E-160S M3
- UCS C3160
- UCS S3260 M3, M4 and M5
- UCS EN120E M2
- UCS EN120S M2
- UCS EN140N M2
- UCS E-140S M2
- UCS E-160D M2
- UCS E-180D M2
- UCS E-140S M1
- UCS E-140D M1
- UCS E-160D M1
- UCS E-140DP M1
- UCS E-160DP M1
- UCS E-1120D M3
- UCS E-180D M3
- ENCS 5406
- ENCS 5408
- ENCS 5412
- HX220C-M5S
- HX220C-M4
- HX240C-M5SX
- HX240C-M4
- HXAF240C-M5SX
- HXAF220C-M5S
- HXAF240C-M4SX



Important Cisco IMC Supervisor supports up to 1000 UCS C-Series and E-Series servers. For more information about scalability, see Deployment and Scalability.

Minimum Firmware Versions

Servers	Minimum Firmware Version
UCS C-series Servers	1.5(4)
UCS E-series Servers	2.3.1
UCS S3260 Servers	2.0(13e)

Supported PCIe Cards

- Cisco UCS VIC 1225
- Cisco UCS VIC 1225T
- Cisco UCS VIC 1227
- Cisco UCS VIC 1227T
- Cisco UCS VIC 1385
- Cisco UCS VIC 1387
- Cisco UCS VIC 1455
- Cisco UCS VIC 1457

Supported Hypervisor versions

- ESXi 5.1
- ESXi 5.5
- ESXi 6.0
- ESXi 6.5
- ESXi 6.7
- ESXi 7.0
- ESXi 7.0 U3
- Windows 2008 R2 with Hyper-V Role
- Windows 2012 R2 with Hyper-V Role
- Windows 2016 with Hyper-V Role

Minimum Hardware Requirements

The Cisco IMC Supervisor environment must meet at least the minimum system requirements listed in the following table.

Element	Minimum Supported Requirement
vCPU	4
Memory	12 GB
Primary Disk (Hard Disk 1)	100 GB
Secondary Disk (Hard Disk 2)	100 GB
Minimum write speed for storage	10 MB/sec

Supported Browser Versions

Cisco IMC Supervisor supports the following browser versions:

For HTML-5

- Internet Explorer 8 or higher
- Firefox 12 or higher (PC and Apple MAC)
- Safari 6 or higher
- Google Chrome 18 or higher
- Opera 12 or higher (PC and Apple MAC)

For Classic View - all browsers must have Adobe Flash Player 11 plug-in or higher

- Internet Explorer 8 or higher
- Google Chrome 4.1 or higher
- Firefox 3.5 or higher
- Safari 4.0 or higher (for Apple Mac)



Note Starting with release 2.2(0.3), Classic View is no longer available.

Cisco IMC Supervisor Deployment and Scalability

Configuring Inframgr properties

1. Modify the following properties and values from the `/opt/infra/inframgr/service.properties` file:

- `threadpool.maxthreads.inventory=50`
- `cimc.inventory.max.thread.pool.size=100`

2. Go to Shell Admin and restart the services by stopping and starting the Cisco IMC Supervisor services.

Deployment Recommendations

Cisco IMC Supervisor recommends the following based on the scale of rack servers you manage:

Element	Small Deployment (1 - 250 rack servers)	Medium Deployment (251 - 500 rack servers)	Large Deployment (501 - 1000 rack servers)
vCPUs	4	4	8
CPU Reservation	10000 MHz	10000 MHz	10000 MHz
Cisco IMC Supervisor VM Memory Allocation	12 GB	16 GB	20 GB
Cisco IMC Supervisor VM Memory Reservation	12 GB	16 GB	20 GB
Inframgr Memory Allocation	6 GB	8 GB	10 GB
Database InnoDB BufferPool Config	1GB	2 GB	3 GB
Disk write Speed (Direct IO)	10 MB/sec	10 MB/sec	15 MB/sec

Allocating Inframgr Memory

1. Go to `/opt/infra/bin/` and open the `inframgr.env` file using `vi` editor.
2. Edit the values `MEMORY_MIN` and `MEMORY_MAX`.

For example, if you are managing 1000 rack servers then `inframgr` memory allocation must be set to 10 GB. Hence, the `MEMORY_MIN` and `MEMORY_MAX` must be set to 10240m.



Note Inframgr memory allocation must be increased only if the memory allocated to the VM is increased. If not, this process may crash due to high load. Hence, increase memory for the IMCS VM using vCenter UI, reserve the whole memory, and then change this parameter.

3. Go to Shell Admin and restart the services by stopping and starting the Cisco IMC Supervisor services.

Configuring Database Buffer Pool

InnoDB buffer pool is the internal memory used by the mariadb process inside the Cisco IMC Supervisor VM. You must increase the memory based on the load. To modify this pool size, perform the following procedure:

1. Go to `/etc/` and open the `my.cnf` file.
2. Navigate to the `innodb_buffer_pool_size` parameter.
For example, if you are managing 1000 servers, then the value must be `innodb_buffer_pool_size=3072M`.
3. Go to Shell Admin and restart the services and database by stopping and starting the Cisco IMC Supervisor services and database.

Determining Direct Disk Input/Output Speed

1. After Cisco IMC Supervisor VM is deployed, go to the command prompt and enter the `dd if=/dev/zero of=test.img bs=4096 count=256000 oflag=direct` command. The following output for example, is displayed:

```
[root@localhost ~]# dd if=/dev/zero of=test.img bs=4096 count=256000 oflag=direct
256000+0 records in
256000+0 records out
1048576000 bytes (1.0 GB) copied, 44.0809 s, 23.8 MB/s
```



Note In the above example, 23.8 MB/s is the disk input/output speed.

Upgrading Cisco IMC Supervisor

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(8.0)

- From Release 2.3(7.0) to Release 2.3(8.0)
- From Release 2.3(6.0) to Release 2.3(8.0)
- From Release 2.3(5.0) to Release 2.3(8.0)
- From Release 2.3(4.0) to Release 2.3(8.0)
- From Release 2.3(3.0) to Release 2.3(8.0)
- From Release 2.3(2.1) to Release 2.3(8.0)
- From Release 2.3(2.0) to Release 2.3(8.0)
- From Release 2.3(1.0) to Release 2.3(2.0) to Release 2.3(8.0)
- From Release 2.3(0.0) to Release 2.3(2.0) to Release 2.3(8.0)
- From Release 2.2(1.4) to Release 2.3(2.0) to Release 2.3(8.0)
- From Release 2.2(1.3) to Release 2.3(2.0) to Release 2.3(8.0)



Note From Release 2.2(1.3) or Release 2.2(1.4), you should migrate to Release 2.3(x.x).

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(7.0)

- From Release 2.3(6.0) to Release 2.3(7.0)
- From Release 2.3(5.0) to Release 2.3(7.0)
- From Release 2.3(4.0) to Release 2.3(7.0)
- From Release 2.3(3.0) to Release 2.3(7.0)
- From Release 2.3(2.1) to Release 2.3(7.0)
- From Release 2.3(2.0) to Release 2.3(7.0)
- From Release 2.3(1.0) to Release 2.3(2.0) to Release 2.3(7.0)
- From Release 2.3(0.0) to Release 2.3(2.0) to Release 2.3(7.0)
- From Release 2.2(1.4) to Release 2.3(2.0) to Release 2.3(7.0)
- From Release 2.2(1.3) to Release 2.3(2.0) to Release 2.3(7.0)



Note From Release 2.2(1.3) or Release 2.2(1.4), you should migrate to Release 2.3(x.x).

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(6.0)

- From Release 2.3(5.0) to Release 2.3(6.0)
- From Release 2.3(4.0) to Release 2.3(6.0)
- From Release 2.3(3.0) to Release 2.3(6.0)
- From Release 2.3(2.1) to Release 2.3(6.0)
- From Release 2.3(2.0) to Release 2.3(6.0)
- From Release 2.3(1.0) to Release 2.3(2.0) to Release 2.3(6.0)
- From Release 2.3(0.0) to Release 2.3(2.0) to Release 2.3(6.0)
- From Release 2.2(1.4) to Release 2.3(2.0) to Release 2.3(6.0)
- From Release 2.2(1.3) to Release 2.3(2.0) to Release 2.3(6.0)



Note From Release 2.2(1.3) or Release 2.2(1.4), you should migrate to Release 2.3(x.x).

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(5.0)

- From Release 2.3(4.0) to Release 2.3(5.0)

- From Release 2.3(3.0) to Release 2.3(5.0)
- From Release 2.3(2.1) to Release 2.3(5.0)
- From Release 2.3(2.0) to Release 2.3(5.0)
- From Release 2.3(1.0) to Release 2.3(2.0) to Release 2.3(5.0)
- From Release 2.3(0.0) to Release 2.3(2.0) to Release 2.3(5.0)
- From Release 2.2(1.4) to Release 2.3(2.0) to Release 2.3(5.0)
- From Release 2.2(1.3) to Release 2.3(2.0) to Release 2.3(5.0)



Note From Release 2.2(1.3) or Release 2.2(1.4), you should migrate to Release 2.3(x.x).

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(4.0)

- From Release 2.3(3.0) to Release 2.3(4.0)
- From Release 2.3(2.1) to Release 2.3(4.0)
- From Release 2.3(2.0) to Release 2.3(4.0)
- From Release 2.3(1.0) to Release 2.3(2.0) to Release 2.3(4.0)
- From Release 2.3(0.0) to Release 2.3(2.0) to Release 2.3(4.0)
- From Release 2.2(1.4) to Release 2.3(2.0) to Release 2.3(4.0)
- From Release 2.2(1.3) to Release 2.3(2.0) to Release 2.3(4.0)



Note From Release 2.2(1.3) or Release 2.2(1.4), you should migrate to Release 2.3(x.x).

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(3.0)

- From Release 2.3(2.1) to Release 2.3(3.0)
- From Release 2.3(2.0) to Release 2.3(3.0)
- From Release 2.3(1.0) to Release 2.3(2.0) to Release 2.3(3.0)
- From Release 2.3(0.0) to Release 2.3(2.0) to Release 2.3(3.0)
- From Release 2.2(1.4) to Release 2.3(2.0) to Release 2.3(3.0)
- From Release 2.2(1.3) to Release 2.3(2.0) to Release 2.3(3.0)



Note From Release 2.2(1.3) or Release 2.2(1.4), you should migrate to Release 2.3(x.x).

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(2.1)



Note Cisco IMC Supervisor 2.3(2.1) includes fixes for security vulnerabilities reported in releases 2.2(1.4), 2.3, 2.3(1.0), and 2.3(2.0). For information on the security vulnerabilities reported in releases 2.2(1.4), 2.3, 2.3(1.0), and 2.3(2.0), see the security advisories for CVE-2021-44228 and CVE-2021-45046 available at this link:

<https://tools.cisco.com/security/center/publicationListing.x>

- From Release 2.3(2.0) to Release 2.3(2.1)
- From Release 2.3(1.0) to Release 2.3(2.0) to Release 2.3(2.1)
- From Release 2.3(0.0) to Release 2.3(2.0) to Release 2.3(2.1)
- From Release 2.2(1.4) to Release 2.3(2.0) to Release 2.3(2.1)
- From Release 2.2(1.3) to Release 2.3(2.0) to Release 2.3(2.1)



Note From Release 2.2(1.3) or Release 2.2(1.4), you should migrate to Release 2.3(x.x).

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(2.0)



Note Ensure that you generate and reinstall the latest CA certificate after data migration.

- From Release 2.3(1.0) to Release 2.3(2.0)
- From Release 2.3(0.0) to Release 2.3(2.0)
- From Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(1.1) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(1.0) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(0.6) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(0.5) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(0.4) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(0.2) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) Release 2.3(2.0)
- From Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.1.x.x to Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)

- From Release 2.1.x.x to Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3(2.0)
- From Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(1.1) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(1.0) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(0.6) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(0.5) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(0.4) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(0.2) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.1.x.x to Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)
- From Release 2.1.x.x to Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3(2.0)

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3(1.0)

- From Release 2.3(0.0) to Release 2.3(1.0)
- From Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(1.1) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(1.0) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.6) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.5) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.4) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.2) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)

- From Release 2.1.x.x to Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.1.x.x to Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(1.1) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(1.0) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.6) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.5) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.4) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.2) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.1.x.x to Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)
- From Release 2.1.x.x to Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0) to Release 2.3(1.0)

Supported Upgrade Paths for Cisco IMC Supervisor Release 2.3



Note CentOS 6 Cisco IMC Supervisor appliance with version [2.2.1.3](#) or [2.2.1.4](#) is considered as the the Source System and CentOS 7 Cisco IMC Supervisor appliance as the Target System.

To upgrade to Cisco IMC Supervisor 2.3 we can deploy either through VMware vSphere or Microsoft Hyper-V and follow the below upgrade path to migrate data from old system to new system.

- From Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(1.1) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(1.0) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(0.6) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(0.5) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)

- From Release 2.2(0.4) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(0.2) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.1.x.x to Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.1.x.x to Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.4) to Release 2.3 (0.0)
- From Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(1.1) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(1.0) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(0.6) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(0.5) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(0.4) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(0.2) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.1.x.x to Release 2.2(0.1) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)
- From Release 2.1.x.x to Release 2.2(0.0) to Release 2.2(0.3) to Release 2.2(1.2) to Release 2.2(1.3) to Release 2.3 (0.0)

CentOS 7 migration is possible only from platform versions 6.7.4.x (6.7.4.0, 6.7.4.1, 6.7.4.2, 6.7.4.3). As Cisco IMC Supervisor Release 2.2.1.3 is based on platform version 6.7.4.0 and Cisco IMC Supervisor Release 2.2.1.4 is based on platform version 6.7.4.2, and you should upgrade your appliance first to either Cisco IMC Supervisor versions 2.2.1.3 or 2.2.1.4 and try CentOS 7 migration.

New and Changed Features

This section provides an overview of the significant new and changed features in this release. This section does not provide an exhaustive list of all enhancements included in this release.

New and Changed Features in Release 2.3(0.0)

Support for New Versions of Cisco IMC

This release introduces support for Cisco IMC version 4.1.3b. In addition to new features, these software versions include support for new BIOS tokens. All the newly introduced BIOS tokens are now displayed in the Cisco IMC Supervisor user interface while creating a BIOS policy. For information on the BIOS tokens introduced in the Cisco IMC releases, see the CLI and GUI configuration guides available at:

<https://www.cisco.com/c/en/us/support/servers-unified-computing/ucs-c-series-integrated-management-controller/products-installation-and-configuration-guides-list.html>

Enhancements to Precision Boot Order Policy

In this release of Cisco IMC Supervisor, Precision Boot Order policy is enhanced to support HTTP boot device type that provides better performance over TFTP-based PXE methods for installing the OS. HTTP boot device type can also be used to run EFI executable from remote HTTP server for diagnostics or configuration.

Documented in the [Cisco IMC Supervisor Rack-Mount Servers Management Guide, Release 2.3](#).

Enhancements to RAID Policy

In this release of Cisco IMC Supervisor, RAID policy is enhanced to include an option to specify the virtual drive strip size. M2 RAID controller supports only 32K and 64K. Other RAID controllers support 64k, 128k, 256k, 612k, and 1024k.

Documented in the [Cisco IMC Supervisor Rack-Mount Servers Management Guide, Release 2.3](#).

Deprecated Privacy Type in SNMP Policy

In this release of Cisco IMC Supervisor, SNMP policy with privacy type (encryption method) DES is deprecated. SNMP policy supports only AES. For the existing SNMP policies with privacy type as DES, you should configure the privacy type as AES.

Documented in the [Cisco IMC Supervisor Rack-Mount Servers Management Guide, Release 2.3](#).

Data Migration

This release introduces support for migrating data from Cisco IMC Supervisor, Release 2.2.1.3 or 2.2.1.4 to Cisco IMC Supervisor, Release 2.3.

In Cisco IMC Supervisor, Release 2.3, all the configuration and data from Cisco IMC Supervisor, Release 2.2(x.x) appliance are migrated to Cisco IMC Supervisor, Release 2.3 appliance except for the following:

- Server Diagnostics ISO Images
- Local Firmware Upgrade ISO Images
- IMC Supervisor Patch Images
- Host Image Mapping Images
- Server Diagnostics Report
- Techsupport Report

Documented in the [Cisco IMC Supervisor Installation Guide for VMware vSphere and Microsoft Hyper-V, Release 2.3](#)

LDAP Integration

The supported versions of ldap.ssl.socket.protocols for Cisco IMC Supervisor, Release 2.3 are TLSv1.2 and TLSv1.3

Documented in the [Cisco IMC Supervisor Rack-Mount Servers Management Guide, Release 2.3](#)

New and Changed Features in Release 2.3(1.0)

Enhancements to Precision Boot Order Policy

Starting with this release, you can specify LUN and sub-type for a SD card boot in the Precision Boot Order policy. Also, you can specify the MAC address and IP Type for a PXE boot in the Precision Boot Order policy. The existing slot types are refreshed to accommodate the latest additions in Precision Boot Order policy.

New and Changed Features in Release 2.3(2.0)

Using MariaDB

Starting with Release 2.3(2.0), Cisco IMC Supervisor uses MariaDB open source database.

New and Changed Features in Release 2.3(2.1)

Cisco IMC Supervisor Release 2.3(2.1) includes fixes for security vulnerabilities reported in releases 2.2(1.4), 2.3, 2.3(1.0), and 2.3(2.0). For information on the security vulnerabilities reported in releases 2.2(1.4), 2.3, 2.3(1.0), and 2.3(2.0), see the security advisories for CVE-2021-44228 and CVE-2021-45046 available at this link:

<https://tools.cisco.com/security/center/publicationListing.x>

New and Changed Features in Release 2.3(3.0)

Support for Downloading Images and Receiving Automated Updates

Automated Software Distribution (ASD) APIs to enable support for downloading firmware images and updates has been updated to a newer version 4.0. The earlier version 3 of ASD API will be sunset end of Q2FY22 (February, 2022). In order to be able to continue supporting the feature, you have to upgrade to Cisco IMC Supervisor 2.2(1.4) or later.

New and Changed Features in Release 2.3(4.0)

Support for launching KVM Console for a Rack-Mount Server

You can continue to launch the KVM console for C-Series M4 or C-Series M5 servers running on firmware version 4.1(1c) or later.



Note The launch of KVM console for servers running firmware versions below 4.1(1c) is deprecated and will not work as expected.

New and Changed Features in Release 2.3(5.0)

Cisco IMC Supervisor Release 2.3(5.0) includes fixes for security vulnerabilities reported in releases 2.3(4.0).

New and Changed Features in Release 2.3(6.0)

Cisco IMC Supervisor Release 2.3(6.0) includes fixes for security vulnerabilities reported in releases 2.3(5.0).

New and Changed Features in Release 2.3(7.0)

Cisco IMC Supervisor Release 2.3(7.0) includes fixes for security vulnerabilities reported in releases 2.3(6.0).

New and Changed Features in Release 2.3(8.0)

Support for ESXI 7.0 and ESXI 7.0 U3 is enabled in Cisco IMC Supervisor Release 2.3(8.0) and it includes fixes for security vulnerabilities reported in releases 2.3(7.0).

Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the [Cisco Bug Search Tool](#). This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.



Note You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can [register for an account](#).

For more information about the Cisco Bug Search Tool, see the [Bug Search Tool Help & FAQ](#).

Open Bugs

All open bugs for this release are available in the [Cisco Bug Search Tool](#) through the following searches.

The results of that search include workarounds for the open bugs, if any.

Open Bugs in Release 2.3

You can find detailed information about all open bugs in Release 2.3 through the [open bug search for Release 2.3](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco IMC Supervisor 2.x .
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 2.3 .
Filter	Choose Open from the Status drop-down list.

Open Bugs in Release 2.3(1.0)

Open Bugs in Release 2.3(1.0)

You can find detailed information about all open bugs in Release 2.3(1.0) through the [open bug search for Release 2.3\(1.0\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco IMC Supervisor 2.x .
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 2.3(1.0) .
Filter	Choose Open from the Status drop-down list.

Open Bugs in Release 2.3(2.0)

You can find detailed information about all open bugs in Release 2.3(2.0) through the [open bug search for Release 2.3\(2.0\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco IMC Supervisor 2.x .
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 2.3(2.0) .
Filter	Choose Open from the Status drop-down list.

Open Bugs in Release 2.3(2.1)

There are no open bugs in this release.

Open Bugs in Release 2.3(3.0)

There are no open bugs in this release.

Open Bugs in Release 2.3(4.0)

There are no open bugs in this release.

Open Bugs in Release 2.3(5.0)

There are no open bugs in this release.

Open Bugs in Release 2.3(6.0)

There are no open bugs in this release.

Open Bugs in Release 2.3(7.0)

There are no open bugs in this release.

Open Bugs in Release 2.3(8.0)

There are no open bugs in this release.

Resolved Bugs

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the following searches.

Resolved Bugs in Release 2.3

You can find detailed information about all fixed bugs in Release 2.3 through the [fixed bug search for Release 2.3](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco IMC Supervisor 2.x .
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 2.3 .
Filter	Choose Fixed from the Status drop-down list.

Resolved Bugs in Release 2.3(1.0)

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the following searches.

Resolved Bugs in Release 2.3(1.0)

You can find detailed information about all fixed bugs in Release 2.3(1.0) through the [fixed bug search for Release 2.3\(1.0\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco IMC Supervisor 2.x .
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 2.3(1.0) .
Filter	Choose Fixed from the Status drop-down list.

Resolved Bugs in Release 2.3(2.0)

You can find detailed information about all fixed bugs in Release 2.3(2.0) through the [fixed bug search for Release 2.3\(2.0\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco IMC Supervisor 2.x .
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 2.3 (2.0) .
Filter	Choose Fixed from the Status drop-down list.

Resolved Bugs in Release 2.3(2.1)

You can find detailed information about all fixed bugs in Release 2.3(2.1) through the [fixed bug search for Release 2.3\(2.1\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco IMC Supervisor 2.x .
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 2.3 (2.1) .
Filter	Choose Fixed from the Status drop-down list.

Resolved Bugs in Release 2.3(3.0)

There are no resolved bugs in this release.

Resolved Bugs in Release 2.3(4.0)

There are no resolved bugs in this release.

Resolved Bugs in Release 2.3(5.0)

There are no resolved bugs in this release.

Resolved Bugs in Release 2.3(6.0)

There are no resolved bugs in this release.

Resolved Bugs in Release 2.3(7.0)

You can find detailed information about all fixed bugs in Release 2.3.(7.0) through the [fixed bug search for Release 2.3\(7.0\)](#). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose Series/Model and enter Cisco IMC Supervisor 2.x .

Field	Parameter
Releases drop-down list	Choose Affecting or Fixed in these Releases and enter 2.3 (7.0) .
Filter	Choose Fixed from the Status drop-down list.

Resolved Bugs in Release 2.3(8.0)

There are no resolved bugs in this release.

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).

Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

