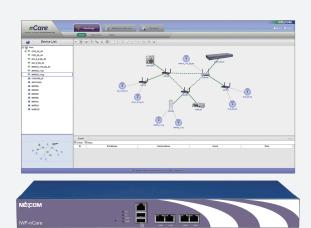# IWF 800 nCare

Main Features

- Automatically discover managed devices by SNMP, CAPWAP & Modbus scan
- Visual topology to display device and wireless link status for remote management
- Supports Modbus TCP protocol to communicate with Modbus device for asset management
- Easy remote provisioning, configuration, firmware upgrade and reboot for NEXCOM IWF devices
- Flexible events and notifications with pre-defined threshold

- Supports third-party devices with MIB compiler and MIB browser
- Comprehensive report and log, including asset status, system log and usage report
- Supports smart phone/tablet APP for mobile management
- Support API, customization service for management of private protocol communication
- Co-existing with 3rd party management solution through standard, open interface
- Management scope can be up to 6,000 nodes

Product Overview

Nowadays, lots of production data or device information needs to be smoothly transmitted to server or cloud for big data analytic in I4.0 applications. Thus, a good management tool to ensure the connectivity facilities, including networking and field devices run in good condition is very important.

NEXCOM provides nCare, I4.0 Node and Network Manager to fulfill the demand of such management. nCare is designed with protocols for network management and Modbus. This enables nCare to manage not only NEXCOM's IWF products but also third party devices. In addition, nCare can also manage those devices implemented with Modbus protocol. nCare is a perfect tool to manage connectivity products from device to network backbone and construct 3-layer management solution in I4.0 applications.

Specifications

nCare Manager Platform Requirement

Operating System
- Windows 7 (64-bit)
- VM supported by project base

Hardware
- CPU support: Intel® Atom™ Quad-core 2.4GHz
- Main memory: 8GB memory with DDR3 1600MHz Long-DIMM sockets
- I/O interface-front
  - 2 x USB 2.0 ports
  - 1 x RJ45 type console port
  - 4 x GbE copper ports
  - 1 x reset button
- I/O interface-rear
  - 2 x USB 2.0 ports
  - 1 x VGA port
- HDD storage: 500GB

Client Platform Requirement

PC System
- Display resolution: 1024 x 768 or above
- Browser: Chrome, IE11, Firefox
  - Hardware: Intel® Atom™ or above, 8GB DDR3
- Mobile device for APP
  - Android: 5.0 or above (iOS9 will be supported later)

Functionality

Auto Discovery
- Support CAPWAP, LLDP & SNMP, Modbus TCP
- Support NEXCOM IWF AP/Mesh, NIO series gateway, industrial PC series via Xcare utility*
- Support rogue AP detection through SNMP
- Manually add/edit/delete managed devices

Visual Topology
- View multi-layer topology at a glance
- Display Mesh Paths & Neighbor Links dynamically
- Show link traffic and threshold setting instantly
- One click for Device Asset information
- Support remote PING function
- Support Google, Baidu and customized layout Map
- Support location coordinate remark

AP/Mesh Networking Device Management (Only to NEXCOM IWF)
- Provisioning & configure
- Configuration setting backup & restore
- Restore to factory default
- Remote AP reboot/reset
- Firmware upgrade thru manual/batch/schedule**

Device Node Management

* Support device protocol: Modbus TCP/RTU/ASCII, NEXCOM Xcare, WMI (Windows Management Interface)*
* Monitor device health condition: HDD life, CPU/memory usage, temperature, etc. (through Xcare)
* Remote device threshold setting and provisioning
* Remote device control: reboot, watchdog enable/disable
* Customized service for customer owned device asset management

Report & Log

* Managed device profile report
* Managed device status report: network traffic, system usage
* Export formats: csv and txt file
* System log: 6-month log in local database

Event Notification

* Event trigger by
  - Pre-defined threshold
  - generic trap rules
    Link-up
    Link-down
    Warm start
    Cold start
* Outbound notice
  - Email
  - S.M.S. (Clickatell service subscribed by end user)
  - Social Media: WeChat, Facebook, Twitter

Administration

* Privilege: 3-level (admin, manager, users)
* Concurrent access user: 5
* Supported node number: 1,000 (default)
* Scale up to max. 3,000 nodes by project base

Physical

* 1U 19" rack mount, 430mm x 260mm x 44mm
* Net weight: 5kg
* Operating temperatures: 0°C~40°C
* Storage temperature: -20°C~75°C
* Relative humidity: 10%~90% non-condensing
* Certifications: CE/ FCC

Ordering Information

* **IWF 800 nCare, I4.0 node and network manager**

  (P/N: 10T0NCARE00X0)