



# DeMas Quick Overview Specifications

## Management System for RTU's

## ‘Demas All-in-One’: DeMaS (Device-Management-System):

### Hardware:

- DinBox RTU Q7 (Preferred)
- DinBox RTU M4 (Optional)
- 3rd Party hardware (Optional)

### API (Application Protocol Interface)

- Application Protocol Interface (API) with existing back office systems (Optional)

### Software Container based

- Integration of new functionalities, Applications, protocols, security (Optional)

### Functionality location

- RiTTec based
- Other possibilities to be discussed

### Online dashboard:

- overview of the different functions
  - It is a starting point with several filtering and selecting features. You can build custom lists for nearly every situation you can imagine.

### Asset management:

- Location Management: You know which device is installed at which location. It is easy to identify devices and it helps you with the rollout or a replacement of the device.
- Firmware management: DEMAS stores all different versions of Firmware of a device Type. You can choose, if you want to update now or later or if a group of devices is a testgroup or will not become an update.
- Provisioning Service: If you have a big amount of devices the provisioning service makes it easy to setup a config file to the devices or to upgrade some or all registered devices.
- Monitoring System: If you have a permanent link to DEMAS, you can monitor all your devices
- Config creator: Is a part of DEMAS to create or customize. It documents at the same time that you create the configuration.

### Log files:

- DeMaS gets all log events from the devices and stores them.

### Latest firmware:

- When the System is activated this always latest firmware. Updates are always part of ‘DeMaS All-in-One!’

### Specifications:

- Presence of routing and firewall functions for all physical interfaces, composing the monitoring unit. - All Network Interfaces

- Firmware storage system with automatic failover. – (dual boot) –
- Secure start system
- Signed and secure firmware.
- Routing and RTU features must be included in a single device.
- Presence of TLS, IPsec VPN and Wireguard functions.
- Presence of an IEC 60870-5-104 server in slave mode.
- Presence of a Modbus TCP/RTU server.
- Presence of MQTT function
- Possibilities to extend digital inputs or other types of interfaces with optional cards \_ one connector internal for expansion card, an optionally other interfaces via Modbus
- Possibility of FTP communication (pass through)
- NTP function, local or remote synchronization.
- Presence of an SSH server.
- Supports IPv4 and IPv6.
- Use of modular technology for future functionality extensions via software update
- Optional presence of a syslog server. via management server DeMaS –
- Built-in diagnostic function. – self-diagnostic
- Presence of a function sending message of internal statuses.
- Additional features.
  - Presence of a management system, for the following actions:
    - Global update of the firmware.
    - Remote configuration of the modem router.
    - Automatic commissioning.
    - Support for certificate management (PKI and SCEP) (Trust Anchor in Q7 hardware)