



Digi Accelerated Linux (DAL) Release Notes

IX14

Version 19.5.88.81

INTRODUCTION

This is a production firmware release for all DAL supported products. This is a mandatory production firmware release that addresses the "SACK" Vulnerability - (CVE-2019-11477). For more information, see <https://www.digi.com/resources/security>

SUPPORTED PRODUCTS

- Digi IX14

KNOWN ISSUES

- None

UPDATE BEST PRACTICES

Digi recommends the following best practices:

1. Test the new release in a controlled environment with your application before you update production devices.
2. Unless otherwise noted, apply updates in the following order:
 - a. Device firmware
 - b. Modem firmware
 - c. Configuration
 - d. Application

Digi recommends Digi Remote Manager or Digi aView for automated device updates. For more information, follow the [instructions for Digi Remote Manager here](#) or the [instructions for Digi aView here](#). If you prefer manually updating one device at a time, follow these steps:

1. Download the firmware file from the [Digi firmware support page](#).
2. Connect to the device's web UI by connecting your PC to the WAN Ethernet port of the device and then going to <http://192.168.210.1>.
3. Select the **System** tab on the left side of the page.
4. Select the **Browse** button next to the **Firmware image** section.
5. Browse for and select the downloaded firmware file.
6. Click the **Update Firmware** button.

TECHNICAL SUPPORT

Get the help you need via our Technical Support team and online resources. Digi offers multiple support levels and professional services to meet your needs. All Digi customers have access to product documentation, firmware, drivers, knowledge base and peer-to-peer support forums.

Visit us at <https://www.digi.com/support> to find out more.

CHANGE LOG

VERSION 19.5.88.81 (June 26, 2019)

This is a **mandatory** release.

NEW FEATURES

1. Added support for getting NMEA location information from a UDP port (default port 2948) [DAL-1084]

SECURITY FIXES

1. Kernel patch for SACK attack (CVE-2019-11477). For more information, see <https://www.digi.com/resources/security>

BUG FIXES

1. Fixed bug where IPSec tunnel would cause a system crash when the tunnel was established over QMI-based modems [DAL-1170]
2. Fixed aView tunnel issue where the tunnel drops over time and remote commands fail [DAL-776]
3. Fixed bug preventing QMI-based Telit modems (CAT1 and CAT-M1 modules in particular) from connecting with vzwstatic APNs (bug present on 19.5.88.59 firmware)
4. Fixed bug where the 1003-CM modem (LTE CAT11 Telit LM940) would shut-down and not recover its cellular connection if temperatures were too high
5. Fixed bug where the cellular modem occasionally would not initialize properly on devices with a large number of serial ports

VERSION 19.5.88.59 (May 24, 2019)

This is a **mandatory** release.

NEW FEATURES

1. New CLI with more commands/consistency [DAL-773]
2. Enable Multicast DNS service on all platforms [DAL-972]
3. Implement RADIUS authentication support for users [DAL-903]
4. Add NTP Server option (disabled by default) [DAL-340]
5. Add sftp server to all DAL platforms [DAL-859]
6. ECC Custom Cert Support [DAL-764]

ENHANCEMENTS

1. Improvements to CLI show serial [DAL-1175]
2. Improved reliability of security chip from userspace access due to wakeup
3. Send interface name with cellular status events [DAL-916]
4. Updated ipset version to 7.1 [DAL-917]
5. Update to newest shadow-4.6 package
6. TACACS+ authorization for more server implementations [DAL-933]
7. stunnel updated to version 5.52 [DAL-915]
8. Additional health metrics required for DRM 3.0 [DAL-810]
9. Add support for Telit ME910C1_WW
10. Direct remote serial port access via WebUI (shellinabox) [DAL-775]
11. Dual-APN Support on Telit LE910-NAv2 (1002-CM04) [DAL-818]
12. Improved OpenVPN operation and customization [DAL-798]
13. Update to linux-5.0 [DAL-842]
14. Add **description** field to system group [DAL-581]
15. Upgrade MC7455 to 02.30.01.01 (SWI9X30C 2.0 Release 23) added latest Sierra firmware for MC7455 and MC7430 [DAL-759]
16. Add an additional APN for Bouygues in France [DAL-840]
17. Improved Telit location reporting [DALP-226]
18. Improved collection of network LINK and Speed reporting
19. Implement Digi Remote Manager health metrics [DAL-707]
20. Added latest Telit LE910_XX_V2 firmware md5 sums

SECURITY FIXES

1. Update to openssl-1.0.2r (security) CVE-2019-1559
2. busybox: fix for CVE-2014-9645 [DAL-1159]
3. busybox: fix for CVE-2017-16544 [DAL-1159]
4. libcurl: update to 7.64.1 (CVE-2017-8816, CVE-2017-8817, CVE-2017-8818, CVE-2018-0500 CVE-2018-1000300, CVE-2018- 1000301, CVE-2018-14618, CVE-2018-16839, CVE-2018-16840, CVE-2018-16842 CVE-2018-16890, CVE-2019-3822, CVE-2019- 3823)
5. libcurl: fixes for CVE-2018-1000007, CVE-2017-8818, CVE-2017-8816, CVE-2018- 1000005 Zebra 0.99.24: fix for CVE-2016-1245

6. busybox fixes for CVE-2016-6301, CVE-2016-2148, CVE-2017-16544, CVE-2016-2147, CVE- 2017-15874, CVE-2014-9645, CVE-2011-5325 [DAL-1159]
7. pppd update to 2.4.7 (CVE-2014-3158, CVE-2015-3310)
8. Kernel patch to resolve CVE-2019-11815

BUG FIXES

1. Fix issue on 6300-CX preventing WebUI based firmware update up to 1 in 3 tries [DAL-1194]
2. Remote cloud connections were locked until while long running commands completed [DAL-1177]
3. Fix major issue with multiple IPsec policies When two remote subnets are configured in 2 Policies for an IKEv2 tunnel only Policy 2 traffic will pass [DAL-934]
4. Corrections to CLI show route [DAL-1176]
5. CLI **show system** output included outdated current time and uptime [DAL-1172]
6. Errors on console during WebUI firmware update [DAL-1140]
7. Faster fetching of signal attributes for LE910_NA_V2 modem
8. Fixed bug with parsing out MCC/MNC from AT#RFSTS response (LE910NAv2)
9. Fixed cloud connector crash on shutdown
- 10.Fixed process management issue with cloud connector and configuration
- 11.Check for configured serial ports in **show serial** command
- 12.Fixed bug where **show serial** option is visible for devices with no serial ports [DAL-1114]
- 13.Web GUI input validation rewording to be consistent
- 14.DAL-CLI: fix typos in descriptions, titles, and minimums
- 15.WebUI: Ensure correct versions of static files are loaded (using md5hash)
- 16.Serial ports were mistakenly listed under **Network** for metrics and state
- 17.Metrics had incorrect title, "System" in descriptors/state.
- 18.ModemManager: Telit error reporting patch
- 19.Intelliflow crash fix (divide by 0 on some datasets)
- 20.Intelliflow improve error reporting
- 21.System maintenance tasks do not run during duration window if reboot time is set [DAL-960]
- 22.SPIKE: Asynchronous CLI under DRM [URMA-1996]
- 23.Firmware update through WebUI doesn't recover when some other page is clicked during the update process [DAL-869]
- 24.Signal/dbm/percentage inaccurate on Verizon 2G and 3G connections with MC7354 [DAL-786]
- 25.Verify and fix dual APN support on the LM940 [DAL-742]
- 26.Unable to establish dual-APN connection with AT&T using Sierra modem [DAL-813]
- 27.Telit: Added logic to protect new C1_AP modems from being bricked [DAL-744]
- 28.Telit: Added firmware check sum for version 414 of LE910-EU1 [DAL-822]
- 29.Update Telit LE910C1-NS modem firmware from 25.00.244 to 25.00.246 [NPIX-

939]

30.Fix MTU support for PPP based connections

31.Added md5 sums for the latest Telit firmware for LE910_NA1

VERSION 19.1.134.81 (Feb 14, 2019)

- Initial mass production release for Digi IX14
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