

HikCentral Professional

Communication Matrix

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Source Device	Source IP Address	Source Port Number	Destination Device	Destination IP Address	Destination Port Number	Protocol	Port Description	Destination Port Configurable	NAT Mapping Required for Destination Port	Authentication Mode	Encryption	Enabled by Default	Version Special Scenario
System Management Se		Number			(Listening)			(Yes/No)	(Yes/No)			(Yes/No)	
Web Client, Control Client	IP address of the PC running the client	1025-65535	SYS	SYS IP Address	80	HTTP/WebSocket	Used for Web Client & Control Client access in HTTP protocol	Yes	Yes	User Name & Password	RSA2048/SHA25 6/AES256	Yes	All versions
Web Client, Control Client	IP address of the PC running the client	1025-65535		SYS IP Address	443	TPS/WebSocket over	Used for Web Client & Control Client access in HTTPS protocol	Yes	Yes	User Name & Password	TLS	Yes	V1.1 and later
Third-Party System Third-Party System	Third-Party System IP Third-Party System IP	1025-65535 1025-65535		SYS IP Address SYS IP Address	15300 15300	TCP UDP	Used for receiving generic events. Used for receiving generic events.	Yes Yes	Yes Yes	None None	None None	No No	V1.1 and later V1.1 and later
Remote Site	Remote Site IP Address	1025-65535	SYS	SYS IP Address	14200	HTTP/HTTPS	Used for Remote Site registration to the Central System.	Yes	Yes	User Name & Password	AES256	No	V1.1 and later
ISUP Device	ISUP Device IP Address	1025-65535	SYS	SYS IP Address	7332	ТСР	Used for receiving alarm from ISUP devices.	Yes	Yes	User Name & Password	SHA256/AES128	Yes	V1.4 and later
ISUP Device	ISUP Device IP Address	1025-65535	SYS	SYS IP Address	7334	UDP	Used for receiving alarm from ISUP devices.	Yes	Yes	User Name & Password	SHA256/AES128	Yes	V1.4 and later
ISUP Device	ISUP Device IP Address	1025-65535	SYS	SYS IP Address	7660	ТСР	Used for receiving registration from ISUP devices.	Yes	Yes	User Name & Password	SHA256/AES128	Yes	V1.4 and later
Streaming Server	Streaming Server IP Address	1025-65535	SYS	SYS IP Address	7661	ТСР	Used for getting stream from ISUP device via Streaming Server.	Yes	Yes	Security Certificate Authentication	RSA2048/SHA25 6/AES256	Yes	V1.4 and later
3rd Party Devices and Hikvision Devices Accessing the System by Open Network Video	Open Network Video Interface Device IP Address	1025-65535	SYS	SYS IP Address	8087 to 8096	ТСР	Alarm listen port for third-party devices.	No	No	User Name & Password	None	No	All versions when the devices share a LAN with the SYS.
Interface Protocol	Guidance Terminal IP	1025 65525	CVC	CVC ID Address	9090	TCD	Listener port for listening the alarms	Voc	Vac	User Name &	CUA25C/A5C120	Vas	V2.1 and later
Guidance Terminal	Address	1025-65535	SYS	SYS IP Address	8686	ТСР	of guidance terminal.	Yes	Yes	Password	SHA256/AES128	Yes	V2.1 and later
ISUP Device	ISUP Device IP Address	1025-65535	SYS	SYS IP Address	6123	НТТР	Used for the picture storage of ISUP devices.	Yes	Yes	AK & SK	None	Yes	V2.1
Digital Signage Terminal Web Client	IP Address of Digital Signage Terminal, IP Address of PC	1025-65535	SYS	SYS IP Address	6203	НТТР	Used for the object storage.	Yes	Yes	AK & SK	None	Yes	V2.1
Streaming Server	Running Client Streaming Server IP Address	1025-65535	SYS	SYS IP Address	7662	ТСР	Signaling port for getting information	Yes	Yes	Security Certificate	AES256	No	V2.1
IP speaker accessing via	IP Address of IP speaker			CVC ID A L L		T00	of IP speakers. Listener port for the registration of IP			Authentication User Name &			10.1
Hikvision private speaker protocol	accessing via Hikvision private speaker protocol	1025-65535	SYS	SYS IP Address	8877	ТСР	speakers accessing via Hikvision private speaker protocol.	Yes	Yes	Password	MD5	No	V2.1
IP speaker accessing via Hikvision private	IP Address of IP speaker accessing via Hikvision	1025-65535	SYS	SYS IP Address	10015	ТСР	Used for transmitting the audio data of IP speakers accessing via Hikvision	Yes	Yes	User Name & Password	MD5	No	V2.1
speaker protocol pStor Server	private speaker protocol pStor Server IP Address	1025-65535	SYS	SYS IP Address	27661	НТТР	private speaker protocol. Used for calling back the ISUP	No	No	Security Certificate	RSA2048/SHA25	No	V2.1
Digital Signage Terminal	IP Address of Digital Signage	1025-65535		SYS IP Address	6470	ТСР	signaling. Used for upgrading digital signage	Yes	No	Authentication User Name &	6/AES256 None	No	V2.1
Digital Signage Terminal	IP Address of Digital Signage			SYS IP Address	6471	ТСР	terminals in version 3.1 or below. Used for releasing programs to digital		No	Password User Name &	None	No	V2.1
Digital Signage Terminal	Terminal IP Address of Digital Signage	1025-65535		SYS IP Address	9980	НТТР	signage terminals in version 3.1 or Used for uploading materials to the	Yes	No	Password User Name &	None	No	V2.0 and later
Third-Party System	Terminal IP Address of Third-Party	1025-65535		SYS IP Address	15310	НТТР	server. Used for receiving generic events.	Yes	Yes	Password None	None	No	V2.2 and later
Third-Party System	System IP Address of Third-Party	1025-65535		SYS IP Address	15443	HTTPS	Used for receiving generic events.	Yes	Yes	None	None	No	V2.2 and later
ISUP Device	System IP Address of ISUP Device	1025-65535		SYS IP Address	8555	ТСР	Used for transfering files with devices		Yes	User Name &	SHA256/AES128	Yes	V2.2 and later
Streaming Server	IP Address of Streaming	1025-65535		SYS IP Address	7664	ТСР	and downloading pictures from Used for transfering audio files	No	No	Password Security Certificate	AES256	No	V2.2 and later
Streaming Gateway (SG							between the streaming server and the			Authentication			
Web Client, Control Client	IP address of the PC running the client		Streaming Gateway	IP address of the server running Streaming Gateway	554	RTSP	Used for getting stream for live view (real-time streaming port).	Yes	Yes	Security Certificate Authentication	RSA2048/AES25 6	Yes	All versions
Web Client, Control Client	IP address of the PC running the client	1025-65535	Streaming Gateway	IP address of the server running Streaming Gateway	559	WebSocket	Used for getting stream for Google Chrome, Firefox, or Safari.	Yes	Yes	Security Certificate Authentication	RSA2048/AES25 6	Yes	All versions
Web Client, Control Client	IP address of the PC running the client	1025-65535	Streaming Gateway	IP address of the server running Streaming Gateway	10000	ТСР	Used for getting stream for playback (video file streaming port).	Yes	Yes	None	None	Yes	All versions
ISUP Device	ISUP Device IP Address	1025-65535	Streaming Gateway	IP address of the server running Streaming Gateway	16000	ТСР	Used for getting stream from ISUP device via plugin.	Yes	Yes	None	None	Yes	V1.4 and later
SYS	SYS IP Address	1025-65535	Streaming Gateway	IP address of the server running Streaming Gateway	6001	SNMP	Used for getting the status of the Streaming Server.	No	No	None	None	Yes	All versions
SYS	SYS IP Address	1025-65535	Streaming Gateway	IP address of the server running Streaming Gateway	6678	HTTPS	Used for editing configuration for Streaming Server.	No	No	None	None	Yes	All versions
ISUP Device	IP Address of ISUP Device	1025-65535	Streaming Gateway	IP address of the server running Streaming Gateway	16001	ТСР	Used for uploading audio files by device.	Yes	Yes	None	None	No	V2.1
ISUP Device	IP Address of ISUP Device	1025-65535	Streaming Gateway	IP address of the server running Streaming Gateway	16003	ТСР	Broadcasting port for pushing audio	Yes	Yes	None	None	Yes	V2.2 and later
Streaming Server (SMS) Web Client, Control	IP address of the PC running	1025-65535	Streaming Server	IP address of the Streaming	554	RTSP	Used for Streaming Service to get	Yes	Yes	Security Certificate	RSA2048/AES25	Yes	All versions
Client Web Client, Control	the client IP address of the PC running		Streaming Server	Server IP address of the Streaming	559	WebSocket	stream for live view (real-time Used for getting stream for Google	Yes	Yes	Authentication Security Certificate	6 RSA2048/AES25	Yes	All versions
Client Web Client, Control	the client IP address of the PC running		Streaming Server	Server IP address of the Streaming	10000	ТСР	Chrome, Firefox, or Safari. Used for Streaming Service to get	Yes	Yes	Authentication None	6 None	Yes	All versions
Client ISUP Device	the client ISUP Device IP Address		Streaming Server	Server IP address of the Streaming	16000	ТСР	stream for playback (video file Used for getting stream from ISUP	Yes	Yes	None	None	Yes	V1.4 and later
SYS	SYS IP Address		Streaming Server	Server IP address of the Streaming	6001	SNMP	device via plugin. Used for getting the status of the	No	No	None	None	Yes	All versions
SYS	SYS IP Address		Streaming Server	Server IP address of the Streaming	8208	WebSocket over TLS	Streaming Server. Listen port for Service Manager after	Yes	No	None	None	Yes	V1.5 and later
	313 III 7 taaress	1023 03333	oti cariiiig oci vei	Server	0200	THE SOURCE OVER THE	encrypted transmission enabled.	103	No: The platform can access		None		V 115 dilla latte.
SYS	SYS IP Address	1025-65535	Streaming Server	IP address of the Streaming Server	6678	HTTPS	Used for editing configuration of Streaming Server.	Yes	the Streaming Server Yes: The platform cannot	None	None	Yes	All versions
pStor Service									access the Streaming Server	•			
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6022	ТСР	Used for applying recording schedule.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6027	ТСР	Used for writing video data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6112	ТСР	Used for uploading data via HTTPS.	No	Yes	AK & SK	SSL	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
SYS	SYS IP Address	1025- 65535	pStor Server	pStor Server IP Address	6111	ТСР	Redirection port for uploading data via HTTPS.	No	Yes	AK & SK	SSL	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6041	ТСР	Used for uploading data via HTTP.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6011	ТСР	Redirection port for uploading data via HTTP.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6114	ТСР	Used for downloading data via HTTPS.	No	Yes	AK & SK	SSL	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6113	ТСР	Redirection port for downloading data via HTTPS.	No	Yes	AK & SK	SSL	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6040	ТСР	Used for downloading data via HTTP.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes. The port should be mapped for
SYS	SYS IP Address	1025- 65535	pStor Server	pStor Server IP Address	6120	ТСР	Redirection port for downloading data via HTTP.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6045	ТСР	Used for transmitting object data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6037	ТСР	Used for transmitting video data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6036	ТСР	Used for transmitting video data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
SYS	SYS IP Address	1025- 65535	pStor Server	pStor Server IP Address	6060	ТСР	Used for transmitting web data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6098	ТСР	Used for playing media data from Stream Media Server.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6042	ТСР	Used for forwarding storage data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6038	ТСР	Used for forwarding storage data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6044	ТСР	Used for forwarding storage data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6039	ТСР	Used for forwarding storage data.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6046	ТСР	Used for transmitting RESTful data of object storage.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
N/A	N/A	1025- 65535	pStor Server	pStor Server IP Address	6201	ТСР	Communication port for object storage.	No	Yes	AK & SK	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
SYS	SYS IP Address	1025- 65535	pStor Server	pStor Server IP Address	6021	ТСР	Used for login.	No	Yes	User Name & Password	None	Yes	V1.4 and later The port should be mapped for multi-channel scenes.
pStor Cluster Service	IP address of the PC running	465	6	IP address of the server			Used for accessing pStor Cluster			User Name &			N4.5
Web Client	the client	1025-65535	pStor Cluster Service	running pStor Cluster Service	9012	НТТР	Service via the web browser such as IE, Chrome, Firefox, etc.	No	No	Password	RSA	Yes	V1.6 and later
Web Client, Control Client	IP address of the PC running the client	1025-65535	pStor Cluster Service	IP address of the server running pStor Cluster Service	6300	НТТР	Signaling gateway port used for accessing pStor Cluster Service from	No	No	AK & SK	HMAC/SHA256	Yes	V1.6 and later
OpenAPI Third-Party Integration	IP Address of Third-Party	1025-65525	OpenAPI Service	IP address of the PC running	443	HTTPS	Used for third-party system accessing	Yes	Yes	AK & SK	SHA256	Yes	V1.5 and later
SYS	Integration SYS IP Address		OpenAPI Service	OpenAPI Service IP address of the PC running	8208	WebSocket over TLS	OpenAPI. Listener port for Service Manager	No	No	None	None	Yes	V1.5 and later
BeeAgent			, 5 / OC/ VICE	OpenAPI Service	J		after encrypted transmission enabled.	1				. 03	
BeeAgent Server In SYS	Ip Address of BeeAgent Server In SYS	1025-65535	BeeAgent Server in D	a IP Address of BeeAgent Server	9208	WebSocket	Used for BeeAgent service management in database to	No	Yes	SK	None	Yes	V2.2
Postgres							communicate with BeeAgent service						
Postgres Server	IP address of Postgres Server	1025-65535	N/A	N/A	5432	ТСР	N/A	N/A	N/A	N/A	N/A N	I/A	N/A