Enable NVRAM for G500-D2X Applications

Technical Note

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Overview

G500 running firmware v4.0 with D2x Firmware SMXA0.400 and D2x Environment Type SMC-0001-11 supports only RAM for the D2x Applications. This means that the D2x Save Points on Power Fail feature will not work with D2x firmware SMXA0.400.

A subsequent set of upgrades enables NVRAM for G500-D2X Applications. These upgrades consist of:

- New DSAS Firmware Library with SMXA0.401 (delivered as file "D2xAppsFirmwareLibrary.7zip")
- New D2x Environment Type SMC-0001-01 (delivered as file "Enable_D2x_Apps_NVRAM.SystemParameters.7zip")
- New D2x Firmware Name and Version SMXA0.401 (delivered as file "SMXA0_401_0006.D2xFirmwareUpdate.7zip")

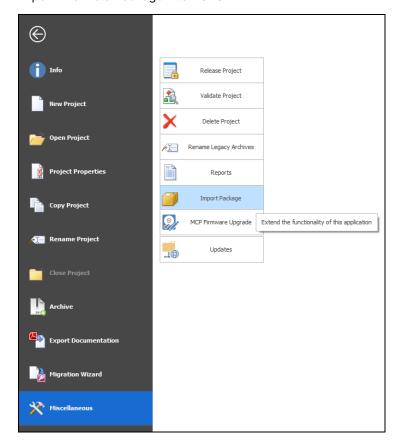
Above files are packaged in a single "meta package" file: "G500-D2X_SMXA0_401_20240430_NVRAM_MetaPackage.7zip".

This Technical Note describes how to install and enable the above.

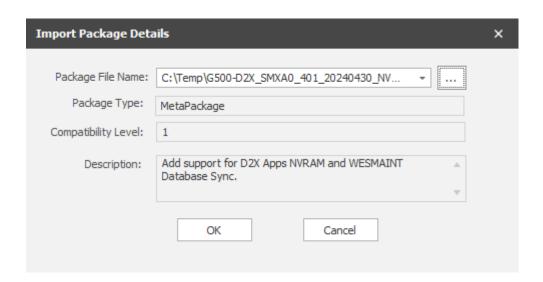
Steps to perform in DS Agile Studio

Obtain the DSAS Package file: G500-D2X_SMXA0_401_20240430_NVRAM_MetaPackage.7zip

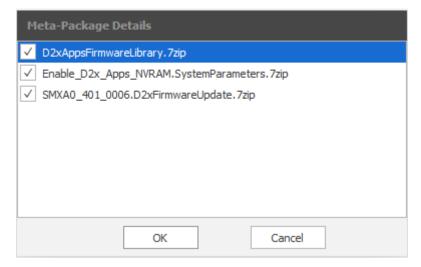
1. Import this Meta Package into DSAS:



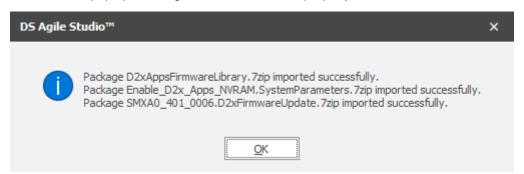




2. In the open dialog, select ALL FILES inside the Meta-Package. Click **OK**.

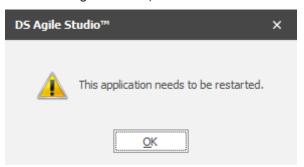


3. A window will pop up showing that these files were properly installed. Click **OK**.

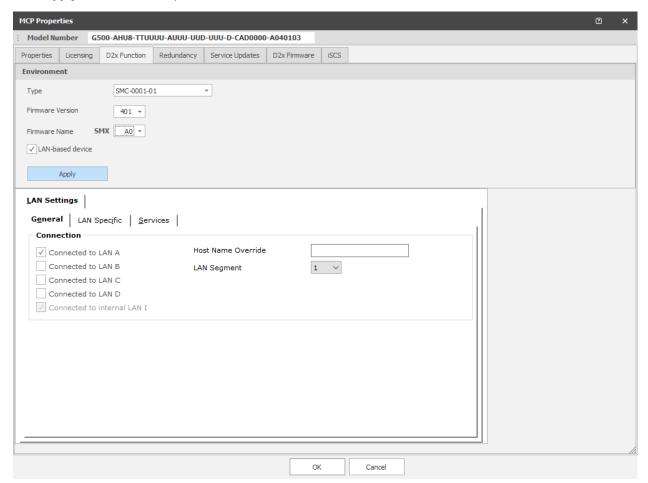


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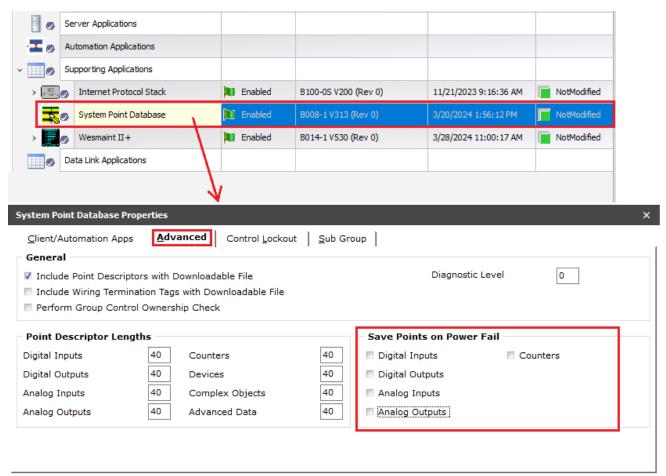
4. After installing these files, DSAS needs to restart to complete the installation. Click **OK** to continue.



- 5. After DSAS has restarted, all G500 Device configurations where you want to use NVRAM for G500-D2x Applications need to be modified. Change the following D2x Function Environments (under Device Properties):
 - Type to **SMC-0001-01**
 - Firmware Version to 401
 - Firmware Name to AO
- 6. Click Apply and wait for the process to finish.



You may now enable Save Points on Power Fail:

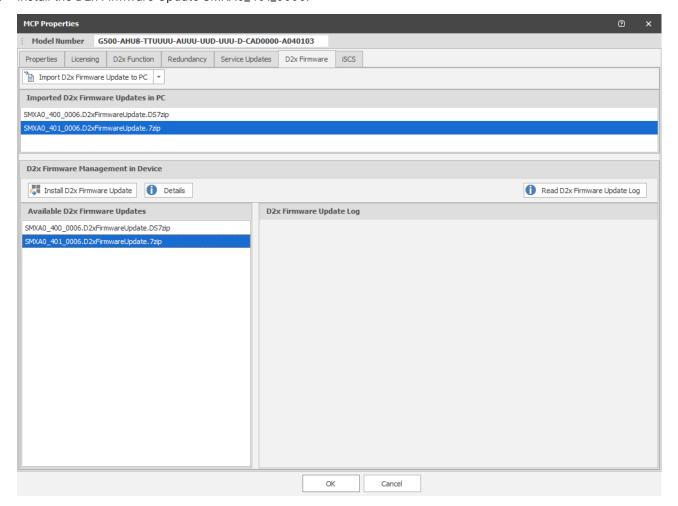


7. Save and generate the D2x configuration.

Steps to perform for G500 Devices – Install the new D2x Firmware

For all your G500 devices where you want to use NVRAM for D2x Applications:

1. Install the D2x Firmware Update SMXA0_401_0006:



You can now use the DSAS upgraded configurations and sync to the G500 upgraded devices.

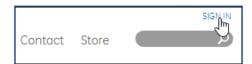
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Document Revision History

Version	Revision	Date	Change Description
1.00	1	April 30, 2024	Initial Release.

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