



## **How to Set Up a Hot Spare Scenario**

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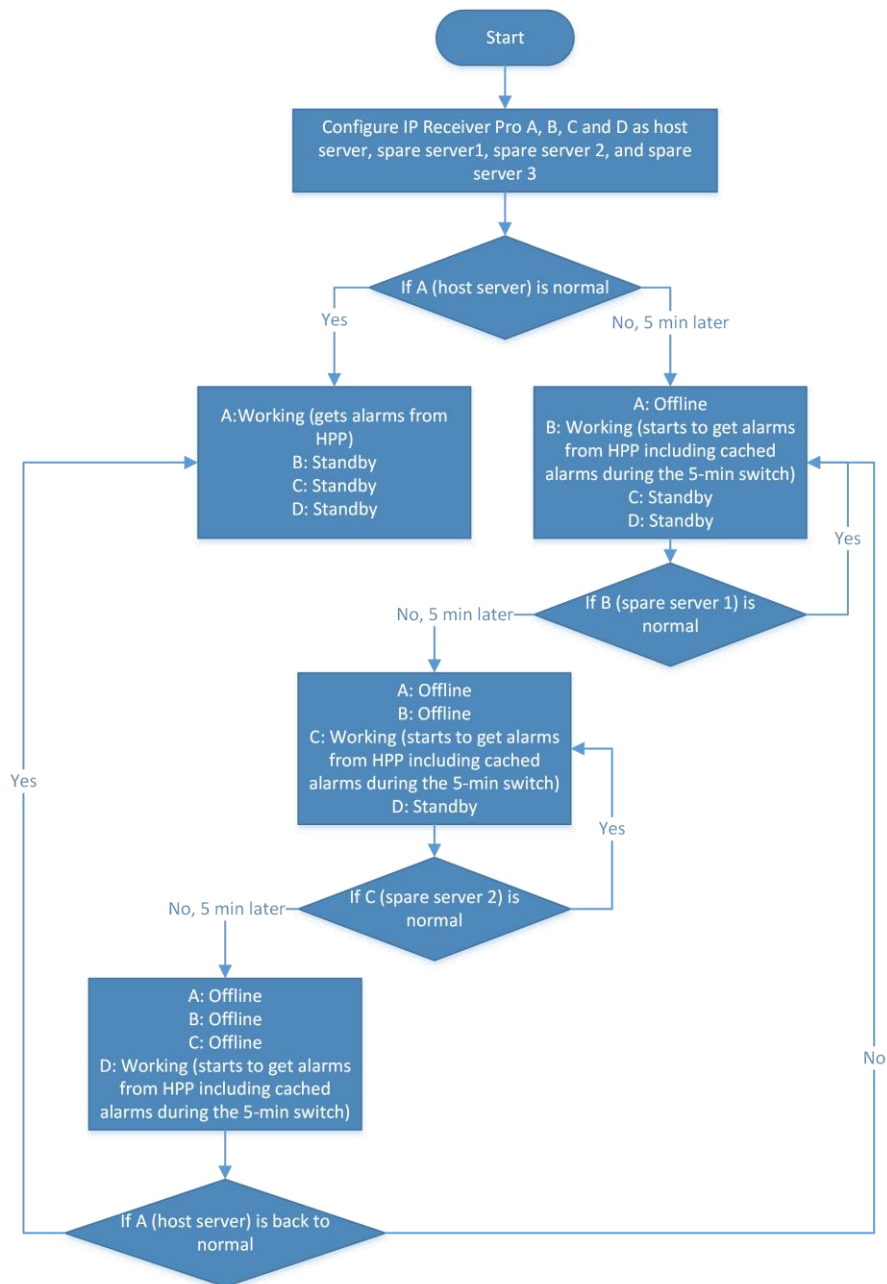
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## Chapter 1 Overview

This document is about how to set up a hot spare scenario and operate for Hik IP Receiver Pro V2.0.0. The hot spare solution is to connect up to four IP Receiver Pros with a Hik-Partner Pro 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-Partner Pro. 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-Partner Pro 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-Partner Pro Address, ARC ID and ARC Key on the Hik-Partner Pro 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://10.66.163.157/>, <http://10.66.163.154/>, <http://10.66.163.174/>, <http://10.66.163.164/>. As shown in the figure below.

#### 1. 10.66.163.157 (host server):

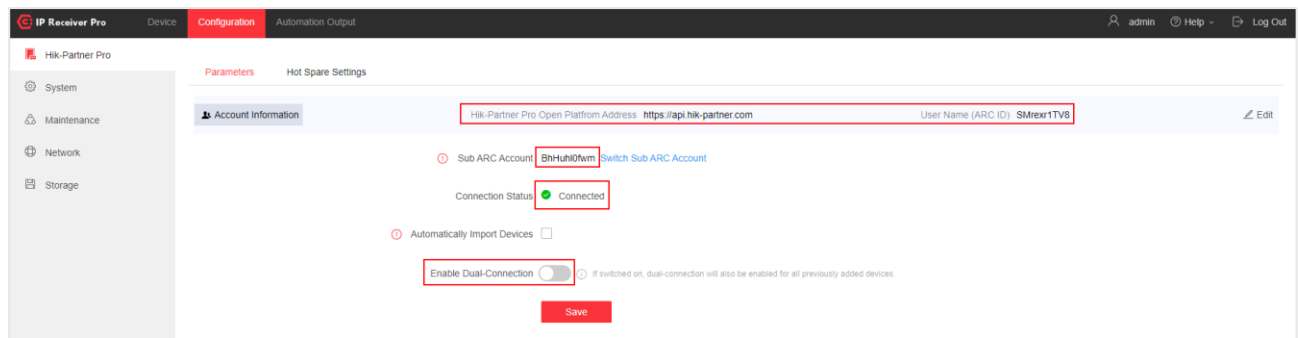
The screenshot shows the Hik-Partner Pro configuration page. The 'Parameters' tab is selected, and the 'Hot Spare Settings' section is active. The 'Account Information' section displays the 'Hik-Partner Pro Open Platform Address' as <https://api.hik-partner.com> and the 'User Name (ARC ID)' as SMtrex1TV8. The 'Sub ARC Account' is BHHuH0fw, and the 'Connection Status' is 'Connected'. The 'Automatically Import Devices' checkbox is unchecked. The 'Enable Dual-Connection' toggle is turned on. Below this is a table of ports:

Port Name	Port Type	Internal Port	External Port	External Address
ISUP Registration Port	TCP	7661	7661	10.66.163.157
ISUP Alarm Port	TCP	7662	7662	
ISUP Two-Way Audio Port	TCP	7666	7666	
Cache Port	TCP	7091	7091	

A 'Save' button is located at the bottom of the configuration area.

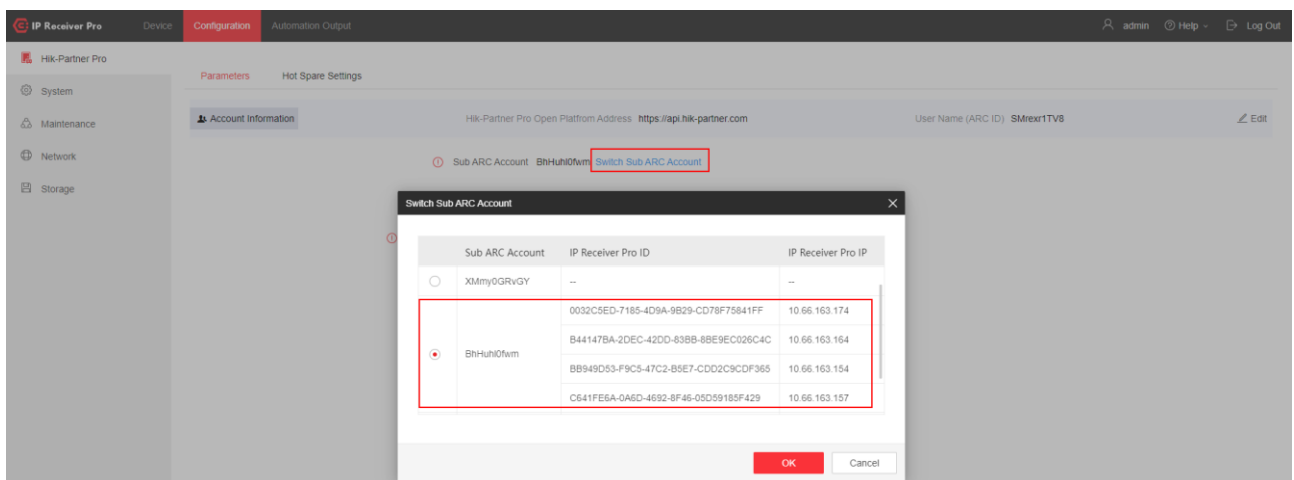
#### 2. 10.66.163.154 (spare server 1), 10.66.163.174 (spare server 2), 10.66.163.164 (spare server 3).

## How to Set Up a Hot Spare Scenario



### Note

1. Make sure dual-connection is disabled for IP Receiver Pros which will be used as spare servers.
2. Ensure that the sub ARC account of the spare server is consistent with that of the host server. If not, switch the sub ARC account on the Parameters page.



## 2.2 Configure Hot Spare Settings

1. Login to [http:// 10.66.163.157/](http://10.66.163.157/), click **Configuration -> Hik-Partner Pro -> Hot Spare Settings**. (In this case, 10.66.163.157 is selected as the host server.)

## How to Set Up a Hot Spare Scenario

The screenshot shows the Hik-Partner Pro Configuration page. The 'Configuration' tab is selected. The 'Hot Spare Settings' section is active. The 'Enable Hot Spare' checkbox is unchecked. The 'Hot Spare Role' is set to 'Host Server'. The 'Hot Spare Details' table is empty. The 'Backup Information' table is also empty. A 'Save' button is at the bottom.

### 2. Configure the host server:

1) Login to [http:// 10.66.163.157/](http://10.66.163.157/), check the Enable Hot Spare, and select Host Server as the Hot Spare Role.


The screenshot shows the Hik-Partner Pro Configuration page. The 'Configuration' tab is selected. The 'Hot Spare Settings' section is active. The 'Enable Hot Spare' checkbox is checked. The 'Hot Spare Role' dropdown menu is open, showing 'Host Server' as the selected option. The 'Hot Spare Details' table is empty. The 'Backup Information' table is also empty. A 'Save' button is at the bottom.

### Note

- 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 A25C7500-343D-4936-844B-6CBB8A6694AD is the only identifier of the IP Receiver Pro whose IP address is 10.66.163.157. The “” at the upper left corner of the ID column means that the ID represents the IP Receiver Pro in use.

## How to Set Up a Hot Spare Scenario

Hik-Partner Pro

Parameters **Hot Spare Settings**

Enable Hot Spare ☒

ID A25C7500-343D-4936-844B-6CBB8A6694AD

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.

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	

Backup Information

Backup File	Updated At	Update Status
No Data		

Save

### 3. Configure spare servers.

- 1) Login to <http://10.66.163.157/>, check the Enable Hot Spare, and select Spare Server1 as the Hot Spare Role.

Hik-Partner Pro

Parameters **Hot Spare Settings**

Enable Hot Spare ☒

ID 1112EFE1-20E9-4B1C-8B11-0D3085E84E1C

Hot Spare Role Spare Server1

The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order.

ID	Hot Spare Role	Working Status	Operation
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	

Backup Information

Backup File	Updated At	Update Status
No Data		

Save

### Note

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 1112EFE1-20E9-4B1C-8B11-0D3085E84E1C is the only identifier of the IP Receiver Pro whose IP address is 10.66.163.157.



## How to Set Up a Hot Spare Scenario

The screenshot shows the Hik-Partner Pro configuration interface. The left sidebar has a menu with System, Maintenance, Network, and Storage. The main area is titled 'Parameters' and 'Hot Spare Settings'. It includes a checkbox for 'Enable Hot Spare' which is checked. Below it is the 'ID' field with the value '1112EFE1-20E9-4B1C-8B11-0D3085E84E1C'. The 'Hot Spare Role' dropdown is set to 'Spare Server1'. A warning message states: 'The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order.' The 'Hot Spare Details' table shows two entries: a Host Server (A25C7500-343D-4936-844B-6CBB8A6694AD) in 'Working' status, and a Spare Server1 (1112EFE1-20E9-4B1C-8B11-0D3085E84E1C) in 'Standby' status. The 'Backup Information' table shows a backup file 'IPRP\_Backup\_X3AJIRc8sV\_A25C7500-343D-4...' updated at '2023-01-06T14:09:21+08:00' with an 'Updating' status. A red box highlights the Spare Server1 row in the Hot Spare Details table. A 'Save' button is at the bottom.

Enable Hot Spare ☒

ID 1112EFE1-20E9-4B1C-8B11-0D3085E84E1C

Hot Spare Role Spare Server1

ⓘ The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order.

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	

Backup File	Updated At	Update Status
IPRP_Backup_X3AJIRc8sV_A25C7500-343D-4...	2023-01-06T14:09:21+08:00	Updating

Save

4. Follow the steps in step 3 to configure <http://10.66.163.174> (ID: 8677443D-413F-4EC2-8915-7193D02B9297) as spare server2 and <http://10.66.163.164> (ID: 4DEF2A53-B055-466B-ACB2-7E2EA8784565) as spare server3, as shown in the following figure.

This screenshot shows the same configuration page after adding a second spare server. The 'ID' field now contains '8677443D-413F-4EC2-8915-7193D02B9297'. The 'Hot Spare Role' dropdown is set to 'Spare Server2'. The 'Hot Spare Details' table now has three entries: the Host Server (Working), Spare Server1 (Standby), and Spare Server2 (Standby). The 'Backup Information' table remains the same. A red box highlights the Spare Server2 row in the Hot Spare Details table. A 'Save' button is at the bottom.

Enable Hot Spare ☒

ID 8677443D-413F-4EC2-8915-7193D02B9297

Hot Spare Role Spare Server2

ⓘ The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order.

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby	

Backup File	Updated At	Update Status
IPRP_Backup_X3AJIRc8sV_A25C7500-343D-4...	2023-01-06T14:09:21+08:00	Updating

Save

## How to Set Up a Hot Spare Scenario

HIKVISION

Device

Configuration

Automation Output

admin

Hik-Partner Pro

System

Maintenance

Network

Storage

Parameters

Hot Spare Settings

Enable Hot Spare

ID

Hot Spare Role

Hot Spare Details

Backup Information

Save

☒

4DEF2A53-B055-466B-ACB2-7E2EA8784565

Spare Server3

The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order.

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	
8677443D-419F-4EC2-8915-7193D02B9297	Spare Server2	Standby	
4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby	

Backup File	Updated At	Update Status
IPRP_Backup_X3AJIRc8sV_A25C7500-343D-4...	2023-01-06T14:09:21+08:00	Updating

## Chapter 3 Synchronize Backup Information

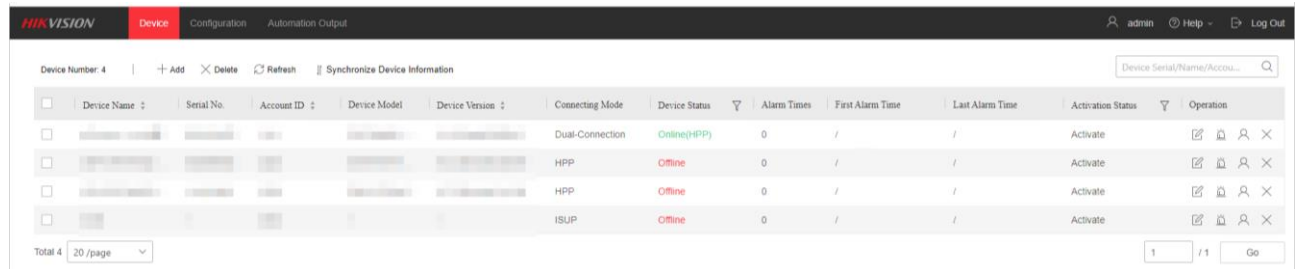
The backup information saved on Hik-Partner Pro from IP Receiver Pro includes the devices, device-linked partitions (areas), zones, channels, users and their devices, and events.

If the above information changes, the host server will back up its information to Hik-Partner Pro, and the spare servers will get the newest information from Hik-Partner Pro 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.

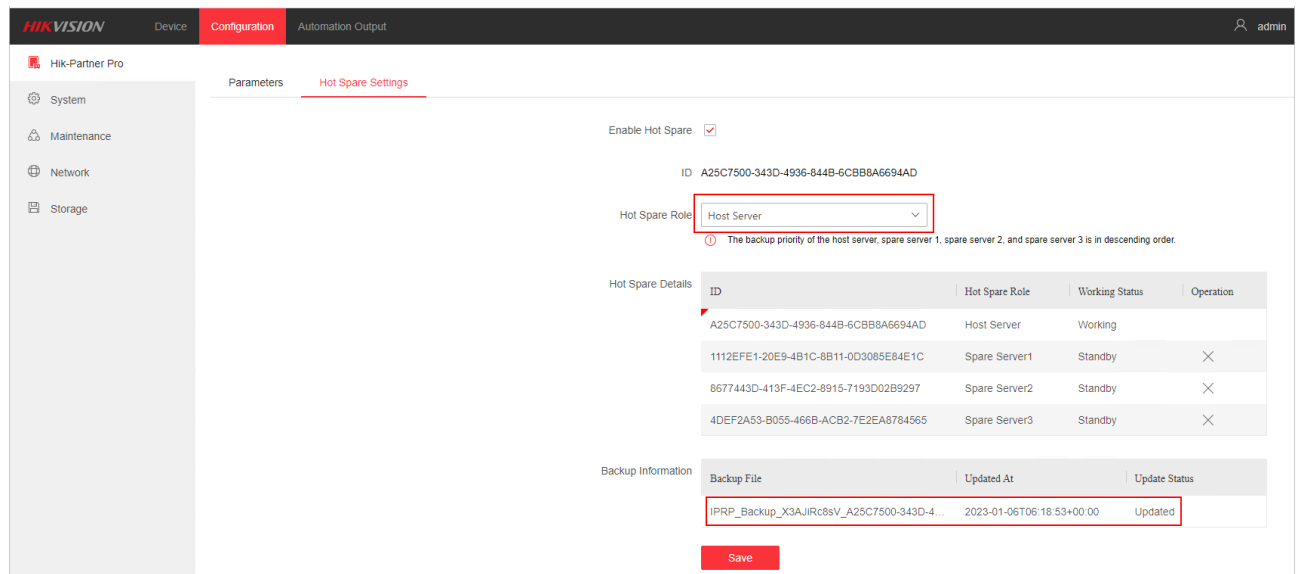
For operations such as device management (add devices, delete devices, and edit device information), configurations (configure device-linked partitions, zones, and channels), user management (add users, delete users, and edit user information), and event management (add events, delete events, edit events, 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 10.66.163.154).



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-Partner Pro.



## How to Set Up a Hot Spare Scenario

- 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.

The screenshot shows the 'Hot Spare Settings' page for Spare Server1. The 'Enable Hot Spare' checkbox is checked. The 'Hot Spare Role' is set to 'Spare Server1'. The 'Hot Spare Details' table shows the Host Server (A25C7500-343D-4936-844B-6CBB8A6694AD) in 'Working' status and Spare Server1 (1112EFE1-20E9-4B1C-8B11-0D3085E84E1C) in 'Standby' status. The 'Backup Information' table shows a backup file 'IPRP\_Backup\_X3AJRc8sV\_A25C7500-343D-4...' updated at '2023-01-06T14:18:53+08:00' with status 'Updated'. A 'Save' button is at the bottom.

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby	
4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby	

Backup File	Updated At	Update Status
IPRP_Backup_X3AJRc8sV_A25C7500-343D-4...	2023-01-06T14:18:53+08:00	Updated

- 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.

The screenshot shows the 'Device' list page for Spare Server1. It displays a table with 4 devices. The first device is 'Dual-Connection' and is 'Online(HPP)'. The other three devices are 'HPP' and 'ISUP', all in 'Offline' status. The table includes columns for Device Name, Serial No., Account ID, Device Model, Device Version, Connecting Mode, Device Status, Alarm Times, First Alarm Time, Last Alarm Time, Activation Status, and Operation. A 'Total 4' summary is at the bottom left, and a 'Go' button is at the bottom right.

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
Dual-Connection					Dual-Connection	Online(HPP)	0	/	/	Activate	
HPP					HPP	Offline	0	/	/	Activate	
HPP					HPP	Offline	0	/	/	Activate	
ISUP					ISUP	Offline	0	/	/	Activate	

- The device list on spare server2 and spare server3 are both in sync with the device list on the host server.

The screenshot shows the 'Hot Spare Settings' page for Spare Server2. The 'Enable Hot Spare' checkbox is checked. The 'Hot Spare Role' is set to 'Spare Server2'. The 'Hot Spare Details' table shows the Host Server (A25C7500-343D-4936-844B-6CBB8A6694AD) in 'Working' status, Spare Server1 (1112EFE1-20E9-4B1C-8B11-0D3085E84E1C) in 'Standby' status, and Spare Server2 (8677443D-413F-4EC2-8915-7193D02B9297) in 'Standby' status. The 'Backup Information' table shows a backup file 'IPRP\_Backup\_X3AJRc8sV\_A25C7500-343D-4...' updated at '2023-01-06T14:18:53+08:00' with status 'Updated'. A 'Save' button is at the bottom.

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby	
4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby	

Backup File	Updated At	Update Status
IPRP_Backup_X3AJRc8sV_A25C7500-343D-4...	2023-01-06T14:18:53+08:00	Updated

## How to Set Up a Hot Spare Scenario

HIKVISION												
Device Configuration Automation Output												
Device Number: 4   + Add   X Delete   Refresh   Synchronize Device Information												
Device 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
<input type="checkbox"/>						Dual-Connection	Online(HPP)	0	/	/	Activate	
<input type="checkbox"/>						HPP	Offline	0	/	/	Activate	
<input type="checkbox"/>						HPP	Offline	0	/	/	Activate	
<input type="checkbox"/>						ISUP	Offline	0	/	/	Activate	
Total 4 20 /page												
1 / 1 Go												

HIKVISION																																
Device Configuration Automation Output																																
Hik-Partner Pro																																
Parameters Hot Spare Settings																																
Enable Hot Spare <input checked="" type="checkbox"/>																																
ID 4DEF2A53-B055-466B-ACB2-7E2EA8784565																																
Hot Spare Role Spare Server3																																
The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order.																																
Hot Spare Details																																
<table><tr><th>ID</th><th>Hot Spare Role</th><th>Working Status</th><th>Operation</th></tr><tr><td>A25C7500-343D-4936-844B-6CBB8A6694AD</td><td>Host Server</td><td>Working</td><td></td></tr><tr><td>1112EFE1-20E9-4B1C-8B11-0D3085E84E1C</td><td>Spare Server1</td><td>Standby</td><td></td></tr><tr><td>8677443D-413F-4EC2-8915-7193D02B9297</td><td>Spare Server2</td><td>Standby</td><td></td></tr><tr><td>4DEF2A53-B055-466B-ACB2-7E2EA8784565</td><td>Spare Server3</td><td>Standby</td><td></td></tr></table>													ID	Hot Spare Role	Working Status	Operation	A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working		1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby		8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby		4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby	
ID	Hot Spare Role	Working Status	Operation																													
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working																														
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby																														
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby																														
4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby																														
Backup Information																																
<table><tr><th>Backup File</th><th>Updated At</th><th>Update Status</th></tr><tr><td>PRP_Backup_X3AJRc8SV_A25C7500-343D-4...</td><td>2023-01-06T14:18:53+08:00</td><td>Updated</td></tr></table>													Backup File	Updated At	Update Status	PRP_Backup_X3AJRc8SV_A25C7500-343D-4...	2023-01-06T14:18:53+08:00	Updated														
Backup File	Updated At	Update Status																														
PRP_Backup_X3AJRc8SV_A25C7500-343D-4...	2023-01-06T14:18:53+08:00	Updated																														
Save																																

HIKVISION												
Device Configuration Automation Output												
Device Number: 4   + Add   X Delete   Refresh   Synchronize Device Information												
Device 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
<input type="checkbox"/>						Dual-Connection	Online(HPP)	0	/	/	Activate	
<input type="checkbox"/>						HPP	Offline	0	/	/	Activate	
<input type="checkbox"/>						HPP	Offline	0	/	/	Activate	
<input type="checkbox"/>						ISUP	Offline	0	/	/	Activate	
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.

The screenshot shows the 'Hot Spare Settings' page in the Hik-Partner Pro interface. The 'Enable Hot Spare' checkbox is checked. The 'Hot Spare Role' is set to 'Host Server'. The 'Hot Spare Details' table shows the following status:

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	×
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby	×
4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby	×

The 'Backup Information' table shows the backup file 'IPRP\_Backup\_X3AJRc8sV\_A25C7500-343D-4...' updated at '2023-01-06T05:18:53+00:00' with status 'Updated'.

- Once an exception occurs to the host server, the host server will no longer get alarms from Hik-Partner Pro. The spare server1 will start to get alarms (including cached alarms during switching) from Hik-Partner Pro 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.

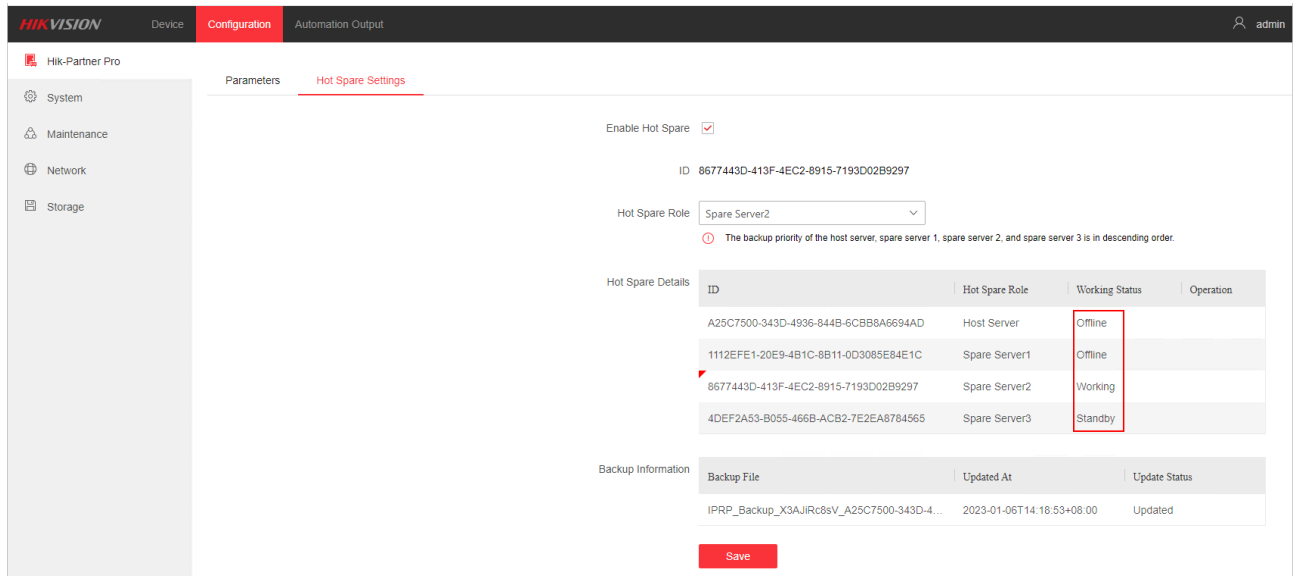
The screenshot shows the 'Hot Spare Settings' page for Spare Server1. The 'Hot Spare Role' is set to 'Spare Server1'. The 'Hot Spare Details' table shows the following status:

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Offline	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Working	
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby	
4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby	

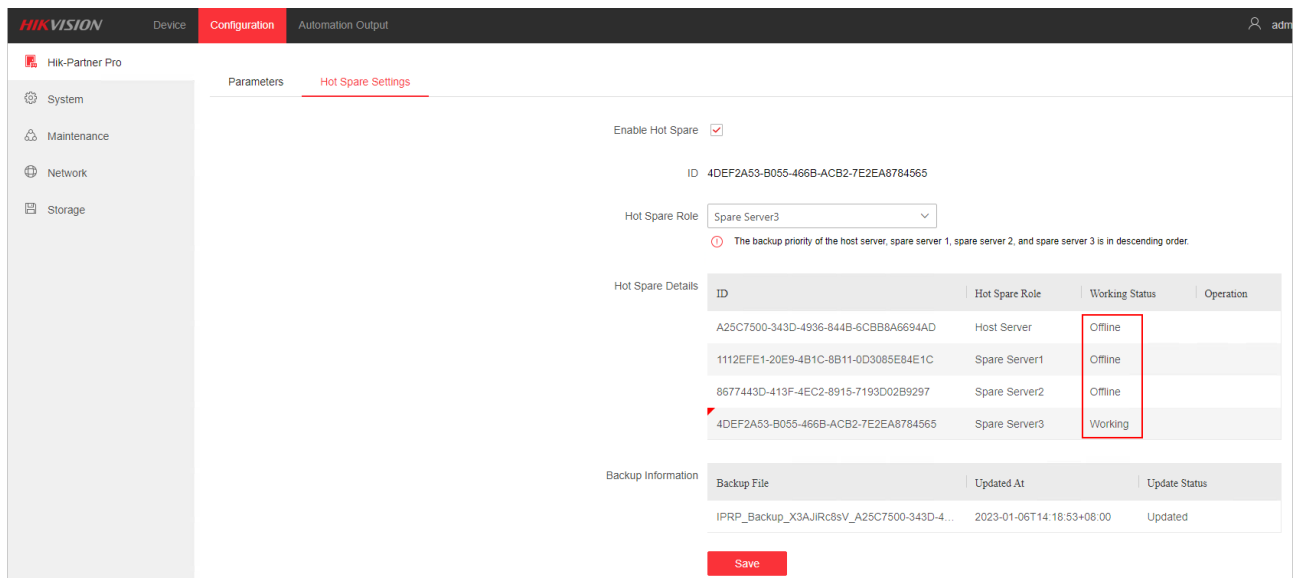
The 'Backup Information' table shows the backup file 'IPRP\_Backup\_X3AJRc8sV\_A25C7500-343D-4...' updated at '2023-01-06T14:18:53+08:00' with status 'Updated'.

## How to Set Up a Hot Spare Scenario

- 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.



- 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.



- 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.

## How to Set Up a Hot Spare Scenario

**Hik-Partner Pro** Configuration Automation Output

Parameters **Hot Spare Settings**

Enable Hot Spare ☒

ID A25C7500-343D-4936-844B-6CBB8A6694AD

Hot Spare Role Host Server

① 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	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Offline	×
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Offline	×
4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby	×

Backup Information

Backup File	Updated At	Update Status
IPRP_Backup_X3AJIRc8sV_A25C7500-343D-4...	2023-01-06T06:52:17+00:00	Updated

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.

**Hik-Partner Pro** Configuration Automation Output

Parameters **Hot Spare Settings**

Enable Hot Spare ☒

ID A25C7500-343D-4936-844B-6CBB8A6694AD

Hot Spare Role Host Server

① 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	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	×
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby	×
4DEF2A53-B055-466B-ACB2-7E2EA8784565	Spare Server3	Standby	×

Backup Information

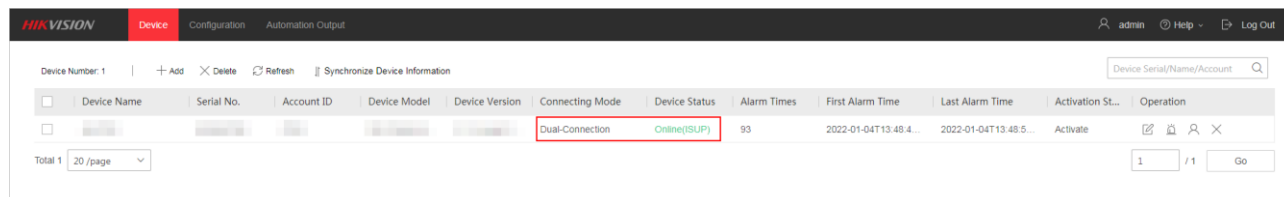
Backup File	Updated At	Update Status
IPRP_Backup_X3AJIRc8sV_A25C7500-343D-4...	2023-01-06T06:52:17+00:00	Updated

Save



# Chapter 5 Dual-Connection in the Hot Spare Scenario

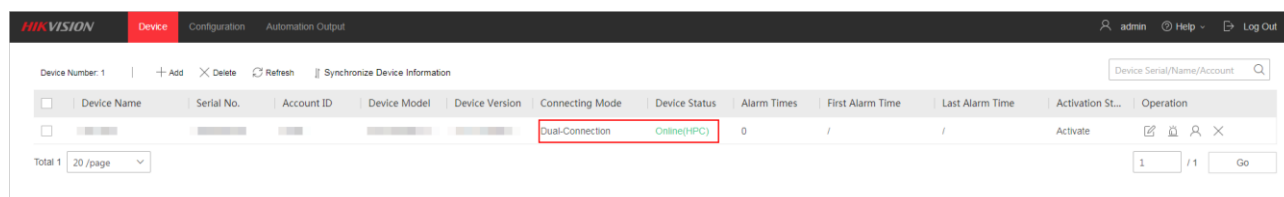
Only the devices added to the host server can be connected in dual-connection mode.



The screenshot shows the Hikvision Device Management interface. The top navigation bar includes 'Device', 'Configuration', and 'Automation Output'. The 'Device' tab is active. Below the navigation bar, there are controls for 'Device Number: 1', '+ Add', 'X Delete', 'Refresh', and 'Synchronize Device Information'. A search bar on the right is labeled 'Device Serial/Name/Account'. The main table has columns: Device Name, Serial No., Account ID, Device Model, Device Version, Connecting Mode, Device Status, Alarm Times, First Alarm Time, Last Alarm Time, Activation St..., and Operation. A single device is listed with 'Dual-Connection' in the Connecting Mode column and 'Online(SUP)' in the Device Status column. The status 'Online(SUP)' is highlighted with a red box. The bottom of the table shows 'Total 1', '20 /page', and pagination controls '1 / 1' and 'Go'.

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
					Dual-Connection	Online(SUP)	93	2022-01-04T13:48:4...	2022-01-04T13:48:5...	Activate	[Edit] [Add] [Delete]

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



The screenshot shows the Hikvision Device Management interface, similar to the one above. The 'Device' tab is active. The main table shows a device with 'Dual-Connection' in the Connecting Mode column and 'Online(HPP)' in the Device Status column. The status 'Online(HPP)' is highlighted with a red box. The bottom of the table shows 'Total 1', '20 /page', and pagination controls '1 / 1' and 'Go'.

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
					Dual-Connection	Online(HPP)	0	/	/	Activate	[Edit] [Add] [Delete]

## 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**.

The screenshot shows the Hik-Partner Pro configuration interface. The top navigation bar includes 'Device', 'Configuration', and 'Automation Output'. The left sidebar lists 'System', 'Maintenance', 'Network', and 'Storage'. The main content area is titled 'Hik-Partner Pro' and has tabs for 'Parameters' and 'Hot Spare Settings'. The 'Hot Spare Settings' tab is active. At the top, there is a checkbox labeled 'Enable Hot Spare' which is unchecked and highlighted with a red box. Below this, the 'Hot Spare Role' is set to 'Spare Server1'. A note indicates that the backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order. A table titled 'Hot Spare Details' lists the following servers:

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby	
DCCAF7A8-5B7A-4C80-B4C9-4A5C76455368	Spare Server3	Standby	

Below the table is a 'Backup Information' section with a table showing backup details:

Backup File	Updated At	Update Status
IPRP_Backup_X3AJIRc8sV_A25C7500-343D-4...	2023-01-06T14:52:17+08:00	Updated

At the bottom of the page, there is a red 'Save' button highlighted with a red box.

- 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.

## How to Set Up a Hot Spare Scenario

The screenshot shows the 'Hot Spare Settings' page in Hik-Partner Pro. The 'Enable Hot Spare' checkbox is checked. The ID is 1112EFE1-20E9-4B1C-8B11-0D3085E84E1C. The 'Hot Spare Role' is set to 'Spare Server1'. A warning message states: 'The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order.' The 'Hot Spare Details' table lists three servers: Host Server, Spare Server2, and Spare Server3. The 'Backup Information' table is empty with 'No Data'.

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server		
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2		
DCCAF7A8-5B7A-4C80-B4C9-4A5C76455368	Spare Server3		

Backup File	Updated At	Update Status
No Data		

- 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.

The top screenshot shows the 'Hot Spare Settings' page with 'Enable Hot Spare' unchecked. The ID is A25C7500-343D-4936-844B-6CBB8A6694AD. The 'Hot Spare Role' is set to 'Host Server'. The 'Hot Spare Details' table is empty with 'No Data'. The 'Backup Information' table is also empty with 'No Data'.

The bottom screenshot shows the 'Device' list page. It displays four devices with their respective roles and statuses:

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
					Dual-Connection	Online(HPP)	0	/	/	Activate	
					HPP	Offline	0	/	/	Activate	
					HPP	Offline	0	/	/	Activate	
					ISUP	Offline	0	/	/	Activate	



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

## Chapter 7 Upgrade IP Receiver Pro in the Hot Spare Scenario

1. You need to first upgrade the host IP Receiver Pro (<http://10.66.163.154/>).
2. After the host server is upgraded, upgrade the spare servers one by one.
3. After the spare servers are upgraded, they will run automatically.



### Note

Make sure that the versions of the host and spare servers are the same, or else the spare servers will fail to be in sync with the host server. As shown in the figure below.

The screenshot displays the Hik-PROConnect configuration interface. The top navigation bar includes 'Device', 'Configuration', and 'Automation Output'. The left sidebar lists 'System', 'Maintenance', 'Network', and 'Storage'. The main content area is titled 'Hot Spare Settings' and includes the following information:

- Enable Hot Spare:** ☒
- ID:** DCCAF7A8-5B7A-4C80-B4C9-4A5C76455368
- Hot Spare Role:** Spare Server3
- Warning:** The backup priority of the host server, spare server 1, spare server 2, and spare server 3 is in descending order.

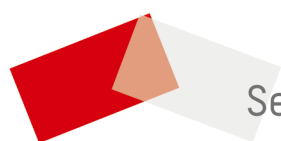
**Hot Spare Details Table:**

ID	Hot Spare Role	Working Status	Operation
A25C7500-343D-4936-844B-6CBB8A6694AD	Host Server	Working	
1112EFE1-20E9-4B1C-8B11-0D3085E84E1C	Spare Server1	Standby	
8677443D-413F-4EC2-8915-7193D02B9297	Spare Server2	Standby	
DCCAF7A8-5B7A-4C80-B4C9-4A5C76455368	Spare Server3	Standby	

**Backup Information Table:**

Backup File	Updated At	Update Status
IPRP_Backup_X3AJIRc8sV_A25C7500-343D-4...	2023-01-06T14:52:17+08:00	Versions mismatch

A red 'Save' button is located at the bottom of the configuration area.



See Far, Go Further