

M!DGE Release Notes

Firmware version 4.3.40.xxx

Release 4.3.40.104
2019-11-02

IMPORTANT: Protocol server functionality is NOT included in this firmware

The serial Protocol server, Terminal servers and Modbus TCP features (compatible with RipEX radios) are not included in this firmware version! Please use the latest **4.2.40.104** firmware if you utilize Protocol server functionality.

New Functionalities

SDK improvements

New function `usleep()` provides sub second sleep intervals.
New API function to `nb_syslog_p()` for logging to different log levels.

SNMP service improvements

System temperature is now provided on SNMP poll. The OID is 1.3.6.1.4.1.33555.10.40.50.0.

Added support for certificate chains for OpenVPN export mode configuration

It is possible now to install certificate chains for OpenVPN using the expert mode configuration process.

Netflow interface supervision for Ethernet and WWAN interfaces

Netflow is now available for device types like Ethernet and WWAN as well.

Key-parameter support for GRE tunnels

GRE tunnels now support the Key-parameter which is used to separate different GRE tunnels between two end-points.

CLI improvements

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

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.

Fixes

Watchdog on failing SDK script did not work

A change in the watchdog API was not properly handled by the SDK scripting engine. Resulting in watchdog to fail to restart the System on error. This was fixed.

Problems on switch-over between WAN and WWAN

Under rare conditions, the switch over between WAN and WWAN did not work as expected.

GUI improvements

The GUI failed to set some special characters like '&'.

If VLAN is configured on bridge devices, the bridge interfaces showed up several times in the web GUI. This was fixed.

Due to a mistake in the input sanity check, it was not possible to change some user options without changing the user's password. This was fixed.

For actions which require the current password which is normally stored only as salted hash, it is still required to provide the password, but this (new) password may be the same as the old one.

Due to a failure in string escaping functionality, some AT commands failed. This was fixed.

Fixed typo

IPsec tunnels failed to start

Due to timing issues on setups with several IPsec tunnels, some of these sometimes failed to start. The start procedure was changed to prevent this failure.

Old configuration files failed to apply

Some very old configuration files failed to apply with error message 'Unable to create backup'. This was fixed.

Bridge interface lost on software update

Software bridge interfaces (like BR1, BR2) might get lost on SW-Update and needed to be reconfigured after the update was finished. This was fixed and the bridge interfaces are preserved on software update.

Storage date of last "Factory Default Config" is not updated on consecutive storage events

If the function to store the current configuration as factory default is called several times, the timestamp of the latest store event is not updated. This was fixed.

SDK improvements

nb_dio_count failed to remove obsolete data resulting in wrong data. This was fixed.

4G-only WWAN connection failed to connect

Under certain conditions, LTE modules failed to connect if 4G-only was selected even though LTE network was available. That was fixed.

Unstable WWAN connection with LTE-First setting

With LTE-First option, some LTE modules failed to establish connection under poor LTE conditions. This was fixed.

The LTE module could stay in 2G or 3G even though better service type is available

This has been fixed.

Connection tracking for FTP service missing

The connection tracking for FTP was not configured correctly. This was fixed.

Windows NTP Server

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

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.

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.

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.

Ignition Sense missing

The ignition sense feature was missing after an update to version 4.3.40.x. This has been fixed in .104 version.

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.