



## FX30 and FX30S Cat1 10.1.1.004 Release Notes

### Compatibility

Release 10.1.1.004 is compatible with Sierra Wireless FX30 Cat 1 Programmable IoT Gateways (SKU 1104275).

### Build Contents

The fwupdate query command will return the following results:

<b>Firmware Version</b>	SWI9X07Y_02.18.05.00 000000 jenkins 2018/07/19 17:40:21
<b>Bootloader Version</b>	SWI9X07Y_02.18.05.00 000000 jenkins 2018/07/19 17:40:21
<b>Linux Version</b>	3.18.44 #2 PREEMPT Tue Jan 29 12:58:27 PST 2019
<b>FX30 Version</b>	R10.1.1.004
<b>Legato Version</b>	18.06.3_7b16f82bd545a87f814cb194bd6d1985

### Supported Images

To obtain firmware images and source code, please go to the Source at: [source.sierrawireless.com/resources/airlink/software\\_downloads/fx30-firmware/fx30-firmware/](http://source.sierrawireless.com/resources/airlink/software_downloads/fx30-firmware/fx30-firmware/) and follow the link to the Cat1 firmware packages. Firmware for the carriers listed below and the source code are available on the Cat1 firmware page.

Carrier	Version
Generic	GENERIC-002.041_002
Sierra	SIERRA-001.002_000

### Source Code

The Source code .tar file now includes Legato source code for 18.06.3.

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*Note: There may be minor differences between the Legato source code included in the FX30 source code package and the Legato source code downloaded from [legato.io](http://legato.io).*

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The Source code build generates the full FX30 image (CWE binary) at the location `build_bin/images/public/FX30_WP76xx_full_R10.1.1.004_modified-<CARRIER PRI>.cwe`

The Source code for the Legato applications `columbiaAtService` and `factoryRecoveryService` are not supplied. These binaries must be installed manually using the Legato target tool: "update".

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*Note: Sierra Wireless supports building the Legato source code using Ubuntu 14.04 or Ubuntu 16.04 only. The Legato source code cannot be built using Ubuntu 18.04.*

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## Known Issues

SPI	
LE-11339	<p>Unable to use SPI device. The workaround is to first build the <code>spisvc</code> kernel object, and then manually install:</p> <pre>insmod &lt;file location&gt;/spisvc.ko</pre> <p>which creates the device:</p> <pre>/dev/spidev1.0</pre>
General	
QT19X07-3266	Issue seen with SIERRA Wireless SIM card: After a SIMTOOLKIT REFRESH (File Change Notification), the device may not register in CS while it is attached in LTE.
ALPC-594	Cannot wake up from ULPM by GPIO36 and GPIO38.

## Upgrade Procedures

### Local Upgrade

SSH on USB:

1. Copy `FX30_WP76_full_R10.1.1.004.cwe` to the FX30 file system using `scp`.
2. Open an SSH session.
3. Execute `fwupdate download FX30_WP76_full_R10.1.1.004.cwe`.

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*Note: Legacy firmware images will still have the filename format `mcu-rmfw-boot-yocto-legato_wp76.cwe`. The contents of the old filename format and the new filename format are identical.*

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### Remote Upgrade

Using AirVantage.