UC HA Topic

Foreword

- This course introduces the HA features of UC.

Course Objective

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Through this course you will be able to

Know what HA is.

Understand the logic of HA.

Know how UC configure HA.

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Chapter One Course Introduce

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1.1 What is HA

1.2 Logic of HA

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1. HA Introduction

1.1 What is HA

what is HA ?

Answer : High Availability Active-Standby.

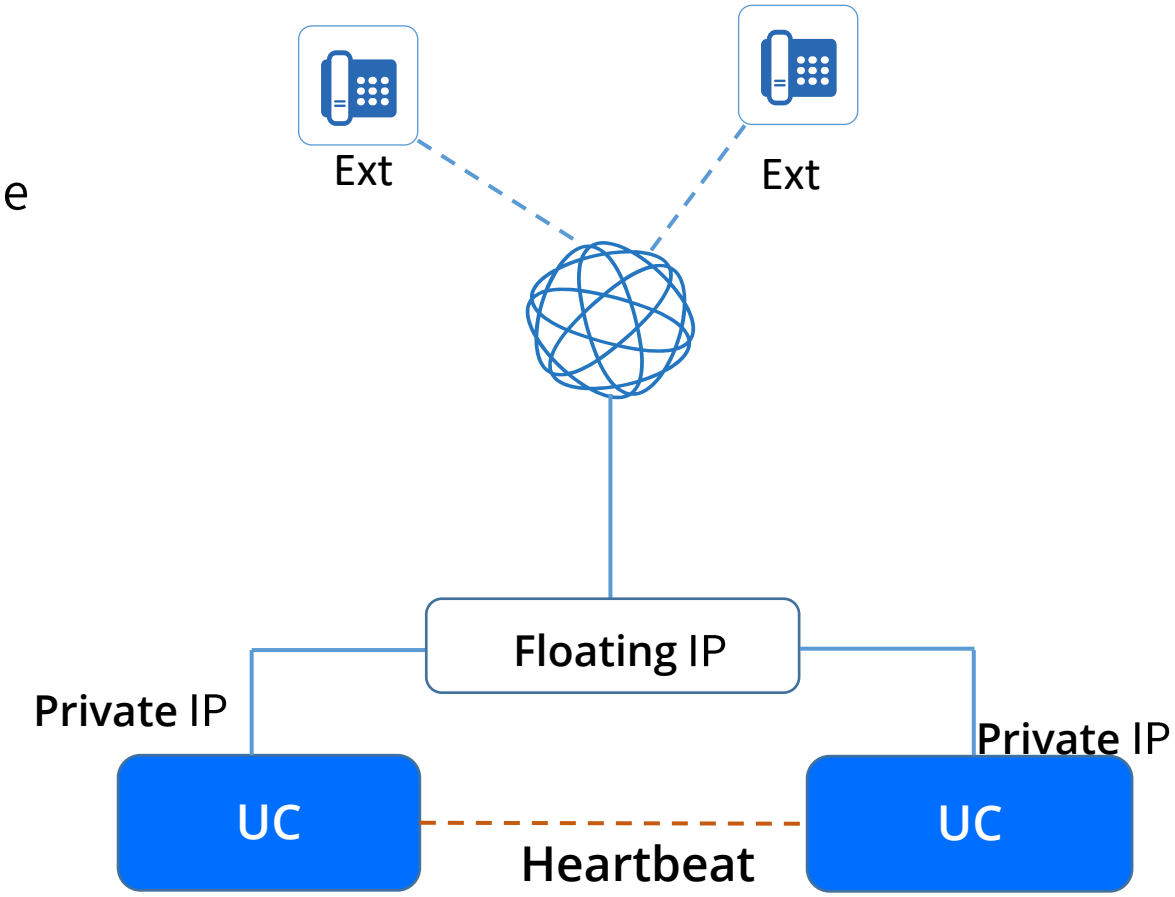
HA (High Availability) solution, through the cooperative work of two devices, to ensure that the system can continue to working in the event of a single point of failure.

Logic of HA

1. The management ports of the two devices detect each other. By default, Device A is active and Device B is in Standy state.

2. When device A fails, device B does not detect the response from device A. Device B switches to the active state, and the service port is activated to provide service.

3. When A recovers, A&B will choose one of them to be active and the other to be Standy according to the policy.



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UC HA Configuration

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2.1 Basic Conditions for UC HA

2.2 Configuration of UC HA

2.3 Expand Configuration

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Basic conditions for UC HA

1.Prepare two UC devices of the same model, such as UC350Pro.

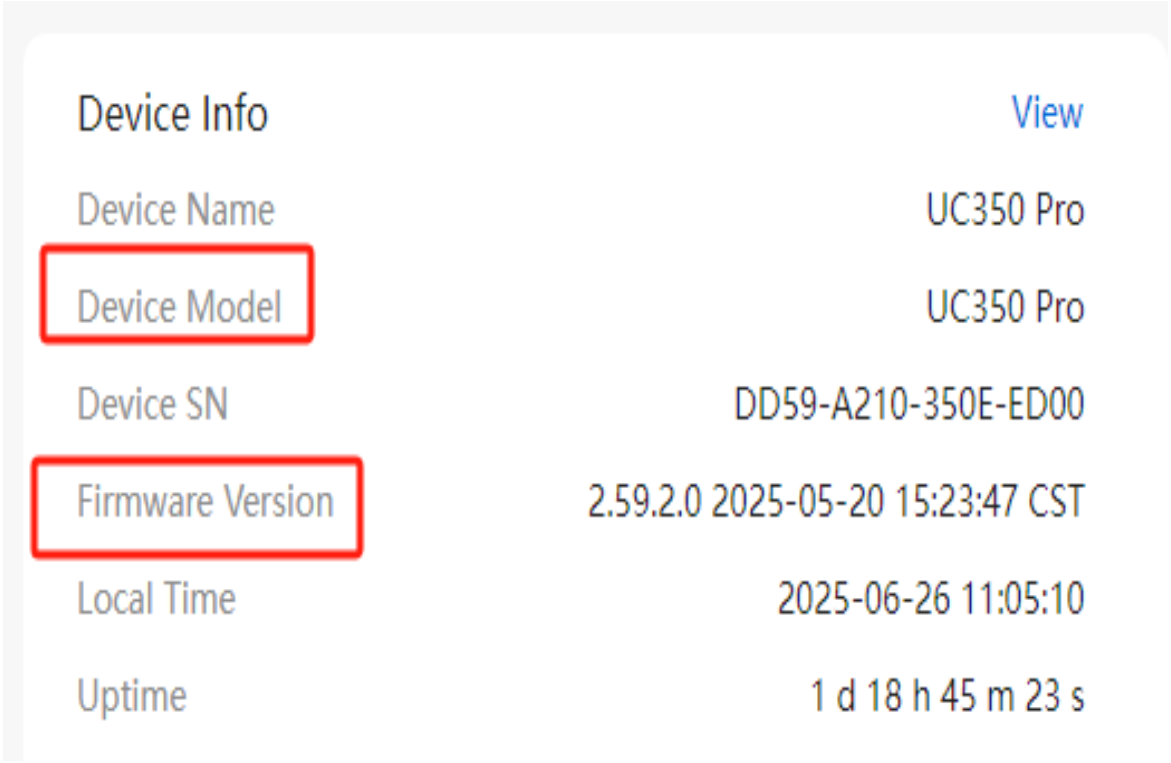
2.The software of the two UC devices should be the same.

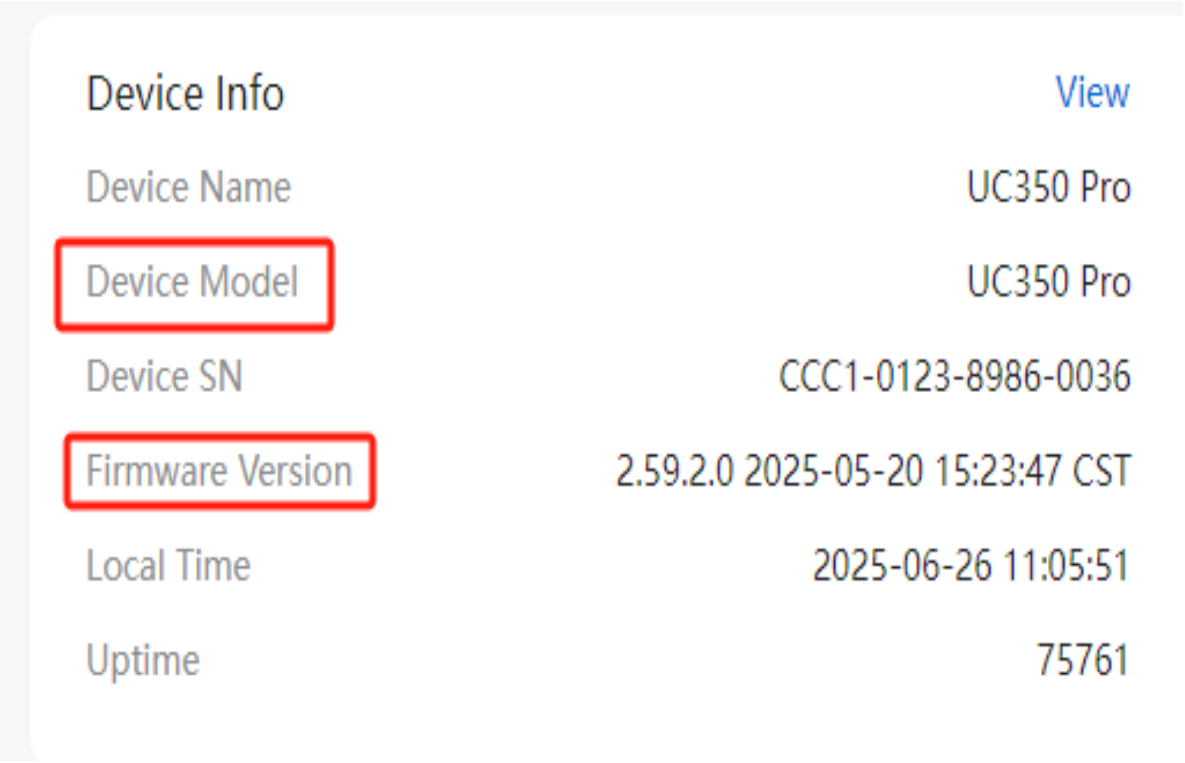
3.Copy the current license page information (Device SN, Hardware ID, etc.) of the two UC devices to us. We will generate a new license and upgrade the UC with the new license to support HA.

4.There must be multiple network segments in the working environment. Assign independent network segments to the management port of UCs for detecting each other's activity status

Basic conditions for UC HA

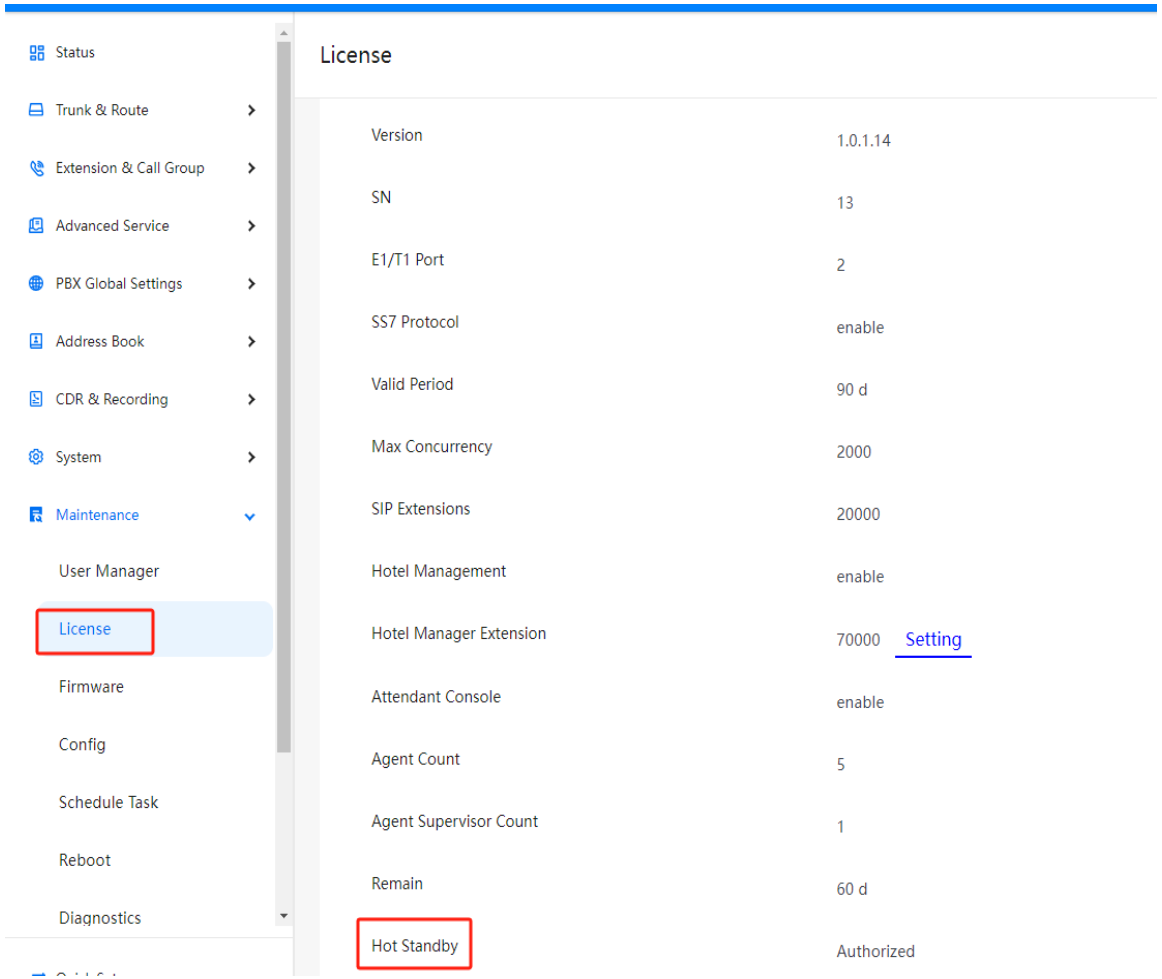
1. The model and version of the two UC devices need to be consistent

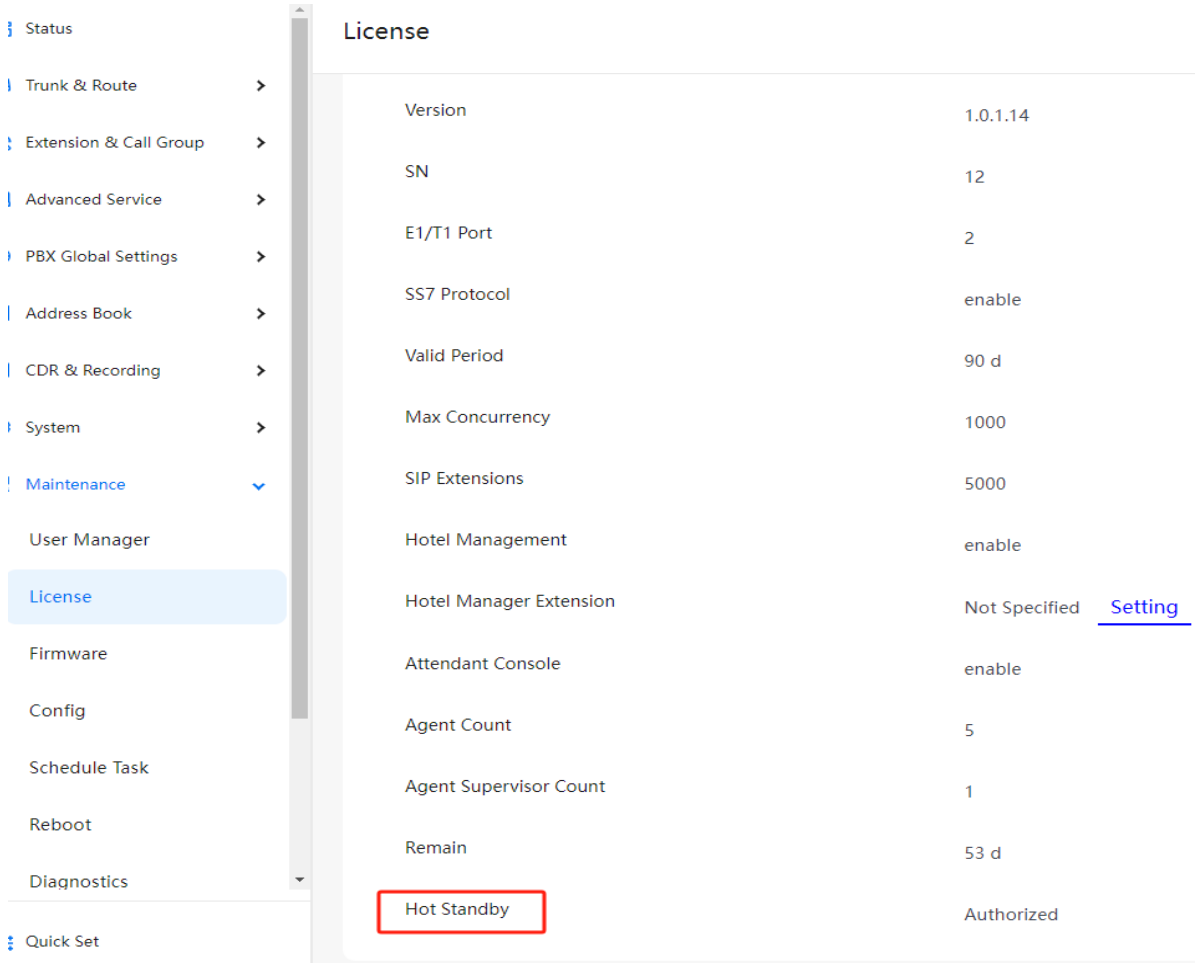




Basic conditions for UC HA

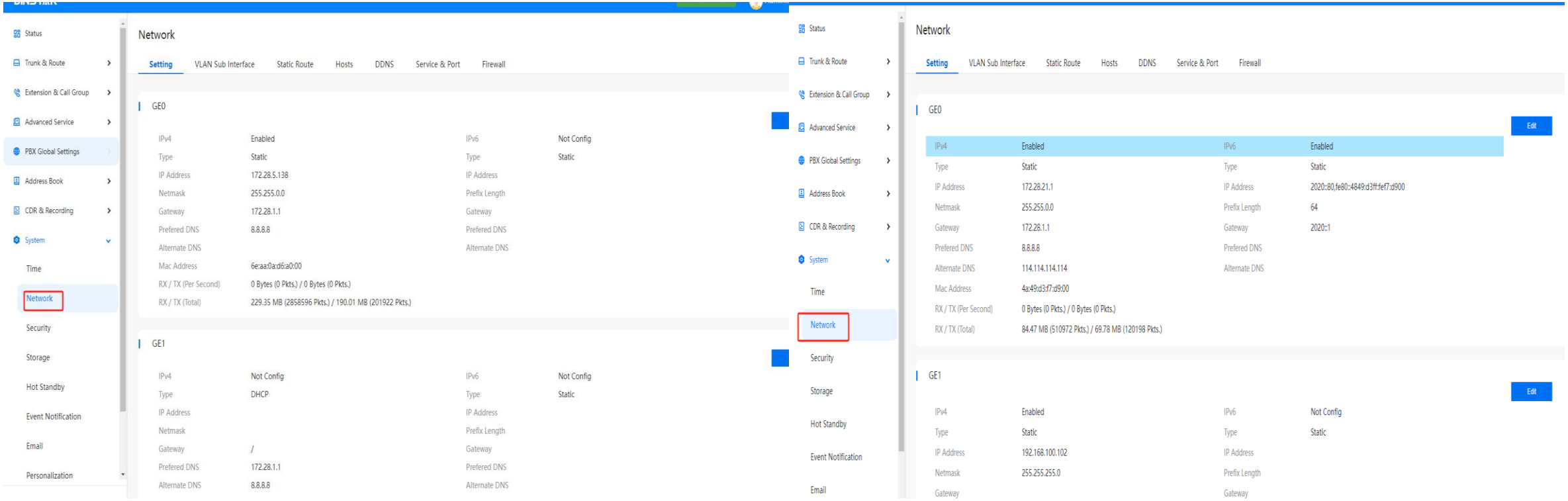
2. Check the License information and make sure that Hot Standby is Authorized





Basic conditions for UC HA

3. **System--Network** page Modify the management port IP of UC, so that UC_A & UC_B have different management IPs and are connected under the same switch.

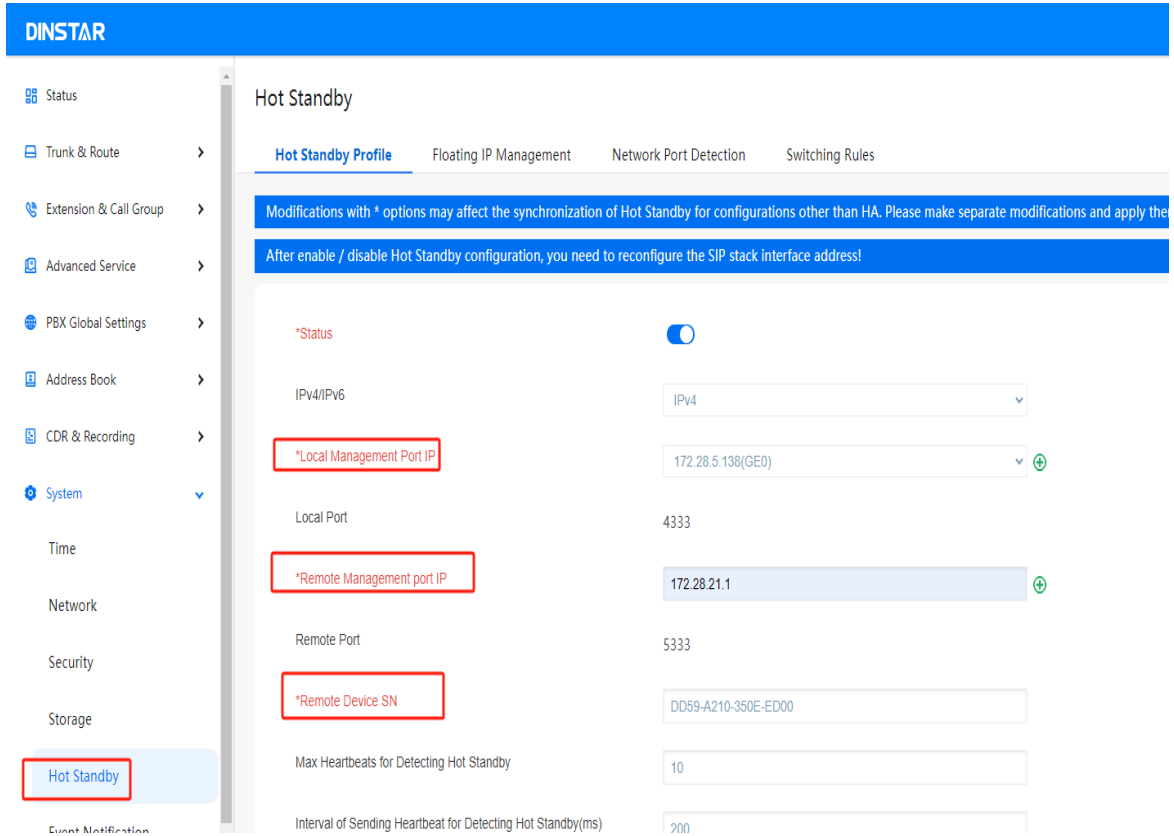


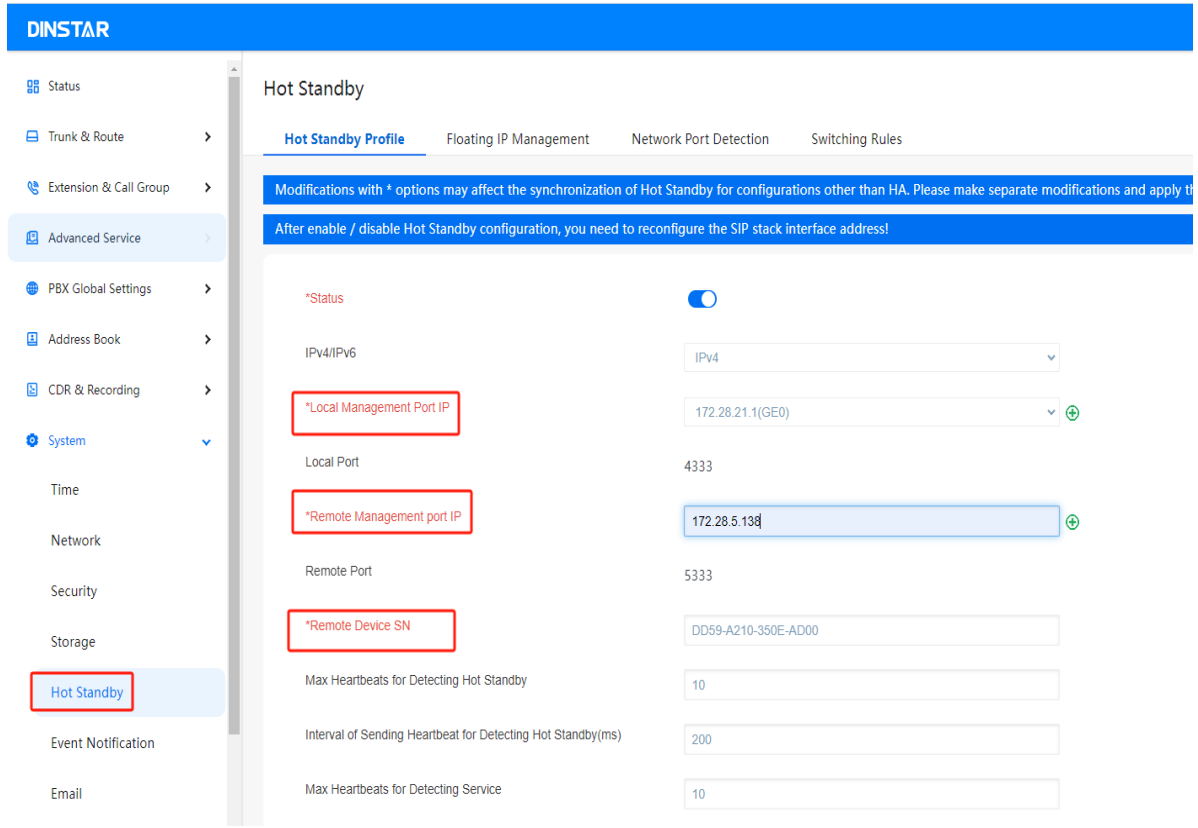
Configuration of UC HA

1.Click on **System – Hot Standby- Hot Standby Profile**

2.Fill in Local Management Port IP 、Remote Management Port IP and Remote Device SN

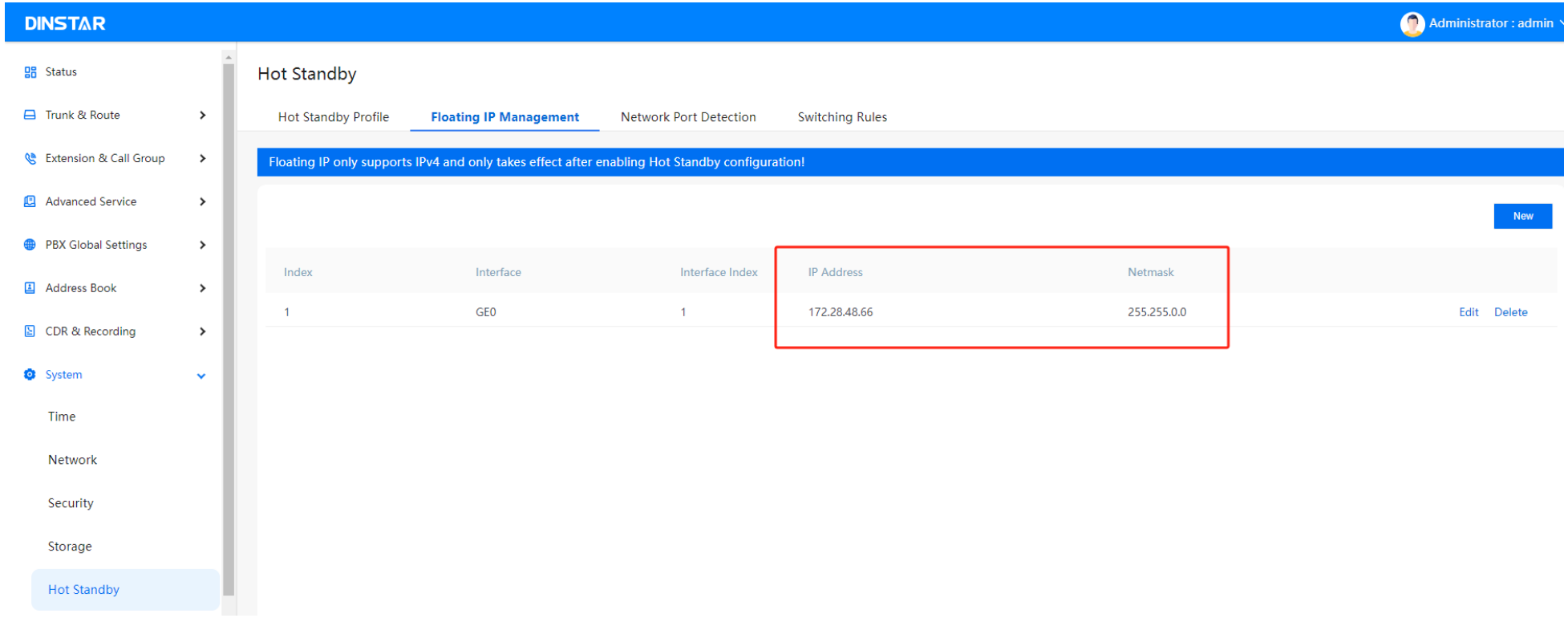
3.Other configuration items can be configured by default





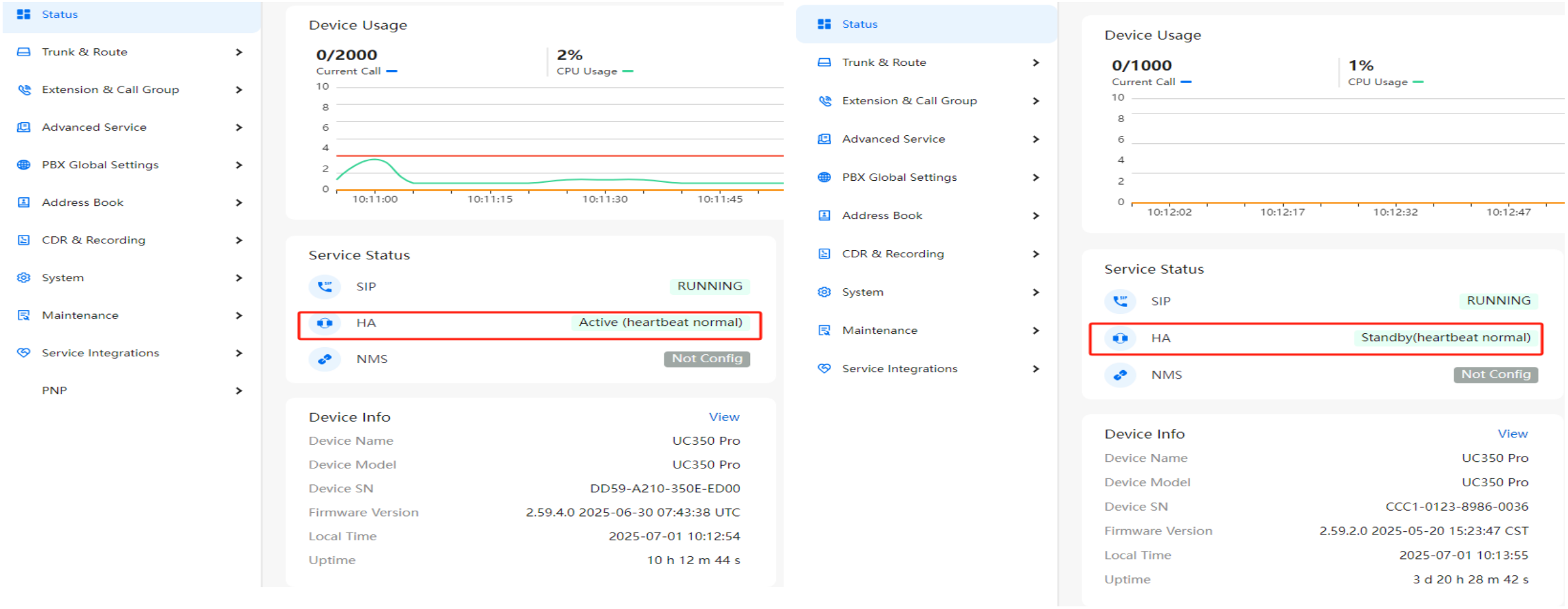
Configuration of UC HA

4. Click on **System – Hot Standby- floating IP management,** Configure the same floating IP address for two UCs



Ha status check

Click on the **status** to check if the HA status is normal



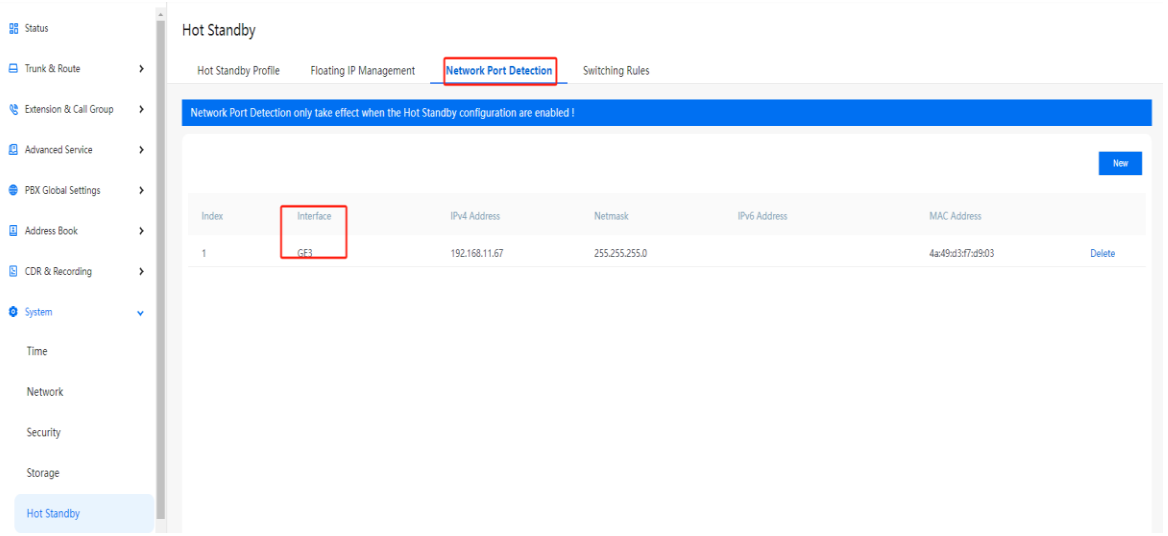
Expand configuration

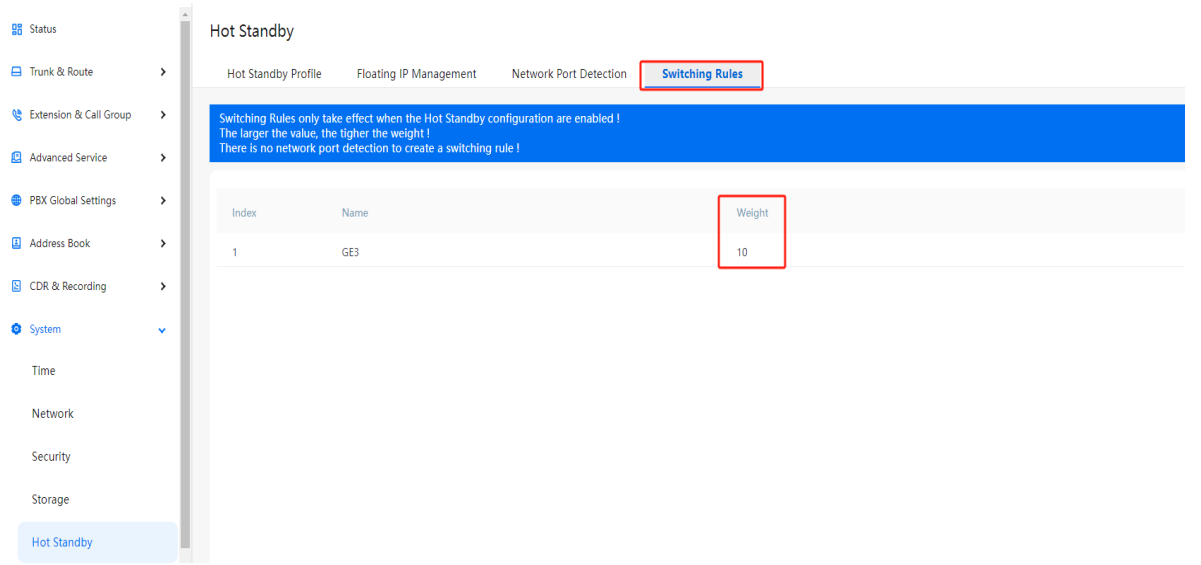
Network Port Detection

1.Click on **System - Hot Standby– Network Port Detection**, Select network port

2.Click on **System - Hot Standby–Switching Rules**, Configure weight values

3.Both UC are configured





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Active And Standby Switching

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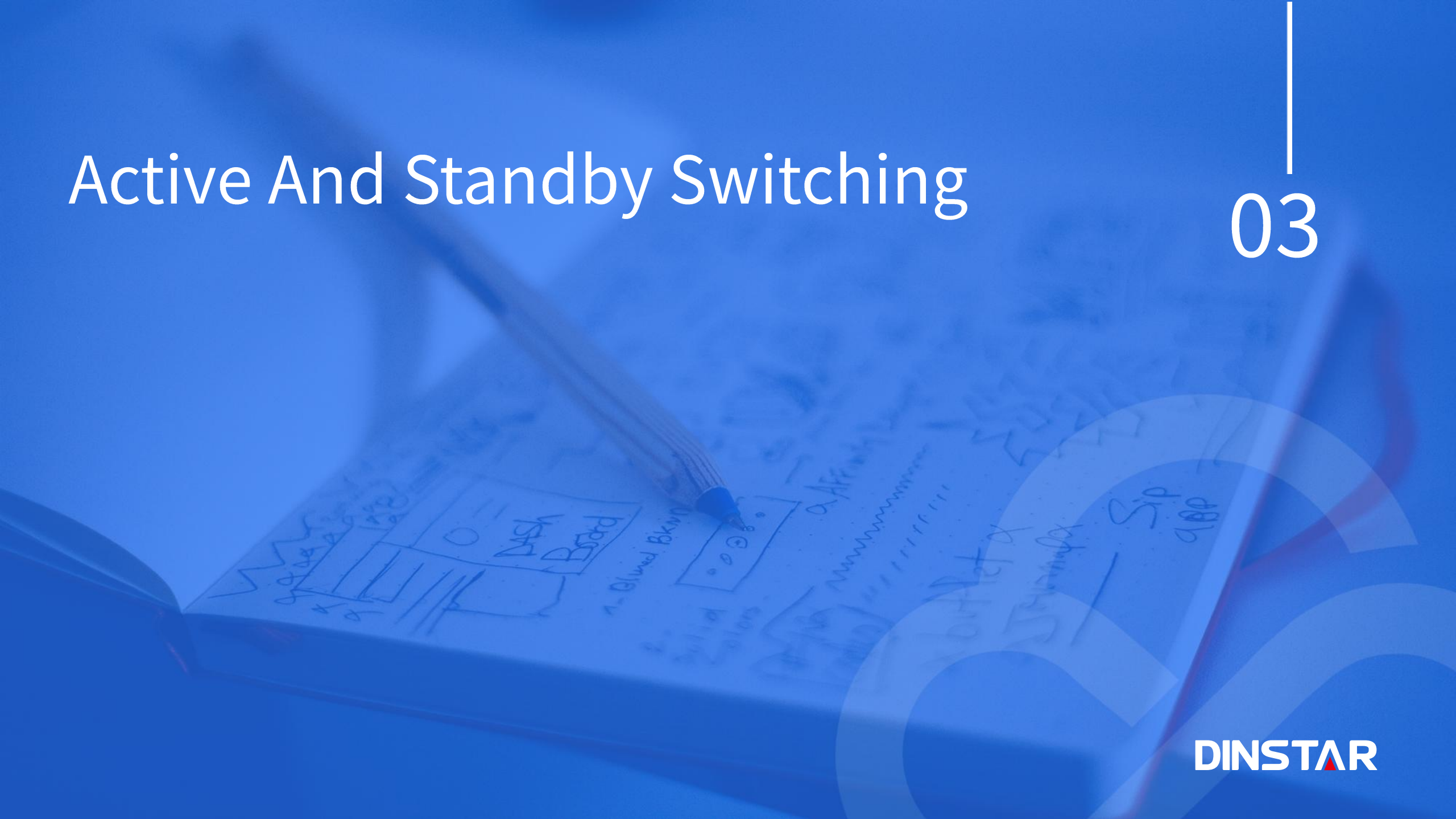


Active And Standby Switching

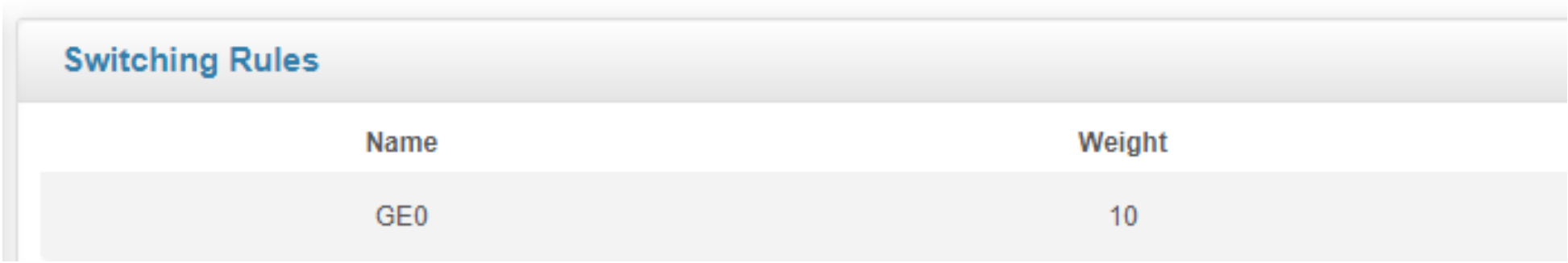
Automatic switching conditions:

1. Active UC power outage
2. Active UC restart
3. Active UC network disconnection

Active And Standby Switching

Network Port Detection-one network port

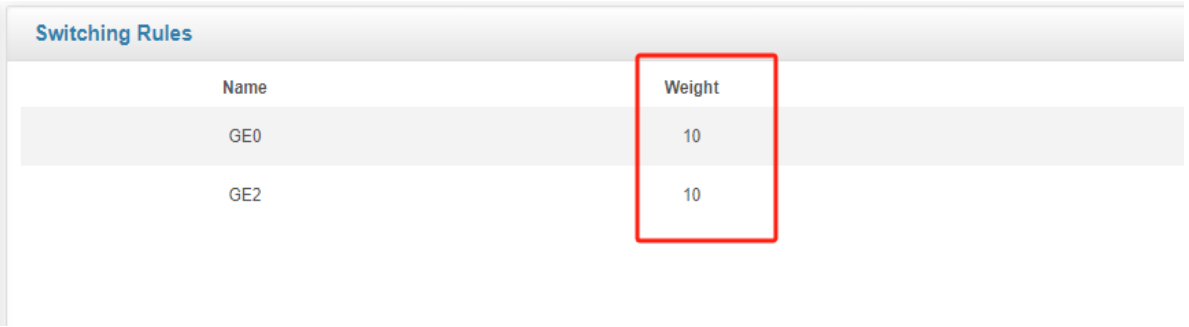
- Set the network port weight value to 0 when the active UC service network port is down
- When the active UC detects that the weight of the standby UC network port - the weight of the active UC network port is ⩾ 10, the active UC restart
- standby UC becomes active UC by judging that the HA heartbeat message timed out
- After the original active UC restarts, it becomes a standby machine

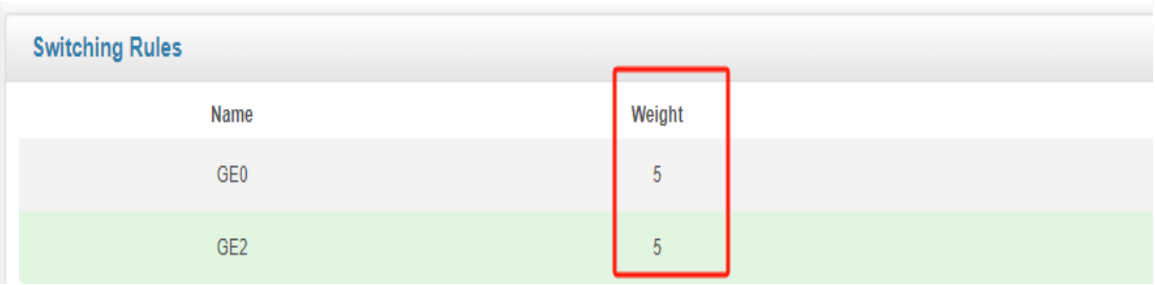


Active And Standby Switching

Network Port Detection-multiple network ports

- If the weight of each service network port is 10, as long as the active UC has one service network port down, the active and standby switches
- Both service network ports have a weight of 5: the active UC only has one service network port down, with a weight difference of 5, and there is no switch; If both service network ports are down, the weight difference will be ⩾ 10, and the switch will occur
- By analogy, switching will only occur when the weight difference between the two UC network ports is ⩾ 10





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