



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