

## Release Notes

### Digi TransPort Product Range

#### Version 5156 (Bootloader 6.67)

May 25, 2012

## **INTRODUCTION**

This is a production release of firmware for the Digi Transport product range.

The Digi TransPort WR21 is a full featured, cellular router offering the flexibility to scale from basic connectivity applications to enterprise class routing and security solutions. The WR21 is designed for Wide Area Network connectivity including 2.5G/3G/4G networks and beyond.

The Digi TransPort WR41 and WR44 are enterprise class cellular routers that provide secure high speed wireless connectivity to remote sites and devices for primary and backup wireless broadband network connectivity. The multifunction routers feature a flexible design, allowing users to choose from a variety of configurations including multiple serial ports (async/sync), GPS, GPS/CAN/I/O, Wi-Fi or telemetry modules, in addition to standard features like USB, serial and Ethernet interfaces.

The Digi TransPort WR44R is a rugged, all-in-one 3G/4G mobile communications solution with true enterprise class routing, security and firewall. Featuring a heavy-duty case aluminium enclosure, the Digi TransPort WR44R offers a flexible interface design with an optional integrated Wi-Fi access point (with multi SSID), USB, serial and 4-port Ethernet switch, as well as a variety of configuration options including multiple serial ports (async or sync), GPS, GPS/CAN/IO or I/O only modules.

The Digi TransPort DR64 is a DSL cellular router that provides high speed wireless connectivity to remote sites and devices for primary or backup wireless broadband wireless broadband network connectivity.

The Digi TransPort VC74 is an enterprise class VPN concentrator that provides secure end-to-end connectivity for large numbers of remote devices and networks. Fully compatible with all Digi VPN enabled cellular and wired routers; a centralized Digi TransPort VC7400 enables a fully integrated, single vendor solution with the highest level of reliability and security.

## **SUPPORTED PRODUCTS**

- Digi TransPort WR21
- Digi TransPort WR41
- Digi TransPort WR44
- Digi TransPort WR44R
- Digi TransPort DR64
- Digi TransPort VC7400

## SUPPORTED CELLULAR MODEMS

Within the TransPort product family, Digi has continued to add support for cellular modules as vendors make updates and improvements to support the latest chipsets and cellular technology. As new modules come on the market and older ones go obsolete, Digi is committed to supporting the products we have sold and continue to sell to our customers. The level of support that we are able to provide falls into one of the following categories:

### 1. FULL SUPPORT

These modules are shipping in Digi products. An essential part of our product testing is to make sure these modules are compatible and function properly. Operational and performance issues with these modules that are found by customers will be verified, scoped and scheduled to be fixed in an upcoming firmware release.

#### C-motech

CNE680	Revision IDs: 68SWE-14 [Jun 08 2009 20:53:19] CNU68PT [Nov 16 2009 05:10:52]
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#### Sierra Wireless

MC5727	Modem Revision: p2410701,51240 [Nov 08 2007] BOOT: SWI6800V2_PP.01.07.01 2007/11/08 APPL: SWI6800V2_PP.01.07.01 2007/11/08
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#### Ericsson

F3307	Revision ID: R2A11
F3507g	Revision ID: R1D06
F5521gw	Revision ID: R2A07
F5321gw	Revision ID: R1C08

#### Option Wireless

GTM380	Revision IDs: 2.8.0Hd (Date: Oct 11 2007, Time: 10:20:29) 2.9.1Hd (Date: Dec 17 2007, Time: 16:00:17) 2.12.0Hd (Date: May 27 2008, Time: 11:19:10)
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#### Qualcomm GOBI 2000

Sprint	Revision ID: D1055-STUTCSFD-3702 1 [May 25 2009 12:00:00]
Verizon	Revision ID: D1055-STUTDSVD-3574 1 [Apr 12 2009 21:00:00]
Generic HSPA	Revision ID: D1025-STUTABGD-3574 1 [Apr 07 2009 19:00:00]

#### Huawei

EM680	Generic UMTS: D3200-STUSUGN-1575 1 [Nov 22 2010 09:00:00] Verizon: D3600-STSUVDH-1576 1 [Nov 23 2010 16:00:00] Sprint: D3600-STUSUSH-1576 1 [Nov 23 2010 16:00:00]
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#### Cinterion

MC75i	Revision 01.100
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## **Fusion Wireless**

FW2763P

Revision: 8.5.16

## **2. PARTIAL SUPPORT**

These modules had shipped in Digi products in the past but are no longer actively supported by the module vendor. Firmware testing no longer includes these modules, however every attempt is made to maintain support as features and improvements are implemented. Issues with these modules that are found by customers will be verified, scoped and either scheduled to be fixed or a newer, supported module offered as an upgrade option.

### **Option Wireless**

GTM 378

Revision IDs:

2.4.2Hd (Date: Aug 24 2007, Time: 14:27:26)

2.5.7Hd (Date: Jan 11 2008, Time: 11:18:56)

2.5.10Hd (Date: Feb 04 2008, Time: 14:25:03)

2.5.13Hd (Date: Feb 18 2008, Time: 18:31:16)

2.5.23Hd (Date: Nov 03 2008, Time: 10:21:08)

GTM 382

Revision IDs:

1.4.6.0Hd (Date: Oct 1 2008, Time: 11:50:07)

1.8.0.0Hd (Date: Jan 14 2009, Time: 14:46:50)

1.9.1.0Hd (Date: Mar 26 2009, Time: 09:10:10)

2.9.4.13Hd (Date: Nov 23 2009, Time: 09:40:55)

### **Motorola**

G24-L

G24-EQ

### **Cinterion**

MC55i

TC63i

### **Sierra Wireless**

MC5725

p2005001,20224 [Sep 21 2006 15:43:22],, VID: PID:

MC8755

Revision IDs:

U1\_1\_9MCAP G:/WORKSPACES/FIRMWARE/U1\_1\_9MCAP/MSM6275/SRC  
2006/04/04 21:50:28

U1\_2\_44MCAP G:/WS/FW/U1\_2\_44MCAP/MSM6275/SRC 2006/09/27  
17:24:51

MC8780

MC8790

Revision ID:

K1\_0\_2\_8AP C:/WS/FW/K1\_0\_2\_8AP/MSM6290/SRC 2008/09/17

### **Novatel**

EU740

EU870D

### 3. LIMITED SUPPORT

These modules have never shipped in Digi TransPort products and have never been part of firmware testing and verification efforts. These modules may be similar to full/partially supported modules by the same vendor and may even have been informally tested and shown to work in Digi products. Operational and performance issues with these modules that are found by customers will be evaluated and scoped to be fixed on a business case basis.

#### Ericsson

F3607gw	Revision ID: R1G08
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#### Huawei

EM660	Revision ID: 11.102.11.06.000
EM770W	Revision ID: 11.128.03.00.00
EM820W	Revision ID: 11.810.09.05.00

### 4. NOT SUPPORTED

These modules have never shipped in Digi TransPort products and are known to be incompatible.

#### None

## SUPPORTED WIMAX MODULES

GCT / Quanta Microsystems, Inc.:

WM553

## HIGHLIGHTED PRODUCT CHANGES

Starting with the firmware version 5140, the changes described in this section are incorporated in these products. Please refer to the HISTORY section of these release notes to identify the specific revision in which these changes were introduced.

### 1. IDIGI MANAGER PRO SUPPORT

The iDigi Manager Pro allows the user to remotely configure and manage the Digi TransPort product via the iDigi service.

See [www.idigi.com](http://www.idigi.com) for more information on iDigi.

### 2. PYTHON SUPPORT FOR WR41/44 CARDS

The WR41/44 cards are now fully supported by the digihw Python module.

### 3. HOSTNAME SUPPORT IN FIREWALL RULES

Hostnames can now be used instead of an IP address in a Firewall rule.

#### 4. IDIGI OPT-IN SUPPORT

iDigi Opt-In is an iDigi auto-registration feature that will allow iDigi to learn the contact details of the TransPort device which allows for easier setup when using iDigi. It does this by getting the TransPort router to send a one-off SMS message to iDigi. This feature is enabled by default for new factory configured routers and can be disabled via the Remote Management > iDigi Web GUI page or the “`idigi 0 sms_optin off`” CLI command.

## ENHANCEMENTS

### 1. Enhancements to Radio PAD

Only “set 0:0” or “set 0:8” values are accepted. All other values (e.g. set 0:2) will cause the prevailing parameter 0 value to persist and it will NOT return an error so that communications can continue. Also a new PAD parameter “ignore\_set” was added to allow any “set ...” command to be ignored and not return an error.

### 2. Increase to number of slaves supported in Modbus

Support for extending the number of slaves supported when operating “act-as-slave” in Modbus. Also added Modbus broadcast support when in slave mode. There is a new parameter “modbus <x> bcasts\_in <on|off>” which when set to on will enable this support.

### 3. Increase to number of router that OpenVPN will accept

The number of route that we will accept from a remote OpenVPN device has been increased from 8 to 10.

### 4. Support for file append mode

Support for appending to files that already exist via Python has been added. Files can be opened with the ‘wa’ mode.

### 5. New modes added to MultiTx

MultiTx can now be configured to send a “Socket ID” string to the server when socket connects. There are two new parameters “send\_sockid” and “sockid”.

MultiTx can now buffer data until it matches the incoming serial data before allowing the data to be sent over the socket. There are three new parameters “fwd\_match”, “matchstring” and “strip\_match”. When the “strip\_match” parameter is set, MultiTx will strip off the matchstring from the data sent over the socket.

## BUG FIXES

1. Fix to VRRP to ensure the correct “Power-On” VRRP state with regard to the “link\_deact” setting stopping the VRRP state machine to progress when powering up with the Ethernet status down. Also a fix to prevent any queued packets being sent after an interface switches to Backup state.

2. Fix to iDigi Manager Pro support to ensure identical behaviour as through the Web GUI. Most notable was the IPsec default IPsec behaviour where because iDigi Manager Pro is case sensitive, it caused problems when viewing the configuration via the Web GUI.
3. Remove Exclusive mode from RealPort.
4. Fix for fast routing lookups which was broken in firmware release 5.140.
5. Fix to IPsec for when the router is the initiator and is using IKE main mode and an ID type of IPv4 address, the ID delivered to the responder was being encoded incorrectly.
6. Fix for configuring the USB disable feature via the Web GUI on the WR21.
7. Fixes to the VC7400 to help prevent watchdog reset when the VC7400 is heavily loaded as an IPsec concentrator.
8. Fix to the Event logcodes web page. Only one attachment list (usually the last one) was getting updated when the "Apply" button was clicked.
9. Change to the routing code so that if a route's nexthop (gateway) address is 0.0.0.0 we will use the IP gateway of the interface (or the IP address of the interface if the gateway is not configured). This is a workaround for a problem seen in BGP where a learned route wasn't being inserted into the routing table. In this case, the remote peer was available only via the default route, which seemed to be a factor in the route not being learned.
10. Fix to iDigi to prevent the router from disconnecting from the iDigi server when it receives an invalid control opcode. (Vantive 43717)

## **KNOWN ISSUES**

1. On the Digi TransPort DR64, the Export/Import feature on iDigi Manager Pro will not work.

## **DOCUMENTATION ERRATA**

None.

## **ADDITIONAL INFORMATION**

It is recommended that you perform a backup of your device's settings prior to upgrading your firmware. If you should need to revert back to a previous version of firmware, this will ensure that you will be able to restore your device to its previous settings in the event that some settings are not restored properly after downgrading the firmware.

To backup your device settings, follow this simple procedure:

1. Open the web user interface and navigate to the "Administration" section and select "Backup/Restore".
2. Select the parts of the devices' settings that you wish to backup.
3. Click the "Backup" button and select the location to where you want to save your backup file.

To restore:

1. Navigate to the same section within the web UI.
2. Click the "Browse" button to select the backup file you saved in the previous steps.
3. Click the "Restore" button to upload the configuration settings contained in your backup file.

## HISTORY

### 5154 (Bootloader 6.62) – April 20, 2012

#### ENHANCEMENTS

1. Added support for disabling the command interpreter on particular serial ports that are being used for other functionality. The new CLI command is "cmd <n> cmd\_processor <ON|OFF>". The default setting for this parameter is ON.
2. For platforms that support RS485 functionality, two new parameters, "Async Mode" (RS232/RS485) and "Duplex Mode" (full/half) have been added. If RS485 functionality is detected then these parameters will be available on the Network->Interfaces->Serial->Serial Port x->Advanced page.

#### BUG FIXES

1. Fix for IPsec where the wrong SAs were being removed at the point where the milliseconds uptime variable rolled over.
2. Fix for the VC7400 boot issue where the VC7400 could get into a state which would result in the unit rebooting several times before successfully booting.
3. Fix for Modbus so that in Slave mode, the "rawmode" settings are ignored. Also added a new parameter "slave\_to" which is used in the slave mode to specify the amount of time we wait for a response after relaying the Modbus request.
4. IPsec/firewall change for outbound packets that don't initially match an eroute but have address translation performed by the firewall after the firewall processes them, are sent back for another eroute lookup. This has been added to fix a problem where packets weren't being tunnelled as the eroute lookup was only performed before the firewall processing, and they didn't match any eroute at that point

5. Fix for NTP drift precision per minute setting where negative values were not allowed by the Web GUI (Vantive 43107).
6. Fix for iDigi where the CLI command "ati5" was not working correctly. (Vantive 43201)
7. Fix for iDigi Import function on the WR41 where it would fail with error message "Timeout sending message to device" (Vantive 43178)
8. Fix for Ping over Wi-Fi where duplicate Ping responses could be received and cause a crash when the Ping command has completed.
9. Fix to correct Ec/Io reporting with the GOBI 3000 module (Vantive 43385)

## **5152 (Bootloader 6.57) – April 6, 2012**

### **ENHANCEMENTS**

1. iDigi Opt-In is an iDigi auto-registration feature that will allow iDigi to learn the contact details of the TransPort device which allows for easier setup when using iDigi. It does this by getting the TransPort router to send a one-off SMS message to iDigi. This feature is enabled by default for new factory configured routers and can be disabled via the Remote Management > iDigi Web GUI page or the "idigi 0 sms\_optin off" CLI command.
2. CLI commands can now be run via the iDigi Manager Pro interface.
3. Added support to be able to configure the TCP port which can be used to access the Serial interfaces. The default port is 4000 + Serial interface number for Telnet connections and 4200 + Serial interface for SSL connections. If the default port is not being used, the configured port can be used for either Telnet or SSL connections if SSL is enabled.
4. When RADIUS authentication is used with Wi-Fi (WPA/WPA2 Enterprise), a RADIUS accounting message is also sent to the RADIUS server.
5. When using a GOBI module, the current channel is reported in the Mobile interface status.
6. The Wi-Fi analyser settings have been added to the Global Wi-Fi configuration page.
7. The Python heap size on the WR21 was increased to 10MB and is now the same as the WR41 and WR44.
8. The CDMA RSSI is now reported in the Mobile interface status page on iDigi.
9. The EDVO and CDMA Ec/Io and signal strengths can now be retrieved using the TransPort Monitor MIB.



10. On non-legacy platforms, the number of firewall rules that are supported has been increased from 400 to 500.
11. For Source MAC bridging, support for a wildcard ( '\*' ) has been added. This is enabled and configured by setting 'bridgemac x mac \*' to any entry in the bridgemac configuration table.
12. Realport did have a limitation of a maximum of 11 connections. It will now support connections as long as there is a socket available.

#### **BUG FIXES**

1. Increased Wi-Fi heap size from 100KB to 500KB due to problem when there is a large number of Wi-Fi Access Points in the vicinity.
2. Fix for SNMP Bulk Requests where the unit would reset when attempting to send the SNMP response with too much data. If more data is requested than can be returned (approx. 4KB), the unit will not send the SNMP response.
3. VRRP fix for the DR64 platform when configured in Port Isolate mode. VRRP packets received on a non-VRRP configured port were being delivered in error to a VRRP instance associated with a different Ethernet interface.
4. Fix to multicast routing where the first UDP fragment wouldn't get routed. Instead it was being delivered to the local UDP packet handler.
5. Fixes to RealPort to ensure that disconnecting from a Serial interface happens straight away and when using Windows DUN.
6. Fix to Python time functions to better support local and gm time functions. Now configured offset and DST status are accounted for when returning the time (Vantive 42327).
7. Fixes to iDigi and Web firmware update to check the main image and web filenames to ensure they match the platform (Vantive 42162).
8. Update to PPP negotiation, when initiating a connection, if the PPP has remote authentication turned off (r\_pap and r\_chap OFF), we will reject authentication requests from the remote peer. If r\_pap is ON, we will ACK requests to do PAP and NAK requests to do CHAP. If r\_chap is ON, we will NAK requests to do PAP and ACK requests to do CHAP. If PPP has local authentication turned on but none is negotiated (e.g. due to beign rejected by the peer), we will terminate the negotiation.
9. Added missing user access setting from SNMP User configuration Web GUI page.
10. Fixes to iDigi to prevent illegal XML characters from being downloaded to the iDigi server (Vantive 42404, 42680)

11. Fix for iDigi reconnect issue where the router could get into a state that it would fail to reconnect after disconnecting (Vantive 42518)
12. Fix for TACACS+ to check that the sequence number of the response from the server matches the expected value and also use the correct sequence number in session continue messages to the server.
13. Fix for iDigi Firmware Update feature to ensure that when enabled, the iDigi idle timer does not cause the router to disconnect from the iDigi server (Vantive 42678)
14. Fix for Wi-Fi hotspot problem where DNS mode would be used if hotspot was enabled whether or not it was configured for HTTP mode or DNS mode.
15. Fix for iDigi DNS cache status page where an error would occur if the DNS cache was empty. (Vantive 42921)
16. Fix to digihw Python module for the Telemetry1 card when invalid ports were mishandled. (Vantive 42629)
17. Fix for handling of Wi-Fi short slot time capability where the unit would always use a short slot time which could cause 802.11b devices which require long slot times to be unable to connect.
18. Fix to IPsec where SAs were being deleted over older ones at the point in time where the fast tick timer counter wrapped from a positive 32 bit value to a negative value (e.g. after ~298 hours).
19. Updates to Python so that it supports unbuffered outputs to stdout and also the "stderr2stdout" configuration is on by default. (Vantive 42948, 42998)
20. Fix for NHRP (tun mgrp mode) mode which had been broken.
21. Fixes for the iDigi Import feature (Vantive 43112)
22. Fix for the iDigi AutoCmd and Command Mapping pages where an invalid number of parameters would be displayed (Vantive 43111)
23. Fixes for Modbus slave mode (Vantive 43093)

## **5146 (Bootloader 6.55) – February 10, 2012**

### **ENHANCEMENTS**

1. There are now 3 ping contexts available which means that three 3 separate ping commands can run concurrently. Note that a command session may still only run one ping command at a time.
2. Added support to report the RF band information in the Mobile status for GOBI modules in UMTS mode.
3. Added support for the Python hashlib module which includes MD5, SHA1, SHA256 and SHA512 support.
4. It is now possible to configure the TTL for UDP packets in Python using the setsockopt function. Set the IP\_TTL option for unicast packets and IP\_MULTICAST\_TTL for multicast packets. The default multicast TTL is 1.  
To send multicast UDP packets from Python, switch the IGMP parameter to 'ON' on the outgoing interface and ensure there is a matching group membership present.
5. Added support for sending serial data to multiple (up to 5) TCP or UDP destinations. When enabled, the configured Serial port is opened and serial data from the port is sent to all configuration destinations. When using TCP, 'perm' mode is used, which means the TCP connection is initially opened but will disconnect if the socket becomes idle. When there is additional data to send, the socket is reopened. Data from all connected sockets is forwarded to the Serial port.
6. Added software counter support that sets the number of Ethernet interfaces in the unit.
7. Added support for sending RADIUS start/stop accounting messages when a Wi-Fi Access Point is configured with Enterprise mode (WPA/WPA2 with RADIUS). The accounting messages will be sent as per RADIUS client 1 configuration.
8. A hostname can now be used instead of an IP address in a Firewall rule.  
e.g. `pass out break end proto tcp from any to any port=80 -> to filtering.service.com inspect-state`

#### **BUG FIXES**

1. Fix to the serial port driver on the WR21 for receive FIFO thresholds. To turn off the FIFO, issue command `ATS98=1` on the desired port. For the setting to take effect you need to change the baud rate (`ATS31=x`) or save the setting (`AT&W`) and then reboot.
2. Fix to Wi-Fi isolation mode to allow packets (unicast or broadcast) to be bridged between Wi-Fi and Ethernet interfaces when isolation is enabled.
3. Fix to the serial port driver on the WR21 when reading the RTS input state which resulted in a lot of spurious RTS ON/OFF flow control events.

4. Fix for GRE tunnels where some tunnel IP addresses were not being added to the DR64 packet processor address table. This would occur when the software counter is used to increase the number of GRE tunnels above the default.
5. The GOBI carrier selection wizard no longer wipes the GSM APN when switching between CDMA and GSM modes.
6. Fix for File upload using iDigi where the unit would run out of buffers when uploading large files (Vantive 41503)
7. Added iDigi configuration support for WiMAX (Vantive 41752)
8. Added more type checking for iDigi parameters (Vantive 41416, 41514, 41852)
9. A Python thread can now only open one FLASH file for writing at a time. Any subsequent open requests for writing will fail.
10. VRRP change to increase the period where a unit will stay in the Backup state from 3 seconds to 6 seconds. This is to try and help avoid a case where interconnecting switches between VRRP units are getting confused because both units are in the Master state.
11. Fix for WAN LED with the GOBI module.
12. Fix for MAC address parameters (e.g. Ethernet MAC Filters, Wi-Fi MAC Filters) to ensure better parameter checking (Vantive 41502)
13. Fix to prevent message leak when using SNMP Informs.

## **5143 (Bootloader 6.48) – January 13, 2012**

### **ENHANCEMENTS**

1. Added support for %s in the SNMP Community configuration which gets translated to the Serial number.
2. Added support for auto-negotiation and duplex options for the WR21.
3. Added EC/IO support to the modemstat response for GOBI 3000 WCDMA mode.
4. Added new IP Passthrough parameter “lease” which allows the user to specify the DHCP lease time to use when in IP Passthrough mode. The default value is 180 seconds.
5. Added firmware update support for the Fusion CDMA modules.

6. Added support for DNS redirect for Wi-Fi hotspot mode so that DNS queries are intercepted and the IP address of the Wi-Fi device is returned to the requester so that the hotspot splash page is displayed.
7. SNTP now supports the same two parameters "inhibit\_int" and "inhibit\_add" as supported by NTP. When configured, SNTP will not attempt to update until the specified interface is connected.
8. Added new DHCP client parameter "idismac". When turned on, the MAC address of the Ethernet interface is used as the client ID. When off (default). The unit behaves as before where the ID is based upon the serial number and Ethernet interface number.

#### **BUG FIXES**

1. Fix to WR21 Ethernet so that it can operate at 10Mbps.
2. Fix for problem with the Dynamic DNS web page where the setting for the default interface was not working correctly.
3. Fix for the RCI descriptor for the "do\_command target="file\_system" which was giving an invalid response. (Vantive 40770)
4. Fix so that configuration changes made via iDigi are logged in the Event log (Vantive 40991)
5. Fix so that PPP statistics are correctly displayed via iDigi (Vantive 41017)
6. Fix for iDigi where an invalid XML response could be returned by the unit (Vantive 41272)
7. Fix to allow files that contain "priv" in their name but do not start with "priv" to be accessed via iDigi. (Vantive 41388)
8. Fix for the RCI MAC filtering configuration that would reject configuration of 12 characters (Vantive 41392)
9. Fix for the RCI vlan configuration so that invalid configuration is rejected (Vantive 41393)
10. Fix for the RCI Wi-Fi country configuration so that invalid configuration is rejected (Vantive 41395)
11. Fix for the RCI wifinode sharedkey setting where to a too large value could cause the unit to reboot or other settings to become corrupted (Vantive 41411)
12. Fix for the RCI definition of the modemcc asy\_add parameter (Vantive 41416)
13. Fix for the iDigi filesystem put\_file request (Vantives 40772 and 41468)

14. Fix for the RCI setting of the modemcc check\_reg parameter which was only accepting one of its three possible values (Vantive 41506)
15. Corrected RCI descriptors that were using type 'char'. They now have type 'uint32' (Vantive 41514)

## **5142 (Bootloader 6.45) – December 2, 2011**

### **ENHANCEMENTS**

1. Added support for the Telemetry2 card to the Python digihw module.
2. Added GPS SNR support to the at+mibs=gps command. This now reports the SNR for up to 8 satellites.
3. Added support for CDMA signal quality info (RSSI, EC/IO) for the Huawei EM680 module.
4. Support for Modbus TCP to Serial mode added.
5. The number of NAT entries supported on the WR21, WR41 and WR44 has been increased from 250 to 4000.
6. VRRP was updated to allow the VRRP priority to be adjusted according to the status of another VRRP instance.

### **BUG FIXES**

1. Fix for the WR41 firmware upgrade via Web GUI and iDigi for when there is not enough flash space. The main image is now overwritten directly rather than a temporary copy being created.
2. Fix for iDigi configuration handling which will reject a configuration request if the given string value is too long for the parameter.
3. Fix for file download via iDigi where it would hang if there wasn't enough flash space to store the file. The unit will now return a "Memory Error" if there is not enough flash space to store the file.
4. Modemcc parameters "psys" and "psys\_2" settings now work on Ericsson modules.
5. Fix for iDigi <attr> tags to report the correct type.
6. SNMP fix for a snmpwalk operation that failed with a non-incrementing OID.
7. SNMP fix for where the unit would report the wrong number of interfaces if SYNC option was disabled.

8. Fix to SNMP settings on the Web GUI Network Services page.

## **5141 (Bootloader 6.37) – November 4, 2011**

### **ENHANCEMENTS**

1. Support for NHRP (Dynamic VPN) added to WR21 Enterprise mode.
2. Support for RCI over HTTP added. It can be enabled or disabled via the Web GUI Network Services page or by the new command “cmd 0 rcihhttp <on|off>”.
3. Python digihw GPIO support added for the Telemetry1 and Telemetry2 cards. Also Python digihw temperature and voltage monitor support added for the Telemetry1 card.

### **BUG FIXES**

1. Fix to firewall recovery. When using a list of destination IP addresses with recovery, it was possible for the current index into the list table to be reset to the start before the other entries in the table had been tried.
2. Fix to Web GUI firmware update in which an “already underway” error occurs. It was caused by the web page requesting the status too soon, sometimes before the upload header has been sent. This most likely to be seen when downloading a large ZIP file (e.g. containing a GOBI file).
3. PAD fix to ensure a new call is not started until the previous call has been confirmed as cleared.
4. Fix for command filtering bug.
5. Fix for IPsec Tunnel Web GUI bug where the checkbox for “link tunnel with interface” was left unchecked when the parameter was configured.
6. Removed duplicate “transip” entry in the CLI command table.

## **5140 (Bootloader 6.23) - October 21, 2011**

### **ENHANCEMENTS**

1. Added support for iDigi Manager Pro which allows the user to remotely configure and manage the Digi TransPort product via the iDigi service.
2. The digihw Python module updated to include support for GPS interfaces.

3. Added serial numbers to configuration tag support so that tags can be used to create device specific configuration based on the serial number.
4. Added a new POTS parameter "pots 0 connect\_secs x" to define the maximum number of seconds to wait for the modem to connect.

#### **BUG FIXES**

1. Fix to VRF problem when routing from one VRF to another.
2. Fix to X25 switch so that if an answering XOT does NOT indicate any P or W facilities we ASSUME that whatever we asked for has been accepted.

### **5139 (Bootloader 6.32) - October 07, 2011**

#### **ENHANCEMENTS**

1. Support for WR21 released.
2. Added 3G service LED support to the WR44. It will now use the Serial DTE LED if the ASY LED mode is set to "Connection" on the WEB GUI. The CLI command is "cmd 0 asyled\_mode 0".
3. Added access to the DR64 motherboard temperature via the SNMP Sarian-Monitor MIB.
4. Added support for ftime into Python so that fractional portion of seconds (10ms granularity) is returned with calls to time.time().

#### **BUG FIXES**

1. Fix for GP UDP sockets that weren't closing down due to inactivity correctly and after receiving ICMP unreachable messages.

### **5138 (Bootloader 6.29) - September 24, 2011**

#### **ENHANCEMENTS**

1. WiMAX support added to WR41, WR44 and WR44R.

#### **BUG FIXES**

1. Fix for problem with WEB pages not showing Ethernet interfaces in the menu when configured for WiMAX or Wi-Fi client.
2. Fix for problem where Serial port goes dead after configuring PPP away from a SYNC port.
3. Fix an OSPF problem where a local default route was being replace by a learnt default route when the local default route went OOS but then being ignored when it came back into service.



## **5137 (Bootloader 6.29) - September 15, 2011**

### **ENHANCEMENTS**

1. Added support for NHRP for WR41 and WR44.

### **BUG FIXES**

1. Fix for IKE OpenSWAN interoperability problem.
2. Fix for lockup problem with EDGE (Cinterion MC75i) modules which could lock up when using a GTech SIM card. The modemcc sms\_interval setting is now used to control whether or not to attempt SMS storage initialization
3. Fix to WEB GUI so that logical Ethernet interface now only displayed if we have logical Ethernet interfaces.
4. Fix to Ericsson module power cycle logic to reduce the overall power cycle times.
5. GOBI carrier wizard no longer sets the Verizon username and password.
6. Fix for IKE problem to correct event log entry when SAs expire.
7. Fix to DTR status on the VC7400.
8. Fix to WEB GUI so that the Wi-Fi parameters "Hide SSID" and "Enable Station Isolation" are only displayed when in Access Point mode.
9. Fix to WEB GUI to submit changes to the Sync interface parameters correctly.
10. Fix for VPN negotiation problem with OpenSWAN relating to IP protocol/port matching.
11. Update to SDRAM timings on the DR64 mk2 platforms.

## **5134 (Bootloader 6.24) - September 01, 2011**

### **ENHANCEMENTS**

1. Added support GOBI 3000 module.
2. Added EAP-TLS support for Wi-Fi client mode. Two new parameters "identity" and "sslcli\_add" have been created. "identity" is the identity delivered to the EAP authentication server. "sslcli\_add" indicates which SSL client configuration to use.

3. Update to the Wi-Fi 4 way handshake so that we don't send the PMKID KDE which seems to break some Wi-Fi client implementations.
4. GPS task no longer reconfigures the baud rate at start-up on the WR44. This reduces the delay before getting the first data from the GPS receiver.
5. Changes to WEB GUI so that it is more obvious that it is possible to edit the field for input combo-boxes.

#### **BUG FIXES**

1. Fix for Fleet card issue where after a daughtercard reset, the revision would sometimes be reported as "unknown" and CAN/J1708 messages could take a while to get synchronized.
2. Fix to WEB GUI Wi-Fi page for the "Identity" parameter which wasn't being set properly.
3. Fix for problem with loading the Python Quick Start wizard which resulted in Python running out of memory and/or threads.
4. Fix for the gprsRegistered MIB object so that it is set for the GOBI CDMA mode.
5. Fix for NAT on OpenVPN interfaces. Received packets that should have had their destination addresses translated were not being modified.
6. Fix for issue in the RADIUS client where the local session ID counter is stored as a 16 bit value but is matched against an 8 bit value in response packets. This meant that after the first 256 packets, RADIUS was unable to match packets.
7. Fix a WEB GUI backup problem when using IE8.
8. Fix for BGP which would crash if enabled and no configuration file is configured.
9. Fix for Firewall/Routing code where packets needing to be directed to a gateway configured in a static route were actually being directed to the interface's default gateway. This bug applied to outbound packets matching an inbound stateful inspection rule.
10. Fix for WEB GUI OSPF and BGP configuration editor page which wasn't saving the files correctly.
11. Fix for a PPP issue when a PPP interface configured to automatically connect using a SYNC interface wouldn't reconnect.

## **ENHANCEMENTS**

1. Update to WEB GUI IPsec configuration page.
2. On the WR41, the power for Ericsson modules is now held off for an additional 40 seconds after boot-up. For the Ericsson F5521 module, the power is held off for an additional 35 seconds. This is to work around a problem of a very slow voltage discharge on the WR41.
3. Add support for SNMP Informs.
4. SCEP change so that the certificate basic constraints field is checked when deciding which prefix to give the filename.
5. Increased the maximum length of the RADIUS username parameter from 20 to 80 characters.
6. Updates to the FTDI USB serial driver to support more devices and to fix issues with flow control and DTR.

## **BUG FIXES**

1. Fix for the WEB GUI IKE/IKEv2 Responder page layout.
2. Fix to WEB GUI GRE tunnels page to clear the Source interface if the source IP address is configured.
3. Fix for problem when updating firmware using the WEB GUI which could result in excessive FLASH space being used.

## **5131 (Bootloader 6.20) - June 17, 2011**

### **ENHANCEMENTS**

1. QoS changes
  - a. Queue rate limits are adjusted more promptly when other queues allow it.
  - b. If a queue's min and max speed settings are the same, the estimated link speed does not factor into whether or not that queue can send packets.
2. Support for %s (serial number) format specifier added into DynDNS hostname parameters.
3. Change to Web GUI Date and Time page to split the SNTP and NTP configuration.

### **BUG FIXES**

1. RealPort fixes
  - a. Fix for RealPort software flow control.

- b. Fix for RealPort watchdog that could sometimes happen with big buffers.
  - c. Fix to ensure the Serial port is closed when a persistent close is received.
  - d. Fix for a problem where the TransPort would sometimes send back a Persistent Open response to an Immediate Open request if the previous Open request was a Persistent Open.
2. Fix to ensure the configuration timer is stopped when a port is closed.

## **5130 (Bootloader 6.06) - June 02, 2011**

### **ENHANCEMENTS**

1. QoS changes to add support for estimating the interface speed. Previously, automatic adjustments of queue throughput setpoints would only work if the link speed was configured into the QoS context.

### **BUG FIXES**

1. Fix for Ericsson F5521 module so that we now support firmware R2A07 and correctly handle automatic firmware configuration switching.
2. Changes to WEB GUI PPP status pages to display status information correctly.
3. Fix to RealPort which would stop a Linux client from sending more than 256 characters on the RealPort port.
4. Fix to SSL client to offload some of the SSL exchange work to a lower priority task. This resolved an issue where certain certificates resulted in an unusually large amount of processing and causing the DR64 platforms to have a watchdog reset.

**Release notes for firmware versions prior to 5130 are available on request via email to [support.wizards@digicom.com](mailto:support.wizards@digicom.com)**