

# ME1210/ME1310 NOS 2.50 (NOS firmware update)

PCN no.: 2412

Revision	Brief Description of Changes	Date of Issue
1.0	Initial issue	2024-06-04

## 1/ Description of the change

This PCN includes firmware modifications for the ME1210 and ME1310 switch module. It includes new improvements and fixes for other minor issues and various user experience improvements.

Please refer to the following table for the list of updated components:

Product	Component	Previous NOS	New NOS
ME1210/ME1310	NOS	2.49.017A64C8	2.50.018483EB

## 2/ Change Classification

<b>Classification</b>	<ul style="list-style-type: none"><li>Maintenance release, Product improvement</li></ul>
<b>Applicability</b>	<ul style="list-style-type: none"><li>This package is field-upgradable ; please download the ME1210/1310 - switch NOS from the FIRMWARE section of the ME1210 page of Kontron's corporate website : <a href="#">Here</a></li></ul>

## 3/ Impact on customer's application and recommended actions


For all ME1210 or ME1310 units deployed with older FWs, it is recommended to apply this FW upgrade as soon as is practical.

Please refer to the firmware upgrade procedure found below for a step-by-step upgrade process.

## 4/ Firmware upgrade procedure

The following procedures will upgrade the NOS of the ME1210 Switch module.


### Warnings and notes

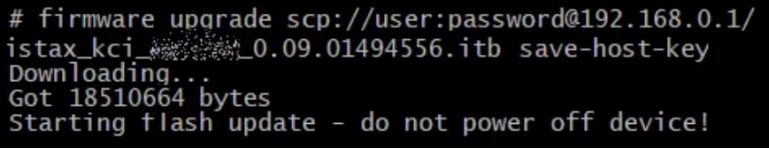
	<p>If updating from firmware release 1.01.01530512 or older, default configuration must be reloaded. Perform the following commands from CLI before the upgrade:</p> <ul style="list-style-type: none"> <li>• reload defaults</li> <li>• copy running-config startup-config</li> </ul>
<b>NOTICE</b>	<p>The following settings have changed in the default-configuration:</p> <ul style="list-style-type: none"> <li>• Enable HTTPS support</li> <li>• Disable telnet access</li> <li>• Disable Spanning Tree</li> </ul>
<b>NOTICE</b>	<p>It is imperative that the file that will be uploaded to the switch has the <b>.itb extension</b>. If a file with another extension is uploaded, a complex recovery procedure would have to be performed. Should this situation occur, contact customer support.</p>

### Prerequisites

1	<p>A server configured with SCP protocol is available and accessible from the switch NOS. or Access to the switch NOS Web UI is required.</p>
2	<p>The <b>.itb</b> upgrade file provided by Kontron was downloaded on the remote computer.</p>

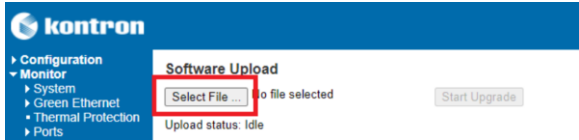

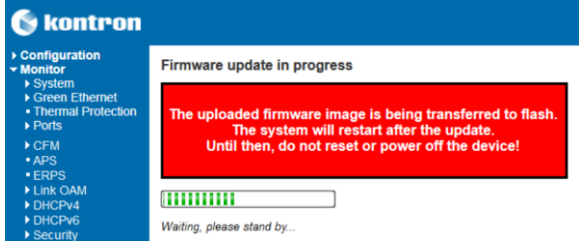
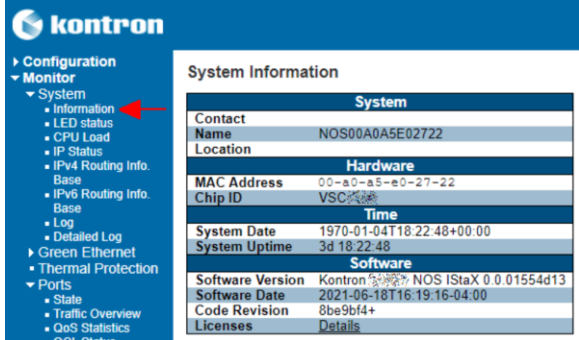
### 4.1. Upgrading the switch firmware using SCP

	<p>The URL following the server IP address is a path relative to the user home folder provided ("~/"). To specify an absolute path, use a double slash after the IP address (e.g. scp://[SERVER_USERNAME]:[SERVER_PASSWORD]@[SERVER_IP]/[path/to/filename.itb]).</p>
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Step_1	Access the switch NOS using SSH or a serial connection.
Step_2	<p>Initiate firmware download and upgrade.</p> <pre>LocalSwitchNOS_OSPrompt:~# firmware upgrade scp://[SERVER_USERNAME]:[SERVER_PASSWORD]@[SERVER_IP]/[FILE_PATH] save-host-key</pre>  <p>(captured image is with a previous FW version)</p>

Step_3	Wait for the switch NOS to reboot after the upgrade completes.
Step_4	<p>Confirm the upgrade was successful by checking the firmware version.</p> <p>LocalSwitchNOS_OSPrompt:~# <b>show version</b></p> <p>In the results, look for the version in the Primary Image section:</p> <pre> Primary Image ----- Image       : linux (&amp;Active) Version     : Kontron S1901 NOS IStax 1.01.0161bc08 Date        : 2022-02-24T11:08:01-05:00 (captured image is with a previous FW version) </pre>

## 4.2. Upgrading the switch firmware using the switch NOS Web UI

Step_1	From the left-side menu of the switch NOS Web UI, select <b>Maintenance, Software</b> and then <b>Upload</b> .	
Step_2	Click the <b>Select File</b> button and then choose the desired <b>.itb</b> file.	
Step_3	After selecting the file for the upgrade, click on <b>Start Upgrade</b> .	 <p>(captured image is with a previous FW version)</p>
Step_4	Wait for the upload and upgrade process to complete.	
Step_5	Once the upgrade is done, from the left-side menu, select <b>Monitor, System</b> and then <b>Information</b> . Confirm that the <b>Software Version</b> corresponds to that of the <b>.itb</b> file.	 <p>(captured image is with a previous FW version)</p>

## 5/ Individual Changelogs

### 5.1. SWITCH NOS

#### 5.1.1. Changes since V2.49

- Added the AES encryption support when using SnmpV3 protocol (ME1210-3182)
- Added additional check during firmware upgrade to ensure valid image is uploaded. (ME1310-2011)

#### 5.1.2. Changes since V2.44

- EAPOL forwarding functionality has been added (ME1210-3148)
- Fixed an issue where the 25Gb port did not link up properly (ME1210-1969)
- Improved the WebUI (ME1210-3140)

#### 5.1.3. Changes since V2.26

- Fix port number on SyncE selection change (ME1310-1664)
- Fix DefaultDS issues for G.8275.x T-TSC (ME1210-3133)
- Fix warning on reload defaults (ME1210-3024)
- Added new port map configurations (ME1310-1950)
- Update Web interface visual aspect (ME1310-1932)
- Add logging of SyncE events (ME1310-1664)
- Add logging of PTP events (ME1310-1710)
- Fix logging of holdover state (ME1310-1807, ME1210-3004)
- Fix PTP state flapping on port 16 (ME1310-1947)
- Fix unmet ITU G.781 SyncE requirements (ME1210-3040)
- Skip control of LOS bit in DPLL (ME1210-3125)
- Fix switchover behavior in G.8275.2 (ME1310-1927)
- Addition of 1G and 25G latency correction (ME1210-3105)
- Update to IStax38x-APPL-2022.12 (ME1310-1921)
- Restrict PTP Hybrid mode to SyncE QL-PRC (ME1210-3041, ME1210-3038)
- Fix version display in Uboot signon (ME1210-3103)
- Disable POE module as it is unsupported on the platform (ME1310-1782)
- Fix multiple PTP instances with common domain (ME1210-3111)

#### 5.1.4. Changes since Astrantia

- Update to new code drop from Microchip (IStax38x-APPL-2022.03, brsdk 2022.03) (ME1310-1614, ME1210-2981, ME1210-2985, ME1210-2984, ME1210-2996, ME1210-3001, ME1210-2971)
- Fix bad PTP port state after loss of ToD (ME1210-2986)
- Fix 1PPS output when virtual port is unused (ME1210-3012)
- Improve 'reload defaults' for PTP (ME1210-3010, ME1210-3018)
- Improve PTP Holdover behavior (ME1210-2971, ME1210-3002, ME1210-2954, ME1210-2609, ME1210-2853, ME1210-3017, ME1210-3023, ME1310-1486)
- Improve GNSS <-> PTP transitions (ME1210-2954, ME1210-3031)
- Force APR oscillator type to OCXO\_S3E (ME1310-1487)
- Improve Holdover value filtering (ME1210-2609)
- Add new CLI commands for PTP info reporting (ME1310-1557)
- Update Port State Overview help page (ME1210-2863)
- Add 'show portmap' command (ME1210-2824)
- Add explicit SFP LOS to SGPIO mapping (ME1210-2939)
- Restrict virtual port configurability (ME1310-1660)

- Fix KR port connectivity regression (ME1210-2939)
- Fix 25G KR Link training (ME1310-1547)
- Fix 'reload defaults' after cold boot (ME1210-3018)
- Enable HTTPS support (ME1310-1493)
- Disable telnet access (ME1310-1562)
- Disable Spanning Tree in default-config (ME1310-1720)

### 5.1.5. Changes since Initial release

- Operational warnings are now reported in the Configuration → Ports page in the Web UI (ME1210-2747)

#### About Kontron

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With a significant percentage of employees in research and development, Kontron creates many of the standards that drive the world's embedded computing platforms; bringing to life numerous technologies and applications that touch millions of lives. The result is an accelerated time-to-market, reduced total-cost-of-ownership, product longevity and the best possible overall application with leading edge, highest reliability embedded technology.

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