



**HikCentral Professional V1.4.2**  
**Important Ports**

## System Ports

HikCentral Professional uses particular ports when communicating with other servers, devices, and so on.

Make sure the following ports are not occupied for data traffic on your network and you should forward these ports on router for WAN access or open these ports in the firewall in case you may need to access the system via other networks.

**Note:** For the ports of pStor, please refer to the *pStor Port List*.

Destination	Port	Source <sup>1</sup>	Function and Description	Solution if Conflicted
<b>System Management Service (SYS)</b>				
NGINX	80 (HTTP/WebSocket) <sup>2</sup>	Web Client, Control Client	Used for Web Client & Control Client access in HTTP protocol	Edit it in Service Manager <sup>2</sup>
	443 (HTTPS/WebSocket over TLS) <sup>2</sup>		Used for Web Client & Control Client access in HTTPS protocol	
SYS	14200 (HTTP/HTTPS)	SYS (Remote Site)	Used for Remote Site registration to the Central System.	
	15300 (TCP/UDP)	3 <sup>rd</sup> Party System	Used for receiving generic events.	
	7332 (TCP)	EHome Device	Used for receiving alarm from EHome devices.	
	7661 (TCP)	Streaming Server	Used for getting stream from EHome device via Streaming Server.	
	7660 (TCP/UDP)	EHome Device	Used for receiving registration from EHome devices.	
	30051 (HTTP)	ADS	Used for communication between SYS and ADS. *This port is available in distributed deployment.	
	30053 (HTTPS)	ADS	Used for communication between SYS and ADS, after encrypted transmission enabled. *This port is available in distributed deployment.	
	8087 to 8096 (TCP)	3 <sup>rd</sup> Party Devices and Hikvision Devices Accessing the System by ONVIF Protocol	Enable these ports on the Firewall when the devices share a LAN with the SYS server.	Make sure these ports works.
Streaming	554 (RTSP)	Control Client	Used for getting stream for live view (real-time streaming	Edit it in Service Manager

Gateway			port).	
	559 (WebSocket)	Web Client via Google Chrome, Firefox, or Safari	Used for getting stream for Google Chrome, Firefox, or Safari.	
	10000 (TCP)	Control Client	Used for getting stream for playback (video file streaming port).	
	16000 (TCP)	EHome Device	Used for getting stream from EHome device via plugin.	
Keyboard Proxy Service	8910 (HTTP)	Network Keyboard	Used for network keyboard to access the Keyboard Proxy Service.	
NTP (Network Time Protocol) Service	123 (UDP)	Servers & Devices	NTP port for time synchronization.	Edit the port of another program that occupies 123.
PostgreSQL	5432 (TCP)	ADS	Used for database access. *This port is available in distributed deployment.	Exit the installation and edit the port of another program that occupies 5432.
<b>Application Data Service (ADS)</b>				
*These ports are available in distributed deployment.				
ADS	30054 (HTTPS)	SYS	Used for communication between SYS and ADS, after encrypted transmission enabled.	Edit it in Service Manager
	30052 (HTTP)	SYS	Used for communication between SYS and ADS.	
	19999 (HTTP)	SYS	Used for communication between SYS's NGINX and ADS.	
	19443 (HTTPS)	SYS	Used for communication between SYS's NGINX and ADS.	
WDS	6208 (WebSocket)	Service Manager	Listen port for Service Manager.	
	8208 (WebSocket over TLS)	Service Manager	Listen port for Service Manager after encrypted transmission enabled.	
PostgreSQL	5432 (TCP)	Standby ADS	Used for real-time data synchronization between Application Data Server and Application Data Standby Server.	Exit the installation.

Streaming Server				
Streaming Server	554 (RTSP)	Control Client	Used for Streaming Service to get stream for live view (real-time streaming port).	Edit it in Service Manager
	559 (WebSocket)	Web Client via Google Chrome, Firefox, or Safari	Used for getting stream for Google Chrome, Firefox, or Safari.	
	10000 (TCP)	Control Client	Used for Streaming Service to get stream for playback (video file streaming port).	
	6001 (UDP)	-	The port for the network management.	
	16000 (TCP)	EHome Device	Used for getting stream from EHome device via plugin.	

**1:** The port that the source uses for initiating a communication is random.

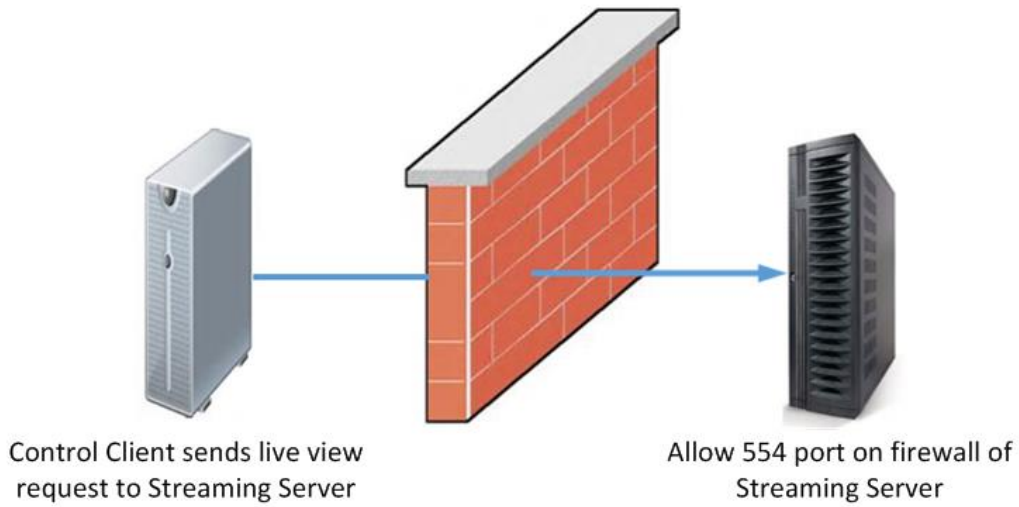
**2:** The port 80 and 443 **CANNOT** be modified to the following: 1, 7, 9, 11, 13, 15, 17, 19, 20, 21, 22, 23, 25, 37, 42, 43, 53, 77, 79, 87, 95, 101, 102, 103, 104, 109, 110, 111, 113, 115, 117, 119, 123, 135, 139, 143, 179, 389, 465, 512, 513, 514, 515, 526, 530, 531, 532, 540, 556, 563, 587, 601, 636, 993, 995, 2049, 3659, 4045, 6000, 6665, 6666, 6667, 6668, and 6669.

The added device usually uses 80, 8000, and 554 ports for communication. Allow/forward these ports on the added device if needed. Please consult your local support for detailed ports of devices.

Device Port	Source	Description
80	Web Client	Direct streaming from device to Web Client
8000	SYS, Control Client	Adding device; Direct streaming from device to Control Client
554	Streaming Server	Streaming from device to Streaming Server

## Allowing Port on Firewall

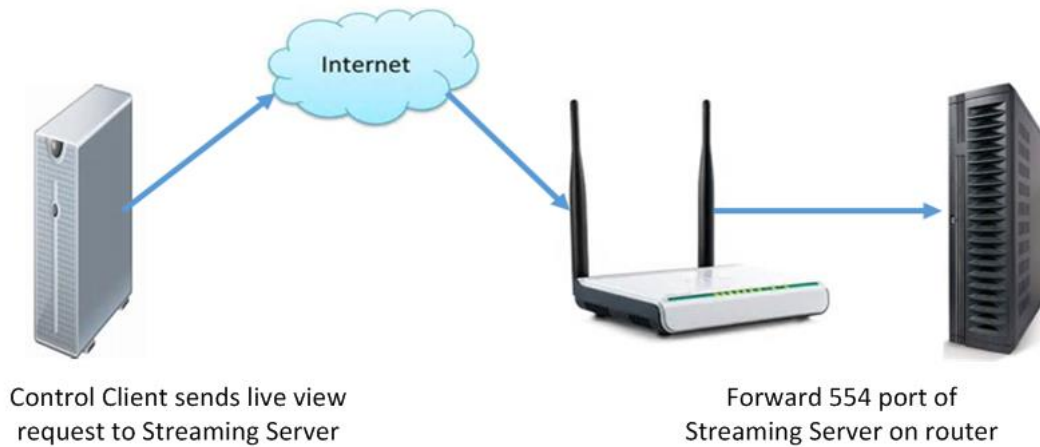
If the service and source are deployed on separate server, corresponding service port should be allowed on the firewall as an inbound rule, for example:



If ports cannot be allowed on the firewall, you can also allow the service/process on the firewall to ensure the communication. Please choose the firewall strategy according to the actual situation.

## Forwarding Port on Router

If the service and source are deployed in different LANs, corresponding service port should be forwarded on the router.





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