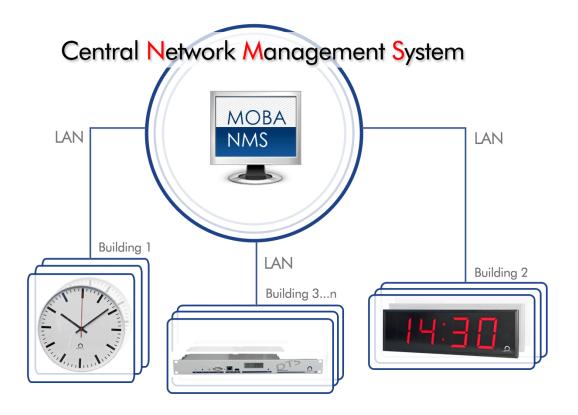


MOBA-NMS



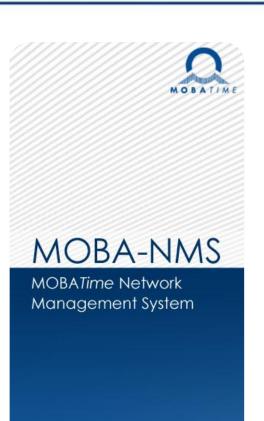


- 1. Main Features
- 2. Device Configuration and Management
- 3. DTS Devices Support
- 4. MOBA-NMS Web-Interface Comparison

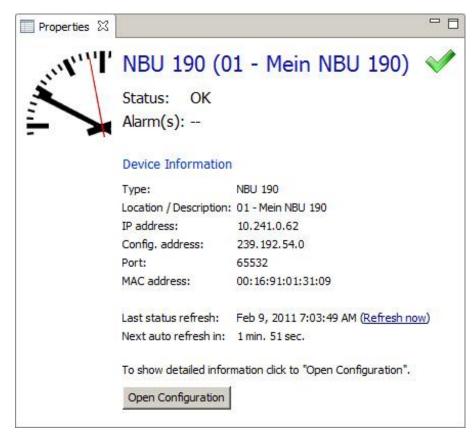


1. Main Features





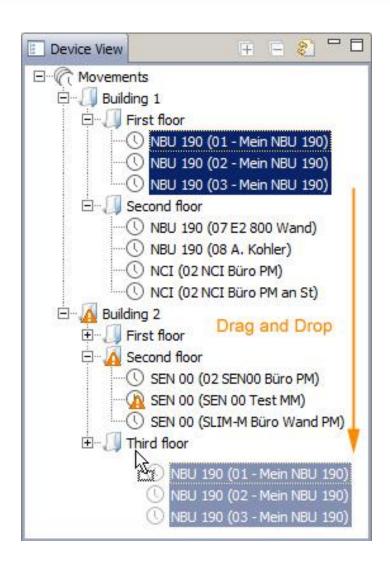
- device auto detection for multicast and unicast (IP range scan) communication
- read and change device configuration with a comfortable user interface
- display device status, time, error and alarm information of each device. Error and alarm information are additionally shown at group level
- create logical groups and move / sort devices per drag and drop for easier management and supervision
- save and load created configurations with all logical groups and devices
- multi-devices editor (change configuration values for multiple devices at the same time)
- CSV export for device view



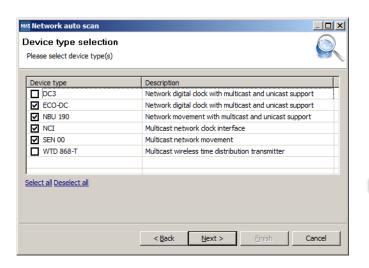
- display and change all configuration values
 like IP address, NTP server, SNMP settings
- send device commands (12:00 position for analog clocks) to one or more devices / logical groups for installation and maintenance purposes
- integrated TFTP server for a device firmware upgrade with only a few clicks
- MOBA-NMS provides a NTP and time zone packet monitor
- time zone file editor
- online-help
- automatic switching between unicast and multicast communication mode
- hostname resolution (DNS)

2. Device Configuration and Management

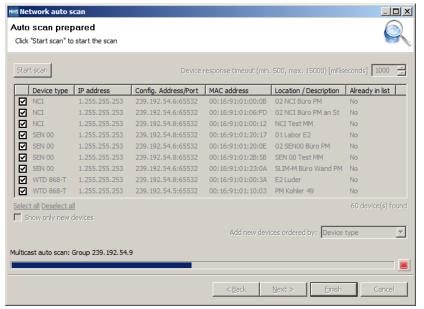




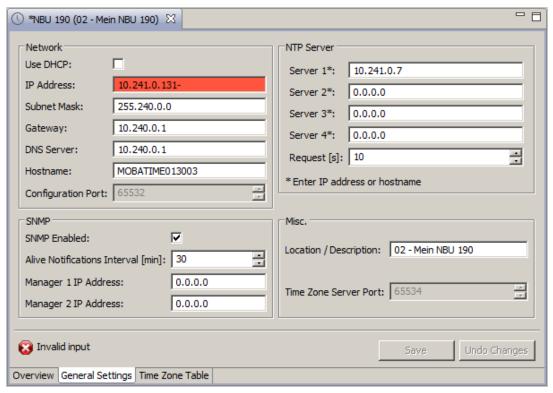
- user defined device management by means of logical device groups (see screenshot)
- devices and groups organization by drag and drop
- device status display (alarm / error) on device and group level
- support for group actions like sending the12:00 position command or a software update to multiple devices
- configuration can be saved for future use



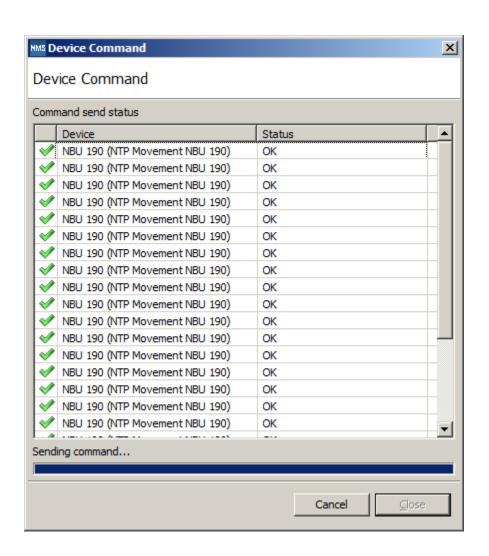




- auto scan for specific device types
 (e.g. scan for NBU 190 movements)
- unicast or multicast scan
- pre-configured multicast groups
 (based on selected device types)
- possibility to show only new devices
- screenshots: multicast auto scan for ECO-DC, NBU 190, NCI and SEN 00 devices at the same time!



- there is a corresponding editor for each device type to make changes to all device settings like IP address, hostname, NTP server address, SNMP, time zone, etc.
- live data input validation (screenshot: wrong IP address input)
- configuration over unicast or multicast

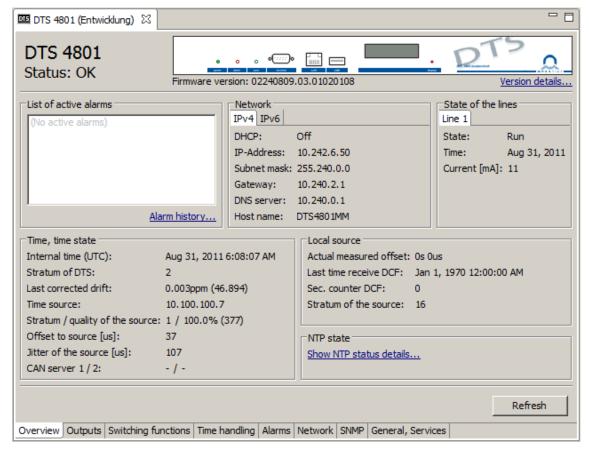


- send device commands like 12:00
 position, restart, reset to one or multiple devices
- update the device firmware
- update the device firmware of multiple devices at the same time!
- support for more than 1000 devices!

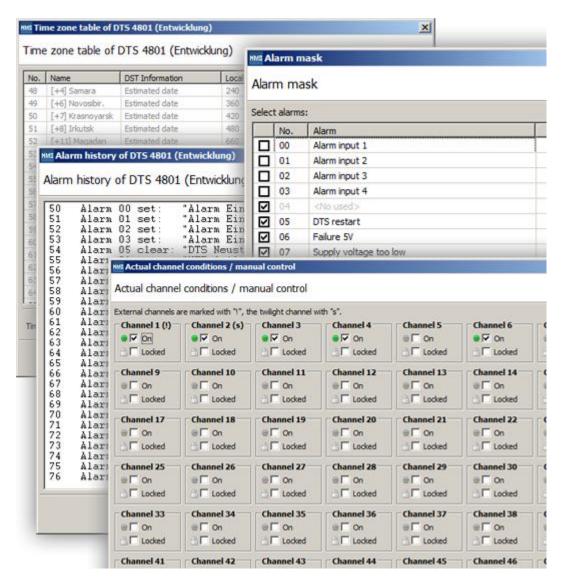


3. DTS Devices Support





- full configuration support for the following devices:
 - DTS 4801
 - DTS 4802
 - DTS 4138
 - DTS 4135
 - DTS 4136
- comfortable user interface for all configuration and maintenance operations
- secure SNMPv3 / SFTP communication
- backup / restore
- configuration transfer between devices



- detailed status and configuration display
- basic configuration of time source, time handling, outputs, alarms, SNMP, general and network settings
- alarm and alarm history display
- manual control of output channels
- comfortable time zone editor
- telegram and program file upload / download over SFTP
- backup and restore of the entire device configuration
- ... and much more!



4. MOBA-NMS – Web interface Comparison



- Web-based interfaces require a configuration of each device separately, by knowing and using each IP-address (in unicast mode).
- Compared to a web-based configuration on each device, MOBA-NMS has a range of advantages:
 - MOBA-NMS manages all devices centrally
 - The user doesn't need to know the device's IP address
 - All devices are configured the same way
 - Supervising (alarms / status) of all devices at the same time
 - Group devices to logical groups and much more...