



Customer Release Notes

FX30 and FX30S 15.2

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Contact Information

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Corporate and product information	Web: sierrawireless.com

Revision History

Revision number	Release date	Changes
1	April 2026	Document creation

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1: Introduction

1.1 Document Scope

This document describes FX30 and FX30S firmware releases.

1.2 Document Audience

These release notes may be distributed to customers.

2: Compatibility

Release 15.2 is compatible with Semtech FX30 and FX30S Cat M1/Cat NB1 Programmable IoT Gateway products.

Note: AVMS Bundle Updates (FOTA) do not work over the LTE-NB1 network. due to download speed.

2.1 Build Contents

Modem Version	SWI9X06Y_02.36.08.14 29cc56 jenkins 2025/10/15 06:49:23
MCU	002.015
FX30 Version	R15.2.0.006
Linux Version	SWI9X06Y_03.00.15.03
Linux Kernel Version	Linux version 4.14.253 (oe-user@oe-host) (gcc version 9.3.0 (GCC), GNU ld (GNU Binutils) 2.34.0.20200220) #1 PREEMPT Thu Feb 12 08:14:35 UTC 2026
Legato Version	21.05.6

3: Supported Images

To obtain carrier-specific FX30 firmware images, please go to the FX30 CatM Firmware page on the Semtech Source. Firmware is available for the carriers listed below.

Note: These are full firmware images, which include all components (Linux, radio module firmware, and Legato).

Carrier	Radio Module Firmware Version	Carrier PRI Version
Generic	SWI9X06Y_02.36.08.14	001.082_000

3.1 Source Code

To obtain the source code, use the [Leaf Workspace Manager](#) with the identifier **swi-fx30-catm_4.3.1**.

Note: The Legato source code included in the FX30 source code package includes modifications that do not appear in the corresponding Legato source code available from [legato.io](#) or other Leaf packages. For details, refer to item descriptions in the [New Features](#) and [Bug Fixes](#) sections, below.

The Source code build generates the full FX30 image (CWE binary) at the location:

```
build_bin/images/public/FX30_WP77xx_full_<FX30 VERSION>-<CARRIER>-<RMFW VERSION>.cwe
```

(e.g. build_bin/images/public/FX30_WP77xx_full_R15.1.0.004-sierra-SWI9X06Y_02.36.08.09.cwe)

To pull the full yocto environment, use the following command sequence:

1. Create a new folder:


```
mkdir my_workspace
cd my_workspace
```
2. Initialize Leaf workspace:


```
leaf init
```
3. Set up the workspace:


```
leaf setup fx30-catm-new -p swi-fx30-catm_4.3.1
```
4. Pull the source code:


```
leaf getsrc swi-linux
```
5. Build:


```
make PROD=fx30
```

3.2 Notes

- **leaf getsrc swi-linux** pulls the entire FX30 yocto environment, allowing the full image to be built. Some additional Legato framework patches (customizations) are added to the legato-af recipe.

- **leaf getsrc legato** results in pre-patched Legato framework source code with FX30 customizations corresponding to the legato-af yocto recipe.

Important: *Do not execute `repo sync` in `swi-linux` or `legato` workspaces. This can result in a corrupted workspace.*

4: New Features

4.1 New Features

General		Impacted Domain
MOLFX30-259	The possibility of using ethernet with AV	Legato

4.2 Bug Fixes

General		Impacted Domain
ECHO-1273	[WP7702][PTCRB][GCF] requirement to disable GEA1 and GEA2 algorithms	Modem
ECHO-1201	WP7702 overconsumption after enabling GNSS	Modem
MOLFX30-272	MQTT client systematic fatal error	Legato
MOLFX30-254	AirVantage command not completed and sent several times	Legato
MOLFX30-249	Read-only FS issue	Linux
MOLFX30-241	Unable to update apps	Legato
MOLFX30-236	0001-fx30-Add-custom-linux-uart-support.patch does not work on latest Release 15	Linux
MOLFX30-194	mdcIntegrationTest - bad profile 38 function not implemented	Legato
MOLFX30-174	Modem connects only once to AirVantage	Linux

4.3 Known Issues

- N/A

4.4 Upgrade Procedures

4.4.1 Local Upgrade

SSH on USB:

1. Copy **FX30_WP77xx_full_<FX30 VERSION>-<CARRIER>-<RMFW VERSION>.cwe** to the FX30 file system using scp.
2. Open an SSH session.
3. Execute **fwupdate download /<PATH>/FX30_WP77xx_full_<FX30 VERSION>-<CARRIER>-<RMFW VERSION>.cwe**.

Note:

- *Ensure that you specify the full path to the file. For example: fwupdate download /tmp/FX30_WP77xx_full_<FX30 VERSION>-<CARRIER>-<RMFW VERSION>.cwe*
 - *Legacy firmware images will still have the filename format mcu-rmfw-boot-yocto-legato_wp77.cwe. The contents of the old filename format and the new filename format are identical.*
-

4.4.2 Remote Upgrade

Using AirVantage. See [AirVantage FOTA Edition Getting Started](#) and [How to upgrade Firmware on my AirPrime module or AirLink programmable modem?](#)