

A blue background featuring a stylized city skyline with various network-related icons (phone, globe, mail, cloud, Wi-Fi, etc.) connected by curved lines, suggesting a global network.

DINSTAR Network Management System (NMS)

Overview

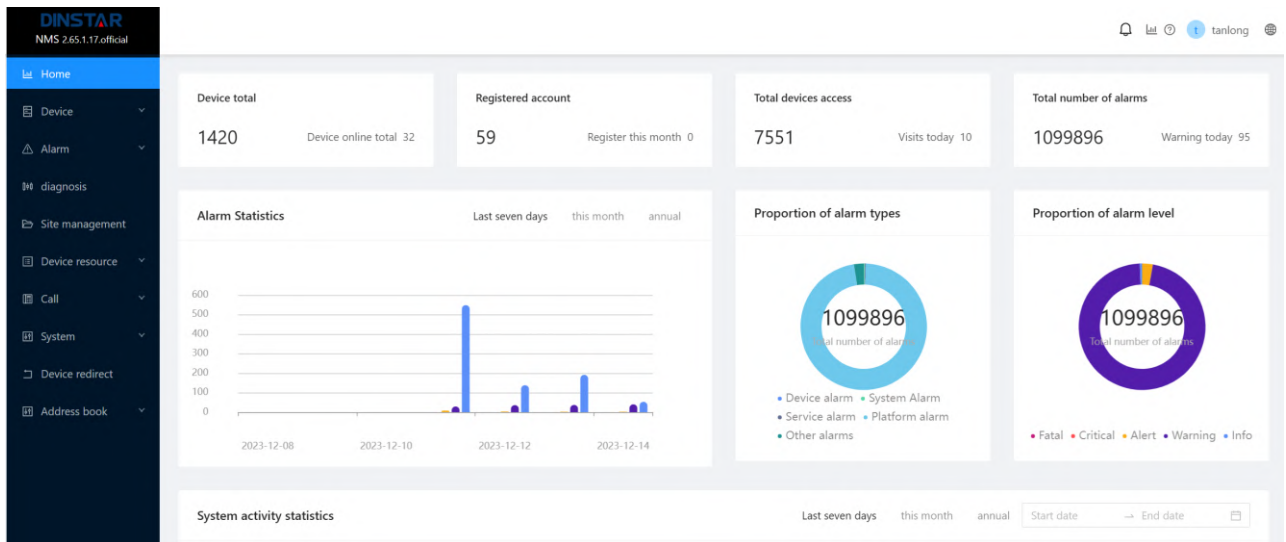
DINSTAR Network Management System (NMS) is an integrated management platform based on cloud architecture, which can centrally manage, monitor and troubleshoot of all DINSTAR devices including VoIP Gateways, IP Phones, IP PBXs, Session Border Controllers, and SIP Intercoms. The NMS system integrates a series of management and maintenance functions such as device deployment, firmware upgrade, configuration distribution, data backup/restore, device monitoring, automatic deployment, remote access, remote diagnostics, real-time alarms, call statistics, and log management.

It provides efficient, convenient, safe, reliable, easy-to-use and easy-to-deploy total device management solutions for enterprises, authorized resellers and ITSP hosting service providers, which can improve work efficiency and reduce operation and maintenance costs.

Key Features

- Flexible Deployment: Support public cloud, Virtual Machine, and X86/ARM server deployment
- Real-time Monitoring: 7*24 hours monitoring of device running status and service status
- Alarm Push Notification: Automatically send alarm push notification when the device is running abnormally. Support email, WeCom and webhook push
- Auto Deployment: Support auto-upgrade, auto-configuration, auto-backup and auto-restore
- Remote Diagnostics: Provide remote web, telnet, packet capture and other diagnostic tools to improve the efficiency of operation and maintenance
- Multi-site management: Support flexible group management. Group devices according to different districts, models and departments
- Role Management: Support multi-level user privileges control
- Support device redirection service
- Dashboard: Real-time device monitoring and real-time analysis
- Open API: Open API for device management to work with other platforms

NMS User Interface



Key Features

Device Management

- Web
- Telnet
- Pre-configuration
- Device Search
- Firmware Upgrade
- Configure Management
- Batch Configuration
- Configuration Backup
- Configuration Restore
- Restart & Factory Reset
- Device Diagnose
- Device Hardware Monitoring
- Network Quality Monitoring
- Service Status Monitoring
- Port /DSP/SDH Monitoring
- Call Statistics Monitoring
- Multi-site management
- Scheduled Task Management
- Device Remote Access

System Management

- Account Management
- System Help Center
- Security Logs
- Login Logs
- Operation Logs
- Multi-Manager Mode
- Soft Reboot
- System Monitoring
- Certification Management
- Multilingual
- Built-in FAQ
- Single-click Installation
- Device Access Type Settings
- Auto-discovery of Devices via PnP
- User Privileges Management
- User Information Management
- System Database Back-up Management

Resource Management

- Upgrade Package Management
- Configuration File Management
- Backup File Management
- OpenVPN File Management

Reporting and Notification

- Real-time Alarm
- Alarm Confirm
- Historical Alarm
- Alarm Analysis
- Alarm Push
- Email Alerts
- Remote Push

Service Management

- CDRs Management
- Voice Quality Analysis
- Statistic Analysis
- People Contacts
- Enterprise Contacts
- Device Redirect

Security

- TLS Encrypted Transmission
- Web Attacks Avoiding
- License
- Token Bucket Traffic Limiting
- IP Blacklist
- Device Connection Authentication
- Remote Access Timeout

Supported DINSTAR Devices

- IP Phone C series
- IP PBX UC series
- Session Border Controller SBC series
- SIP Door Phone DP series
- Analog VoIP Gateway DAG series
- Digital VoIP Gateway MTG series
- GSM/LTE VoIP Gateway UC2000 series

* For some series, only part of the NMS features are supported. Part of the features are still in development.

System Requirements

Hardware environment

The table below is a guidance for you to select the proper dedicated server, based on our lab tests statistics. The corresponding specification of the server is recommended to ensure stable operation of this system.

Number of Terminals	Memory	CPU	Ethernet Port	Hard Disk
1,000/units	4GB	2 core	1*FE	100GB
2,000/units	8GB	2 core	1*FE	200GB
5,000/units	16GB	4 core	1*GE	500GB
10,000/units	32GB	6 core	1*GE	1TB
50,000/units	64GB	12 core	1*GE	2TB

Software environment

The operating environment of this system is based on the combination of Docker containers, supporting Docker Engine 17 and above. Before installing the NMS system, you need to install the Docker environment in advance.

System environment

The system only supports Linux: Ubuntu 16.04 x64 , Centos7.2 x64 or later versions.

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About Us

Founded in 2011 in Shenzhen, DINSTAR is a leading global provider of IP Unified Communication products including VoIP Gateways, IP PBXs, IP Phones and SBCs, we have been delivering more agile, efficient and affordable communication solutions and unparalleled communication experiences to our customers with our reliable, innovative and future-proof products for years. Through our value-added distributors and resellers worldwide, now DINSTAR serves telecom operators, service providers, system integrators, enterprises, SMBs and OEM partners in over 100 countries.