

# DHCS (DA HU CLOUD SYSTEM) DATASHEET

Version: V1.1

Release Date: 2025/12/31

## Overview

DHCS (DA HU CLOUD SYSTEM) is a networking management system independently developed by HOHUNET, designed for enterprise networks, campus networks and SMB network environments. It provides comprehensive management functionalities—from ZTP (Zero Touch Provisioning) deployment to device onboarding, device monitoring, remote configuration and maintenance, OTA upgrades, panel simulation, configuration rollback, and template-based configuration.

## Keywords

- Support public cloud deployment and internal local area network deployment via the same Software Platform.
- Integrated secure remote tunneling technology enables network operation and maintenance from anywhere.
- Support ZTP (Zero Touch Provisioning) management and launch.
- Automatic topology discovery and visualization.
- Simulation panel control and monitoring.
- Support both multi-organization mode and single-organization mode simultaneously.

## Graphical Simulation Panel

DHCS adopts a graphical simulation panel for operation, providing customers with an unparalleled operational experience.

**Device Panel**

S7524N Online Model: S7524N-8Z-EI SN: F252047333-00008-7 [...More](#)

|      |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |                              |
|------|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|------------------------------|
| CON  | 1 | 3 | 5 | 7 | 9  | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31/1<br>31/3<br>31/4         |
| MGMT | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32/1<br>32/2<br>32/3<br>32/4 |

Legend: ■ Normal ■ Not Full Speed ■ Monitoring ■ Down ■ Disabled ■ Unread Alarms

**Runtime Monitoring**

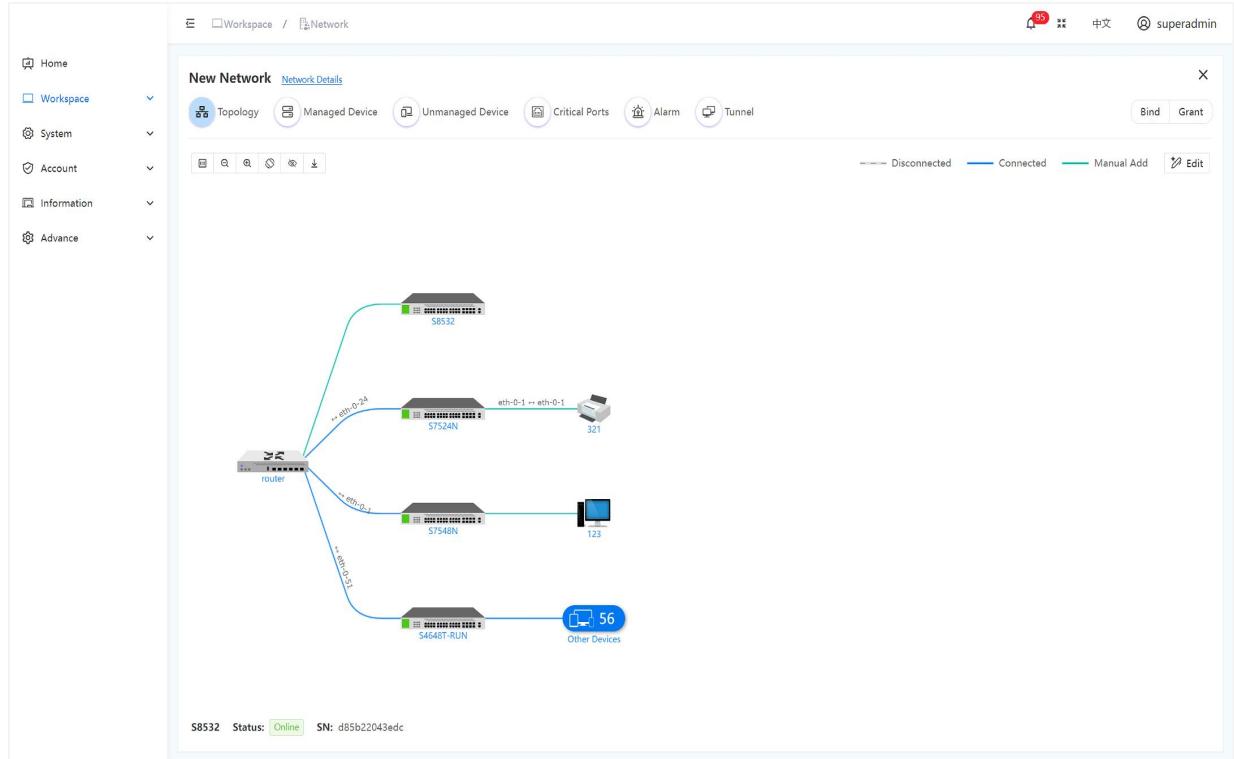
CPU Usage: 7% | Memory Usage: 28% | Flash Usage: 2% | Around Chip: 42°C | Switch Chip: 57°C | Fan:1-1 40% | Fan:1-2 40% | Fan:1-3 40% | Fan:1-4 40% | Power-1 | Power-2

**Resource List**

| No. | Port    | Status | Speed | Duplex | Mode   | Enable Status                       | Critical Ports | Peer Device MAC | Peer Device IP | Alias | Tag  |
|-----|---------|--------|-------|--------|--------|-------------------------------------|----------------|-----------------|----------------|-------|--|
| 1   | eth-0-1 | Down   | auto  | auto   | ACCESS | <input checked="" type="checkbox"/> | No             |                 |                | 321   | <a href="#">Printer</a> <a href="#">Edit</a> |
| 2   | eth-0-2 | Down   | auto  | auto   | ACCESS | <input checked="" type="checkbox"/> | No             |                 |                |       | <a href="#">Edit</a>                         |

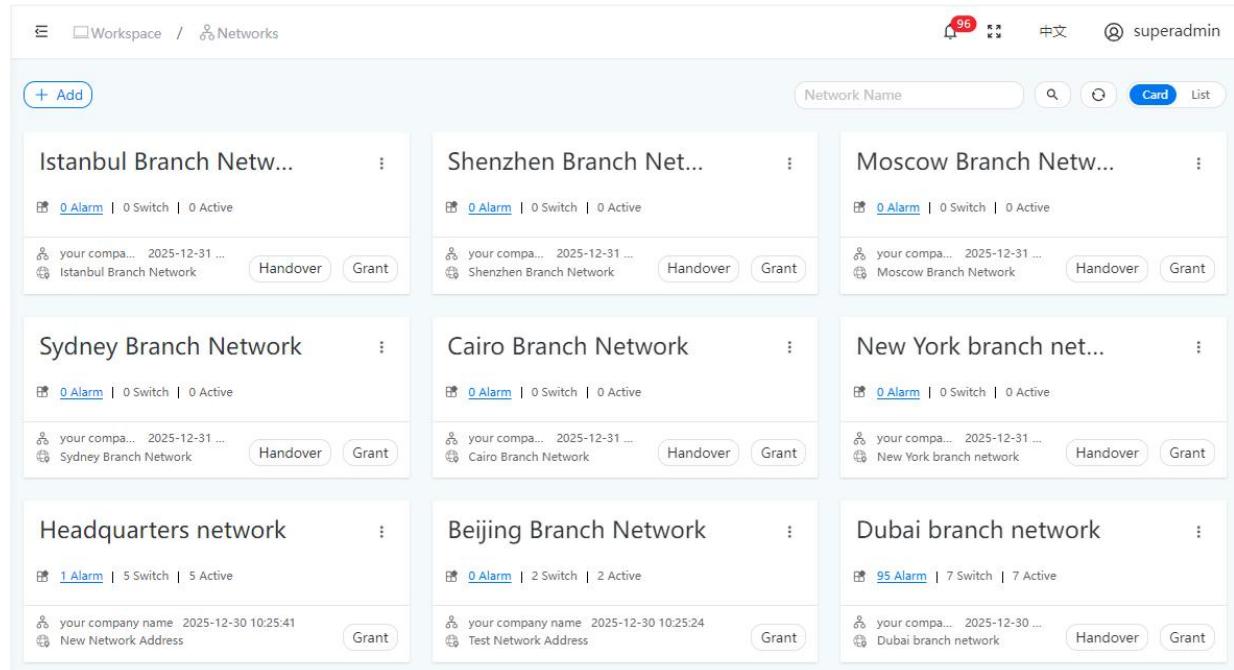
## Automatic TOP Discovery and Visualization.

DHCS automatically discovers network nodes based on the neighbor discovery protocol and automatically generates a network topology map.



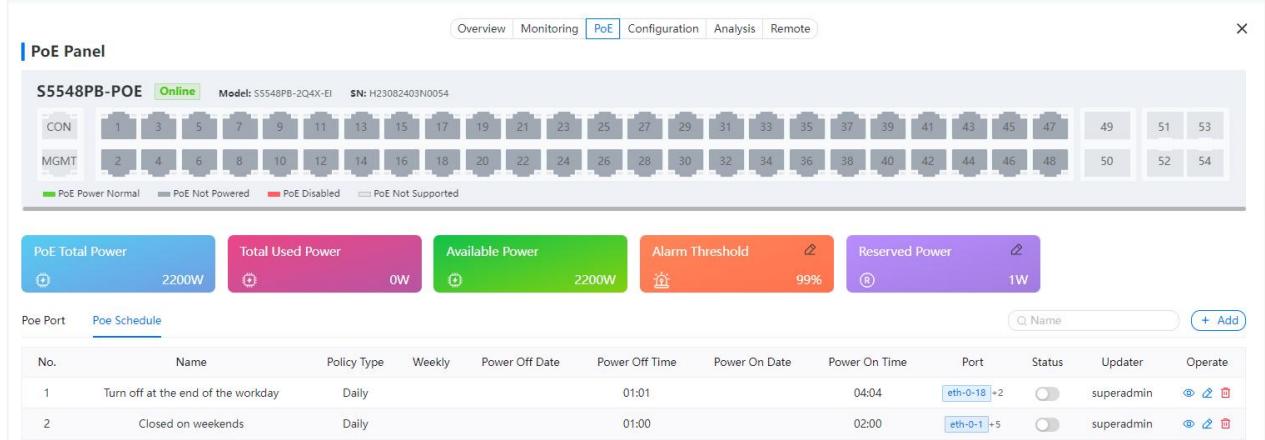
## Multi-network Domain Management

DHCS supports multi-domain network management and assigns different management permissions to different network domains.



## Intelligent POE Network Energy Management and Control

Support the energy planning function and provide programmable capabilities for the POE energy network.



## DHCS Installation Package and Image

### Release List

DHCS for Ubuntu install package (ubuntu 20.04.6 LTS /22.04.5 LTS /24.04.3 LTS)

DHCS for VM and ESXi image

DHCS for Podman image

## DHCS Minimum Installation Host Technical Requirements

| Item      | requirements   | Remark  |
|-----------|--|---|
| OS        | ubuntu 20.04.6 LTS<br>ubuntu 22.04.5 LTS<br>ubuntu 24.04.3 LTS | Server version, kernel $\geq 4.14$<br>(check with uname -r) |
| CPU       | X86 4 cores with 8 threads, and frequency is over 2.8 GHz      |   |
| Memory    | $\geq 4\text{GB}$  | Based on 2000 devices                                       |
| HD        | $\geq 500\text{G}$   | Based on 2000 devices                                       |
| NIC       | $\geq 100\text{M}$   | Based on 2000 devices                                       |
| Bandwidth | $\geq 3\text{M}$   | Based on 2000 devices                                       |

**DHCS Features List table**

Tips for reading:

○-support X- nonsupport

| Type                                 | Feature  | Support Remark   |
|--------------------------------------|--|--|
| Deployment mode                      | Public cloud deployment  | Provide device management services based on the public network <input type="radio"/>                                   |
|                                      | Local Area Network Deployment  | Provide device management services based on the local area network <input type="radio"/>                               |
| Operating model                      | Multi-organization operation   | Multiple enterprises/groups/organizations share a management platform with isolated permissions. <input type="radio"/> |
|                                      | Single organization operation  | A single organization uses a single management platform. <input type="radio"/>   |
| Multi-network management             | Multiple "networks" can be created, and independent management permissions can be configured for each. | <input type="radio"/>  |
| Basic device management              | Graphical simulation panel   | <input type="radio"/>  |
|                                      | Port connection status monitoring  | <input type="radio"/>  |
|                                      | CPU utilization monitoring   | <input type="radio"/>  |
|                                      | Memory utilization monitoring  | <input type="radio"/>  |
|                                      | Flash utilization monitoring   | <input type="radio"/>  |
|                                      | FAN utilization monitoring   | <input type="radio"/>  |
|                                      | PSU utilization monitoring   | <input type="radio"/>  |
| Optic Transceivers status monitoring | Vendor information discovered  | <input type="radio"/>  |
|                                      | Module type information display  | <input type="radio"/>  |
|                                      | Temperature monitoring   | <input type="radio"/>  |
|                                      | Voltage(V) monitoring  | <input type="radio"/>  |
|                                      | Current(mA) monitoring   | <input type="radio"/>  |
|                                      | Tx /RxPower(dBm) monitoring  | <input type="radio"/>  |
|                                      |  |  |
| Port Schedule                        | Custom port enable/disable plan  | Daily /Weekly/ Specified Date <input type="radio"/>  |
|                                      |  | Multiple plans <input type="radio"/>   |
|                                      |  | Custom port range <input type="radio"/>  |

| Type                     | Features   | Support               | Remark |
|--------------------------|--|-----------------------|--------|
| Port traffic monitoring  | Upstream Traffic monitoring                          | <input type="radio"/> |        |
|                          | Downstream Traffic monitoring                        | <input type="radio"/> |        |
|                          | Upstream Packet Rate                                 | <input type="radio"/> |        |
|                          | Downstream Packet Rate                               | <input type="radio"/> |        |
| Configuration Management | ShowRunningConfig                                    | <input type="radio"/> |        |
|                          | ShowStartupConfig                                    | <input type="radio"/> |        |
|                          | One-click Configuration Rollback                     | <input type="radio"/> |        |
|                          | Configure the switch based on the reference template | <input type="radio"/> |        |
| POE Config               | Enable / Disable PoE                                 | <input type="radio"/> |        |
|                          | Priority adjustment                                  | <input type="radio"/> |        |
|                          | Alarm Threshold Config                               | <input type="radio"/> |        |
|                          | Sytem Reserved Power Config                          | <input type="radio"/> |        |
| POE Management           | Port Power Status                                    | <input type="radio"/> |        |
|                          | Port Current(mA)/Voltage(V)                          | <input type="radio"/> |        |
|                          | Port PSE Chip Temperature(°C)                        | <input type="radio"/> |        |
|                          | Port Priority  | <input type="radio"/> |        |
| POE Monitoring           | Port Actual Power(W)                                 | <input type="radio"/> |        |
|                          | Sytem PoE Total Power budget                         | <input type="radio"/> |        |
|                          | System Total Used / Available Power                  | <input type="radio"/> |        |
|                          |  |                       |        |
| Log and Diagnosis        | Obtain device logs                                   | <input type="radio"/> |        |
|                          | Obtain the device diagnostic report                  | <input type="radio"/> |        |
| Remote Maintenance       | Remote WEB access based on tunneling technology      | <input type="radio"/> |        |
|                          | Remote SSH access based on tunneling technology      | <input type="radio"/> |        |
|                          | Remote TELNET access based on tunneling technology   | <input type="radio"/> |        |

| Type                               | Feature  | Support  | Remark                |
|------------------------------------|--|--|-----------------------|
| Network TOP discovery and mapping  | TOP drawing  | Automatic drawing based on the neighbor discovery protocol | <input type="radio"/> |
|                                    |  | Manual drawing and editing                                 | <input type="radio"/> |
|                                    | Manually add third-party device  | Computer   | <input type="radio"/> |
|                                    |  | Switch   | <input type="radio"/> |
|                                    |  | Printer  | <input type="radio"/> |
|                                    |  | Router   | <input type="radio"/> |
|                                    |  | Server   | <input type="radio"/> |
|                                    |  | Custom   | <input type="radio"/> |
|                                    |  | AP   | <input type="radio"/> |
|                                    | Registration to DHCS   | USB disk ZTP method  | <input type="radio"/> |
|                                    |  | DHDP Automatic discovery protocol                          | <input type="radio"/> |
|                                    |  | Manual CLI registration                                    | <input type="radio"/> |
| Device registration and binding    | WEB GUI interface registration   | WEB GUI interface registration                             | <input type="radio"/> |
|                                    |  | Binding code binding                                       | <input type="radio"/> |
|                                    | Bind a device to a network   | Network number binding                                     | <input type="radio"/> |
|                                    |  | Port number and connection relationship                    | <input type="radio"/> |
|                                    |  | Alarm indication bubble                                    | <input type="radio"/> |
| Top detail function                | Adjust the top direction   | <input type="radio"/>                                      |                       |
|                                    | Zom in/out   | <input type="radio"/>                                      |                       |
|                                    | Top Download   | <input type="radio"/>                                      |                       |
|                                    | Handover   | Automatically generate handover report                     | <input type="radio"/> |
| Network handover and authorization |  | Automatic transfer of authority                            | <input type="radio"/> |
| authorization                      | Provide temporary or permanent network access privileges for other accounts. | <input type="radio"/>                                      |                       |

| Type                       | Feature                           | support               | Remark |
|----------------------------|-----------------------------------|-----------------------|--------|
| Network Alram              | Loop Detection Alarm              | <input type="radio"/> |        |
|                            | CRC Error Alarm                   | <input type="radio"/> |        |
|                            | Link Aggregation Group Alarm      | <input type="radio"/> |        |
| Optical Alarm              | Optical Power Degradation Alarm   | <input type="radio"/> |        |
|                            | Optical Power Degradation Alarm   | <input type="radio"/> |        |
|                            | Temperature Alarm                 | <input type="radio"/> |        |
|                            | Temperature Alarm                 | <input type="radio"/> |        |
|                            | Voltage Alarm                     | <input type="radio"/> |        |
|                            | Voltage Alarm                     | <input type="radio"/> |        |
|                            | Current Alarm                     | <input type="radio"/> |        |
|                            | Current Alarm                     | <input type="radio"/> |        |
|                            | Cpu Usage Alarm                   | <input type="radio"/> |        |
| Alarm                      | Memory Usage Alarm                | <input type="radio"/> |        |
|                            | Storage Usage Alarm               | <input type="radio"/> |        |
|                            | Critical Port Failure             | <input type="radio"/> |        |
|                            | Temperature Alarm                 | <input type="radio"/> |        |
|                            | Fan Alarm (Speed 100%)            | <input type="radio"/> |        |
|                            | Fan Alarm (Speed 0%)              | <input type="radio"/> |        |
|                            | Fan Alarm (Fail)                  | <input type="radio"/> |        |
|                            | Downlink Traffic                  | <input type="radio"/> |        |
|                            | Uplink Traffic                    | <input type="radio"/> |        |
| Resource Alarm             | POE Power Alarm (Threshold)       | <input type="radio"/> |        |
|                            | POE Power Alarm (Reserved)        | <input type="radio"/> |        |
|                            | Manual Reboot                     | <input type="radio"/> |        |
|                            | Power Off Reboot                  | <input type="radio"/> |        |
|                            | Over Temperature Reboot           | <input type="radio"/> |        |
|                            | Top bubble                        | <input type="radio"/> |        |
|                            | E-Mail                            | <input type="radio"/> |        |
|                            | Mobile phone message service      | <input type="radio"/> |        |
|                            | WeChat                            | <input type="radio"/> |        |
| Alarm message notification | Customized other message channels | <input type="radio"/> |        |

| Type                              | Feature  | Support Remark  |
|-----------------------------------|--|---|
| OTA upgrade                       | Upgrade package file management  | <input type="radio"/>   |
|                                   | Scheduled upgrade package delivery   | <input type="radio"/>   |
|                                   | Scheduled restart function (reducing the impact of network interruptions on business operations) | <input type="radio"/>   |
| Configuration Template Management | Configuration template addition, edit, download, and deletion                                    | <input type="radio"/>   |
| ZTP template                      | Automatically generate ZTP templates   | <input type="radio"/>   |
| System setting                    | DHCS Host machine monitoring   | CPU/Memory/Disk/TCP Connection Status/System /Network Traffic |
|                                   |  | <input type="radio"/>   |
|                                   |  | Platform Owner Setting  |
|                                   |  | <input type="radio"/>   |
|                                   |  | cloud service domain name or ip address Setting               |
|                                   |  | <input type="radio"/>   |
|                                   |  | Default Language Setting                                      |
|                                   |  | <input type="radio"/>   |
|                                   |  | System Display Name Setting                                   |
|                                   |  | <input type="radio"/>   |
|                                   |  | Copyright information Setting                                 |
|                                   |  | <input type="radio"/>   |
|                                   | Platform Setting   | Privacy Policy Setting  |
| Operate Log                       |  | <input type="radio"/>   |
|                                   |  | User Agreement Setting  |
|                                   |  | <input type="radio"/>   |
|                                   |  | Service Agreement Setting                                     |
|                                   |  | <input type="radio"/>   |
|                                   |  | Login Page Logo Setting                                       |
|                                   |  | <input type="radio"/>   |
|                                   |  | Browser Icon Setting  |
|                                   |  | <input type="radio"/>   |
|                                   |  | Top-left Logo Setting   |
| License                           |  | <input type="radio"/>   |
|                                   | SMTP Server and ID Setting   | <input type="radio"/>   |
| Email Template                    | WeChat Setting   | <input type="radio"/>   |
|                                   | Automatically record all user operation logs   | <input type="radio"/>   |
|                                   | Customize Email Notification Message Template  | <input type="radio"/>   |
| Account, Role, Authorization      | Purchase license files flexibly based on the size of the network.                                | <input type="radio"/>   |
|                                   | account  | Account addition / edit / lock / deletion                     |
|                                   | roles  | <input type="radio"/>   |
| Authorization                     | Customized roles and role permissions  | <input type="radio"/>   |
|                                   | Granting authorization to accounts based on role definitions                                     | <input type="radio"/>   |

## DHCS Order List

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DHCS V1.0                    DHCS Software V1.0 , Includes 5 free nodes

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DHCS license 50            DHCS 50-node license, with multiple licenses that can be cumulatively added.

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DHCS license 100            DHCS 100-node license, with multiple licenses that can be cumulatively added.

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## About HOHUNET:

HOHUNET was established in 2015 as a technology-oriented company specializing in the independent development of switch products based on domestic chips. With the continuous evolution of chip technology, HOHUNET has launched a range of differentiated products based on this chip platform. Currently, the company's product line covers a range from 1G to 800G and can be used in scenarios such as enterprise networks, carrier networks, data centers, and AI computing power. Currently, the main cooperation model for the company is OEM/ODM, dedicated to providing customers with flexible and end-to-end customized products and technical consulting services. Becoming the most trusted business partner for customers has always been the company's mission and principle.

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