



Customer Information Bulletin

CIB

CIB #: 00055
Date: Nov 2017
Status: Non-confidential

Subject: AFplus, EX BLK and FR1200 material installation guide on ProX SLS 500

NOTE 1: This is the third update over V6.1.9 release for ProX SLS 500. It installs new **V6.1.0** material configuration files for **AFplus, EX BLK and FR1200 materials**. For your reference, listing the first two updates:

- V6.1.9 Update 1
This update includes latest RBF file v042017 for Altera DSP and BIT file v041917 for Xilinx DSP.
<https://3dsystems.teamplatform.com/pages/158656?t=xm2mfo391d19>
Password: **042017**
- V6.1.9 Update 2
This update includes revised material configuration files **V6.1.2**.
<https://3dsystems.teamplatform.com/pages/167800?t=gcyuzo5rbg4a>
Password: **MaterialV6.1.2**

NOTE 2: This third update requires **V3.98** MQC release. Please refer to below Team Platform page for MQC v3.98 update:

<https://3dsystems.teamplatform.com/pages/171023?t=kxa3oas6qngq>
Password: **SLSMQCv3.98**

Introduction:

This CIB list steps to follow for successful installation of new materials over V6.1.9 Sinter software for ProX SLS 500 printer.

Support for following new materials is added:

- **DuraForm® ProX® AF+** : The aluminum/mineral filled product for the ProX platforms
- **DuraForm® ProX® EX BLK** : The PA11 black powder for use on ProX Platform
- **DuraForm® ProX® FR1200** : The FR PA12 material for use on ProX Platforms

Each of these material support two modes: **SP** and **Advanced**.

SP mode controls the bounds of the ProX 500 system to ensure customer gets the performance they desire and removes some of the variability that could occur in the standard print process.

However some expert users desire an '**Advanced**' mode that would allow them to customize the performance of the system. These Advanced material configuration files address that need by increasing the allowed ranges for many parameter values.

CAUTION: It is the customers/users responsibility to validate results (such as part quality or mechanical properties) at the parameter values they use in '**Advanced**' mode.

Note that 3DSystem's Field Service may require use of **SP Mode** material configuration files during troubleshooting.

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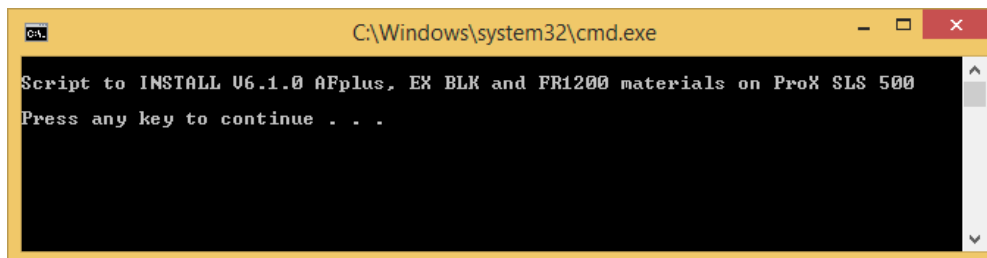
Installation Steps:

Download Steps:

- Download **ProXSLS500_V6.1.9_Update3.zip** from Team Platform: <https://3dsystems.teamplatform.com/pages/171014?t=xffks8blnfl8>
Password: **NewMaterialV6.1.0**
- Copy the downloaded zip file to the drive where you have Sinter Deployer already installed (**C** or **D** drive).
- Extract the zip. If you have Sinter installed in "C:\dtm" then extract to **C:**. Extracted path would be: "C:\ProXSLS500_V6.1.9_Update3"
- After extraction is complete, verify **ProXSLS500_V6.1.9_Update3** directory contains the following:
 - **dtm** directory
 - **InstallNewMaterialUpdate.bat**

Steps to install the update:

- If **BuildSetup** is running, save current build packet (if needed) and close **BuildSetup**.
- In case you are on the printer PC and build is **not** in-progress, then run **KillSinter.exe** to close **Sinter** and related applications.
- Run **InstallNewMaterialUpdate.bat**. You may see a security warning, please continue to run the batch file. On successful launch, you would see below window:



- Follow the steps listed in window displayed (Command Prompt).
- On successful installation, total **12 files** will be deployed :
 - 6 new material configuration files.

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- 3 new material guides.
- 3 “Tips and Info” CIBs.

```
C:\Windows\system32\cmd.exe
C:\ProXSLS500_06.1.9_Update3\dtm\config\material\ProX_SLS_500_DuraFormProX-AFplus_Advanced.cfg
C:\ProXSLS500_06.1.9_Update3\dtm\config\material\ProX_SLS_500_DuraFormProX-AFplus_SP.cfg
C:\ProXSLS500_06.1.9_Update3\dtm\config\material\ProX_SLS_500_DuraFormProX-EX_BLK_Advanced.cfg
C:\ProXSLS500_06.1.9_Update3\dtm\config\material\ProX_SLS_500_DuraFormProX-EX_BLK_SP.cfg
C:\ProXSLS500_06.1.9_Update3\dtm\config\material\ProX_SLS_500_DuraFormProX-FR1200_Advanced.cfg
C:\ProXSLS500_06.1.9_Update3\dtm\config\material\ProX_SLS_500_DuraFormProX-FR1200_SP.cfg
C:\ProXSLS500_06.1.9_Update3\dtm\doc\DuraForm ProX AFplus Customer Information Bulletin.pdf
C:\ProXSLS500_06.1.9_Update3\dtm\doc\DuraForm ProX EX BLK Customer Information Bulletin.pdf
C:\ProXSLS500_06.1.9_Update3\dtm\doc\DuraForm ProX FR1200 Customer Information Bulletin.pdf
C:\ProXSLS500_06.1.9_Update3\dtm\doc\Material\DuraForm_ProX_AFplus_Material_Guide.pdf
C:\ProXSLS500_06.1.9_Update3\dtm\doc\Material\DuraForm_ProX_EX_BLK_Material_Guide.pdf
C:\ProXSLS500_06.1.9_Update3\dtm\doc\Material\DuraForm_ProX_FR1200_Material_Guide.pdf
12 File(s) copied

Press any key to continue . . .
```

- At the end, you should see below screen if successful:

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```
C:\Windows\system32\cmd.exe
New 06.1.0 AFplus, EX BLK and FR1200 materials installed successfully
```



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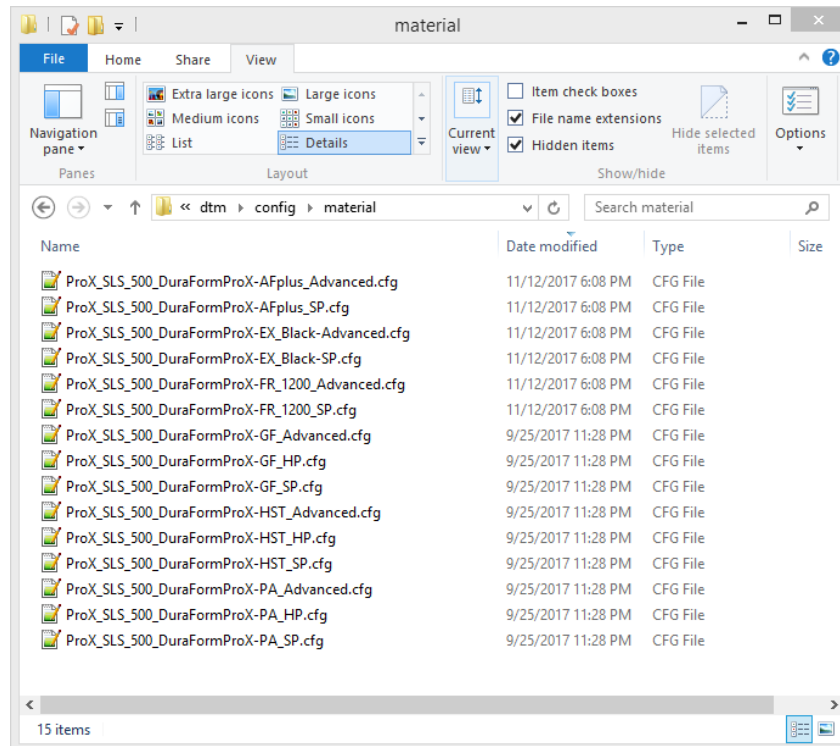
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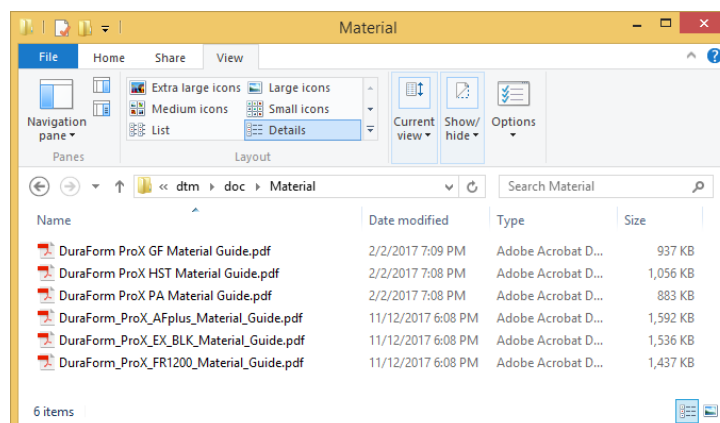
Verify if the update installed successfully:

- Verify if the files are copied in the right locations as shown in below screenshots.
 1. Material Configuration files under *dtm\config\material*:



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2. Material Guides under *dtm\docMaterial* :



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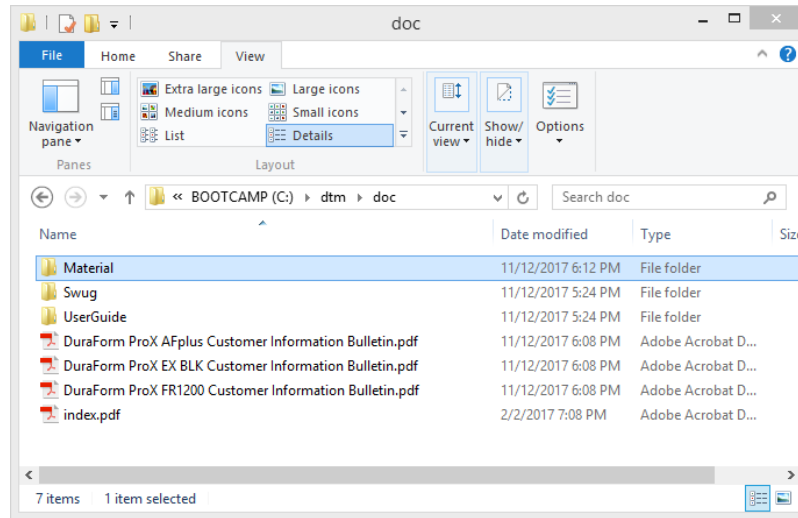
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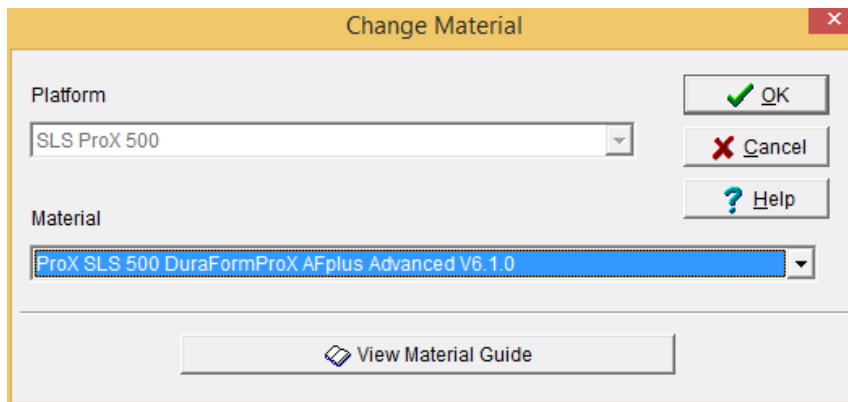
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3. “Tips and Info” CIB’s under *dtm/doc*:



- Launch **BuildSetup** to check if you see new **V6.1.0** AFplus, EX BLK and FR1200 material configurations, SP and Advanced mode (File >> Change Material).



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- On printer PC, before launching **Sinter** application, set correct material in **BuildSetup** (File >> Change Material...)
- Close **BuildSetup** after selecting the material for **Sinter** to see **BuildSetup** material as default.
- If you see issues setting the correct material in **Sinter**, then follow below steps to “sync” material:
 - After **Sinter** is running, go to “Machine” menu and select “Material Tracking”

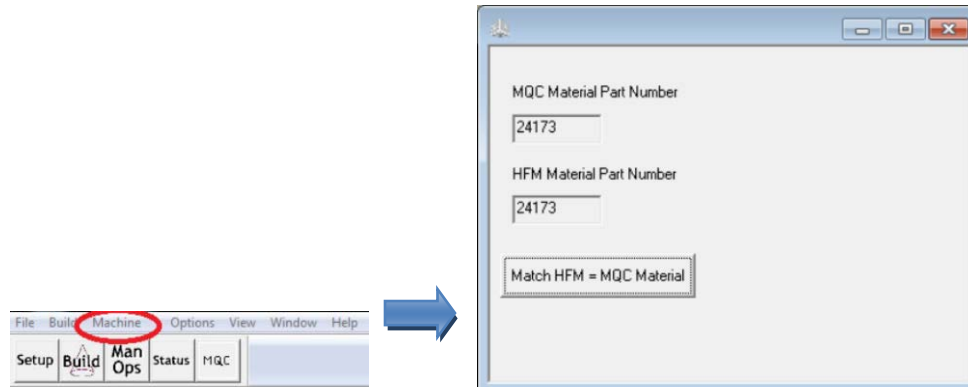


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- Click on “Match HFM = MQC Material” button.

This should display a success message.

- In case an unsuccessful message is displayed, please follow below steps:
 - Exit **Sinter** by running “**Kill Sinter**”
 - Go to “C:\dtm\config\machine” directory
 - Rename “machine.ovrl” file to “machine.old-ovrl”
 - Restart **Sinter** and go through material “sync” sequence again.

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