

How to Set Up a Hot Spare Scenario

Quick Start Guide

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Chapter 1 Overview

This document is about how to set up a hot spare scenario and operate for Hik IP Receiver Pro V1.4.0. The hot spare solution is to connect up to four IP Receiver Pros with a Hik-ProConnect account, so that information including devices, partitions (areas), and events can be saved on the cloud. In this way, if a certain IP Receiver Pro crashes, the information on another Hik IP Receiver Pro will be synchronized with that saved on Hik-ProConnect. The major steps are displayed as follows.



Chapter 2 Configure Hot Spare Settings

This chapter describes the preparation required for setting up a hot spare environment and the steps to configure hot spare settings. You can configure each IP Receiver Pro respectively and connect all of them with the same Hik-ProConnect account.

2.1 Before You Start

The hot spare service supports up to four IP Receiver Pros. Each IP Receiver Pro is installed on a different PC, but each IP Receiver Pro needs to be set with the same Hik-ProConnect Address, ARC ID and ARC Key on the Hik-ProConnect page and connect to the ARC (the ARC1, the ARC2, the ARC3, and the ARC4).

For example, the 4 IP Receiver Pros' addresses are as follows: http://10.66.163.162:81/, http://10.66.163.164/, http://10.66.163.175/, http://172.7.12.186/. They are all connected to the ARC using the SIA-DCS protocol and their connection status is Connected. As shown in the figure below.

← → C ▲ Not secure 10	.66.163.162:81/ho	me/gatewayConfiguration/HPC	
HIKVISION Device	Configuration	Automation Output	
📙 Hik-ProConnect			
System	Parameters	Hot Spare Settings	
🖧 Maintenance		Hik-ProConnect Address *	https://hpc-sgp-uat-3.hik-proconnect.com
Network		User Name (ARC ID) *	245zdRcCg3
🖹 Storage		Password (ARC Key) *	
		Connection Status	Connected
			G0 () Configure device port mapping to enable dual-connection.
			Save

1. 10.66.163.162:

← → C ▲ Not secure 10	.66.163.162:81/home/protocolManagement/surGard
HIKVISION Device	Configuration Automation Output
Protocol	Enable 🔽
🗟 Event Monitor	
🛱 Event	⑦ * Protocol Type SIA-DCS ∨
	* IP Address 10.66.163.162
	* Port 1025
	*Receiver Number 0 Enable
	* Line Card Number 0
	Enable Video Verification
	* Response Timeout Period 20 s
	*Attempts 3
	Enable Hik IP Receiver Pro Heartbeat
	* Hik IP Receiver Pro Heartbeat Interval 30 s
	⑦ * Device Heartbeat Interval 30 s
	Connection Status 🔮 Connected
	Save

2. 10.66.163.164:

\leftarrow \rightarrow C \blacktriangle Not secure 10.	66.163.164/home	/gatewayConfiguration/HPC
MIKVISION Device	Configuration	Automation Output
📕 Hik-ProConnect		
 System 	Parameters	Hot Spare Settings
🛆 Maintenance		Hik-ProConnect Address * https://hpc-sgp-uat-3.hik-proconnect.com
Network		User Name (ARC ID) * 245zdRcCg3
🖹 Storage		Password (ARC Key) *
		Connection Status 🔮 Connected
		Go O Configure device port mapping to enable dual-connection.
		Save

← → C ▲ Not secure 10	0.66.163.164/home/protocolManagement/surGard	
HIKVISION Device	Configuration Automation Output	
🕮 Protocol		
🗟 Event Monitor		
🛱 Event	⑦ * Protocol Type SIA-DCS ∨	
	* IP Address 10.66.163.164	
	* Port 1025	
	* Receiver Number 0 Ena	able
	* Line Card Number 0	
	Enable Video Verification	
	* Response Timeout Period 20 s	
	* Attempts 3	
	Enable Hik IP Receiver Pro Heartbeat	
	* Hik IP Receiver Pro Heartbeat Interval 30 s	
	* Device Heartbeat Interval 30 s	
	Connection Status 🔮 Connected	
	Save	

3. 10.66.163.175:

\leftarrow \rightarrow C \blacktriangle Not secure 10.6	56.163.175/home/	gatewayConfiguration/HPC
HIKVISION Device	Configuration	Automation Output
Hik-ProConnect	Deventer	
System	Parameters	Hot Spare Settings
යි Maintenance		Hik-ProConnect Address * https://hpc-sgp-uat-3.hik-proconnect.com
Network		User Name (ARC ID) * 245zdRcCg3
🖺 Storage		Password (ARC Key) *
		Connection Status 🥝 Connected
		Go O Configure device port mapping to enable dual-connection.
		Save

← → C ▲ Not secure 10).66.163.175/home/protocolManageme	ent/surGard		
HIKVISION Device	Configuration Automation Output			
Protocol		Enable		
Event Monitor		Litable		1
🛱 Event		Protocol Type	SIA-DCS ~]
		* IP Address	10.66.163.175]
		* Port	1025]
		* Receiver Number		Enable
		*Line Card Number	0]
		Enable Video Verification		
		* Response Timeout Period	20 S]
		* Attempts	3]
		Enable Hik IP Receiver Pro Heartbeat	\checkmark	
		* Hik IP Receiver Pro Heartbeat Interval	30 S]
		* Device Heartbeat Interval	30 S]
		Connection Status	Connected	
			Save	

4. 172.7.12.186:

\leftarrow \rightarrow C \blacktriangle Not secure 17	2.7.12.186/home/	gatewayConfiguration/HPC
HIKVISION Device	Configuration	
Hik-ProConnect	8	
System	Parameters	Hot Spare Settings
🖧 Maintenance		Hik-ProConnect Address * https://hpc-sgp-uat-3.hik-proconnect.com
Network		User Name (ARC ID) * 245zdRcCg3
🖹 Storage		Password (ARC Key) *
		Connection Status 🔮 Connected
		G0 () Configure device port mapping to enable dual-connection.
		Save

← → C ▲ Not secure 17	2.7.12.186/home/protocolManagement/surGard	
HIKVISION Device	Configuration Automation Output	
Protocol	Enable	
Event Monitor	Linde	
🛱 Event	⑦ * Protocol Type	SIA-DCS ~
	* IP Address	172.7.12.186
	* Port	1025
	* Receiver Number	0 Enable
	*Line Card Number	0
	Enable Video Verification	
	* Response Timeout Period	20 s
	*Attempts	3
	Enable Hik IP Receiver Pro Heartbeat	\checkmark
	* Hik IP Receiver Pro Heartbeat Interval	30 S
	⑦ * Device Heartbeat Interval	30 s
	Connection Status	Connected
		Save

2.2 Configure Hot Spare Settings

1. Login to http://10.66.163.162:81/, click **Configuration** -> **Hik-ProConnect** -> **Hot Spare Settings**. (In this case, 10.66.163.162 is selected as the host server.)

HIKVISION Device	Configuration	Automation Output			
K HIK-ProConnect	Parameters	Hot Spare Settings			
System					
🛆 Maintenance		Enable Hot Spare			
Network		ID	4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C		
🖺 Storage		Hot Spare Role			
			 The backup priority of the host server, spare server 	1, spare server 2, and spare server 3 is in c	lescending order.
		Hot Spare Details	ID	Hot Spare Role	Working Status
				No Data	
		Backup Information	Backup File	Updated At	Update Status
				No Data	
			Save		

2. Configure the host server:

1) Login to http://10.66.163.162:81/, check the Enable Hot Spare, and select Host Server as the Hot Spare Role.

$\leftarrow \rightarrow C$ (A Not secure 10.6	66.163.162:81/hom	e/gatewayConfiguration/H	HPC			
HIKVISION Device	Configuration					
K Hik-ProConnect	Parametera	List Cases Calificas				
③ System	Parameters	Hot Spare Settings				
යි Maintenance			Enable Hot Spare			
Network			ID	4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C		
🖹 Storage			Hot Spare Role	Host Server ^]	
				Host Server	r 1, spare server 2, and spare server 3	is in descending order.
			Hot Spare Details	Spare Server1 Spare Server2	Hot Spare Role	Working Status
				Spare Server3	No Data	
			Backup Information	Backup File	Updated At	Update Status
					No Data	
			Г			
			L	Save		

iNote

- ID is the unique identifier of the IP Receiver Pro currently in use.
- The host server should be configured before spare servers.
- 2) Click Save.

Result

You will see that the current IP Receiver Pro ID is displayed as a host server in the Hot Spare Devices table, and the status is working. As shown in the figure below, ID 4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C is the only identifier of the IP Receiver Pro whose IP address is 10.66.163.162. The """ at the upper left corner of the ID column means that the ID represents the IP Receiver Pro in use.

\leftrightarrow \rightarrow C A Not secure 10	.66.163.162:81/hon	ne/gatewayConfiguration/HPC			
HIKVISION Device	Configuration	Automation Output			
Kik-ProConnect	Parameters	Hot Spare Settings			
System					
A Maintenance		Enable Hot Spare			
Network		ID	4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C		
🖺 Storage		Hot Spare Role	Host Server 🗸		
			The backup priority of the host server, spare server 1	, spare server 2, and spare server 3 is in	descending order.
		Hot Spare Details	ID	Hot Spare Role	Working Status
			4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
		Packup Information			
		Backup mormation	Backup File	Updated At	Update Status
				No Data	
			2 310		
			Jave		

- 3. Configure spare servers.
 - 1) Login to http://10.66.163.164/, check the Enable Hot Spare, and select Spare Server1 as the Hot Spare Role.

← → C ▲ Not secure 10	0.66.163.164/home/g	atewayConfiguration/HPC				
HIKVISION Device	Configuration	Automation Output				
Hik-ProConnect	Deremeters	List Coore Cottings				
 System 	Parameters					
🛆 Maintenance			Enable Hot Spare			
Network			ID	19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74		
E Storage			Hot Spare Role	Spare Server1 ^		
				Host Server	1, spare server 2, and spare server 3 is in des	cending order.
				Spare Server1		
			Hot Spare Details	Spare Server2	Hot Spare Role	Working Status
				Spare Server3	Host Server	
			Backup Information	Backup File	Updated At	Update Status
					No Data	
			[Save		

iNote

The host server is already selected in step 2, so the current IP Receiver Pro can only be selected as a spare server.

2) Click Save.

Result

You will see that the current IP Receiver Pro ID is displayed as spare server1 in the Hot Spare Devices table, and the status is standby. As shown in the figure below, ID 19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74 is the only identifier of the IP Receiver Pro whose IP address is 10.66.163.164.

← → C ▲ Not secure 10.6	56.163.164/home/g	atewayConfiguration/HPC				
MIKVISION Device	Configuration					
Hik-ProConnect						
System	Parameters	Hot Spare Settings				
💩 Maintenance			Enable Hot Spare	\checkmark		
Network			ID	19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74		
E Storage			Hot Spare Role	Spare Server1 ~		
				() The backup priority of the host server, spare server 1, s	pare server 2, and spare server 3 is in det	scending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Standby
			Backup Information		1	
				Backup File	Updated At	Update Status
				IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T11:49:42+08:00	Updating
				Save		

4. Follow the steps in step 3 to configure http://10.66.163.175 (ID: 79D62212-1E88-4DB9-9FC4-3FB1167C924F) as spare server2 and http://172.7.12.186 (ID: A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26) as spare server3, as shown in the following figure.

\leftrightarrow \rightarrow C A Not secure 10.	.66.163.175/home/g	atewayConfiguration/HPC				
HIKVISION Device	Configuration	Automation Output				
📕 Hik-ProConnect						
System	Parameters	Hot Spare Settings				
A Maintenance			Enable Hot Spare	✓		
Network			ID	79D62212-1E88-4DB9-9FC4-3FB1167C924F		
🖺 Storage			Hot Spare Role	Spare Server2 The backup priority of the host server, spare server 1, sp	are server 2, and spare server 3 is in desc	ending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Standby
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
			Backup Information	Backup File	Updated At	Update Status
				IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T11:49:42+08:00	Updating
				Save		

← → C ▲ Not secure 172	2.7.12.186/home/g	atewayConfiguration/HPC				
HIKVISION Device	Configuration					
Hik-ProConnect						
System	Parameters	Hot Spare Settings				
A Maintenance			Enable Hot Spare			
Network			ID	A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26		
🖺 Storage			Hot Spare Role	Spare Server3		
				The backup priority of the host server, spare server 1, .	spare server 2, and spare server 3 is in des	cending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Standby
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Backup Information	Backup File	Updated At	Update Status
				IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T11:49:42+08:00	Updated
				Save		

Chapter 3 Synchronize Backup Information

The backup information saved on Hik-ProConnect from IP Receiver Pro includes the devices, device-linked partitions (areas), zones, channels, users and their devices, and events.

If the above information changes, the host server will back up its information to Hik-ProConnect, and the spare servers will get the newest information from Hik-ProConnect every 60 seconds and update the information on the spare servers. In the **Backup Information** table, you can view the file name, updating time, as well as update status.

For operations such as device management (add devices, delete devices, and edit device information), configurations (configure device-linked partitions, zones, and channels), user management (add users, delete users, and edit user information), and event management (add events, delete events, edit events, and import events), you can only edit them on the IP Receiver Pro which is set as the host server. Backup information on spare servers (spare server1, spare server2, and spare server3) cannot be changed.

To display how spare servers synchronize backup information with the host server, this chapter takes the example of adding a device to the IP Receiver Pro whose role is the host server.

1. Add a device to the host server (the IP Receiver Pro whose IP address is 10.66.163.162).

 ↔ → c HIKVIS 	A Not secure	10.66.163.162:81/hom	e/deviceManagen	nent/alarmHost							유 ad	min ③ Helj	• \$	t 🕒 i
Device	Number: 4 +	Add X Delete S	Refresh Sync	hronize Device Information	n						Dev	ice Serial/Nami	e/Account	Q
	Device Name	Serial No.	Account ID	Device Model	Device Version	Connecting Mode	Device Status	Alarm Times	First Alarm Time	Last Alarm Time	Activation Status	Operation		
	AX PRO	0000	1234	10000	V1.2.6 build 2	Dual-Connection	Online(HPC)	0	1	1	Activate	e d /	ч×.	
	2222	<i>i</i>	2222	1	1	ISUP	Offline	0	1	i.	Activate	e d /	R X	
	3333	1	3333	1	1	ISUP	Offline	0	1	1	Activate	e d /	ч×	
	4444	1	4444	1	7	ISUP	Offline	0	1	1	Activate		R X	
Total 4	20 /page 🗸 🗸											1 /	1	Go

2. On the Hot Spare Settings page of the host server, wait for 1 minute, and you will see that the backup information has been uploaded to Hik-ProConnect.

\leftarrow \rightarrow C \blacktriangle Not secure 10.	.66.163.162:81/home	/gatewayConfiguration/HPC				
HIKVISION Device	Configuration					
📕 Hik-ProConnect						
System	Parameters	Hot Spare Settings				
A Maintenance			Enable Hot Spare	\checkmark		
Network			ID	4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C		
🖺 Storage			Hot Spare Role	Host Server 🗸		
			L	The backup priority of the host server, spare server 1, s	pare server 2, and spare server 3 is in des	scending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Standby
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Backup Information			1
				Backup File	Updated At	Update Status
				IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T13:51:20+08:00	Updated
				Save		

3. On the Hot Spare Settings page of the spare server1, wait for another 1 minute, and you will see that the backup information has been updated.

$- \rightarrow C$ (A Not secure	10.66.163.164/home,	gatewayConfiguration/HPC				
HIKVISION Devic	e Configuration					
📙 Hik-ProConnect	Parameters	Hot Spare Settings				
System						
🛆 Maintenance			Enable Hot Spare	\checkmark		
Network			ID	19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74		
E Storage			Hot Spare Role	Spare Server1 ~		
				 The backup priority of the host server, spare server 1, s 	pare server 2, and spare server 3 is in des	scending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Standby
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Backup Information	Backup File	Updated At	Update Status
				IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T13:51:20+08:00	Updated
				Save		

4. Check the device list on IP Receiver Pro of spare server1, it shows that the device list on the host server has been synchronized to spare server1, as shown in the following figure.

← → c	Not secure 10.6	56.163.164/home/d	deviceManagement	/alarmHost								☆ ⊖
HIKVIS	510N Device										, A ac	imin 💿 Help 🗸 🕞 Log Out
Device	Number: 4 + Ad	d $ imes$ Delete $ \mathbb{S} $	∜Refresh ∬ Synch	ronize Device Informati	on						Dev	ice Serial/Name/Account Q
	Device Name	Serial No.	Account ID	Device Model	Device Version	Connecting Mode	Device Status	Alarm Times	First Alarm Time	Last Alarm Time	Activation Status	Operation
	AX PRO	10000	1234	DS-PWA96-M	100000	HPC	Online	0	1	1	Activate	R B A X
	2222	1	2222	1	1	ISUP	Offline	0	1	1	Activate	C i A X
	3333	1	3333	1	1	ISUP	Offline	0	1	1	Activate	
	4444	1	4444	1	1	ISUP	Offline	0	1	1	Activate	
Total 4	20 /page V											1 /1 Go

5. The device list on spare server2 and spare server3 are both in sync with the device list on

the host server.

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VISION Device Ordingunda Addimation Oxford WISION Device Ordingunda Addimation Oxford Hik-ProConnect Parameters Mick Spare Settings Exable Hot Spare Image: Connect Spare System Image: Connect Spare Image: Connecon Spare Image: Connect Spare </th <th>A C O Not se</th> <th>ecure 10.66.163.175/h</th> <th>ome/gate</th> <th>ewayConfiguration</th> <th>HPC</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	A C O Not se	ecure 10.66.163.175/h	ome/gate	ewayConfiguration	HPC								
AVSS/0V Ceve Configuration Automation Conput Hitk-ProConnect Farameters Hot Spare Settings System ID 79052212-1588-4058-9FC-4.5F51167C524F Nazatenance ID 79052212-1588-4058-9FC-4.5F51167C524F Storage ID 79052212-1588-4059-9FC-4.5F51167C524F Storage ID 79052212-1588-4059-9FC-4.5F51167C524F Storage ID Hot Spare Role Working Status ID Hot Spare Detail ID Hot Spare Role Working Status ID Hot Spare Detail ID Hot Spare Server1 Standy ID Hot Spare Detail ID Hot Spare Server1 Standy ID Hot Spare Detail ID Hot Spare Server1 Standy ID Hot Spare Role Working Standy ID ID Hot Spare Role Working Status ID Hot Spare Role Working Status ID Hot Spare Role Working Status ID Hot Spare Role Working Status ID Hot Spare Role Working Status ID Hot Spare Role Working Status <th></th> <th>ecure 10.00.103.173/h</th> <th>ome/gate</th> <th>ewayconnguration/</th> <th>ne</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		ecure 10.00.103.173/h	ome/gate	ewayconnguration/	ne								
HAR-PROCONCEL Parameter Parameter System Exable Hots Spare I Network I 7505221-EB8-40B9-6FC4-5F1167024F Storage I 7505221-EB8-40B9-6FC4-5F1167024F Storage I 7505221-EB8-40B9-6FC4-5F1167024F Storage I 10 File Spare Role Working State I ID Restruction of the hots spare State I Restruction of the hots spare State Spare State I Restruction of the hots spare State Spare State I Restructin of the hots spare State Spar	VISION	Device Configurati	on Au	utomation Output									
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MKVISION Device	Configuration A	utomation Output				
Hik-ProConnect	Parameters	Hot Spare Settings				
System Maintenance			Enable Hot Spare			
Network			ID	A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26		
E Storage			Hot Spare Role	Spare Server3 The backup priority of the host server, spare server 1,	spare server 2, and spare server 3 is in d	descending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Standby
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Backup Information			

Activate

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Updated

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\leftrightarrow \rightarrow	C 🔺 Not secure :	172.7.12.186/home/	'deviceManagement/	/alarmHost								or ☆ 🖰 :
HIKV	ISION Device	Configuration									Я a	dmin ⑦ Help ∽ 🕞 Log Out
Devi	se Number: 4 +	Add X Delete	⊖ Refresh 📲 Syncl	hronize Device Informati	on						De	vice Serial/Name/Account Q
	Device Name	Serial No.	Account ID	Device Model	Device Version	Connecting Mode	Device Status	Alarm Times	First Alarm Time	Last Alarm Time	Activation Status	Operation
	AX PRO	1000	1234	10000	V1.2.6 build 2	HPC	Online	0	1	1	Activate	C i A X
	2222	1	2222	1	1	ISUP	Offline	0	1	1	Activate	C i A X
	3333	1	3333	1	1	ISUP	Offline	0	1	1	Activate	REAX
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Total	4 20 /page ~											1 / 1 Go

Chapter 4 Switch Among Hot and Spare Servers

Normally, the host server is in working status and spare servers (spare server1, spare server2, spare server3) are in standby status, as shown in the following figure. Only the IP Receiver Pro in the working status forwards alarms to the ARC, and the IP Receiver Pros in the other status do not forward alarms to the ARC.

Hitk-ProConnect Parameters Hot Spare Settings Image: System Parameters Hot Spare Settings Image: Maintenance Image: Maintenance Image: Maintenance Image: Maintenance Image: Maintenance Image: Maintenance	→ C A Not secure 10.6	66.163.162:81/hom	e/gatewayConfiguration/HP	с			
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 Parameters Hot spare Settings Maintenance Enable Hot Spare I ID 4E1185F1-6449-4F5D-9B43-3B1C7ED6516C Storage Hot Spare Role Hot Spare Role Working Status 4E1185F1-6449-4F5D-9B43-3B1C7ED6516C 	Hik-ProConnect						
▲ Maintenance Enable Hot Spare ● Network ID ▲ Storage Hot Spare Role Hot Spare Role ID ● The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order. Hot Spare Cole ID Hot Spare Cole ID Hot Spare Cole Working Status 4E1189F1-6449-4F5D-9843-381C7ED6516C Host Server	③ System	Parameters	Hot Spare Settings				
ID 4E1183F1-6449-4F5D-9B43-3B1C7ED6516C ID Korage Hot Spare Role Hot Server ID The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order. Hot Spare Details ID ID Hot Spare Role Working Status 4E1183F1-6449-4F5D-9B43-3B1C7ED6516C Host Server Working Status	🖒 Maintenance			Enable Hot Spare			
Hot Spare Role Host Server Image: The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order. Hot Spare Details Image: The backup priority of the host server, spare server 2, and spare server 3 is in descending order. Hot Spare Details Image: The backup priority of the host server, spare server 2, and spare server 3 is in descending order. Hot Spare Details Image: The backup priority of the host server, spare server 3 is in descending order. Hot Spare Details Image: The backup priority of the host server, spare server 4, spare Role Working Status 4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C Host Server Working	D Network			ID	4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C		
The backup priority of the host server, spare server 1, spare server 2 and spare server 3 is in descending order. Hot Spare Details ID Hot Spare Cole Working Status 4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C Host Server Working	∃ Storage			Hot Spare Role	Host Server V		
Hot Spare Details ID Hot Spare Role Working Status 4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C Host Server Working					The backup priority of the host server, spare server 1, s	pare server 2, and spare server 3 is in des	cending order.
4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C Host Server Working				Hot Spare Details	τρ	Hot Spare Role	Working Status
					4E11B3E1.6/49.4E5D.9B43.3B1C7ED6516C	Host Server	Working
1002005 EDD 4ED 4ED 4ED 2005 David						Page Pagerd	Standby
13003FUF-EF-C0-4FU2-34EU-020BF0UE22014 Spare Server 1 Stanuuy					13063F0F-EFC6-4FD2-34E0-6200F6DE2074	Spare Server I	Stanuby
79D62212-1E88-4DB9-9FC4-3FB1167C924F Spare Server2 Standby					79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26 Spare Server3 Standby					A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
				Dealers Information			
Backup Information Backup File Updated At Update Status				Backup Information	Backup File	Updated At	Update Status
IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4 2022-01-24T13:51:20+08:00 Updated					IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T13:51:20+08:00	Updated
Save					Save		

• Once an exception occurs to the host server, the host server will no longer get alarms from Hik-ProConnect. The spare server1 will start to get alarms (including cached alarms during switching) from Hik-ProConnect and forward alarms to the ARC within 5 minutes. After 5 minutes, on the Hot Spare Settings page of spare server1, you will see that the host server is offline, spare server1 is in working status, and spare server2 and spare server3 are in standby status, as shown in the following figure.

\leftrightarrow \rightarrow C \blacktriangle Not secure 10.	66.163.164/home/ga	atewayConfiguration/HPC				
HIKVISION Device	Configuration					
🖪 Hik-ProConnect						
 System 	Parameters	Hot Spare Settings				
🛆 Maintenance			Enable Hot Spare	\checkmark		
Network			ID	19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74		
E Storage			Hot Spare Role	Spare Server1 The backup priority of the host server, spare server 1, spare	pare server 2, and spare server 3 is in des	cending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Offline
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Working
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Backup Information	Backup File	Updated At	Update Status
				IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T13:51:20+08:00	Updated
				Save		

 If an exception occurs to spare server1, spare server2 is automatically switched to working status. 5 minutes later, the Hot Spare Settings page of spare server 2 will show that the host server and spare server1 are offline, spare server2 is working, and spare server3 is in standby status, as shown in the following figure.

\leftarrow \rightarrow C (i) Not secure 10	0.66.163.175/home/	/gatewayConfiguration/HPC				
HIKVISION Device	Configuration					
📕 Hik-ProConnect	Deremetern	List Coore Cattings				
System	Parameters	Hot Spare Settings				
💩 Maintenance			Enable Hot Spare			
Network			ID	79D62212-1E88-4DB9-9FC4-3FB1167C924F		
🖹 Storage			Hot Spare Role	Spare Server2		
				() The backup priority of the host server, spare server	1, spare server 2, and spare server 3 is in des	cending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Offline
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Offline
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Working
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Paskup Information			
			Backup Information	Backup File	Updated At	Update Status
					No Data	
				Save		

 If an exception also occurs to spare server2, spare server3 is automatically switched to working status. 5 minutes later, the Hot Spare Settings page of spare server3 will show that the host server, spare server1, and spare server2 are offline, spare server3 is in working status, as shown in the following figure.

\leftrightarrow \rightarrow C A Not secure 172	2.7.12.186/home/g	atewayConfiguration/HPC				
HIKVISION Device	Configuration					
Hik-ProConnect						
System	Parameters	Hot Spare Settings				
A Maintenance			Enable Hot Spare	\checkmark		
Network			ID	A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26		
🖺 Storage			Hot Spare Role	Spare Server3 ~		
				The backup priority of the host server, spare server 1,	spare server 2, and spare server 3 is in des	cending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Offline
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Offline
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Offline
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Working
			Postup Information			
			васкир іпіогтаціон	Backup File	Updated At	Update Status
				IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T13:51:20+08:00	Updated
				Save		

 If the host server is back to normal, the working status of the host server will be automatically switched to Working. The Hot Spare Settings page will show that the host server is working, spare server1 and spare server2 are offline, and spare server3 is in standby status, as shown in the figure below.

\leftrightarrow \rightarrow C (i) Not secure 10.0	66.163.162:81/home	e/gatewayConfiguration/H	IPC			
HIKVISION Device	Configuration	Automation Output				
📕 Hik-ProConnect	Parameters	Hot Spare Settings				
System	Farameters					
🛆 Maintenance			Enable Hot Spare			
Network			ID	4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C		
🖺 Storage			Hot Spare Role	Host Server 🗸		
				The backup priority of the host server, spare server 1,	spare server 2, and spare server 3 is in de	scending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Offline
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Offline
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Backup Information	Destroy Tile	The desired Au	The data Status
				Dackup rile	Opdated At	Opdate Status
					No Data	
				Save		

• If spare server1 and spare server2 are also back to normal, they will be automatically switched to standby status. The Hot Spare Settings page will show that the host server is working, spare server1, spare server2, spare server3 are in standby status, as shown in the following figure.

\leftrightarrow \rightarrow C A Not secure 10.	.66.163.162:81/home	e/gatewayConfiguration/HPC				
MIKVISION Device	Configuration					
R Hik-ProConnect						
System	Parameters	Hot Spare Settings				
A Maintenance			Enable Hot Spare	\checkmark		
Network			ID	4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C		
Storage			Hot Spare Role	Host Server 🗸		
				The backup priority of the host server, spare server 1, s	pare server 2, and spare server 3 is in des	cending order.
			Hot Spare Details	D	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Standby
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Backup Information			
			Dackup mormation	Backup File	Updated At	Update Status
				IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4	2022-01-24T13:51:20+08:00	Updated
				Save		

Chapter 5 Dual-Connection in the Hot Spare Scenario

Only the devices added to the host server can be connected in dual-connection mode.

HIKVISI	ON Device	Configuration	Automation Output								A	admin 🎯 Help -	🕞 Log Out
Device N	umber: 1 + Add	$ imes$ Delete $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Refresh 📲 Synchr	ronize Device Informatio	m							Device Serial/Name/Acc	ount Q
	Device Name	Serial No.	Account ID	Device Model	Device Version	Connecting Mode	Device Status	Alarm Times	First Alarm Time	Last Alarm Time	Activation St.	. Operation	
	AX PRO		0788	DS-PWA96-M	V1.2.4 build 2	Dual-Connection	Online(ISUP)	93	2022-01-04T13:48:4	2022-01-04T13:48:5	Activate	C ā A	×
Total 1	20 /page 🗸					-						1 /1	Go

The devices on spare servers can only be connected by HPC.

HIKVISION												dmin ⑦ Help ∝ 🕞 Log Out
Device Number: 1	+ Ad	d 🗙 Delete 😅 R	tefresh 📗 Synchro	nize Device Information	n						De	vice Serial/Name/Account Q
Device Na	me	Serial No.	Account ID	Device Model	Device Version	Connecting Mode	Device Status	Alarm Times	First Alarm Time	Last Alarm Time	Activation St	Operation
AX PRO		1000	0788	DS-PWA96-M	V1.2.4 build 2	Dual-Connection	Online(HPC)	0	7	1	Activate	C <u>B</u> A X
Total 1 20 /page	~											1 /1 Go

Chapter 6 Disable Hot Spare Settings

To disable hot spare settings, go to the Hot Spare Settings page, uncheck **Enable Hot Spare**, and then click **Save**.

← → C ▲ Not secure 10.	66.163.164/home/ga	atewayConfiguration/HPC				
HIKVISION Device	Configuration	Automation Output				
Kik-ProConnect						
System	Parameters	Hot Spare Settings				
🖒 Maintenance			Enable Hot Spare			
Network			ID	19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74		
🖺 Storage			Hot Spare Role			
				The backup priority of the host server, spare server 1	spare server 2, and spare server 3 is in de	scending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	Working
				19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74	Spare Server1	Standby
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	Standby
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	Standby
			Backup Information		1	1
				Backup File	Updated At	Update Status
			-	IPRP_Backup_2452dRcCg3_4E11B3F1-6449-4	. 2022-01-24114:09:53+08:00	Updated
				Save		
			[IPRP_Backup_245zdRcCg3_4E11B3F1-6449-4.	. 2022-01-24T14:09:53+08:00	Updated

• If you disable hot spare service on an IP Receiver Pro whose role is a spare server (spare server1, spare server2, or spare server3), only the hot spare role mentioned above will be disabled and all backup information on IP Receiver Pro will be cleared, as shown in the figure below.

← → C ▲ Not secure 10	.66.163.164/home/g	atewayConfiguration	n/HPC			
HIKVISION Device	Configuration	Automation Output				
Hik-ProConnect						
System	Parameters	Hot Spare Settin	gs			
🛆 Maintenance			Enable Hot Spare			
Network			ID	19B63F0F-EFC6-4FD2-94E0-62BBF6DE2B74		
🖹 Storage			Hot Spare Role			
				The backup priority of the host server, spare server	r 1, spare server 2, and spare serv	er 3 is in descending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
				4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C	Host Server	
				79D62212-1E88-4DB9-9FC4-3FB1167C924F	Spare Server2	
				A5353C5E-3E9B-48FA-9F89-3F3EE8A50E26	Spare Server3	
			Packup Information			
			Dackup mormation	Backup File	Updated At	Update Status
					No Data	
				Save		
← → C ▲ Not secure 10.66.163.1	64/home/deviceManage	ment/alarmHost				☆ Θ
HIKVISION Device Config	guration Automation O	utput				Âadmin ⑦ Help ∞ 🕞 Log Out
Device Number: 0 + Add ×	Delete 📿 Refresh 📲	Synchronize Device Informati	on			Device Serial/Name/Account Q
Device Name Seria	al No. Account ID	Device Model	Device Version Connecting Mode	Device Status Alarm Times First Alarm Tim	ne Last Alarm Time	Activation Status Operation
				No Data		
Total 0 20 /page ~						1 /1 G0

• If you disable hot spare settings on an IP Receiver Pro whose role is the host server, information on all spare servers will be cleared while the backup information on the host server is not cleared, as shown in the following figure.

\leftrightarrow \rightarrow C () Not secure 10.	.66.163.162:81/home	/gatewayConfiguration/HPC				
HIKVISION Device	Configuration /	Automation Output				
Hik-ProConnect	Parameters	Hot Spare Settings				
System	- anamotoro	Her optilo oottiingo				
A Maintenance			Enable Hot Spare			
Network			ID	4E11B3F1-6449-4F5D-9B43-3B1C7ED6516C		
🖺 Storage			Hot Spare Role			
				The backup priority of the host server, spare server 1	1, spare server 2, and spare server 3 i	is in descending order.
			Hot Spare Details	ID	Hot Spare Role	Working Status
					No Data	
			Backup Information	Backup File	Updated At	Update Status
					No Data	
				Save		

→ C	③ Not secure 10.66	5.163.162:81/home	e/deviceManageme	nt/alarmHost								☆ €
KVISI	ION Device										오 ad	min ⊘ Help 🗸 🕞 Log
Device N	lumber: 4 + Add	$ imes$ Delete $\ arsigma$	Refresh ∦ Synch	onize Device Informatio	on						Dev	ice Serial/Name/Account
	Device Name	Serial No.	Account ID	Device Model	Device Version	Connecting Mode	Device Status	Alarm Times	First Alarm Time	Last Alarm Time	Activation Status	Operation
	AX PRO	0000	1234	200000	V1.2.6 build 2	Dual-Connection	Online(HPC)	0	1	1	Activate	С <u>й</u> АХ
	2222	1	2222	1	1	ISUP	Offline	0	1	1	Activate	С <u>й</u> А Х
	3333	1	3333	1	1	ISUP	Offline	0	7	1	Activate	
	4444	1	4444	1	1	ISUP	Offline	0	1	1	Activate	C Č A X
otal 4	20 /page V											1 / 1 Go

iNote

Editing the Hik-ProConnect parameters (Hik-ProConnect address, ARC ID, ARC Key) and uninstalling IP Receiver Pros will automatically disable their hot spare services.

