

SureStream Ports

Vega Systems Inc, 2023

Management Client on the Management Server

Protocol	Transport Layer	Port	Direction at the Management Client	Description
HTTP	TCP	80 (Different if the camera has a different HTTP port configured)	Outbound	Communication between Client and Camera.

Each Smart Client Machine

Streaming Mode	Protocol	Transport Layer	Port	Direction at the Smart Client	Description
Unicast – HTTP Tunnelling	HTTP	TCP	80 (Different if the camera has a different HTTP port configured)	Outbound	Communication between Client and Camera, including PTZ, commands. Unicast video streaming through HTTP tunneling.
Unicast – Without HTTP Tunnelling	HTTP	TCP	80 (Different if the camera has a different HTTP port configured)	Outbound	Communication between Client and Camera, including PTZ commands. Unicast video streaming through HTTP tunneling.
	RTSP	TCP	554 (Different if the camera has a different RTSP port configured)	Outbound	Video Stream Control for Multicast.
	RTP	UDP	Dynamic Ports	Inbound	Video Stream data.
Multicast	RTCP	UDP	Dynamic Ports (RTP Port + 1)	Inbound and Outbound	RTP Reports for Multicast Video for QoS – Quality of Service and compensates for delays.
	HTTP	TCP	80 (Different if the camera has a different HTTP port configured)	Outbound	Communication between Client and Camera, including PTZ commands.
	RTSP	TCP	554 (Different if the camera has a different RTSP port configured)	Outbound	Video Stream Control for Multicast.
	RTP	UDP	Multicast port configured for the camera in SureStream (Management Client)	Inbound	Multicast video stream

	RTCP	UDP	RTP Port + 1. Include port numbers for each camera, if different. E.g., If there are two cameras with RTP port numbers 10000, and 10002, RTCP ports 10001 and 10003 need to be allowed.	Inbound and Outbound	RTP Reports for Multicast Video for QoS – Quality of Service and compensates for delays.
	IGMP	NA	NA	Inbound and Outbound	Respond to Multicast membership queries, multicast group joins, send membership reports, and group leaves.
Other Ports	ICMP	NA	NA	Outbound	Camera Ping. Check if the camera is online/offline.
	WS-Discovery	UDP	3702	Outbound	Camera Discovery Tool by Vega Systems Inc. - To fetch all the ONVIF cameras in the network. (Used when we are configuring Cirrus on local LAN)