



MA4000 Management System

A Powerful, Easy-to-Use Management Solution

Voice and data applications are rapidly converging in the enterprise environment. This combined infrastructure has given rise to many innovative multimedia services that have significantly increased user productivity. However, this increase in feature and service capabilities is of little value without proper administration and management. NEC's MA4000 Management System provides the answer.

The MA4000 Management System exemplifies NEC's UNIVERGE®360 approach to communication. It provides a secure, centralized administration for reliable management of your converged enterprise environment and empowers your business by making your communications system a more productive asset.

At a Glance

- Centralized administration that integrates seamlessly
- Powerful, intuitive tools for simplified management
- Reliable fault management
- Advanced security through extensive controls

Centralized administration that integrates seamlessly

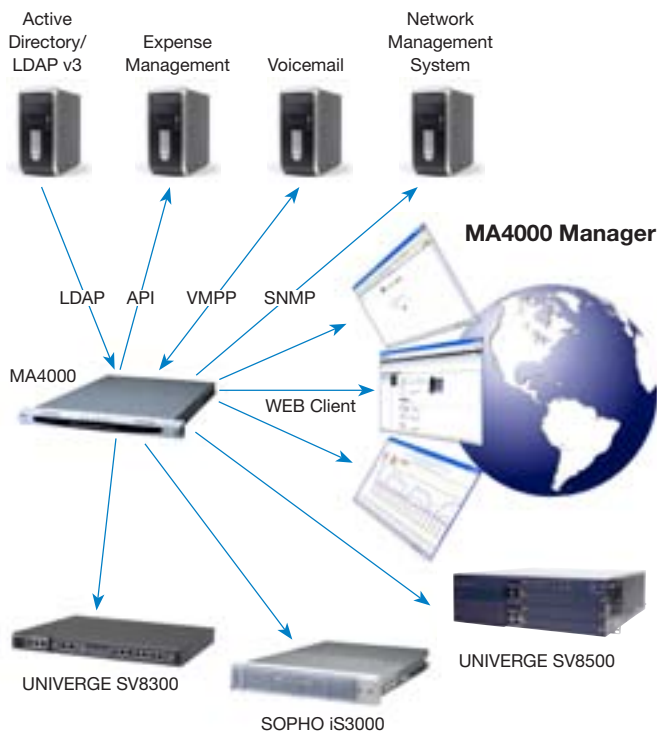
For a new management system to succeed in an organization, it must integrate seamlessly with existing management infrastructure. The MA4000 accomplishes this integration by providing a single point of administration. It acts as the front-end for your entire NEC communications solution.

The MA4000 uses common industry standards to ensure its effortless integration into your system.

- **LDAP Auto-provisioning.** The MA4000 uses Lightweight Directory Access Protocol (LDAP), which is the preferred protocol for deploying directory-based applications and solutions. It provides easy search and extraction of specific information based on user-defined criteria.
- **Single point of entry architecture.** The MA4000 acts as a single point of entry for IP-PBXs, voice mail, corporate directory, call accounting, E911 system and more.
- **Telecom Management Network (TMN) compliant.** The MA4000 is built on principles defined by the TMN model and supports integration with Network Management Systems (NMS).
- **SNMP (Simple Network Management Protocol) integration.** The MA4000 acts as an element management system (EMS) to communicate with network elements. It uses SNMP trap technology to forward and report network faults and inventory.
- **Security infrastructure integration.** The MA4000 easily integrates with enterprise authentication infrastructure by integrating with existing LDAP based and Microsoft based authentication methods.

Empowered by Innovation

NEC



Every element of the MA4000's web-based interface is designed to empower IT technicians and managers. Its easy-to-use GUI eliminates the need for weeks of expensive training and costly certification for administrators. Drop-down lists simplify terminal provisioning and management, and basic moves, adds and changes are handled with an intuitive wizard-like interface.



Powerful, intuitive tools for simplified management

The wizard-based MA4000 Range Programming tool makes it easy to edit large groups of devices and handle moves, adds and changes. Template programming is also simple. The MA4000 makes it easy to pre-define default configurations for stations, users and mailboxes. Those default configurations can be used to set up new devices or users by importing them with the Range Programming Tool, the Import Utility or the LDAP Auto Provisioning Tool.

The MA4000's Real-Time Monitoring Tool provides users real-time status for any station. The MA4000's Traffic Manager collects real-time VoIP and traffic statistics from the larger IP-PBXs. These tools automatically provide capacity planning and immediate, threshold-based alerts when problems occur.

Reliable fault management

The MA4000's proactive fault management stops network problems before they start. Faults are collected from all IP-PBXs and network applications in real time. Organizations can categorize these faults by type, severity, source or description and generate notices for each kind of fault.

Advanced security through extensive controls

The MA4000 provides companies with the most secure voice network communications available through its extensive controls, including:

- Proactive fault management
- Powerful end-to-end encryption
- Rapid disaster recovery
- Intrusion detection and toll-fraud prevention
- A single point of authentication into the NEC management interface
- An extensive audit history

Note: Supported functionality may differ per IP-PBX.

About NEC Corporation: NEC Corporation (NASDAQ: NIPNY) is one of the world's leading providers of Internet, broadband network and enterprise business solutions dedicated to meeting the specialized needs of its diverse and global base of customers. NEC delivers tailored solutions in the key fields of computer, networking and electron devices, by integrating its technical strengths in IT and Networks, and by providing advanced semiconductor solutions through NEC Electronics Corporation. The NEC Group employs more than 150,000 people worldwide. For additional information, please visit the NEC home page at: <http://www.nec.com>

For further information please contact your local NEC representative or:

EMEA (Europe, Middle East, Africa)
NEC Unified Solutions
www.nec-unified.com

North America (USA)
NEC Corporation of America
www.necam.com

Corporate Headquarters (Japan)
NEC Corporation
www.nec.com

Empowered by Innovation

