



# 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, page 59](#)
- [Cisco Vision Dynamic Signage Director Remote Ports, page 61](#)
- [Media Player Ports, page 62](#)

## 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

[Table 1 on page 59](#) 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).

## Cisco Vision Dynamic Signage Director Ports

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	443	httpd	4310 web UI.
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 flash template	Multicast commands (default is 239.192.0.254:50001).
Dynamic Signage Director	UDP	varies (default:50080-50099)	DMP flash template	Multicast commands when per-script multicast is enabled.

## Cisco Vision Dynamic Signage Director Remote Ports

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

### Cisco Vision Dynamic Signage Director Remote Input Ports

[Table 4 on page 61](#) lists the input ports used by all Cisco Vision Dynamic Signage Director Remote servers.

**Table 4 Cisco Vision Dynamic Signage Director Remote Input Ports**

Originator	Protocol	Port	Target Application	Usage
Laptop	TCP	22	sshd	SSH for TUI.
Laptop	TCP	7140	java	JMX management interface for Dynamic Signage Director Remote.
External NTP server	UDP	123	NTP	Time synchronization response.
Dynamic Signage Director	TCP	8080	httpd	Multicast rebroadcaster configuration, content distribution.
Dynamic Signage Director	TCP	8089	tomcat	Configuration update for multicast rebroadcaster.
Dynamic Signage Director	UDP	Default: 7777	Multicast rebroadcaster	Unicast commands for the individual Dynamic Signage Director Remote server from the central Cisco Vision Dynamic Signage Director server.
Dynamic Signage Director	UDP	Default: 50001	Multicast rebroadcaster	Multicast commands (Default is 239.192.0.254:50001)

## Cisco Vision Dynamic Signage Director Remote Output Ports

Table 5 on page 62 lists the output ports used by all Cisco Vision Dynamic Signage Director Remote servers.

**Table 5 Cisco Vision Dynamic Signage Director Remote Output Ports**

Originator	Protocol	Port	Target Application	Usage
Dynamic Signage Director Remote	TCP	8080	httpd	Get multicast rebroadcaster from Dynamic Signage Director server.
Dynamic Signage Director	UDP	123	NTP	NTP requests initiated by Dynamic Signage Director Remote to its NTP server.
Dynamic Signage Director Remote	UDP	Default: 7778	DMP flash template	Multicast commands (Default is 239.193.1.1:7778)

## Media Player Ports

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

- [Common Media Player Input Ports, page 62](#)
- [Input Ports—DMP 4310G Only, page 63](#)
- [Input Ports—SV-4K and DMP-2K Only, page 63](#)
- [Common Media Player Output Ports, page 64](#)
- [Output Ports—SV-4K and DMP-2K Only, page 65](#)

## Common Media Player Input Ports

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

**Table 6 Common Media Player Input Ports**

Originator	Protocol	Port	Target Application	Usage
Dynamic Signage Director	UDP	varies (default: 50001)	DMP flash template	Multicast commands (default is 239.192.0.254:50001)
Dynamic Signage Director	UDP	varies (default: 50080-50099)	DMP flash template	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—DMP 4310G Only

In addition to the common media player output ports (Table 6 on page 62), Table 7 on page 63 lists the input ports only used by the Cisco DMP 4310G.

**Table 7 DMP Input Ports**

Originator	Protocol	Port	Target Application	Usage
Dynamic Signage Director	TCP	22	SSH/Rsync	Rsync for content staging.
Laptop	TCP	22	SSH	SSH diagnostic port
Laptop	TCP	443	httpd	4310 web UI, unicast messaging from Dynamic Signage Director.
Dynamic Signage Director	UDP	varies	DMP flash template	Multicast commands (default is 239.192.0.254:50001)
Dynamic Signage Director	UDP	varies (default:50080-50099)	DMP flash template	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—SV-4K and DMP-2K Only

In addition to the common media player output ports (Table 6 on page 62), Table 8 on page 63 lists the input ports only used by the SV-4K and DMP-2K media player.

**Table 8 SV-4K and DMP-2K 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	—

## Media Player Ports

**Table 8 SV-4K and DMP-2K Input Ports (continued)**

Originator	Protocol	Port	Target Application	Usage
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 9 on page 64 lists the output ports used by all media player models.

**Table 9 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 4310G / SV-4K	TCP	80	httpd	External content URL.
DMP 4310G / SV-4K	TCP	8888	java (Mule)	Fetching preview (data pull requests) from Integration Broker.
DMP 4310G / SV-4K	TCP	9090	Tomcat for Liferay	Dynamic Menu Board application interface.
DMP 4310G / SV-4K	TCP	33333	java (Mule)	Fetching data integration images from Integration Broker.
Dynamic Signage Director	UDP	123	NTP	Time sync request.
DMP 4310G / SV-4K	UDP	514	syslog	Proof of play. Alerts.

## Output Ports—SV-4K and DMP-2K Only

In addition to the common media player output ports (shown in [Table 9 on page 64](#)), [Table 10 on page 65](#) lists the output ports used only by the SV-4K and DMP-2K media player.

**Table 10 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