

# **WESTERMO**

## **DRS Software Release Notes Merlin4700/GW6650V Series**

**Release DRS-25.04.16.000**

Hardware Models	GW6650; Merlin4700; Merlin4750 Series
Revision	1.00.08
Approval status	Approved
Date	05 September 2024
Brief description	Details the release of system software DRS-25.04.16.000 for GW6650; Merlin4700 and Merlin4750 Series

## Contents

<b>1</b>	<b>Revision history</b>	<b>3</b>
<b>2</b>	<b>Firmware release statement</b>	<b>3</b>
2.1	Firmware information	3
2.2	Hardware platforms	3
<b>3</b>	<b>Mobile module support</b>	<b>4</b>
3.1	5G modules	4
3.2	LTE modules	4
<b>4</b>	<b>Security fixes</b>	<b>4</b>
<b>5</b>	<b>Security vulnerabilities</b>	<b>5</b>
<b>6</b>	<b>New features</b>	<b>5</b>
<b>7</b>	<b>Deprecated features</b>	<b>6</b>
<b>8</b>	<b>Known issues</b>	<b>6</b>
<b>9</b>	<b>Problems resolved</b>	<b>6</b>
<b>10</b>	<b>Appendix 1: New features history</b>	<b>8</b>
10.1	25.04.13.000	8
10.2	25.03.43.021	13
10.3	25.03.43.007	13
10.4	25.03.33.004	14
10.5	25.03.23.002	14
10.6	25.03.23.000	15
10.7	25.03.05.000	15
<b>11</b>	<b>Appendix 2: Problems resolved history</b>	<b>17</b>
11.1	25.04.13.000	17
11.2	25.03.43.021	21
11.3	25.03.43.007	22
11.4	25.03.33.004	24
11.5	25.03.23.002	25
11.6	25.03.23.000	25
11.7	25.03.05.000	26

## 1 Revision history

Date	Revision	Description
21 October 2022	1.00.00	Release notes for DRS-25.03.01.000
25 November 2022	1.00.01	Release notes for DRS-25.03.05.000
23 March 2023	1.00.02	Release notes for DRS-25.03.23.000
27 March 2023	1.00.03	Release notes for DRS-25.03.23.002
11 May 2023	1.00.04	Release notes for DRS-25.03.33.004
25 September 2023	1.00.05	Release notes for DRS-25.03.43.007
26 April 2024	1.00.06	Release notes for DRS-25.03.43.021
12 August 2024	1.00.07	Release notes for DRS-25.04.13.000
05 September 2024	1.00.08	Release notes for DRS-25.04.16.000

## 2 Firmware release statement

DRS-25.04.16.000 has formally passed internal acceptance and regression testing and is available for general release on hardware platforms as stated below.

### 2.1 Firmware information

Filename	Size (bytes)	Build Date	Checksum (md5)
DRS-25.04.16.000.k02.image	15,634,432	05/09/2024	cc48cba1f34aa5454445b381f322052c

### 2.2 Hardware platforms

Hardware model	Details
GW6650V	VDSL2/ADSL2+, Dual SIM LTE/LTE M, 5xGigE Ethernet interface, TPM and secure boot. Optional second LTE, WiFi
Merlin4700	Industrial VDSL2/ADSL2+, Dual SIM LTE/LTE-M, 4xGigE Ethernet interface, 2xSerial, 6xDI, 2xDO, TPM and secure boot
Merlin4750	Industrial VDSL2/ADSL2+, Dual SIM 5G, 4xGigE Ethernet interface, 2xSerial, 6xDI, 2xDO, TPM and secure boot

## 3 Mobile module support

### 3.1 5G modules

Firmware	Vendor	Module	3G	LTE	5G
25.03.43.021	Quectel	RM520N-GL	1,2,4,5,8,19	LTE-FDD: 1,2,3,4,5,7,8,12, 13,14,18,19,20,25,26, 28,29,30,32, 66,71  LTE-TDD: 34,38,39,40,41,42,43, 48	1,2,3,5,7,8,12,13,14,18, 20,25,26,28,29,30,38,40 ,41,48,66,70,71,75,76, 77, 78,79

### 3.2 LTE modules

Firmware	Vendor	Module	Cat	2G	3G	LTE
25.03.43.021	SIMCOM	WP7609G-H	4	850/900/ 1800/1900	1,2,4,5 ,6,8,19	LTE-FDD: 1,2,3,4,5,7,8,12,13,18,19,20, 25,26,28,66  LTE-TDD: 34,38,39,40,41
25.03.01.000	Quectel	EG25G	4	-	1,2,4,5 ,6,8, 19	1,2,3,4,5,7,8,12,13,18,19,20, 26,28,38,39,40,41
	SIMCOM	SIM7070E	M	850/900/ 1800/1900	-	1,2,3,4,5,8,12,13,14,18,19,20 ,25,26,27,28,31,66,72,85

## 4 Security fixes

Firmware	Module	Description	Severity	Mantis
25.04.16.000	dnsmasq	Updated to version 2.90 Fixes CVE-2023-28450 and CVE-2022-0934	Medium	7796
	dropbear	Updated to version 2024.85	Medium	7560
	frr	Fix CVE-2024-44070. FRRouting (FRR) does not check the actual remaining stream length before taking the TLV value.	High	7858
	password	New HMAC password hashing algorithm which uses the HMAC functionality in the TPM as a means of hashing passwords (IEC62443-4-2)	Low	7155
25.04.13.000	dropbear	Updated to 2022.83	Medium	6403 4976
	PPP	Updated to version 2.5.0	Low	4179

	System	Delete sensitive information from RAM and generate syslog message after use by luci, uhttpd, PAM, openVPN and strongswan (IEC62443-4-2)	-	7164 7166 7167
	System	Perform image digital signature verification in virtual memory prior to loading to flash when using to Web UI and Activator	Low	6721
	uhttpd	Support TLS v1.3 (IEC62443-4-2)	-	6854
25.03.43.007	console	Automatically log out console sessions after 30 mins if inactivity	Low	6884
25.03.23.000	telnetd	Remove telnetd support	Medium	
	password	Resetting password via web UI now requires input of current password	Low	5261
	SSH	Added grace period after console login failure to disrupt brute force attacks	Medium	5853

## 5 Security vulnerabilities

Module	Short Description	Severity	Mantis
net-snmpd	requires update from v5.7.3 to v5.9.4 to fix known vulnerabilities: CVE-2022-44793; CVE-2020-15861; CVE-2020-15862; CVE-2019-20892; CVE-2015-8100; CVE-2018-18065; CVE-2018-18066; CVE-2014-2285	Medium	7306

## 6 New features

Mobile				
	Support LTE PSM mode for SIMCom7070E mobile module			
LTE power saving mode	<u>Package</u>	<u>Section</u>	<u>Options</u>	7841
	mobile	mobile	sim1_enable_psm; sim2_enable_psm	
System				
TPM hashed password	Support new HMAC hashing algorithm for hardware with a TPM. This allows the user to use the HMAC functionality in the TPM as a means of hashing passwords. This is opposed to existing md5 or sha512 hashes and prevents a malicious actor from decrypting as the hashes now require the TPM hardware to be calculated			7155
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	system	system	password_hash_algo `hmac`	

## 7 Deprecated features

Firmware	Package	Description	Mantis
25.04.13.000	mobile	Deprecated PPP mode for Quectel and Sierra Wireless modules	7337 7517
		Deprecated Quectel EC20 mobile module support	7337
	strongswan	<code>strongswan.connection.authby</code> deprecated. Now supported by new options <code>localauth</code> ; <code>localauth2</code> ; <code>remoteauth</code> ; <code>remoteauth2</code>	6294
	X25	Deprecated <code>x25d</code> , <code>x25ipd</code> and <code>x25val</code> packages	7467

## 8 Known issues

Module	Short Description	Mantis
DSL	Restart of DSL interface not supported using <code>/etc/init.d/dsl restart</code> on GW6650V and Merlin4700 series	
Firewall	Firewall zone with name longer than 12 characters breaks NAT	7791
OSPF	When the remote connection (from a remote OSPF peer) is dropped, OSPF crashes intermittently.	5677
Strongswan	Strongswan memory footprint increases slowly with tunnel restart	5866
Syslog	No web UI support for syslog filter rules	3705
Web	Web intermittently failing to load when WeConnect is active	7808
Web/IPsec	Unable to configure <code>strongswan.connection.disable_mobike</code> , <code>strongswan.connection.mobike_send_additional_self</code> or <code>strongswan.connection.disable_natt</code> via web UI	5437
Web/Management Users	Unable to configure management users via web UI	5503

## 9 Problems resolved

Module	Short Description	Mantis
Data Usage	Fix mobile phy detection on data usage start using faster processors	7865
Ethernet	Fix Ethernet ports intermittently reflecting incorrect state when bridging	7795
Mobile	Fix band selection for SIMCom7070E module	7833
	Fix SIMCom7070E module establishing data connection	7821
	Fixes to ensure APN information is set properly for Sierra Wireless radio modules	7777 7797
	Fixes to ensure the manual network operator selection is executed in the right order	7797

	Log a warning that GNSS is not supported for SIMCom7070E mobile module	7822
Monitor	Fix mobile phy detection on monitor start using faster processors	7863 7864
Multiwan	Fix crash caused by incorrect mobile phy detection on start up using faster processors	7835
	Produce warning for interfaces that do not exist	7857
System	Replace invalid spaces in hostnames with '-' at run time	7829
TPM	Fix error message when <code>tpm-cli flush</code> command is executed twice in a row	6010
Web	Prevent capitalisation of configuration section names	7856

## 10 Appendix 1: New features history

### 10.125.04.13.000

AT Command Service			
	New router application that acts as a PSTN modem emulator/AT command interpreter. It converts PSTN data calls from asynchronous serial to TCP/IP.		
AT Command Service	Package	Section	Options
	crsd	main route translate	see user manual
Console			
	Support new option for disabling the console port		
Console disable	Package	Section	Options
	system	failsafe	console
			7802
Management Users			
	Support new group configuration which contains a list of <code>allowed_pages</code> . A user can be assigned to multiple groups. This allows a user to be able to visit pages from their own <code>allowed_pages</code> as well as from any assigned groups		
User groups	Package	Section	Options
	management_user	user_group	groups enabled; allowed_pages
			7158
Mobile			
	Support space separated 5G band selection.		
5G band selection	Package	Section	Options
	mobile	mobile	sim1_5g_sa_bands; sim1_5g_nsa_bands; sim2_5g_sa_bands; sim2_5g_nsa_bands
	Support new option to enter Airplane Mode during the interface back off period		
Airplane mode in backoff	Package	Section	Options
	network	interface	airplane_mode_backoff
			7032
	Improvements to SMS queue processing and support new options for better control how SMS messages are handled		
SMS security	Package	Section	Options
	mobile	mobile	sms_read_interval; sms_check_time; sms_past_margin; sms_future_margin
			3976



SMS whitelisting	Support whitelisting commands allowed to be executable by SMS			6931
	Package	Section	Options	
	mobile	caller	allowed_commands	
Watchdog timeout behaviour	Support advanced configurable action [ <code>log reset reboot</code> ] to take when a watchdog timeout occurs for a mobile module. Currently only supported for QMI modules			5719
	Package	Section	Options	
	mobile	main	netdev_wd_action	
OpenVPN				
TPM support	Support OpenVPN keys in TPM. The existing key option should be configured to the TPM label for the OpenVPN key			7126
	Package	Section	Options	
	openvpn	openvpn	keytype; key '<TPM-label>'	
Password Management				
Multi Factor Authentication	SSH and web UI now support Multi Factor Authentication using Google authenticator			5339
	Package	Section	Options	7152
	dropbear	dropbear	multi_factor_auth	7154
	luci	main	multi_factor_auth	
Password lifetime	Support password lifetime configuration for management users. Does not apply to root password			7156
	Package	Section	Options	
	management_user	user	max_passwd_age	
Password regex	Support configuring password regex rules. Applies to root password and management users password			7194
	Package	Section	Options	
	system	main	password_regex	
Password reuse	Support limiting password re-use of the last 10 management user passwords. Does not apply to root password			
PPP				
Adaptive LCP Echo	When enabled LCP echo will only be sent if no traffic is received on the interface. This avoids the situation where PPP is terminated on a congested PPP link because LCP echos are not received in time			4179
	Package	Section	Options	
	network	interface	adaptive_keepalive	
RADIUS				
NAS-Identifier option	Support new configuration option for NAS-Identifier with support for <code>%serial</code> and <code>%hostname</code> option values			7347
	Package	Section	Options	
	system	pam_auth	radius_nasid	
Scada				

AI Scaler	Extended AI scaler support <code>iecd.port.ai_scaler</code> for DNP3 slave to Modbus master conversion. The analog inputs received from the RTU are divided by the scaler before conversion to SCADA protocol. Previously only DNP3 to IEC104 supported.			7278
	AI scaler now supports both divisor and multiplier			7506
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	iecd	port	ai_scaler_op	
Critical process support for IEC104	IECD now added to list of critical processes that are automatically restarted			7294
DNP3 group 40 analog output variation	Added support for DNP3 slave group 40 analog output variation			7548
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	iecd	port	dnp3s_g40_variation	
DNP3 relay type	Support new configuration option for specifying command point relay type			7512
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	iecd	cmdpoint	dnp3_relay_type	
IEC101RTR TCP Server Mode	Support TCP Server Mode for IEC101RTR IEC101 connection			6992
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	iecd101rtr	link101	listen_ip, listen_port	
IEC104 command point IOA	New configuration option for IEC104 master command point information object address			7579
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	iecd	cmdpoint	iec104m_cmd_ioa	
IEC104 to DNP3 double command conversion	New option values [4 5] added to <code>iecd.port.dnp3_app_output_mode</code> option that determine behaviour when an IEC104 command with S/E bit is received			7423
MQTT Azure DPS	Added support for MS Azure's IOT hub Device Provisioning Service (DPS)			7028
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	iecd	port	see user manual	
MQTT read specific data point	MQTT can now be configured to read specific data points			
Modbus bitmap	Support bitmap handling in Modbus master			7371 7473
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	iecd	point	mb_bitmask	
Modbus data formats	Extend supported data format values for MODBUS data points			6890
	<u>Package</u>	<u>Section</u>	<u>Options</u>	
	iecd	point	mb_data_fmt; modbus_data_fmt	
Modbus DI inversion	Support DI inversion for Modbus master			7507

Modbus dual data point handling	Support dual data and command point handling for IEC104 slave to Modbus master conversion. Two Modbus registers can now be converted into a single DPI			7475
	Package	Section	Options	
	iecd	port	modbus_dual_io; modbus_index2	
Modbus frame retransmit counter	Added configuration for MODBUS master frame retransmit count			
	Package	Section	Options	
	iecd	port	modbus_max_retries	
New VHMI payload types	Add support for sending publish messages via MQTT using different payload formats			
	Package	Section	Options	
	iecd	port	vhmi_mqtt_payload_fmt; vhmi_mqtt_client_name; vhmi_mqtt_site_name	
SCEP				
TPM support	SCEP now supports key pair management in TPM			7125
	Package	Section	Options	
	strongswan	scep_cert	use_tpm; key_label	
SNMP				
Multiwan state OID	Added ifMultiwanState to VA-UCI-MIB			6915
Sim detection OID	Added SimIn to VA-MODEM-MIB			6915
SSH				
Limit concurrent users	Support new option for limiting concurrent authenticated user sessions (Mantis: 7160)			7160
	Package	Section	Options	
	dropbear	dropbear	MaxConnections	
Strongswan				
IKEv2 Multiple subnet support	Support multiple subnets for ikev2			6026
	Package	Section	Options	
	strongswan	connection	localanextra; remotelanextra	
TPM support	Support strongswan keys in TPM. TPM keys are supported via the <code>token</code> secret type. In this case the value of the secret specifies the label of the key to use.			4460
	Package	Section	Options	
	strongswan	secret	secrettype 'token'; secret '<TPM-label>'	
XAuth EAP support	Added support for xauth-eap and eap-radius authentication methods			6294
	Package	Section	Options	
	strongswan	connection	localauth; localauth2; remoteauth; remoteauth2	
		radius_server	enabled; address; secret; auth_port; acct_port	
System				

Busybox	Enable support for <code>who</code> command	6788																				
Change Log	Change log now records active image number and version on reboot	7728																				
Merlin4700 with SFP	Added support for Merlin4700 with additional SFP/Ethernet port	7717																				
Port mirroring	Support software port mirroring. All ingress and egress traffic on an interface can be mirrored to an alternate interface	7696																				
	<table border="1"> <thead> <tr> <th>Package</th> <th>Section</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>network</td> <td>interface</td> <td>mirrorto</td> </tr> </tbody> </table>	Package	Section	Options	network	interface	mirrorto															
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network	interface	mirrorto																				
Syslog	New warning message generated to local and remote syslog when any entries stored locally are discarded due to log rotation (Mantis: 7162)	7162																				
<b>Terminal Server</b>																						
Show configuration CLI command	Added support for display of running terminal server configuration CLI command <code>cli: show config</code>	6893																				
<b>VA Events</b>																						
	VA Event System now supports <code>ieee8021x</code> event class and events																					
802.1x events	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Severity</th> <th>Event Template</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>IEEE8021xRestrictingIf</td> <td>notice</td> <td>IEEE8021x restricting on %<code>{p1}</code></td> </tr> <tr> <td>2</td> <td>IEEE8021xAllowingAllonIf</td> <td>notice</td> <td>IEEE8021x allowing all on %<code>{p1}</code></td> </tr> <tr> <td>3</td> <td>IEEE8021xAllowingMAConIf</td> <td>notice</td> <td>IEEE8021x allowing %<code>{p1}</code> on %<code>{p2}</code></td> </tr> <tr> <td>4</td> <td>IEEE8021xBlockingMAConIf</td> <td>notice</td> <td>IEEE8021x blocking %<code>{p1}</code> on %<code>{p2}</code></td> </tr> </tbody> </table>	Id	Name	Severity	Event Template	1	IEEE8021xRestrictingIf	notice	IEEE8021x restricting on % <code>{p1}</code>	2	IEEE8021xAllowingAllonIf	notice	IEEE8021x allowing all on % <code>{p1}</code>	3	IEEE8021xAllowingMAConIf	notice	IEEE8021x allowing % <code>{p1}</code> on % <code>{p2}</code>	4	IEEE8021xBlockingMAConIf	notice	IEEE8021x blocking % <code>{p1}</code> on % <code>{p2}</code>	6528
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4	IEEE8021xBlockingMAConIf	notice	IEEE8021x blocking % <code>{p1}</code> on % <code>{p2}</code>																			
<b>Web UI</b>																						
Disable web UI	Added new option to disable web UI	7068																				
	<table border="1"> <thead> <tr> <th>Package</th> <th>Section</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>uhttpd</td> <td>main</td> <td>webui_enabled</td> </tr> </tbody> </table>	Package	Section	Options	uhttpd	main	webui_enabled															
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Limit concurrent users	Support new option for limiting concurrent user sessions	7161																				
	<table border="1"> <thead> <tr> <th>Package</th> <th>Section</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>luci</td> <td>sauth</td> <td>sessionlimit</td> </tr> </tbody> </table>	Package	Section	Options	luci	sauth	sessionlimit															
Package	Section	Options																				
luci	sauth	sessionlimit																				
LTE band display	Show supported LTE bands for enable/disable via Web UI. <code>web: services-&gt;mobile manager-&gt;lte</code>																					
Session control	Added utility to list and terminate web sessions (Mantis: 7159) <code>web: system-&gt;sessions</code> <code>cli: sessionctl</code>	7159																				
Web UI theme	New restructured web UI with navigation links on left side frame.																					
<b>WeConnect</b>																						
DCU VPN Concentrator Support	Added support for DCU VPN Concentrator to WeConnect																					

## 10.225.03.43.021

General							
Merlin4750	Support for Merlin4750 series						
Power over Ethernet							
PoE port stop/start	Power over an individual Ethernet port can now be stopped and started via the PoE status page on the web UI (Mantis: 6827) web: status->PoE						
Scada							
DNP3 Analog Set point command variation	Added new option for DNP3 Analog Set point command variation <table border="1"> <thead> <tr> <th>Package</th> <th>Section</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>iecd</td> <td>cmdpoint</td> <td>dnp3_cmd_variation (def: 0)</td> </tr> </tbody> </table>	Package	Section	Options	iecd	cmdpoint	dnp3_cmd_variation (def: 0)
Package	Section	Options					
iecd	cmdpoint	dnp3_cmd_variation (def: 0)					
Update IEC104 master on DNP3 static variation change	Added new feature to transmit a spontaneous update to IEC104 master on DNP3 static variation value change <table border="1"> <thead> <tr> <th>Package</th> <th>Section</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>iecd</td> <td>port</td> <td>dnp3_tx_spont_on_static_change (def: 0)</td> </tr> </tbody> </table>	Package	Section	Options	iecd	port	dnp3_tx_spont_on_static_change (def: 0)
Package	Section	Options					
iecd	port	dnp3_tx_spont_on_static_change (def: 0)					

## 10.325.03.43.007

Certificates	
Check both TPM and flash for certificate key	If the key cannot be found in the location specified in the configuration file, the router will automatically check an alternate location using the following methodology (Mantis: 6820). <ul style="list-style-type: none"> <li>When configured for <b>PEM</b> key and key cannot be found at the configured location, the router will try to use a TPM key with name corresponding to base file name (/etc/uhttpd.key -&gt; "uhttpd").</li> <li>When configured for <b>TPM</b> key and key cannot be found in the TPM, the router will try to use file "/etc/&lt;tpm label&gt;.key"</li> </ul>
GPS	
GPS MIB support	Added support for <code>VA-GNSS-MIB</code> for retrieval of GPS values
Mobile	
FOTA support for Unitac modules	Support FOTA upgrade for Unitac modules
Neighbour cell information	Added display of neighbouring cell information. Currently only supported on Unitac ML620/660 and Quectel EC200x series cli: vam -n
Multiwan	

Multiwan upper retry limit for roaming interfaces	For 3G roaming connections, and connections with <code>retry_on_first_fail</code> enabled, to avoid getting stuck on one SIM, a new Multiwan configuration parameter defines the maximum number of seconds to stay with an interface after its first failure before proceeding. (Mantis: 6975)  cli: <code>multiwan.interface.retry_connection_max_sec</code> (def: <code>multiwan.interface.ifup_timeout_sec</code> )						
<b>Network</b>							
Dummy interface support	Added support for dummy interfaces. Dummy interfaces are real kernel interfaces (unlike alias interfaces) and support all the configuration options of a static interface. Dummy interfaces are useful in combination with VRFs as they can be isolated from general routing.						
Ignore carrier state option	Support new option for static protocol interfaces to ignore carrier state changes. This allows interfaces to stay permanently up even when physical connection is not present (Mantis: 6739)						
	<table border="1"> <thead> <tr> <th>Package</th> <th>Section</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>network</td> <td>interface</td> <td><code>ignore_carrier_state</code> (def: no)</td> </tr> </tbody> </table>	Package	Section	Options	network	interface	<code>ignore_carrier_state</code> (def: no)
Package	Section	Options					
network	interface	<code>ignore_carrier_state</code> (def: no)					
<b>SCADA</b>							
MODBUS to Remote IO protocol conversion	Added support for MODBUS to Remote IO (ioservd) protocol conversions (Mantis: 6886)						
	VRF support for IECD TCP based protocols (Mantis: 6784)						
	<table border="1"> <thead> <tr> <th>Package</th> <th>Section</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>iecd</td> <td>port</td> <td><code>dnp3_vrf</code>; <code>dnp3s_vrf</code>; <code>iecd61850_vrf</code>; <code>iecd61850mX_vrf</code>; <code>modbus_slave_vrf</code>; <code>modbus_vrf</code>; <code>modbus1_vrf</code>; <code>mqtt_vrf</code>; <code>iecd104m_vrf</code>; <code>iecd104m1_vrf</code>;</td> </tr> </tbody> </table>	Package	Section	Options	iecd	port	<code>dnp3_vrf</code> ; <code>dnp3s_vrf</code> ; <code>iecd61850_vrf</code> ; <code>iecd61850mX_vrf</code> ; <code>modbus_slave_vrf</code> ; <code>modbus_vrf</code> ; <code>modbus1_vrf</code> ; <code>mqtt_vrf</code> ; <code>iecd104m_vrf</code> ; <code>iecd104m1_vrf</code> ;
Package	Section	Options					
iecd	port	<code>dnp3_vrf</code> ; <code>dnp3s_vrf</code> ; <code>iecd61850_vrf</code> ; <code>iecd61850mX_vrf</code> ; <code>modbus_slave_vrf</code> ; <code>modbus_vrf</code> ; <code>modbus1_vrf</code> ; <code>mqtt_vrf</code> ; <code>iecd104m_vrf</code> ; <code>iecd104m1_vrf</code> ;					
IECD VRF support							
<b>TPM</b>							
List TPM keys	Support new diagnostic command to list TPM keys  cli: <code>tpm-cli listkeys</code>						

## 10.425.03.33.004

<b>SCADA</b>							
Serial to UDP multi-point mode	Added support for multiple UDP peers on serial port. Data received on a serial port is transmitted to all peers; data received from any peer is transmitted on the serial port. Up to 8 UDP peers supported (Mantis: 6723)						
	<table border="1"> <thead> <tr> <th>Package</th> <th>Section</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>tservd</td> <td>port</td> <td><code>udpMultiPointOn</code> (def: no); <code>remote_ipX</code>; <code>udpRemotePortX</code></td> </tr> </tbody> </table>	Package	Section	Options	tservd	port	<code>udpMultiPointOn</code> (def: no); <code>remote_ipX</code> ; <code>udpRemotePortX</code>
Package	Section	Options					
tservd	port	<code>udpMultiPointOn</code> (def: no); <code>remote_ipX</code> ; <code>udpRemotePortX</code>					

## 10.525.03.23.002

No new features

## 10.625.03.23.000

General			
GW6650V external watchdog	Added support for external watchdog on GW6650V hardware (Board machtype MTGR5004)		
Roaming Manager			
Roaming Manager connection retry options	Added new connection retry options for Roaming Manager feature		
	Package	Section	Options
	network	interface	roaming_link_success_time (def: 600 secs); roaming_prefer_best_operator (def: no); roaming_scan_inheritance (def: no)
	multiwan	interface	retry_on_first_fail (def: no)
SCADA			
MODBUS TCP routes	Added support for MODBUS TCP routes (Mantis: 6643)		
	Package	Section	Options
	iecd	mbtcp_route	ifnum; devaddr, ipaddr
IECD104 Slave cyclic transmission	Support for cyclic transmission of data point messages		
	Package	Section	Options
	iecd	port	iec104_cyclic_on (def: 0)
Transparent mode offline queue	Added support for IEC104 slave offline queue when using transparent mode (no iec104s application layer)		
VRF	Support for binding IEC104 Slave socket to a VRF for isolation from general routing (Mantis: 4802)		
	Package	Section	Options
	iecd	port	iec104_ip1_vrf; iec104_ip2_vrf; iec104_ip3_vrf; iec104_ip4_vrf; iec104_ip5_vrf; iec104_ip6_vrf;
SIP			
SIP Server support	GW1151-FXS series can now also act as a SIP server (registrar). Note: Cannot be both SIP client and server		
	Package	Section	Options
	asterisk	main	bindaddress; bindport (def:5060)
System			
GNSS time synchronisation	Added support for time update via GNSS.		
	Note: Router requires GNSS capabilities and GNSS is enabled (Mantis: 6229)		
	Package	Section	Options
	system	timeserver	gnss_clock_source_enabled (def: no)

## 10.725.03.05.000

SCADA			
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Added TPM support for TLS based protocols in IEC and Terminal Server (IEC62351-9) (Mantis: 6552)

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	Package	Section	Options
TPM key storage support	iecd	port	iec104_tls_keytype; dnp3s_tls_keytype; modbus_slave_tls_keytype; mqtt_tls_keytype; dnp3_tls_keytype; modbus_tls_keytype; modbus1_tls_keytype; vhmi_mqtt_tls_keytype (def: 0 [0=PEM, 1=TPM])
	tserverd	port	tcp_tls_keytype (def: 0 [0=PEM, 1=TPM])

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## 11 Appendix 2: Problems resolved history

### 11.125.04.13.000

Module	Short Description	Mantis
802.1x	Fix 802.1x authentication	4290
		7464
	Fix 802.1x restart after <code>ifup</code> or cable unplug/plug	7530
Activator	Fix issue with multiple downloads from different services (active update, inventory, audit) running simultaneously	6321
Cwatch	Change Cwatch 'Interface does exist' message to NOTICE severity	7078
DHCP	Fix corrupted IA address when sending <code>OPTION_IA_N</code>	7424
Ethernet	Fix switch issue in GW6650V and Merlin4700 series that could result in intermittent connection for LAN devices	7590
Event System	Correctly handle double quotes in event target <code>cmd_template</code> value	5736
	Fix <code>va_event</code> syslog messages showing with no space between date and serial number	7513
GRE	Validate configured keys are unique	6769
HTTP Client	Include all CPUs in interrupt count value in <code>hdl</code> request field <code>irq_cnt</code>	6228
IECD	Added timestamp to <code>iecd show stats</code> diagnostics command	7339
	Enhancement to <code>iecd show config</code> command to show full config and not just main section	6894
	Fix error in converting clock value from IEC104 to UTS seconds	7022
	Fix excessive logging of DNP3 point updates	7521
	Fix serial interface name selectors for DNP3, Modbus and IEC101 to match physical port names	7180
	IEC104 to IEC101 health point now correctly sent to IEC104 master when IEC101 data link gets established	
	Improvements to IEC104 Setpoint to DNP3 Analog Output conversion	7015
IECD/ Modbus	Added bitmap handling for DI register type in Modbus master	7371
	Extend supported data format values for MODBUS data points	6890
	Fix event generation of unsolicited messages for Modbus master (serial) to DNP3 salve (TCP) when DNP3 Unsolicited Messages option is enabled in configuration	7335
		7526
	Fix issue with detection of serial interface names on Merlin4400 causing inconsistency with <code>iecd.port.modbus_serial_ifnum</code> option	7051
	Fix issue with IEC104 to Modbus AI scaling	7375
	Fix missing display of point value in Web UI for Modbus to MQTT	7189
	Fix support for conversion of Modbus slave to DNP3 master	7186
	Fixed MODBUS master command not timing out when RTU does not reply	
	Improvements to Modbus trace feature	7470
	7228	
	Minimum Modbus master polling time reduced from 500ms to 50ms	

IECD/DNP3	Added support for DNP3 analog output command g41 v1, v2, v3 and v4	
	Allow non-contiguous point indexes for DNP3 slave	7275
	Changed DNP3 master integrity poll request for class 0 static data poll	7392
	Fix converting DNP3 double precision float types to IEC104 floats	7533
	Fix DNP3 slave to IEC104 master protocol conversion	7579
	Fix incorrect float translation for group 40 var 3 and 4	7536
	Fix issue with converting DNP3 counter to IEC104 Integrated Total	7531
	Fix issue with DNP3 master in processing multi-fragment responses	7409
	Fix to provide output control feedback for DNP3 slave to MODBUS master	
	Fix transmission of spontaneous update to IEC104 master on DNP3 static variation value change	7410
	Fixed issues in DNP3 slave processing Binary Output and Analog Output commands	7548
	Implemented common DNP3 trace functions for slave and master side	7557
	Implemented several new features for IEC104 to DNP3 double command conversion	7423
	Improve DNP3 slave processing of Binary and Analog Commands; now allow all combinations of OpCode and TCC fields: LATCH_ON, LATCH_OFF, CLOSE, TRIP	
Increased size of DNP3 analog output block buffer to handle possible size of variation 4 – 64 bit double with single byte status		
IECD/MQTT	Fix data point map value update with Modbus master to MQTT conversion that generates events to MQTT subscribers	7465
	Increased supported character length for MQTT topic name, client id and client name	7173
IECD/VHMI	Fix issue related to DPS not starting for VHMI MQTT mode	7081
	Fix to report data point by VHMI only when value changes	
Mobile	Allow backslash '\' in username and password	7360
	Custom interface DNS now supported by Unitac modules	7192
	Ensure 5G networks are presented in operator search results	7219
	Fix 5G band selection for Quectel RM500Q module	7703
	Fix 5G NSA mode when service is set to 5G	7469
	Fix EID detection when APDU contains the tag and length	7522
	Fix operator scan	7693
	Fix Quectel registration status poller	7484
	Fix Unitac module FOTA upgrade on GW6650V and Merlin4700	7761
	Fix va_mobile failing to start if LTE band list is empty	7495
	Fixed network status constantly changing textual description (LTE/LTE-M) for used radio technology	7340
	Improve behaviour on network down for QMI connections to ensure reconnection after network outage	6325
	Improve distributed processing between cores to improve mobile 5G throughput on Merlin4750 series	7346

	LTE band locking configuration option <code>simX_lte_bands</code> now supports space separated bands	
	<code>sendsms</code> command now handles '+' at the beginning of international numbers	
	Split registration check and signal check on Merlin4750 to avoid overload on Quectel RM520 5G module which could result in module no longer responding to AT commands	7296
	Unitac modules now use <code>wwan0</code> interface rather than <code>eth0</code>	6899
Network	Add interface name and state for aliases to <code>network_status</code>	6716
	Fix dependant interfaces starting correctly on a network restart	7598
	Remove the minimum IPv6 fragment size check	7320 7324 7325 7326
OpenVPN	Allow <code>tun</code> or <code>tap</code> setting to create interfaces correctly.	7114
	Don't create new <code>linux</code> and <code>uci</code> interface on <code>openvpn</code> restart	7735
SCEP	Fix certificate expiration date calculation	7572
	SCEP ATQ time now synchronised with NTP	7083
Serial Broadcast Server	Fixed incorrect handling of TCP connection to Terminal Server	7231
SNMP	Fix UCI MIB <code>ifName</code> truncation	6981
	SNMP <code>engineID</code> now has fixed value that persists through reboot	7355 7358
System	Adds the ability to define a COMMENT environment variable when invoking any process for display by <code>ps</code> command	7020
	Fix minimum machtype firmware version checking	7717 7722 7714
	Fix misleading 'cannot find device' messages on network restart or <code>ifup</code>	7798
	Panic log now contains timestamp on crash events	5608
TACACS	Fix IPv6 support	6620
Terminal Server	Start serial device in RS232 mode to ensure terminal server initialises correctly	7009
VA Event System	Fix buffer overflow crash and add new internal warning event upon event buffer overflow	7176 7163
VRRP	Allow multiple groups in <code>vrrp status</code> command	7246
Web	ADSL configuration options no longer displayed when not supported on the hardware	6919
	Fix issue socket closing before HTTP data is complete which can result in UI not displaying correctly	6738 7752
	Fix reboot via web UI	7574
Web/ Interfaces	Ensure interface names are not automatically capitalized on the web UI	7678
	Remove PPTP protocol from available interface protocols	7354
Web/ Modbus	Fix display of IECD status page to show data points	7170

Web/ Multiwan	Support <code>multiwan.interface.state_transition_hook</code> configuration via the web UI	5433
Web/ OpenVPN	Implement dependency between <code>local</code> and <code>nobind</code> option to avoid OpenVPN failing to start when both enabled in config	6819
Web/ WeConnect	Added support for DCU VPN Concentrator configuration options	
Web/802.1x	802.1x web UI enhancements; add file upload for certs and keys; Only display bridge interfaces as available 802.1x supplicant interfaces	6528
Web/Dynamic DNS	Restart DDNS when settings are changed from web UI	6491
Web/Firewall	Fix add and edit of firewall zones and rules via web UI	7573
Web/Firewall	Support firewall rule <code>chain</code> option <code>web: security-&gt;firewall-&gt;traffic rules</code> <code>cli: firewall.rule.chain</code>	6898
Web/IECD	Change MODBUS serial interface presentation to a selection of detected serial interface names	
	Changed IEC104 TI option to list value instead of range	
	Fix delete button on web UI for IECD	7181
	Fix incorrect display of values in DNP3 slave to DNP3 master mode	7571
	Fixed web UI error in setting value range for IEC104 link number	6911
	IEC61850 client web UI enhancements	6600
	Improvements for IECD command points	7015 7019
	Improvements to MODBUS master configuration	
	Improvements to VHMI web configuration	7062
Web/IOSERV	Add support for upload of CID file	6897
Web/Mobile	Added display of LTE bands supported by SIMCom7070E	7565
	Fix 5G band selection	7469 7703
	Fix <code>va_mobile</code> restart on save & apply via web UI	7494
	Simplify mobile configuration using tabs via web UI	7707
Web/Mobile Manager	Show supported LTE bands for enable/disable via Web. <code>web: services-&gt;mobile manager-&gt;lte</code>	
Web/Realtime Graphs	Fix display of Realtime Graphs for mobile interfaces <code>web: status-&gt;Realtime Graphs</code>	7029
Web/Status	Only show hardware capable features	6966
	Only show multiwan status when enabled	6966
Web/System	Fix duplicate firewall package in configuration export	6904

	Support missing configuration options for SSH connection identity, verbose and VRF via web UI web: security->ssh->Identity cli: dropbear.dropbear.Identity web: security->ssh->Verbose cli: dropbear.dropbear.verbose web: security->ssh->VRF cli: dropbear.dropbear.VRF	6703
Web/VHMI	Fix broken upload of DPS private key file	
WeConnect	Add missing <code>ripd</code> and <code>openvpn</code> packages during provisioning	7687 7688
	Fix auto generated RIP configuration to ensure WeConnect correctly connects in a Ethernet bridge scenario and also reestablishes on disconnect.	7427 7539 7591
	Fix duplicate interface creation on connect	7547
	HTTPS support for DCU VPN Concentrator auto enrolment	6961
	Network status diagnostics now correctly show WeConnect interface IP address	7682
WiFi	Use serial number as base for WiFi interfaces	6256
xDSL	Fix <code>dsl</code> command output if DSLAM info is not available	6990
	Fix xDSL diagnostic 'Transfer Power' units to dBm from dB	7140
	Reduce unwanted DSL diagnostics messages filling up syslog	6908

## 11.225.03.43.021

Module	Short Description	Mantis
IECD	Fix clock sync time in IEC101 <code>force_clock_sync</code> to use local time instead of UTC	7208
	Fixed issue with IEC104 clock synchronization on conversion from CP56TIME2A to time format where memory was not being cleared correctly	
	Improvements for Analog Input integer to float conversion for IEC104 to DNP3	
Mobile	Added a module reboot after executing a factory reset of the Unitac module	
	Added an extra delay before issuing the AT command to switch the Unitac modules into ECM mode.	
	Ensure PDP context is deactivated before attempting to establish connection to avoid issue with connection attempt	7168
	Ensure Unitac module comes back in ECM/VLAN mode after factory reset	
	Fix detection of Quectel RM520N 5G mobile module running latest module firmware (RM520NGLAAR01A07M4G)	
	Fix Quectel RM520N restart after switching to QMI mode	7243
	Fix selection of bands above band 63 for SIMCom7600G-H	7356
	Record Unitac AUX antenna values regardless of MIMO state	

	Use Unitac-specific AT commands <code>AT!UBAND</code> , <code>AT!UTEMP</code> and <code>AT!UREBOOT</code> instead of GCT commands	
PoE	Fix missing event on powered device disconnect	7195
Strongswan	General improvements to memory usage	
Syslog	Fix syslog to use local time instead of UTC	7240
Web/Event System	Support configuration of Event System Digital Input change event input number and value via web UI web: services->va event system->event filters->Input Number cli: va_eventd.forwarding.input_number web: services->va event system->event filters->Input Value cli: va_eventd.forwarding.value	6839
Web/IECD	Added selector lists in place of fixed values where possible	
Web/OSPF	Support configuration of OSPF VRF via web UI web: network->ospf->global settings->VRF cli: ospfd.routing.vrf	6964
Web/PoE	Modifications to a PoE port configuration via the web UI no longer result in the other PoE ports being reset Web UI now correctly displays the number of PoE ports available	6827
Web/PoE Status	Web UI PoE Status enhancements - Fix values table values when device not connected; Add power info; Remove volts and current;	7166 7198 7199
Web/Realtime Graphs	Fix web UI real time graphs for QMI mobile connections web: status->Realtime Graphs	7029
WeConnect	Fix support for WeConnect	6793 7218

## 11.325.03.43.007

Module	Short Description	Mantis
Activator	Set model URL parameter to uimodel rather than machtype in updates to Activator	6761
BGP	Fix local VRF IP subnet not being advertised over WAN VRF using a BGP instance in the same VRF	6799
CLI	Improve error message for <code>uci show xy</code> when <code>xy</code> does not exist	
DSL	Disabled DSL restart using <code>/etc/init.d/dsl_control restart</code> for Merlin 6650V and Merlin4700 series as not supported	
	Fix generic MAC address assigned to VDSL interface on GW6650V and Merlin 4700 models	6892
	Reduce interface bounce when DSL line conditions change on poor line which could lead to interface not working	6958
	Report correct DSL analogue front end on GW6650V and Merlin4700 models	6802
Ethernet	Add <code>arp-scan</code> utility to DRS, ORK and SXL families for consistency with EDG family cli: arp-scan -l	5829

	Assign correct Ethernet port MAC addresses at startup on GW6650V and Merlin 4700 models	6913
	Support configuration of speed/duplex/autoneg on GW6650V and Merlin4700 models	6849
Firewall	Fix variable name clash in zone option presence test causing occasional restart issue	
	Simplify firewall forwarding within a bridge by avoiding calls to iptables	
Firmware	Prevent downgrade of router firmware to a version that is incompatible with the on board Sierra Wireless module	6878
IECD	Fix IEC104 operation when IEC104 local TCP port configured to '0'	6778
	Fix unwanted Health Point updates during normal master switchover for IEC104 RTU's	6463
	Fixed Modbus master initialisation error when loading TCP routes	6803
	IEC61850 Server: Add conversion from Modbus DI to DPS objects	
	IEC61850 Server: Added mapping of Modbus DI to integer types (INS, etc)	
	IEC61850 Server: Fix error with double init of data points for Modbus master	
	IEC61850 Server: Update points from Modbus RTU when point have not been changed before in addition to when value changed	
Mobile	Ensure ARP is not turned off for the Unitac Ethernet interface causes problems with the firmware upgrade tool.	
	Ensure NOARP flag is set on mobile Ethernet devices to avoid the ARP table from filling up with entries from the mobile connection	6676
	Ensure the SMS format is set correctly and interfaces restarted after Verizon provisioning.	
	Fix handling of 5G status when operating in an 5G SA network	
	Fix signal strength detection on older Unitac modules	6805
	Fix to ensure the Verizon attach APN is set correctly	
	Only restart interfaces when Network Initialisation was indicated in OMADM	
	Switch to <code>AT!GSTATUS</code> to retrieve signal information for Unitac modules	
OpenVPN	Fix privileges in OpenVPN to allow automatic restarts and fix open SSL errors in WeConnect	6793
SNMP	Correct <code>vaUciMib</code> implementation so that it matches the previous implementation	6903
	Fix SNMP configuration using TCP protocol	5930
	Fix GPS heading in MIB from degrees to micro degrees	6901
System	Fix issues when config files have execute permissions set and configuration audit is enabled	
	Ping internal watchdog every second to reduce unwanted resets on hardware without an external watchdog (machtype MTGR5002)	5930
VLAN	Fix VLAN bridging on Merlin and GW6650V models	6768
		6844
	Fix VLANs on WAN Ethernet port	6994
Web	Fix error message typo when SSL subsystem fails to initialise	

	Fix slow web SSL access when using keys from TPM	6734
	Print openssl errors when init, cert load or key load fail	
Web/ Interfaces	Avoid restarting all interfaces when adding new interface via web UI	6922 6923
Web/ Network	Fix broken <code>ifstatus</code> preventing web UI from operating correctly on GW6650V and Merlin4700 models	6921
Web/Cwatch	Fix display of bridge interface on Cwatch interface list	6824
Web/Firewall	Fix summary page showing rules with <code>option enabled '1'</code> in configuration file as disabled	6765
Web/HTTP Server	Support configuration certificate keys in TPM <code>web: services-&gt;http server-&gt;Certificate Key Format</code> <code>cli: uhttpd.uhttpd.keytype [PEM TPM]</code>	6756
Web/Mobile	Correct display of mobile interface type on web UI interface overview page	6787
Web/SCADA	Moved COSEM HDLC Bridge configuration from Services to SCADA tab	6781
Web/Status	Add download button for kernel and system log <code>web: status-&gt;System Log</code> <code>web: status-&gt;Kernel Log</code>	6794
Web/System	Restore javascript validation preventing underscores in system hostname	4555

## 11.425.03.33.004

Module	Short Description	Mantis
Cwatch	Fix cwatch using cached interface values rather than current values which caused cwatch to intermittently miss state changes	6784
DSL	Added support for low level DSL diagnostics <code>cli: dsl cmd</code>	
	Fix DSL crash that could occur when disconnecting and reconnecting DSL line	6682 6698
	Use VDSL firmware <code>v8.13.1.12.1.7</code> to fix operation on retransmission enabled lines	
Ethernet	Fix Ethernet port separation when removing port from bridge	6744 6749
IECD	Improve debugging of IEC61850 client when processing control commands	
Mobile	Rename 'phone number' to 'MSISDN' in mobile stats	
Network	Fix non-auto interfaces staying UP when VDSL link lost	
VRF	Fix DNAT behaviour for alias interface within VRF	6705
Web/ IPsec	Fix error on saving of configuration general section	6281
Web/ Network	Show colour codes for interface status in network overview	6536
Web/ OpenVPN	Automatically add and remove OpenVPN network interfaces	6296
Web/DSL	Show xDSL web menu option even when DSL line is not trained	6737



## 11.525.03.23.002

Module	Short Description	Mantis
DSL	Fix OAM loopback on VLAN interfaces	

## 11.625.03.23.000

Module	Short Description	Mantis
Activator	Fix Activator active update command returning incorrectly parsed IPv6 addresses	4727
BGP	Enable FRR SNMP support on GW6650V and Merlin4700 series	5758
CWATCH	Cwatch now ignores non-existing UCI network interfaces	6644
Failsafe	Failsafe mode now uses SSH instead of telnet access	6663
Firewall	Insert the <code>MARK</code> configuration rule before the <code>redirect</code> rules in the firewall table	5405
IECD	Fix issue in IEC104S to IEC101 in transparent mode, where 104 ASDU CA=65535	
	Fix issue processing IEC101 reset process response	
	Fix issue with DNP3 Gr3 (double bit) to IEC104 single point conversion	6671
	Fixed incorrect cleanup while closing during IEC104S TLS session establishment	6636
	Fixed issues with events not sent from IEC104 slave offline queue after connection is restored	6648
	Fixed issues with processing TI 105 Reset Process command	6640
	IEC104 slave: Fixed incorrect application of clock synchronization command	
	IEC104 to IEC101 conversion: fixed issue with converting QU field of commands from Master (104) to RTU (101)	
IEC104 to IEC104 conversion: Fix Double command Execute part of Select Execute sequence not passing on QU field of command	6656	
Mobile	Add MTU detection for Unitac modules	
	Ensure MTU does not exceed 1500 bytes on QMI links	6567
	Ensure Quectel EC25/EG25 modules use GSM format for SMS messages	
	Fix crash when <code>switch_sim</code> command is executed with no value	
	Fix interface name and type for Unitac modules on Merlin series	
	Fix performance issues on Sierra Wireless modules (introduced in 25.02.80.000)	6708
	Prevent crash when handling SIMs with invalid ICCID	6635
	Prevent crash when no SIM slot specified for SIM switch command	
va-mobile no longer automatically changes GNSS configuration as this is now done in manufacturing	6659	

Monitor	Fix Monitor Keepalive configuration changes taking effect immediately when changed from web UI or Activator	6650
NTP	Improvements to chrony operation for interface state changes	6631
PPP	Fix connection issue when two ppp links have similar UCI name	6654
Roaming Manager	Retry existing connection after routine disconnect when using Roaming Manager feature	
SNMP	Fix mibwalk error on .1.3.6.1.4.1.2078.3.1.2.4.2 when walking VA-MODEM-MIB::roamingOp* series of values	6618
SSH	Fix SSH login via private and public key.	6425
TACACS	Fix ipv6 address support	6620
VDSL	Enable support for OAM loopback Fix switching line_mode config between ADSL and VDSL	
Web	Sort web UI drop down headings	5909
Web/ Multiwan	Allow multiwan configuration via web UI when no multiwan config options exist in configuration file	
Web/HTTP Client	Support configuration of Http Client certificate key format web: services->http client->advanced->Certificate Key Format cli: httpclient->httpclient->KeyFormat	5792
Web/IECD	Changed default location of TLS certs to /etc/cert	6643
	Only show IEC104 TLS Common Name and IEC104 TLS Verify Depth options when IEC104 TLS Validate Peer Cert is enabled	6643
	Removed unused iec101_cmd_type_id option from web UI	6627
	Support SCL import file upload for IEC61850 master web: scada->iecd->master protocols->configure IEC61850->Select IEC61850M SCL File for Upload	
	Support upload capability for TLS cert, key and CRL files via web UI	6643
Web/IPsec	Web UI IPSEC configuration improvements	6281
Web/System	Fix firmware flashing error message	6286
Web/VRRP	Add support for configuration of VRRP Group Multicast Source IP web: network->vrrp->vrrp group configuration-> Multicast Source IP cli: vrrp.vrrp_group.mcst_src_ip	4057

## 11.725.03.05.000

Module	Short Description	Mantis
IECD	Added RTS-CTS flow control of the serial (when not using tservd)	6615
	Added TPM integration for TLS based protocols in IECD and Terminal Server (IEC62351-9)	6552
LED	Fix Merlin4700 series WAN port LED operation	6632
Mobile	Fix missing LTE band information on older Unitac firmware	6630
	Prevent +CGEV: NW DETACH trigger warnings in the logs	6616
	Remove MIMO check for Unitac modules	
Routing	Enable FRR vty_enabled option in user interface	6613

