HikCentral Access Control
System Requirements & Performance

Legal Information

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Please use this Document with the guidance and assistance of professionals trained in supporting the Product.

Contents

Chapter 1 System Requirements

OS for Server*	Microsoft® Windows 11 64-bit
	Microsoft® Windows 10 64-bit
	Microsoft® Windows 8.1 64-bit
	Microsoft® Windows 7 SP1 64-bit
	Microsoft® Windows Server 2019 64-bit
	Microsoft® Windows Server 2016 64-bit
	Microsoft® Windows Server 2012 R2 64-bit
	Microsoft® Windows Server 2012 64-bit
	Microsoft® Windows Server 2008 R2 SP1 64-bit
	For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) updated in April, 2014.
OS for Mobile Client	iOS 10.0 and later
	Android 6.0 and later
Database	PostgreSQL V11.8
Browser	Google Chrome® 90 and above
	Firefox® 90 and above
	Safari® 11 and above
	Microsoft® Edge 89 and above
	Internet Explorer® 11 and above

*Server refers to SYS (System Management Server).

Chapter 2 Server Performance

SYS Configurations				
Feature	**Desktop**		**Server**	
	Low-End	**Medium-End**	**Medium-End**	**High-End**
CPU	Intel® Core™ i3-8100 @ 3.60 GHz	Intel® Core™ i5-8100 @ 3.60 GHz	Intel® Xeon® E-2124 @ 3.30 GHz	Intel® Xeon® Silver 4110 @ 2.10 GHz
RAM	4 GB	8 GB	16 GB	16 GB
NIC	GbE Network Interface Card	GbE Network Interface Card	GbE Network Interface Card	GbE Network Interface Card
Disk for OS	Micron 1300 SATA SSD	Micron 1300 SATA SSD	Micron 1300 SATA SSD	Micron 1300 SATA SSD
Disk Capacity	At least 256 GB	At least 256 GB	At least 256 GB	At least 256 GB
OS	Microsoft® Windows 10 64-bit	Microsoft® Windows 10 64-bit	Microsoft® Windows Server 2019 64-bit	Microsoft® Windows Server 2019 64-bit
Maximum Performance				
Manageable Resources				
Managed Device IP Addresses *Including Access Control Devices and Elevator Control Devices*	64	256	1,024	
Alarm Inputs	64	512	3,000	5,000
Alarm Outputs	64	512	1,024	3,000
Access Points (Doors + Floors)	64	256	512	1,024
Video Intercom Devices	256	1,024	3,000	5,000

Network Transmission Devices	16	32	64	64
Recording Servers	4	16	32	64
Areas	256	512	1,024	3,000
Event & Alarm				
Event and Alarm Rules	32	64	3,000	10,000
User-Defined Event Rules	32	64	3,000	10,000
Events or Alarms Sent to Clients *The Clients refer to the Mobile Clients.*	● 10 events or alarms/s ● 50 Clients/s	● 20 events or alarms/s ● 100 Clients/s	● 120 events or alarms/s ● 100 Clients/s	● 120 events or alarms/s ● 100 Clients/s
Map				
Maps Linked to Each Area	1	64	64	64
Resolution	8192×8192			
Size for Each Map	10 MB			
Maps	64	128	512	1,024
Alarm Inputs on Maps in Total	64	512	3,000	5,000
Alarm Outputs on Maps in Total	64	512	1,024	3,000
Access Points on Maps in Total	64	256	512	1,024
User & Role				
Roles	8	100	1,000	3,000
Users	50	100	1,000	3,000
Roles Assigned to One User	8	16	50	100
Storage				
Data Retention Period	Stored for 3 Years			
Picture Storage *Including event and alarm pictures, face pictures*	10/s (Stored on SYS)	20/s (Stored on SYS)	20/s (Stored in SYS Server)	20/s (Stored in SYS Server)

Person				
Persons	3,000	10,000	30,000	50,000
Person Group Hierarchies	10			
Cards	15,000	50,000	150,000	250,000
Fingerprints	6,000	20,000	120,000	200,000
Profile Pictures	3,000	10,000	30,000	50,000
Irises	6,000	20,000	60,000	100,000
Resigned Persons	5,000	15,000	50,000	100,000
Resignation Types	100			
Size of Each Profile Picture	Recommended: 200 KB			
Access Control				
Access Levels	50	128	256	512
Access Points in One Access Level	4	32	32	32
Access Schedules	32			
Speed of Applying Persons' Access Level Settings to Device	● Total time duration for applying 100 cards: 5 seconds ● Total time duration for applying 100 fingerprints: 150 seconds ● Total time duration for applying 100 face credentials: 90 seconds ● Total time duration for applying 100 iris credentials: 5 seconds			
Anti-Passback Rules	16	32	64	128
Emergency Mustering				
Emergency Counting Groups	100			
Persons in Each Emergency Counting Groups	30	100	300	500
Time and Attendance				
Persons for Time and Attendance	300	50,000	50,000	50,000
Timetables	128			

Shifts	32	128	128	128
Holidays	32			
Predefined Attendance Reports	37			
Custom Layouts Based on Predefined Reports	512			
Custom New Reports Based on All Available Fields of System	128			
Overtime Types	128			
Leave Types	128			
Download Center				
Concurrent Downloading Tasks	5			
Download Center Historical Records	5,000			
Total Tasks to be Downloaded	500			
Employee Self-Service				
Online Employees (at the same time)	300	1,000	1,000	1,000
Approval Roles	60	100	100	100
Approval Flows	50	1,000	1,000	1,000
Review Nodes of an Approval Flow	5	100	100	100

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