# HikCentral Professional V1.4.1
# 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.

| Destination | Port | Source[1] | Function and Description | Solution if Conflicted |
|---|---|---|---|---|
| **System Management Service (SYS)** | | | | |
| NGINX | 80 (HTTP/WebSocket)[2] | Web Client, Control Client | Used for Web Client & Control Client access in HTTP protocol | Edit it in Service Manager[2] |
| | 443 (HTTPS/WebSocket over TLS) [2] | | 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) | 3rd 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) | 3rd 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 Gateway | 554 (RTSP) | Control Client | Used for getting 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 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.<br>*This port is available in distributed deployment. | Exit the installation and edit the port of another program that occupies 5432. |

| **Application Data Service (ADS)** | | | | |
| --- | --- | --- | --- | --- |
| *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 theses ports on the added device if needed. Please consult your local support for detailed ports of devices.

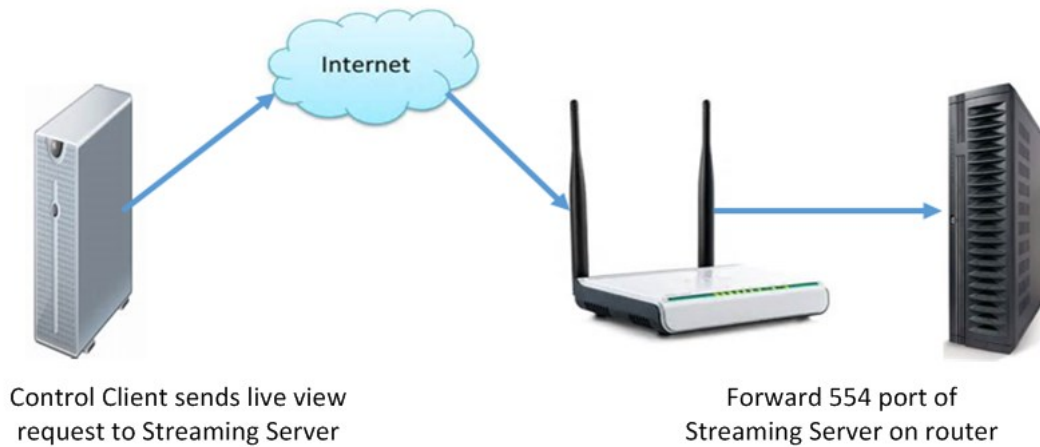| Device Port | Source | Description |
|---|---|---|
| 80 | Web Client | Direct streaming from device to Web Client |
| 8000 | SYS, Control Client | Adding device; Direct streaming from device to Control Client |
| 554 | Streaming Server | Streaming from device to Streaming Server |

## 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:

Control Client sends live view
request to Streaming Server

Allow 554 port on firewall of
Streaming Server
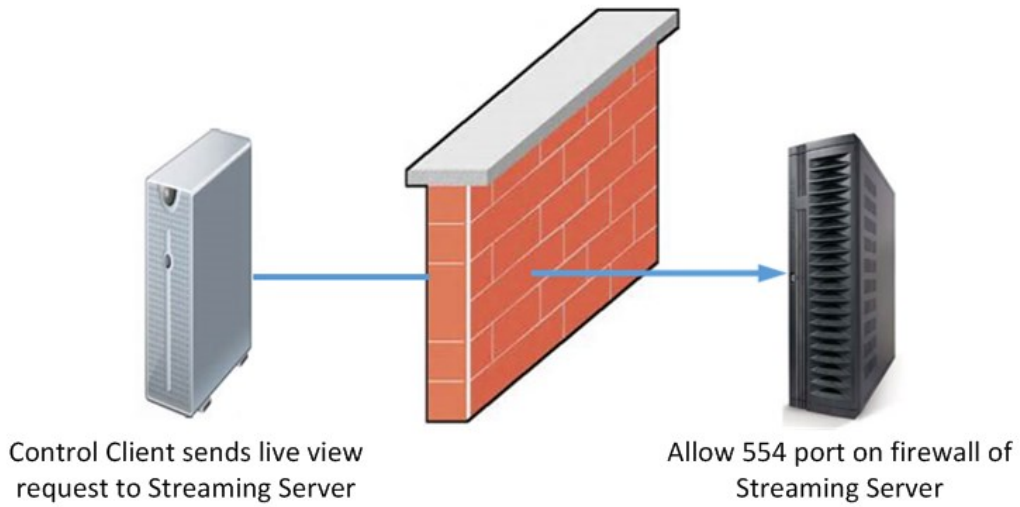
If ports cannot be allowed on the firewall, you can also allow the service/process on the firewall to ensure the communication. Please choose the firewall strategy according to the actual situation.

## Forwarding Port on Router

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

Internet

Control Client sends live view
request to Streaming Server

Forward 554 port of
Streaming Server on router

See Far, Go Further