

QuadLN\_S version 3.2.3 firmware JMRI update  
Dec 31 2022

**This update is only for the QuadLN\_S decoder, it will not work with the old QuadLN decoder.**

### Updating JMRI to support QuadLN\_S version 3.2.3 firmware

The update process depends on your current version of JMRI.

If you are running **JMRI 5.2 and later:**

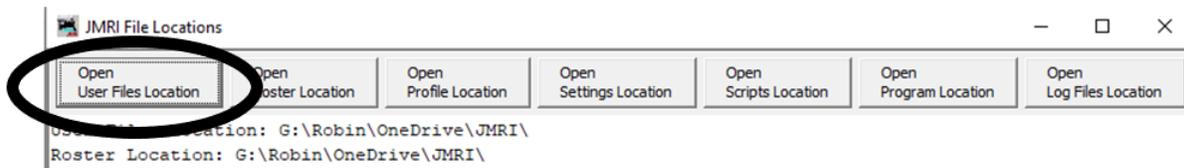
Support for firmware version 3.2.3 is built-in for JMRI version 5.2 and later. If you have previously placed any QuadLN\_S files in either the **decoders** folder or the **xml/decoders/tvd** folder in your **User Files Location**, you should **delete** those files.

If you are running **JMRI pre-4.26:**

You must update to at least version 4.26 first. JMRI version 5.2 is recommended.

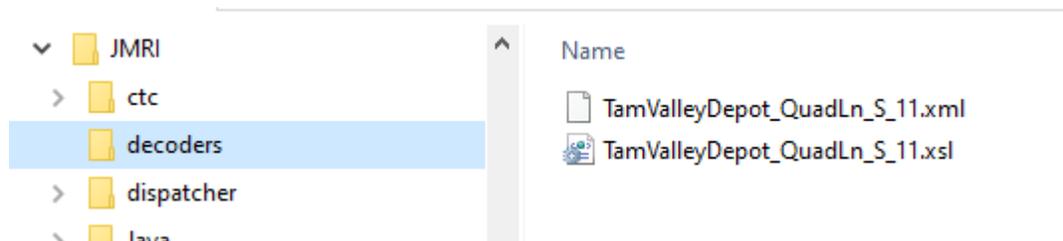
If you are running **JMRI 4.26 to JMRI 5.17**

The Zip file contains new decoder template files. These files will be copied into various folders in your JMRI **User Files Location**. To access your User Files Location, choose Help->File Locations from the JMRI menu. The dialog below will open.

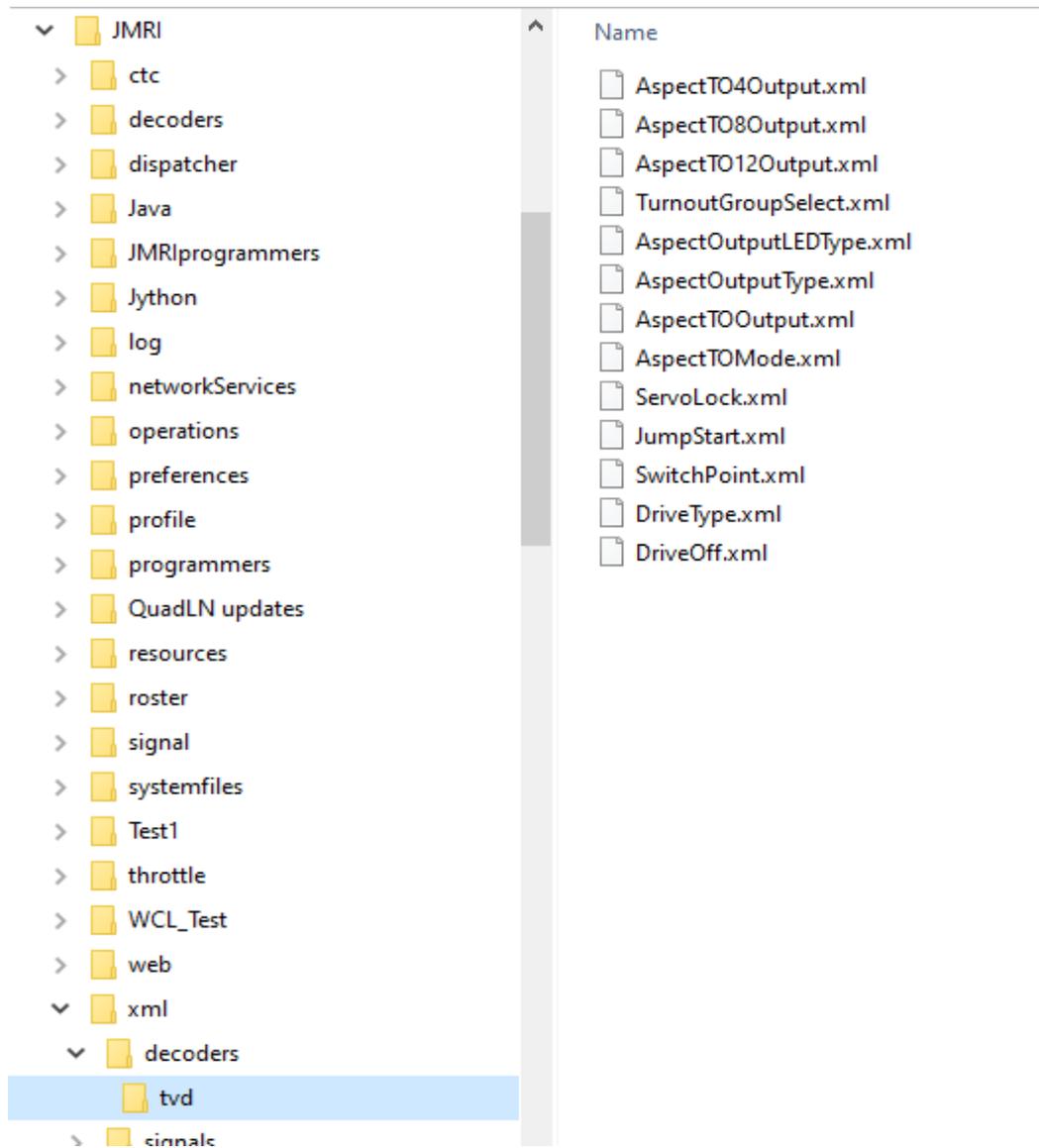


Click on the **Open User Files Location** button to open a file browser at your User Files Location.

There should already be a folder called "decoders" in your User Files Location. Copy the new TamValleyDepot\_QuadLN\_S\_11.xml and TamValleyDepotQuadLN\_S\_11.xsl files into the "decoders" folder. When you are done the folder should look like this:



There may already be a folder called "xml" in your User Files Location. Create this folder if it does not exist. Open the xml folder and create a "decoders" subfolder there if it does not already exist. Now open the decoders subfolder and create a "tvd" subfolder if it does not exist. Copy all the files from the tvd folder in the update zip file into the "xml/decoders/tvd" folder. When you are done the folder should look like this:



### \*\*\* JMRI roster entries

\* There is a new "Quad-LN\_S\_v3" decoder type in JMRI under Tam Valley Depot->QuadLN\_S. This decoder type is only for use with Version 3 or later firmware. Continue to use the existing "Quad-LN\_S\_v1" decoder type for any board that is running Version 2 firmware.

When upgrading a board from firmware Version 2 to Version 3 firmware there are two ways to update an existing roster entry so that it uses the correct Quad-LN\_S\_v3 template.

a) Recommended approach. Create a new roster entry and select the Quad-LN\_S\_v3 as the decoder type. Set the Board Address on the Quad-LN\_S tab to the address of your board, then save the new roster entry and close it. Now open the new roster entry using the Programming on Main / Ops Mode programmer and go to the QuadLN\_S tab. At the bottom check that the Decoder Template File Version is 3.02.3 and the Decoder Transform File Version is 3.02.3. If you do not

see this STOP HERE, close the roster entry, and recheck that you have copied the new files to the proper locations. If everything is good so far, do a Read Full Sheet to check that your firmware update was successful. The Software Version should be 3.2 and the Build Number should be 3. Finally go to the CV tab and do a Read Full Sheet to get all your existing board settings loaded into the new roster entry. This process will take a bit of time as there are hundreds of CVs so please be patient. Once the Read finishes do a File->Save and you will have all your prior settings saved in the new roster entry.

b) Advanced approach. Update the existing roster entry using an editor such as Notepad++. On line 7 change the model name from "Quad-LN\_S\_v1" to "Quad-LN\_S\_v3". Be careful not to change anything else. Save the file and then do Debug->Rebuild Roster in JMRI. Open the roster entry using the Programming on Main / Ops Mode programmer and go to the QuadLN\_S tab. At the bottom check that the Decoder Template File Version is 3.02.3 and the Decoder Transform File Version is 3.02.3. If you do not see this STOP HERE, close the roster entry, and recheck that you have copied the new files to the proper locations. If everything is good so far, do a Read Full Sheet to check that your firmware update was successful. The Software Version should be 3.2 and the Build Number should be 3.

You can now proceed to configure the new features in the firmware as desired. Don't forget to save your roster entry when done.

Robin Becker  
N3IX Engineering