Appendix B: Port Reference

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The following tables identify the default ports used by Cisco Vision Dynamic Signage Director:

Cisco Vision Dynamic Signage Director Ports

The Cisco Vision Dynamic Signage Director ports are divided into tables for input and output ports.

Cisco Vision Dynamic Signage Director Input Ports

lists the input ports used by all Cisco Vision Dynamic Signage Director servers.

Table 1   Cisco Vision Dynamic Signage Director Input Ports

Originator	Protocol	Port	Target Application	Usage
Laptop	TCP	22	SSH	Remote login.
Laptop / DMP	TCP	80	Apache	Redirect to port 8080.
DMP	TCP	8080	Tomcat / Apache	Fetch config/data.
Laptop	TCP	8080	Tomcat / Apache	Main web UI.
Laptop	TCP	9090	Tomcat for Liferay	Liferay web UI (Dynamic Menu Board application).

Table 2 on page 60 lists the additional input ports used by Cisco Vision Dynamic Signage Director server instances only during troubleshooting access from a PC.

Table 2   Cisco Vision Dynamic Signage Director Input Ports

Originator	Protocol	Port	Target Application	Usage
Laptop	TCP	7041	Java	JMX management interface for control server instance.
Laptop	TCP	7042	Java	JMX management interface for config server instance.
Laptop	TCP	7043	Java	JMX management interface for monitor server instance.
Laptop	TCP	7045	Java	JMX management interface for CMS server instance.
Laptop	TCP	7050	Java	JMX management interface for local control.
External NTP server	UDP	123	NTP	Time synchronization (Dynamic Signage Director as NTP client).
DMP	UDP	514	Syslog	Proof of play, Alerts.

Cisco Vision Dynamic Signage Director Output Ports

Table 3   Cisco Vision Dynamic Signage Director Output Ports

Originator	Protocol	Port	Target Application	Usage
Dynamic Signage Director	FTP	21	FTP server	Fetching integration broker data over FTP. Playlist integration.
Dynamic Signage Director	TCP	22	ssh	DMP troubleshooting.
Dynamic Signage Director	TCP	80	httpd	Redirect to 443.
Dynamic Signage Director	UDP	123	NTP server	As request to NTP server, and as response to DMPs.
Dynamic Signage Director	TCP	80 / 443		Fetching integration broker data. Fetching legacy ticker data.
Dynamic Signage Director	TCP	8000	autorun.brs	SV-4K control port (http)

Table 3   Cisco Vision Dynamic Signage Director Output Ports (continued)

Originator	Protocol	Port	Target Application	Usage
Dynamic Signage Director	TCP	8089	tomcat	Configuration update for multicast rebroadcaster.
Dynamic Signage Director	UDP	varies (default:50001)	DMP runtime	Multicast commands (default is 239.192.0.254:50001).
Dynamic Signage Director	UDP	varies (default:50080–50099)	DMP runtime	Multicast commands when per-script multicast is enabled.

Media Player Ports

The DMP ports are divided into tables for input and output ports:

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- Input Ports, page 62

- Common Media Player Output Ports, page 62

- Output Ports, page 63

Common Media Player Input Ports

lists the input ports used by all media player models.

Table 4   Common Media Player Input Ports

Originator	Protocol	Port	Target Application	Usage
Dynamic Signage Director	UDP	varies (default: 50001)	DMP runtime	Multicast commands (default is 239.192.0.254:50001)
Dynamic Signage Director	UDP	varies (default: 50080–50099)	DMP runtime	Multicast commands when per-script multicast is enabled.
Headend	UDP	varies	Sigma chipset	Multicast video
NTP server	UDP	123	NTP	Time sync response.

Input Ports

In addition to the common media player output ports (Table 4 on page 61), Table 5 on page 62 lists the input ports only used by the media player.

Table 5   Input Ports

Originator	Protocol	Port	Target Application	Usage
Laptop	TCP	22	SSH	SSH diagnostic port.
Laptop	TCP	80	SV-4K diagnostic web server (dws)	–
Laptop	TCP	2099	SV-4K javascript inspector (for debugging)	–
Dynamic Signage Director	TCP	8000	SV-4K control and debugging web server	–
Laptop	UDP	161	SNMP service	Listening agent for SNMP management information. This port is only open when the SNMP service is enabled in Cisco Vision Dynamic Signage Director.
SV-4K	UDP	319, 320	PTP	Event and general messages for time sync (SV-4K).
SV-4K	UDP	50001, 50002	SV-4K sync manager port	–

Common Media Player Output Ports

Table 6 on page 62 lists the output ports used by all media player models.

Table 6   Common Media Player Output Ports

Originator	Protocol	Port	Target Application	Usage
Dynamic Signage Director	TCP	8080	httpd	Fetching of DMP config, autoprovisioning, and related.
DMP	TCP	80	httpd	External content URL.
DMP	TCP	8888	java (Mule)	Fetching preview (data pull requests) from Integration Broker.
DMP	TCP	9090	Tomcat for Liferay	Dynamic Menu Board application interface.

Table 6   Common Media Player Output Ports

Originator	Protocol	Port	Target Application	Usage
DMP	TCP	33333	java (Mule)	Fetching data integration images from Integration Broker.
Dynamic Signage Director	UDP	123	NTP	Time sync request.
DMP 43	UDP	514	syslog	Proof of play. Alerts.

Output Ports

In addition to the common media player output ports (shown in Table 6 on page 62), Table 7 on page 63 lists the output ports used only by the SV-4K and DMP-2K media player.

Table 7   SV-4K and DMP-2K Output Ports

Originator	Protocol	Port	Target Application	Usage
Laptop	UDP	161	SNMP service	This port is only open when the SNMP service is enabled in Cisco Vision Dynamic Signage Director.
SV-4K	UDP	319, 320	PTP	Event and general messages for time sync.
SV-4K	UDP	50001, 50002	SV-4K sync manager port	For sync master.

Media Player Ports