ZyXEL

- Scalability management up to 2,000 devices
- Network and device auto-discovery
- Firmware upgrade/backup and device configurations
- Performance alerts and monitoring
- ZyXEL switch specialized in RMON management and visual VLAN management
- ZyXEL in-wall Access Point (AP) specialized in detection and provisioning applications (ENC V1.2 and above)

ENC

Enterprise Network Center

Intuitive, Real-time Monitoring and Management of Distributed Devices

The ZyXEL Enterprise Network Center (ENC) is a network management system for centralized management of ZyXEL networking equipment for businesses; it's a comprehensive network management tool that can be quickly installed and easily accessed across the IP networks. The ZyXEL ENC is designed for small and medium-sized businesses with a single console to enjoy extensive, scalable and seamless management across the entire corporate network. Featuring intelligent discovery, ingenious monitoring and smart management, the ZyXEL ENC assists IT staff to minimize overheads and errors while improving operational efficiency.

Benefits

Access anytime, anywhere

The ZyXEL ENC provides Web-based access for IT administrators to facilitate network monitoring and management without requiring dedicated client installation. The IT staff can utilize the ENC to check device health or network inventory with a browser, wherever an IP network is available, without the limitation of time and physical location.

Smart management fulfilling IT needs

Discovery & mapping

The ZyXEL ENC uses various protocols and centralized credentials to automatically discover deployed ZyXEL equipment, and it performs periodic data polling for the environment to ensure accurate network integrity. IT administrators can maintain a complete inventory of ZyXEL-managed infrastructure and easily monitor the network environment in their customized topology viewer.

Configuration & scheduling

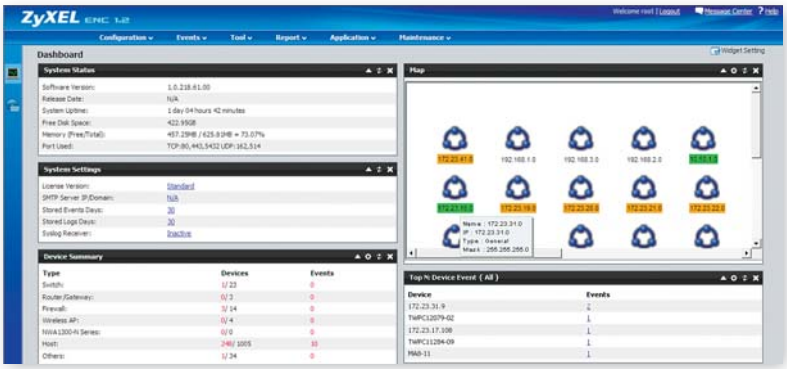
The configuration management capabilities of ZyXEL ENC allow administrators to perform automatic maintenance, backup and restoration of network device configurations to eliminate inefficiency and error associated with manual operations. The ENC also centralizes firmware management, with which firmware versions can be deployed to individual devices or groups of devices based on the schedule.

Monitoring & reporting

The ZyXEL ENC supports in-depth correlation, real-time alarming and troubleshooting. It presents not only system information such as CPU usage and bandwidth utilization to prevent possible network problems, but also offers customizable notification and alarm setting via multiple methods to escalate correcting actions to the appropriate administrators. A threshold can be set to generate alarms on any monitor to quickly alert the operators of any issue.

Easy to read, identify and compare

The ENC dashboard presents the real-time state of critical events, health-affecting conditions and performance metrics of ZyXEL-managed devices to provide the essential information for any possible attention. It is also customizable, so the IT members can have individual views based on their account privileges. The ZyXEL ENC provides the graphical Object Tree View (OTV) that maps the managed devices and networks on the imported scheme and details such as device up/down status and alarm status. With these indicators and metrics in hand, the IT staff can consistently ensure the network to meet expectations or take further correction if needed.



Customized dashboard displays different account's privileges.

Object Tree View (OTV) maps the managed devices and networks on the imported scheme and details.

Hospitality Application: AP Manager

With the release of ENC 1.2, the ZyXEL NWA1300-NJ In-wall PoE AP is supported on the platform to run a variety of sophisticated applications. Specially designed for hospitality Internet services with massive deployments, the Hospitality Suit of ENC management platform allows administrators to effortlessly manage the network in a smarter way.

Intelligent deployment assistant saves construction cost

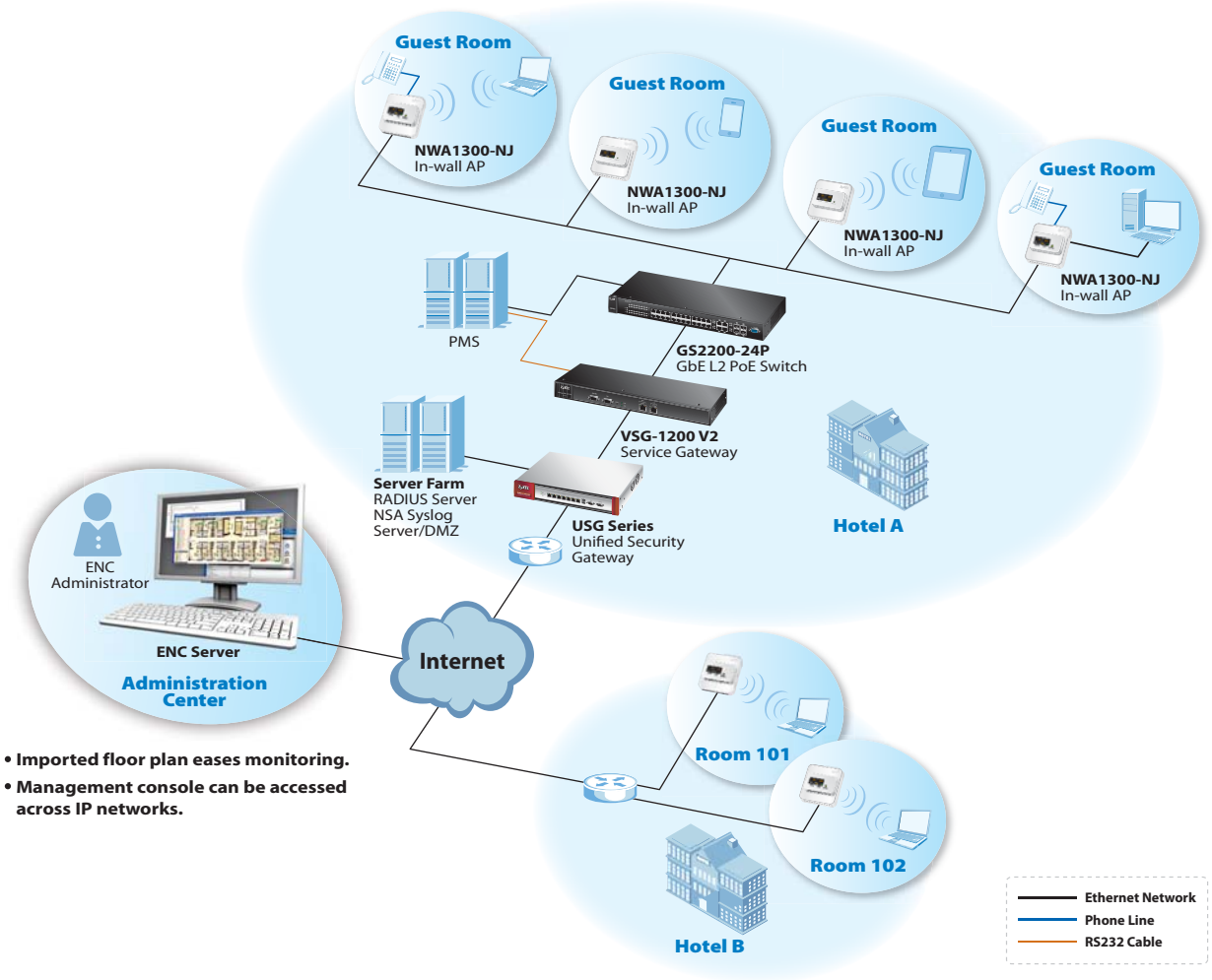
The actual equipment installation work of hotels during the construction phase is not usually aligned with the perspective of networking administrators. Featuring innovative and unique designs, the ENC server can scan for the NWA1300-NJ in the field and then apply network configurations spontaneously and automatically. With the profile-based configuration design, the administrators can manage a single or a group of the NWA1300-NJ according to the location topology, guest room priority or geographical difference.

Location view for user-friendly, convenient monitoring

As traditional network management tools are based on IP logical view, they are usually not intuitive enough for hotel IT administrators due to lacking of the location information. The ZyXEL ENC Hospitality Suit supports not only general management through the IP logical view, but also visual and customizable location views by floor or building. With this special design, ENC relieves the redundant work of checking device status and eliminates the possible errors in scattered, complicated operations.

Quick, powerful troubleshooting

It is sometimes difficult to identify radio coverage problems, especially those happened in public areas. With the capability to pull the imperative parameters and indicators from the managed NWA1300-NJ, the ZyXEL ENC allows hotel IT administrators to quickly pinpoint the location and type of errors. The found problems are described with clear, comprehensive illustrations to help administrators performing troubleshooting and thus provide high-quality wireless service to the hotel guests.



- **Imported floor plan eases monitoring.**
- **Management console can be accessed across IP networks.**

Technical Specifications

Operating System Requirement	
Minimum System Hardware—Server	• CPU: Intel P4 2.8 GHz • Memory: 2 GB • Hard disk: 10 GB
Minimum System Hardware—Client	• CPU: Intel P3 450 MHz • Memory: 256 MB
Server OS Support	• Windows XP Professional • Windows Vista (32-bit) • Windows 7 (32-bit, 64-bit) • Windows Server 2008 (Only tested on R2 Enterprise 64-bit and R2 Standard 64-bit)
Client Browser Support	• Microsoft IE 7.0 or later • Mozilla Firefox 3.0 or later (Recommended)
Other Requirement	• Mail server (optional)
Discovery and Mapping	
Automated Device Discovery	• Automated device discovery
Discovery Protocol Support	• SNMP • ICMP ping • Port scan
Device Resynchronization	• System resynchronization with device inventory
Device Resynchronization Scheduling	• Ability to schedule device resynchronization to be performed at a specified future time/dates(s) • Default resynchronization interval of 3 minutes
Topology Mapping	• Dashboard view • Object Tree View (OTV) • Device filtering support through displaying specific devices by model names or keywords
SNMP MIB Browser	• Includes a SNMP MIB browser for users to have quick views of all MIB attributes in the device
Configuration and Scheduling	
Configuration File Backup	• Device configuration file backup for applicable devices • Single node backup or group backup support • Immediate action or task scheduling support
Configuration File Restoration	• Device configuration file restoration for applicable devices • Single node backup or group backup support • Immediate action or task scheduling support
Device Firmware Update	• Automated update of selected firmware versions • Immediate action or task scheduling support
Scripting	• Command line interface (CLI)-based • Immediate action or task scheduling support
Configuration File Selection	• Ability to apply specific firmware versions on selected devices
Device Configuration	• Direct access/cut-through (HTTP/Telnet/SSH)
Monitoring and Reporting	
Event Monitoring	• SNMP trap reception with defined trap attribution, severity and descriptions
Event Log	• Event logs and notifications
Alarm Escalation	• Alarm generation based on pre-defined event definitions
Alarm Propagation	• Show alarm viewer information on the OTV tree
Alarm/Event Actions	• Event/alarm-initiated, pre-defined or user-defined actions: notification, configuration operations, etc.
Device Performance Presentation	• Real-time or historical key performance index of user-selected devices acquired and displayed
Active Performance Monitoring	• Device and interface monitoring, historical data persistence, thresholding and graphing packaged reports • Pre-defined reports for inventory, availability and port status, etc.
Packaged Reports	• Pre-defined reports for inventory, availability and port status, etc.
Report Export	• CVS, PDF and HTML formats are supported for report exports.
Report Emailing	• Packaged reports can be sent to identify administrator via e-mails or at a regular schedule.

Featured Switch Model Applications	
Visual VLAN Management	• Port-based graphical overview of VLAN settings
Port Utilization	• ENC supports data polling of the following essential management parameters of switch ports: ▪ Basic Setting ▪ Bandwidth Control ▪ Broadcast Storm Control ▪ Security ▪ Authentication • Applications on ENC: ▪ Set alarm threshold ▪ Real-time graphical monitoring ▪ Alarm notification via mail or HTTP-POST
Remote Networking Monitoring (RMON) View	• Centralized and visualize RMON setting (RMON activation) • Graph view to see Statistics and History variables ▪ Statistics: maintain utilization and error statistics monitored by the RMON agent ▪ History: Record periodic statistical samples from information available in the statistics group ▪ ENC provides graph view to see the trend of statistics and history.
Supported Devices	
Switches	• XGS-4728F, XGS-4528F, XGS-4526 • GS-4024, GS-4012F, GS2200-24 • ES-4124, ES-3148, ES-3124, ES-3124PWR, ES-2024A, ES-2024PWR, ES-2108, ES-2108-G, ES-2108PWR
WLAN APs	• NWA-1100 • NWA-3100, NWA-3160, NWA-3163, NWA-3166, NWA-3165, NWA-3500, NWA3550 • NWA1300-NJ (ENC V1.2 & above)
Ordering Information	
Licensing Information	• Device licenses can be mixed and matched. • The ENC platform is downloadable at http://www.zyxel.com/products_services/enterprise_network_center.shtml. This is the fully functional version, with a 50-node test capability and 30-day expiration limit. • If a formal license is activated, the trial device license counter will be reset.
Scalability	• License packs are available from 10 nodes to up to 1000 nodes. • Maximum supported nodes: 2000 devices

License

License	Description
ENC-10	10-device Management
ENC-50	50-device Management
ENC-100	100-device Management
ENC-500	500-device Management
ENC-1000	1000-device Management

For more product information, visit us on the web at www.ZyXEL.com

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