



HikCentral Enterprise-Commercial V1.1

Communication Matrix

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Basic Service Ports

Component	Service	Port	Protocol	Port Description	Need Mapping (Yes/No)	Configurable (Yes/No)	Remarks
Core Service	Configuration Service (conifg)	8011	HTTP	HTTP service port.	No	No	Use the same port as Tomcat of core service.
	Single Sign-On Service (centerCas)	8011	HTTP	HTTP service port. Used for logging into Operation & Management Center in SSO mode.	No	No	Use the same port as Tomcat of core service.
	Proxy Service (proxy)	8001	HTTP	HTTP service port.	No	No	
	Core Service (core)	8011	HTTP	Used for calling core service.	No	No	Use the same port as Tomcat of core service.
	Catalog Service (ldap)	7003	TCP	Used for providing directory service (LDAP).	No	No	
	Monitoring Service (monitor)	8011	HTTP WebSocket	HTTP monitoring service.	No	No	Use the same port for monitoring, central, and agent.
	Notification Service (notify)	7002	TCP	Used for sending and receiving notification.	Yes	No	
		8288	HTTP	Used for ActiveMQ self-inspection.	No	No	
		8356	TCP	Used for sending and receiving notification (SSL).	Yes	No	
		38000 to 38499	TCP	Used for communication keep-alive between Wrapper shell of ActiveMQ and JVM.	No	No	Different from the port range of ActiveMQ component.
Database Service (database)	7001	TCP	Used for Operation & Management Center connecting database.	No	No		
Central Web Service (center)	8011	HTTP	Used for providing HTTP request.	No	No	Use the same port as Tomcat of core service.	
Tomcat Service (tomcat)	8011	HTTP	Used for accessing Operation & Management Center by web browser.	No	No		
Collection Uploading	Collection Uploading Service (reportserver)	8080	HTTP	Used for stopping uploading collection result.	No	Yes	Use the same port as Tomcat component.
Log Service	Log Service (log)	8080	HTTP	HTTP service port used for searching log.	No	Yes	Use the same port as Tomcat component.
	Log Database Service (logdb)	7006	TCP	Used for accessing log database.	No	Yes	
Cluster Proxy Component	Proxy Service (proxy)	80	HTTP	Used for providing HTTP protocol for cluster service.	Yes	Yes	
		443	HTTPS	Used for providing HTTP protocol for cluster service.	Yes	Yes	
		8257	HTTP	Cluster service port for cluster proxy service.	No	Yes	
		8196	HTTP	Access port for cluster management service.	No	Yes	
		8060	HTTP	Providing APIs for cluster proxy component.	No	Yes	
Tomcat	Tomcat Service (javaweb)	8080	HTTP	Used for accessing service via web.	No	Yes	
PostgreSQL	Postgresql Database Service (rdbms)	7017	TCP	Used for accessing PostgreSQL database service.	No	Yes	
		8026	TCP	Used for PostgreSQL database self-inspection.	No	Yes	Reserved port. Supports self-inspection by receiving core service notification.

postgresql11linux64	Postgresql Database Service (rdbms)	7092	TCP	Used for accessing PostgreSQL database service.	No	Yes	Postgresql11linux is a new component different from Postgresql 9.6 and needs a new port.
		9105	TCP	Used for PostgreSQL database self-inspection.	No	Yes	Reserved port. Supports self-inspection by receiving core service notification.
Redis	Redis Database Service (cache)	7019	TCP	Used for accessing Redis service.	No	Yes	
		8027	HTTP	Used for Redis self-inspection.	No	Yes	Reserved port. Supports self-inspection by receiving core service notification.
ActiveMQ	ActiveMQ Service (mq)	7018	TCP	Used for accessing ActiveMQ service.	Yes	Yes	For the Control Client and the platform.
		8028	HTTP	Used for ActiveMQ self-inspection.	No	Yes	
		8355	TCP	Used for transmission in SSL protocol.	Yes	Yes	Need to open the firewall.
		38500~38999	TCP	Used for communication keepalive between Wrapper shell in ActiveMQ and JVM.	No	No	Different from the port range of Notification Service.
MPS	Message Notification (mps)	8173	TCP	Used for communicating with the Control Client.	No	Yes	
		8030	HTTP	Used for providing RESTful APIs.	No	Yes	
		8080	HTTP	Used for providing HTTP service APIs.	No	Yes	Use the same port as Tomcat.
NTP Service	Time Synchronization Service (ntp)	123	UDP	Used for providing time-synchronization service based on NTP protocol.	No	No	
SVM (Software Version Management Service)	Web Service	8080	HTTP	HTTP service port used for searching software version.	No	Yes	Use the port of Tomcat component.
	NGINX Service	9164	HTTP	HTTP service port used for downloading software package.	Yes	Yes	Download component package via 9164 port.
	Database Service	7017	TCP	Used for Web service connecting database.	No	Yes	Use the same port as database component.
LSM	Session Service (javaweb)	9102	HTTP	Used for accessing Web service.	No	Yes	Replace the SSO service in core service.
		7017	TCP	Used for Web service connecting database.	No	Yes	Use the same port as database component.
LS	License Service (ls)	9174	HTTP	HTTP service port used for importing License file.	No	Yes	Replace the original License service in core service.
Local Tool	agent	8010	TCP	Used for communication between agent and central.	No	No	
		8422	TCP	Used for listening service.	No	No	
	Local Notification Proxy Service	Random	TCP	Proxy service port used for local notification.	No	No	Find any available port starting from 60001.

Component Ports

Component Identifier	Component	Service	Protocol	Port	Port Description	Configurable (Yes/No)	Port Location	Need Mapping (Yes/No)	Mapped Function	Remarks	
isupm	User Management	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.	
isfd	Basic Data	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.	
			HTTP	8380	Used for calling components.	Yes		No			
issc	System Configuration	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.	
rtree	Area Management	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.	
irds	Resource Catalog	IRDS	TCP	8378	Used for providing resource directory service	Yes		No			
uis	General Intelligent Service		UIS	TCP	8374	Used for providing general intelligent service.	Yes		No		
			UIS	TCP	8375	Used for commnucation btween internal processes.	Yes		No		
			UIS	TCP	8376	Reserved port for picture application.	Yes		Yes		Need being mapped when the service is in WAN.
vms	Video Surveillance Service	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.	
vod	VOD	VOD	WebSocket	6010	Cluster port used for receiving network shared cluster.	Yes		No		Used for shared network to get media streaming URL.	
			TCP/UDP	20002 to 22001	Used for streaming via TCP/UDP protocol.	Yes		Yes	UDP/TCP Port Segment		
			TCP	6001		Yes					
vnsc	Shared Video Network	VNSC	rtsp	6304	Used for RTSP playback.	Yes		Yes	RTSP Playback		
			TCP	8601	Used for providing resource management service (rms).	Yes		No		The Control Client calls this service to lock video.	
			TCP	8602	Used for providing media allocation service (mcs).	Yes		No		Check if the port has been mapped by NGINX.	
			TCP	8603	Used for providing media locating service.	Yes		No		The Control Client calls this service to search media location information.	
			TCP	8604	Used for RTPS streaming redirecting.	Yes		No			
			RTSP	554	Used for streaming via RTSP protocol.	Yes		Yes	RTSP Play		
mgc	Media Gateway	MGC	TCP	5010	Media cluster management port. Used for managing multiple media gateways.	Yes		No		Used for shared network to get media streaming URL.	
			RTMP	1935	Used for streaming via RTMP protocol.	Yes		Yes	RTMP Streaming		
			TCP	6014	WebSockets protocol listening port.	No		Yes			
			HLS	83	Used for streaming via HLS protocol.	Yes		Yes	HLS Streaming		
			WebSocket	559	Used for streaming via WebSocket protocol.	Yes		Yes	WebSocket Streaming		
			RTP	10000 to 13999	Port segment used for mgc streaming.	Yes		No		Compatible with 2.0 protocol, used for the decoder of old version.	
nms	Video Network Management	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.	
acs	Access Control Application	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.	
cis	Caching Application	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.	

ecs	Elevator Control Application Service	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.
pms	Parking Lot Service	Booth Client	TCP	8501	Used for commnucation btween internal processes.	Yes		No		
		Booth Client	TCP	8502	Used for picture service in offline service module.	Yes		No		
		Booth Client	TCP	8500	Used for parking lot application service.	Yes	Booth Client	No		The Client and the platform are in the same network domain.
		Booth Client	TCP	8600	Used for storing local picture when the booth is offline.	Yes		No		Dynamic IP is not supported.
		Self-Service Client	TCP	8505	Used for query and guidance service.	Yes	Self-Service Client	No		The Client and the platform are in the same networkdomain.
		Guidance Terminal Driver	TCP	8504	Used for receiving parking space event from guidance terminal.	Yes	DAC Mangement Page	No		Dynamic IP is not supported.
		TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes		No		Map with the Web Service port of NGINX Server.
	Bluetooth Listening Service	TCP	8345	Used for providing mobile phone bluetooth locating.	Yes		No			
ms	Map Application Service	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.
mbs	Map Service	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.
els	Event Linkage Service	TOMCAT	HTTP	-	Used for the communication between HTTP and other components.	Yes				Map with the Web Service port of NGINX Server.
esc	Event Service	ESC	TCP	6506	Used for the communication between the event service and other components.	Yes		No		
tvms	Video Wall	TVMS	HTTP	6720	Used for listening and receiving messages from the Control Client to video wall; configuring and controlling video wall to perform corresponding operations.	Yes		Yes		
dac	Device Access Component	das	TCP	7314	Used for streaming via WebSocket protocol on the Control Client.	Yes		Yes	WebSocket Streaming Port	Independent mapping.
			UDP	7660	Communication port for EHome device connecting to proxy service, registration, etc.	Yes		Yes	EHome device signaling port. Use UDP for signaling and UDP/TCP for alarm.	Need mapping when EHome device and EHome proxy service are in the different network domains.
			TCP	7660	Communication port for EHome device connecting to proxy service, registration, etc.	Yes		Yes	EHome device signaling port. Use UDP for signaling and UDP/TCP for alarm.	Need mapping when Ehome device and Ehome proxy service are in the different network domains.
			TCP	7662	Used for internal communication for EHome SDK library when the EHome device accesses the platform.	Yes		No		
			TCP	7302	Device access external signaling service port, used for receiving request about device operation.	Yes		No	HTTP Service	
			TCP	7031	Communication port for ISUP5.0 device connecting to proxy service, registration, etc.	Yes		Yes		
			TCP	7033	Used for receiving alarm from ISUP5.0 device.	Yes		Yes		
			TCP	655	Streaming port for device access component.	Yes		Yes	Streaming Port	
			TCP	7307	Used for receiving media cluster service scheduling.	Yes		No	Cluster Port	Used for shared network to get media streaming URL.
			UDP	15000 to 16999	EHome device streaming port. Used for receiving stream from EHome device.	Yes		Yes	Streaming and Communication Port	

			TCP	15000 to 16999	EHome device streaming port. Used for receiving stream from EHome device.	Yes		Yes	Streaming and Communication Port		
			UDP	19000 to 19999	Port segment for HIKVISION SDK device UDP streaming.	Yes		Yes	Streaming and Communication Port		
			TCP	17000	EHome device streaming port. Used for receiving live view stream from EHome 2.0 device, and live view and playback stream from EHome 4.0 device.	Yes		No	Streaming and Communication Port		
		dus	TCP	6019	Controlling port for device upgrade service.	Yes		No			
		ers	UDP	6003	Used for receiving redirecting registration from EHome 2.0/4.0 device.	Yes		Yes			
			TCP	7032	Used for receiving redirecting registration from ISUP 5.0 device.	Yes		Yes			
			TCP	8372	Used for managing and controlling EHome redirecting service.	Yes		No		Used for dms.	
		drv_vss_onvif_general	TCP	8101	Used for receiving alarm event from ONVIF device .	Yes		Yes		Need being mapped when the device is in WAN.	
iac	Intelligent Access Component	ias Service	TCP	9302	Used for proving intelligent access service.	Yes		No			
			HTTP/TCP	9321	Used for managing plug-ins.	Yes		No		Need mapping when the device is in WAN.	
			HTTP/TCP	9305	Used for receiving Hikvision Private ISAPI Protocol data.	Yes		No		Need mapping when the device is in WAN.	
			TCP	5682	Used for receiving Hikvision Private Goldway Protocol data.	Yes		No		Need mapping when the device is in WAN.	
			TCP	9307	Used for receiving Hikvision Private WIFI Protocol data.	Yes		No		Need mapping when the device is in WAN.	
			HTTP/TCP	9308	Used for receiving EHome protocol data.	Yes		No		Need mapping when the device is in WAN.	
			HTTP/TCP	9304	Used for receiving video library 1400 protocol data.	Yes		No		Need mapping when the device is in WAN.	
			HTTP/TCP	9312	Used for receiving IAC proxy service.	Yes		No		Need mapping when the device is in WAN.	
			TCP	9315	Used for receiving IAC Private Protocol data.	Yes		No			
ncg	Video Network Gateway	cascade Signaling Gateway	UDP/TCP	7100	Signaling port used for SIP protocol communication.	No		Yes	SIP Protocol Communication	SIP Communication port between different domains. Used for GB/T28181-2016 protocol communication.	
			TCP	7097	Used for communication between different domains via HIKVISION Private Protocol.	Yes		No		Provide service for HIKVISION protocol in different domains.	
			HTTP/TCP	7099	Resful Port	Yes		Yes	Provide APIs via Restful protocol.	HTTP service. Used for communication for APIs of video capability in Restful protocol.	
		ncg-db33 DB33 Signaling Service	UDP	7110	Signaling port used for SIP protocol communication.	Yes		Yes	SIP Protocol Communication	SIP Communication port between different domains. Used for DB33/T629-2011 protocol communication.	
		Media Gateway	TCP	7010	HTTP service port. Used for stream communication with cascade.	Yes		No			Used for the communication between cascade and media.
			TCP	6009	Used for streaming via WebSocket protocol.	Yes		Yes	WebSocket Streaming		
			TCP	7087	Used for streaming via RTSP protocol in the Control Client or between different domains.	Yes		Yes	RTSP Streaming		
TCP	7304		Used for uploading media streaming channel, resource occupation, etc.	Yes		No	WebSocket Communication		Used for shared network to get media streaming URL.		

			UTP/TCP	26100 to 26899	Port segment used for transmitting video stream.	Yes				
			UDP	8860/8862/8866/8868	Used for multicasting.	No		No		
		Web Service	TCP	8080	Used for accessing NCG management page.	Yes		No		
		Local Driver Proxy Service	HTTP/TCP	9181	HTTP service.	Yes		Yes		
paf	Probe Access Component	PAF	HTTP	9091	Used for enabling spring boot.	Yes		Yes		Map with the Web Service port of NGINX Server.
			HTTP	9092	Used for enabling spring boot.	Yes		Yes		
NTP	NTP Service	NTP	NTP	123		Yes		No		Used for device NTP checking.
smpps	Message Proxy Service	SMSPS	HTTP	8062	Used for providing message proxy service.	Yes		No		Map with the Web Service port of NGINX Server.
mailps	Email Proxy Service	MAILPS	HTTP	8063	Used for providing email proxy service.	Yes		No		Map with the Web Service port of NGINX Server.
sac	Storage Access Component	SAM	TCP	6300	Used for the communication between sac-sam and the platform.	Yes		No		
		SAM	TCP	6301	Used for the communication between sac-sam and sac-web.	Yes		No		
		SAM	TCP	6080	Port for users accessing sac via Web Client.	Yes		No		
		SAM	TCP	8106	SAC Web listening port, used for closing tomcat.	Yes		No		
		TOMCAT	HTTP	9012	Used for providing SAC Web service.	Yes		No		
		SAM	TCP	9013	Used for providing SAM Web service.	No		No		
		common_svr	TCP	9014	Used for providing common service.	No		No		
minio	minio	MINIO	TCP	9000	Used for accessing MINIO management page and object file.	No		No		
artemis	API Gateway	ARTEMIS	TCP	9016	Used for providing artemis-core service.	Yes		No		
			TCP	9017	Used for providing artemis-web service.	Yes		No		
			TCP	9018	Used for providing artemis-portal service.	Yes		No		
			TCP	9022	Reserved.	Yes		No		
			TCP	9023	Reserved.	Yes		No		
			TCP	9024	Reserved.	Yes		No		
			TCP	9025	Reserved.	Yes		No		

Storage Ports

Component Identifier	Component Name	Service Name	Protocol	Port	Port Description	Configurable (Yes/No)	Need Mapping (Yes/No)	Mapped Function	Remarks
asw	Storage Access Service	PSTORE	HTTP	6120	Used for picture URL redirection.	No	Yes	Upload and download picture.	
			HTTP	6041	Used for downloading picture data.	No	Yes	Upload and download picture.	
			HTTP	6011	Used for uploading picture.	No	Yes	Upload and download picture.	
			HTTP	6040	Used for uploading picture data.	No	Yes	Upload and download picture.	
			HTTP	6027	Used for uploading and downloading picture via KMS/PSS Protocol.	No	Yes	Upload and download picture via KMS/PSS Protocol.	
			HTTP	6201	Signaling port for storing object.	No	Yes	Object Storage	
			HTTP	6044	Used for downloading object file data.	No	Yes	Object Storage	
			HTTP	6045	Used for uploading object file data.	No	Yes	Object Storage	
			HTTP	6046	Gateway port for object storage protocol.	No	Yes	Object Storage	
			HTTPS	6060	Used for accessing ASW web page.	No	Yes	Web Configuration	
			HTTPS	6111	Used for picture URL redirection.	No	Yes	Upload and download picture.	
			HTTPS	6112	Used for uploading picture data.	No	Yes	Upload and download picture.	
			HTTPS	6113	Used for picture URL redirection.	No	Yes	Upload and download picture.	
			HTTPS	6114	Used for uploading picture data.	No	Yes	Upload and download picture.	
			HTTPS	6099	Connection pool for PostgreSQL database.	No	No		
CVR	Central Video Storage	CVR	HTTP	6120	Used for downloading picture.	No	Yes	Download picture.	
			HTTP	9011	Used for uploading picture data.	No	Yes	Upload picture.	
			HTTP	6011	Used for picture URL redirection.	No	Yes	Upload and download picture.	
			TCP	8000	Communication port for HIKVISION private protocol.	No	Yes	HIKVISION Private Protocol Communication	
			HTTPS	2004	Used for logging in HybridSAN Web page.	No	No		
			HTTP	6021	Signaling port used for cloud storage.	No	Yes	Signaling port for cloud storage.	
			HTTP	6201	Signaling port used for cloud storage Restful.	No	Yes	Signaling port for cloud storage Restful.	

Video Cloud Storage

Video Cloud Storage

VCS

HTTP	6011	Used for uploading picture via RESTful protocol.	No	Yes	Upload picture via RESTful protocol.	
HTTP	6120	Used for downloading picture via RESTful protocol.	No	Yes	Download picture via RESTful protocol.	
RTSP	6304	Listening port for VOD.	No	Yes	Listening port for VOD.	
HIKVISION Protocol	6061	Listening port for Internet Cloud.	No	Yes	Listening port for Internet Cloud.	
HIKVISION Protocol	8001	Listening port for Schedule Management Service.	No	Yes	Listening port for Schedule Management Service.	
HTTP	6001	Used for downloading picture directly.	No	Yes	Save picture directly.	
HTTP	8009	Used for downloading picture.	No	Yes	Download picture directly.	
HTTPS	5120	Used for accessing cloud storage Management page.	No	Yes	Access cloud storage Management page.	
HTTPS	5122	Used for accessing accelerating access cluster page.	No	Yes	Access accelerating access cluster page.	
HTTP	5121	Used for accessing Internet Cloud page.	No	Yes	Access Internet Cloud page.	
HTTPS	6204	Used for managing object HTTPS.	No	Yes	Manage object HTTPS.	
HTTP	8858	Listening port for ms.	No	Yes	Listening port for ms.	
HTTPS	6111	Used for getting the optimized node for picture.	No	Yes	Get the optimized node for picture.	
HTTPS	6113	Used for redirecting picture URL when downloading.	No	Yes	Redirect picture URL when downloading.	
HTTP	9011	Used for saving picture directly.	No	Yes	Save picture directly.	
HTTP	9012	Used for saving picture directly.	No	Yes	Save picture directly.	
HTTP	7001	Used for object REST.	No	Yes	Used for object REST.	
RTSP	6308	Used for listening VOD.	No	Yes	Used for listening VOD.	
HTTP	6801	Used for downloading picture.	No	Yes	Download picture.	
HTTPS	7104	Used for object HTTPS.	No	Yes	Object HTTPS Port	
HTTP	6901	Used for storing data.	No	Yes	Store data.	
HTTP	8008	Used for handling signaling.	No	Yes	Handle signaling.	
HTTP	9001	Used for transmitting data.	No	Yes	Transmit data.	
HTTP	9999	Used for sending heartbeat.	No	Yes	Send heartbeat.	

HTTP	6501	Used for picture URL redirecting.	No	Yes	Redirect picture URL.	
HTTPS	6112	Used for uploading picture data.	No	Yes	Upload picture HTTPS data.	
HTTPS	6114	Used for downloading picture data.	No	Yes	Download picture data.	
HTTPS	5125	Used for accessing maintenance system.	No	Yes		
HTTP	5126	Used for maintenance system to receive data.	No	No		
TCP	5432	Used for accessing Postgres database.	No	No		
UDP	1162	Used for open APIs of snmp.	No	Yes	Used for open APIs of snmp.	
HTTP	8618	Used for accessing agent maintenance system.	No	No		
HTTP	8617	Used for accessing video diagnose in maintenance system.	No	No		

Other Ports

Service	Protocol	Port	Port Description	Remark
SSH	TCP	55555	Remote open port for SSH.	
	TCP	22	Remote open port for SSH.	