

# M!DGE2 Release Notes

## Firmware version 4.3.40.xxx

Release 4.3.40.101, patch 1202  
2019-08-07

### *New Functionalities*

#### **CLI improvements**

Time stamp of last reset of data counter will be displayed in cli status.

#### **Fix time stamp in NMEA stream**

Some GNSS chipsets are known to provide an invalid date in November 2019 due to the GPS-rollover issue. Time stamps in NMEA frames will be altered to fix this issue for all chipsets. This functionality can be disabled. Please contact our support if you need unmodified data.

### *Security Fixes*

### *Fixes*

#### **Allow remote network 0.0.0.0/0 for IPsec**

IPsec tunnel did not come up when all traffic was routed to a remote gateway with a remote network 0.0.0.0/0. This has been fixed.

#### **GUI improvements**

Some serial port changes were not applied.

#### **IP passthrough with u-blox Toby-L2 LTE modules**

IP passthrough functionality is now available.

#### **Sporadic power supply failure**

The M!DGE2 stops operation in rare situations and requires a manual power cycle due to a bug in the power management chipset. This problem has been fixed.

### *Known Issues*

#### **Protocol server restrictions**

The serial Protocol server is bound to the 1<sup>st</sup> LAN IP address, port 8882. It is not possible to re-configure it. Limitations are:

- Only one Protocol server can be configured even in units with more RS232 interfaces
- If Protocol server's mapping is based on WAN IP addresses, masquerading and Destination NAT are required for correct functionality (i.e. incoming data via WAN on UDP port 8882 must be forwarded to local M!DGE2' 1<sup>st</sup> LAN IP address). If using VPN tunnels, mapping should be configured to these LAN IP addresses.

#### **TCP cannot be established between M!DGE2 units while using IPsec**

In some rare situations and very specific configurations, TCP communication cannot be established between M!DGE2 units while using IPsec. It can happen that IPsec blocks TCP establishment of M!DGE2 to M!DGE2 connection. The end-to-end devices' TCP communication is not affected.

# Release 4.3.40.100, patch 1188

## 2019-06-28

### ***New Functionalities***

#### **L2TPv3 support**

L2TPv3 tunnels can be configured and bridged to local interfaces.

#### **Update of 3rd party software packages**

Linux Kernel was updated to LTS release 4.19

curl was updated to version 7.64.0

OpenSSL was updated to 1.0.2r

OpenVPN was updated to 2.4.6

Busybox was updated to 1.28.4

#### **Allow multiple VRRP instances**

You can now setup up to 4 instances of VRRP for different networks.

#### **Improved voice call quality**

On M!DGE2, the voice quality was improved by better software sound processing.

### ***Security Fixes***

#### ***Fixes***

##### **Windows NTP Server**

The NTP client had some problems while receiving NTP data from a Windows NTP server. This has been fixed.

##### **Improved VPN performance for M!DGE2**

Improved transfer performance with IPsec and OpenVPN for M!DGE2. Scheduling in the software was improved to resolve the issue.

##### **Failure in configuration conversion**

Applying a configuration from FW release 3.8.40 and older could result in an invalid IPsec connection for certain settings. This was fixed.

##### **SNMP renaming of interface**

IF-MIB entries were not updated after an interface was renamed. This has been fixed.

##### **Toby-L2 transparent routing**

Transparent routing was not possible with an ublox Toby-L2 modem. This has been fixed in the router SW, but also requires a modem firmware update. For detailed information about supported firmware for the different Toby-L2 modems, please contact our support.

##### **Initial Setup**

After the first initial login, the external USB port was not disabled by default. This has been fixed. If you did the initial setup of your device with software release 4.1.40.105 to 4.2.40.104, you should review if the setup of the USB port is correct. Disabling the port explicitly via command line interface or web interface is not affected.

### **SIM handling improved**

Due to timing issues, it could happen that two modules were reported as connected to the same SIM card. In this case, the connection was not established after configuration until a reboot was performed. This has been fixed. It could only happen if the device is configured via web interface. Configuration updates via configuration file or on SW update were not affected.

### **Ethernet link detection failed on M!DGE2**

With some Ethernet switches, there were situations where the link detection on M!DGE2 failed. This was fixed by tuning the settings of the internal Ethernet chip-set of the M!DGE2.

### **NTP server reported wrong stratum**

If the device does not have any reliable time source like an external NTP server or GNSS after boot, the NTP server reported a local stratum of 15 which is rejected by most NTP clients as invalid, but nevertheless not correct. An NTP server which is not synchronized should report 0 instead. This was fixed.

### **SNMP could not be used with DES and AES**

Setting up SNMP with DES and AES failed due to a missing dependency for OpenSSL in SNMP server. This was fixed.

## ***Known Issues***

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