

HikCentral Access Control System Requirements & Performance

Legal Information

© 2023 Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

This Document (hereinafter referred to be "the Document") is the property of Hangzhou Hikvision Digital Technology Co., Ltd. or its affiliates (hereinafter referred to as "Hikvision"), and it cannot be reproduced, changed, translated, or distributed, partially or wholly, by any means, without the prior written permission of Hikvision. Unless otherwise expressly stated herein, Hikvision does not make any warranties, guarantees or representations, express or implied, regarding to the Document, any information contained herein.

About this Document

Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Document is subject to change, without notice, due to updates or other reasons.

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

LEGAL DISCLAIMER

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE DOCUMENT IS PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. IN NO EVENT WILL HIKVISION BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, IN CONNECTION WITH THE USE OF THE DOCUMENT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

Contents

Chapter 1 System Requirements	1
Chapter 2 Server Performance	2

Chapter 1 System Requirements

	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			
OS for Server*	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			
OS for Mobile Client	Android 6.0 and later			
Database	PostgreSQL V11.8			
	Google Chrome® 90 and above			
	Firefox® 90 and above			
Browser	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
СРИ	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
	Ma	ximum 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

16	32	64	64	
4	16	32	64	
256	512	1,024	3,000	
32	64	3,000	10,000	
32	64	3,000	10,000	
10 events or alarms/s50 Clients/s	20 events or alarms/s100 Clients/s	120 events or alarms/s100 Clients/s	120 events or alarms/s100 Clients/s	
1	64	64	64	
8192×8192	8192×8192			
10 MB				
64	128	512	1,024	
64	512	3,000	5,000	
64	512	1,024	3,000	
64	256	512	1,024	
8	100	1,000	3,000	
50	100	1,000	3,000	
8	16	50	100	
Stored for 3 Year	Stored for 3 Years			
10/s (Stored on SYS)	20/s (Stored on SYS)	20/s (Stored in SYS Server)	20/s (Stored in SYS Server)	
	4 256 32 32 10 events or alarms/s 50 Clients/s 1 8192×8192 10 MB 64 64 64 64 64 64 64 10/s (Stored on	4 16 256 512 32 64 32 64 ■ 10 events or alarms/s ■ 50 Clients/s 1 64 8192×8192 10 MB 64 128 64 512 64 512 64 512 64 256 8 100 50 100 8 16 Stored for 3 Years 10/s (Stored on SYS)	4 16 32 1,024 32 64 3,000 32 64 3,000 ● 10 events or alarms/s ● 50 Clients/s 1 64 64 64 8192×8192 10 MB 64 128 512 3,000 64 512 3,000 64 512 1,024 64 512 1,024 64 5512 1,024 65 550 100 1,000 8 16 50 Stored for 3 Years 10/s (Stored on SVS) 20/s (Stored in SYS)	

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 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	Download Center				
Concurrent Downloading Tasks	5	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	

