



## **FX30 13.1.2.004 firmware Release Notes**

### **Hardware Compatibility**

FX30 Release 13.1.2.004 firmware is compatible with all Sierra Wireless FX30 and FX30S 3G Programmable IoT Gateways commercial units.

FX30 Release 13.1.2.004 is not compatible with FX30 early samples where serial number starts with LLxxx and xxx < 629

### **Compatibility with Dev Studio**

FX30 target is not available on Developer Studio 5.0.

However a Legato application can be developed for WP8548 target and loaded into FX30/FX30S unit.

Do not use Developer Studio to rebuild the full Legato Application Framework and load in into FX30/FX30S unit.

Do not use Developer Studio to upgrade FX30/FX30S firmware.

Yocto Kernel custom build is not available for FX30/FX30S R13.1.2.004.

### **Compatibility with AirVantage**

FX30 Release 13.1.2.004 is AirVantage ready and FX30 R13.1.2.004 bundles are published on AirVantage Servers.

### **Build contents (fwupdate query command)**

Firmware Version: SWI9X15Y\_07.11.22.00 r33729 CARMD-EV-FRMWR1 2017/01/11 18:04:06

Bootloader Version: SWI9X15Y\_07.11.22.00 r33729 CARMD-EV-FRMWR1 2017/01/11 18:04:06

Linux Version: 3.14.29ltsi-a00e464379\_3f15cd39ad #2 PREEMPT Mon Feb 20 11:11:17 PST 2017

FX30 Version: R13.1.2.004



## New Features

Integration of WP8548 firmware Release 13.1

Integration of Legato Application Framework 16.10.1

Support of RS485 on UART1 for FX30S (serial model)

Force root password change at first ssh connection (aka "Aggressive Nagger")

When using UART function 17 with UART1 (Customer Linux Application), the device is now `/dev/ttyHSL0` instead of `/dev/ttyHS0`

## Known Limitations

[ALPC 278] The 'reboot' command does not work if an IoT card is inserted in the FX30 unit. However, 'reboot -f' can be used instead.

[ALPC 321] RS232 H/W flow control is not supported on FX30S

## Security

Aggressive nagger force to change root password at first ssh connection

All routes are disabled by default on ETH and WWAN interfaces, requiring to update routing tables before any use of these interfaces.

USB is the preferred "console" interface for AT and SSH (192.168.2.2)

## Upgrading FX30 to R R13.1.2.004

Locally SSH on USB:

1. Copy `mcu-rmfw-boot-yocto-legato_wp85.cwe` to FX30 filesystem using scp.
2. Open a ssh session
3. Execute ***fwupdate download mcu-rmfw-boot-yocto-legato\_wp85.cwe***

Remotely: Using AirVantage



## AirVantage Limitations

ID	Title	Description	Component
QT19X1555-1009	FOTA/SOTA fails if the attached network doesn't authorize the update of the local time	When the NITZ information is not provided by the attached network, the installation FW /Bundle fails as the TLS certificate requires a valid date. As a workaround, the current date may be manually set via AT!TIME, e.g. <code>at!time=2017,01,31,00,00,00</code> OR via the kernel console: <code>echo -e "at!time=2017,01,31,00,00,00\r"   microcom -t500 /dev/ttyAT</code>	Modem
QT19X1555-939	AVMS LWM2M device object UTC offset has an incorrect value	UTC offset shows value: "-248:00", e.g.: <code>at+wds=3,0,"/3/0/14"</code> -248:00 OK	Modem
QT19X1555-830	LWM2M node 4.0.4 defects	<ol style="list-style-type: none"> <li>1. Only one address is returned per context. If it is an IPV4V6 context, it chooses the IPv6 address. Therefore, the IPv4 address isn't being reported to the server.</li> <li>2. If you query the instances fast enough, it is returning the wrong data.  <code>at+wds=3,0,"/4/0/4/0"</code>  10.96.187.172  OK  <code>at+wds=3,0,"/4/0/4/1"</code>  10.96.187.172  OK  <code>at+wds=3,0,"/4/0/4/1"</code>  øE  OK </li> <li>3. Right now, the AirVantage server will show 4.0.4.0 as the "IP Address" to the user. This may or may not be the address that provides data connectivity to AirVantage.</li> </ol>	Modem
LE-6113	Synchronize warning in AirVantage due to the application model LEGATO _modified	When an application is loaded onto a Legato installation, a subsequent sync operation returns the warning in Sync Status due to "_modified" appended to the version: "Application read in the system is not available or unknown [WP8548_LE,16.10.1_a6a25fbda05738774857dccb9fd76a99_modified]"	Legato