

## Data Sheet NMP WEB+



### Overview

With MICROSENS products you operate a decentralized network. While this structure offers various benefits, a distributed network could come with additional maintenance and administration efforts. The latest MICROSENS Network Management Software, NMP Web+ is specifically designed and developed to support administrators and IT specialists in their daily tasks and reduce the efforts and time for network management. NMP Web+ allows to keep an eye on the network devices, automate tasks, make changes to device configuration, deploy firmware updates and much more.

### Highlights

- Monitoring and management of MICROSENS network devices (Micro Switches, industrial Ethernet switches, 19" switches)
- Auto-discovery, group-based firmware updates and roll-out function with automated distribution of master configurations and firmware versions
- Network visualization
- Monitoring of availability and port activity
- Configurable event management
- Automated alarm messages
- Security, dedicated control of user access rights

## NMP Web+ Professional

### Application Area

- Small networks
- Commissioning of devices
- Firmware roll-out to devices or device groups
- Device configuration
- Device monitoring

### Management Architecture

- Single user / single computer
- Non-shared database
- Local data storage
- Supported operating systems
  - Windows

## NMP Web+ Enterprise

### Application Area

- Medium and large networks at several locations
- Firmware roll-out to devices or device groups
- Device configuration
- Device monitoring
- Multiple users
- Consistent data

### Management Architecture

- Multi user client-server SW application
  - Web login to access a NMP Enterprise server instance on a dedicated server
  - Server provides device manager and shared database services
- Database server
  - Central SQL database
- Supported operating systems
  - Windows

### Operational Security

- User Management and Access Security
  - User and Role Management for Access Control
  - Access Control via external Authentication Server (RADIUS)
  - Integration with RADIUS server (optional)
- Database backup
- Fail-safe configuration (optional)

## Feature Stack

### Common Features

- **Auto-Discovery**  
All active MICROSENS devices and other switches which are accessible via the device network will be discovered by the discovery component
- **Inventory**
  - Collect inventory data from managed devices: Hardware model information, firmware version, IP address, mac address
  - Creation of inventory lists
- **Logging**
  - Configurable logging of events in a central place
  - Syslog Server to receive syslog messages
  - Syslog Client to send syslog messages to an superordinate system e.g. umbrella manager
- **Automation of Firmware Updates**
  - Collect already deployed firmware version information
  - Upload a new firmware version to NMP
  - Deploy firmware to one or more MICROSENS devices
- **Topology manager**
  - Network Visualisation
  - Manual or automatic creation of topologies
  - Topology update
  - Load/remove map background
  - Zoom in/out
- **Flexible device tree**
  - For easy navigation
  - Definition of device groups per drag & drop
- **Device configuration**
  - Device configuration load/save
  - Master configuration
  - Update of firmware
  - Communication parameters
  - Device name
  - Install/uninstall applications
- **Task scheduler**
  - Configuration backup
- **Password Changer**
  - Change administrator and user passwords for multiple managed devices
- **E-mail Notifications**
- **Event & Alarm Handling**
  - Filtering of events
  - Forwarding of SNMP events
  - Sending an email as reaction on a detected event
  - Automatic alarm lists
- **Device search**
- **VLAN change**

### NMP Web+ Professional

- **Installed on one computer system**
  - Single user software application
  - Non-shared database

### NMP Web+ Enterprise

- **Multi user software application**
- **Shared database**
  - Embedded SQL database
  - Database backup/restore
- **Server Redundancy**
  - Optional
  - Replication & failover
  - Setup and configure a master/slave server environment
- **Integration Service**
  - Provide integration with 3rd party servers
  - SNMP server integration for data query
- **User management**
  - Manage NMP user access levels and roles
  - Manage administrator accounts and roles with access to the GUI
- **Context functions**
  - Device history
  - Show device logs
  - Unused devices
- **Management Perspectives**
  - Network administration
  - User administration

### Minimum System Requirements

- **Operating System 64 bit**
  - Windows 10
  - Windows Server 2016
- **RAM**
  - 8 GB
- **Free disk space**
  - 2 GB + 1 GB/1.000 additional managed devices
- **CPU**
  - 3 GHz, typically 4-6 Core CPU (current Xeon Server CPU, current i7 or i5 Desktop CPU; NMP Web+ Enterprise / NMP Web+ Professional)
- **Browser**
  - Chrome (latest version)
  - Firefox (latest version)
- **Display**
  - Resolution of at least 1280\*1024; recommended: 1920\*1080.

#### Note:

Please refer to the latest NMP user manual or the latest NMP Release Notes. The valid installation requirements can always be found in the current NMP Release Notes.

## License Model

For the installation of NMP Web+, the installation file is available to purchasers for download at <https://www.microsens.de>. During the installation the license defines whether NMP Web+ Professional or NMP Web+ Enterprise will be installed.


NMP Web+ Enterprise can be installed on a server and accessed from different computers via the browser. NMP Web+ Professional must be installed on the same machine from which it will later be used operationally (local host).

The base licenses of NMP Web+ Enterprise and NMP Web+ Professional include future software updates of the NMP software provided by MICROSENS.

For the administration of switches in NMP Web+ Enterprise or Professional, a device license is required for each switch to be administered, which is available with terms of one to five years. With a valid device license the full functionality of NMP Web+ for device administration is available. If no device license is present or if it has expired, the switches will still be displayed in NMP Web+, but cannot be configured via NMP (read only). If a new, valid device license is imported into NMP via the License Manager, the full range of functions (read/write) is available again.

A comprehensive user manual in .pdf format, describing the license file handling in detail is included with the installation file or available on the MICROSEN website. See also the section "Ordering Information" for more details.

## Order Information for NMP Web+

	Description	Article No.:
	<b>NMP Web+ Base Installation</b>	
	<b>NMP Web+ Enterprise</b> Base Installation, 1 x usage right for NMP Web+ Enterprise, incl. download and installation of updates, installation of server SW on max. 1 computer, electronic user manual included (.pdf)	<b>MS200500</b>
	<b>NMP Web+ Professional</b> Base Installation, 1 x usage right for NMP Web+ Professional, incl. download and installation of updates, installation of server SW on local computer, electronic user manual included (.pdf)	<b>MS200501</b>
	<b>Device licenses</b>	
	One year device license grants the right to administrate a MICROSENS device via NMP Web+ for one year	<b>MS200509-01</b>
	Two year device license grants the right to administrate a MICROSENS device via NMP Web+ for two years	<b>MS200509-02</b>
	Three year device license grants the right to administrate a MICROSENS device via NMP Web+ for three years	<b>MS200509-03</b>
	Four year device license grants the right to administrate a MICROSENS device via NMP Web+ for four years	<b>MS200509-04</b>
Five year device license grants the right to administrate a MICROSENS device via NMP Web+ for five years	<b>MS200509-05</b>	

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