Appendix B: Port Reference

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The following tables identify the default ports used by Cisco StadiumVision Director:

Cisco StadiumVision Director Ports

The Cisco StadiumVision Director ports are divided into tables for input and output ports.

Cisco StadiumVision Director Input Ports

Table 1 lists the input ports used by all Cisco StadiumVision Director servers.

Table 1   Cisco StadiumVision 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 lists the additional input ports used by Cisco StadiumVision Director server instances only during troubleshooting access from a PC.

Table 2   *Cisco StadiumVision 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 (StadiumVision Director as NTP client).
DMP	UDP	514	Syslog	Proof of play, Alerts.

Cisco StadiumVision Director Output Ports

Table 3   *Cisco StadiumVision Director Output Ports*

Originator	Protocol	Port	Target Application	Usage
StadiumVision Director	FTP	21	FTP server	Fetching integration broker data over FTP. Playlist integration.
StadiumVision Director	TCP	22	ssh	DMP troubleshooting.
StadiumVision Director	TCP	80	httpd	Redirect to 443.
StadiumVision Director	UDP	123	NTP server	As request to NTP server, and as response to DMPs.
StadiumVision Director	TCP	443	httpd	4310 web UI.
StadiumVision Director	TCP	80 / 443		Fetching integration broker data. Fetching legacy ticker data.
StadiumVision Director	TCP	8000	autorun.brs	SV-4K control port (http)
StadiumVision Director	TCP	8089	tomcat	Configuration update for multicast rebroadcaster.

Table 3   Cisco StadiumVision Director Output Ports

Originator	Protocol	Port	Target Application	Usage
StadiumVision Director	UDP	varies (default:50001)	DMP flash template	Multicast commands (default is 239.192.0.254:50001).
StadiumVision Director	UDP	varies (default:50080-50099)	DMP flash template	Multicast commands when per-script multicast is enabled.

Cisco StadiumVision Director Remote Ports

The Cisco StadiumVision Director Remote ports are divided into tables for input and output ports.

Cisco StadiumVision Director Remote Input Ports

Table 1 lists the input ports used by all Cisco StadiumVision Director Remote servers.

Table 4   Cisco StadiumVision 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 Cisco StadiumVision Director Remote.
External NTP server	UDP	123	NTP	Time synchronization response.
StadiumVision Director	TCP	8080	httpd	Multicast rebroadcaster configuration, content distribution.
StadiumVision Director	TCP	8089	tomcat	Configuration update for multicast rebroadcaster.
StadiumVision Director	UDP	Default: 7777	Multicast rebroadcaster	Unicast commands for the individual Cisco StadiumVision Director Remote server from the central Cisco StadiumVision Director server.
StadiumVision Director	UDP	Default: 50001	Multicast rebroadcaster	Multicast commands (Default is 239.192.0.254:50001)

Cisco StadiumVision Director Remote Output Ports

Table 5 lists the output ports used by all Cisco StadiumVision Director Remote servers.

Table 5   Cisco StadiumVision Director Remote Output Ports

Originator	Protocol	Port	Target Application	Usage
StadiumVision Director Remote	TCP	8080	httpd	Get multicast rebroadcater from Cisco StadiumVision Director server.
StadiumVision Director	UDP	123	NTP	NTP requests initiated by StadiumVision Director Remote to its NTP server.
StadiumVision 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 54
- Input Ports—DMP 4310G Only, page 55
- Input Ports—SV-4K Only, page 55
- Common Media Player Output Ports, page 56
- Output Ports—SV-4K Only, page 56

Common Media Player Input Ports

Table 7 lists the input ports used by both the Cisco DMP 4310G and the SV-4K media players.

Table 6   Common Media Player Input Ports

Originator	Protocol	Port	Target Application	Usage
StadiumVision Director	UDP	varies (default: 50001)	DMP flash template	Multicast commands (default is 239.192.0.254:50001)
StadiumVision 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), Table 7 lists the input ports only used by the Cisco DMP 4310G.

Table 7   DMP Input Ports

Originator	Protocol	Port	Target Application	Usage
StadiumVision 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 Cisco StadiumVision Director
StadiumVision Director	UDP	varies	DMP flash template	Multicast commands (default is 239.192.0.254:50001)
StadiumVision 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 Only

In addition to the common media player output ports (Table 6), Table 8 lists the input ports only used by the SV-4K media player.

Table 8   SV-4K 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)	—
StadiumVision Director	TCP	8000	SV-4K control and debugging web server	—
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 lists the output ports used by both the Cisco DMP 4310G and the SV-4K media players.

Table 9   Common Media Player Output Ports

Originator	Protocol	Port	Target Application	Usage
StadiumVision 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.
StadiumVision Director	UDP	123	NTP	Time sync request.
DMP 4310G / SV-4K	UDP	514	syslog	Proof of play. Alerts.

Output Ports—SV-4K Only

In addition to the common media player output ports (Table 9), Table 10 lists the output ports used only by the SV-4K media player.

Table 10   SV-4K Output Ports

Originator	Protocol	Port	Target Application	Usage
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.