



# Appendix B: Port Reference

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

- [Cisco Vision Dynamic Signage Director Ports, page 51](#)
- [Digital Media Player Ports, page 52](#)

## 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 51](#) 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	For Web UI Access
External system	TCP	22	SFTP	Media Planner API
Laptop	TCP	22	SSH <sup>1</sup>	Remote login
Laptop / DMP	TCP	80	HTTP	Redirect to port 443
DMP	TCP	8080	Tomcat / Apache	Fetch config/data
Laptop	TCP	443	HTTPS	Main web UI
NTP Server	UDP	123	NTP (time protocol)	Sync time

1. When remote login is enabled.

[Table 2 on page 52](#) lists the additional input ports used by Cisco Vision Dynamic Signage Director server instances only during troubleshooting access from a PC.

## Digital Media Player Ports

**Table 2 Cisco Vision Dynamic Signage Director Input Ports**

Originator	Protocol	Port	Target Application	Usage
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	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	HTTP Server	Fetching integration broker data  Fetching legacy ticker data
Dynamic Signage Director	TCP	8000	DMP runtime	DMP control port (http)
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

## Digital Media Player Ports

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

- [Common Media Player Input Ports, page 53](#)
- [Network Input Ports, page 53](#)
- [Common Digital Media Player Output Ports, page 53](#)
- [Output Ports, page 54](#)

## Common Media Player Input Ports

Table 4 on page 53 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	DMP firmware	Multicast video
NTP server	UDP	123	NTP	Time sync response

## Network Input Ports

Table 5 on page 53 lists the input ports only used by the digital media player.

**Table 5 Input Ports**

Originator	Protocol	Port	Target Application	Usage
Laptop	TCP	80	DMP diagnostic web server (dws)	Diagnostic Web Server, when enabled
Dynamic Signage Director	TCP	8000	DMP control and debugging web server	For commands and queries by Cisco Vision Director 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
DMP	UDP	319, 320	PTP	Event and general messages for time sync (DMP)
DMP	UDP	50001, 50002	DMP runtime	For content synchronization, such as in video walls
Laptop	TCP	2099	Javascript inspector for DMP browser	To run Javascript Inspector when enabled to debug/troubleshoot by Cisco support
NTP Server	UDP	123	Network Time Protocol (NTP)	Sync the time on the DMP

## Common Digital Media Player Output Ports

Table 6 on page 54 lists the output ports used by all digital media player models.

## Digital Media Player Ports

**Table 6 Common Digital 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	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

[Table 7 on page 54](#) lists the output ports used by the Series 2 media players.

**Table 7 DMP 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
DMP	UDP	319, 320	PTP	Event and general messages for time sync
DMP	UDP	50001, 50002	DMP sync manager port	For sync master