

Knowledge Base

Information



Abaqus/CAE plug-in to save beam section profiles

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QUESTION

I have created a number of beam section profiles in my model. Is there an option to save them so that they can be loaded in a different Abaqus/CAE model?

ANSWER

(The following applies to Version 6.8 and higher)

An Abaqus/CAE plug-in application for this purpose is attached below. This plug-in saves beam section profile information into XML format and allows you to import this XML object in the same or a different model.

Installation

Important: The latest XML core module must be installed before this plug-in can be used. Please refer to Answer [Abaqus/CAE plug-in for XML-based save and import of session-specific settings](#) for details about obtaining and installing the XML core module.

When the XML core module is installed, one of the following directories is created:

abaqus_dir\abaqus_plugins\caeXML where *abaqus_dir* is the Abaqus parent directory

home_dir\abaqus_plugins\caeXML where *home_dir* is your home directory

current_dir\abaqus_plugins\caeXML where *current_dir* is the current directory

Save the attached archive files in the caeXML directory where the XML core files have been saved.

On Windows platforms, right click on the archive file and select **WinZip** → **Extract to here**. On Linux platforms, type **unzip profiles.zip** at the command prompt. A folder, named profiles, and sub-folders will be extracted. Note that the plug-in will not function properly if this procedure is not followed.

Usage

1. Open an Abaqus/CAE model which has the profiles that you wish to export.
2. From any module, select **Plug-ins** → **Export/Import Manager...** to receive the following dialog:



3. In the **File name**: field enter the name of the file where the definitions will be exported. If the file does not exist, it will be created in the directory from which you launched Abaqus/CAE. If you wish to save the definitions in the current model database then select the **MDB** radio button. Or if you wish to save the definitions in any currently open output database then select the **ODB** option and choose appropriate ODB from the combo box.

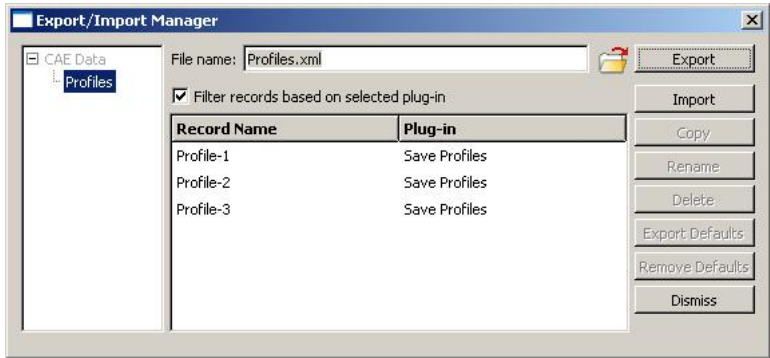
4. Select **Export** to receive the following dialog:



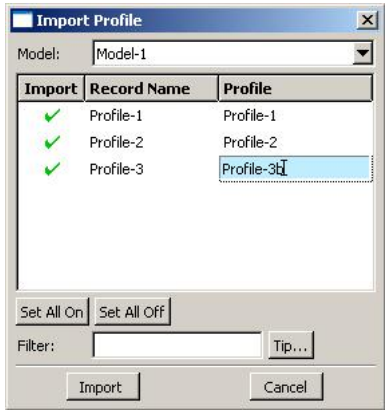
5. The dialog lists all currently defined profiles. Check the profiles you want to export or press **Set All On** if you want all of them to be exported.
6. In the above dialog, you may change the record names for the profiles that you want to export. For details on records and record names, please see Answer [Abaqus/CAE plug-in for XML-based save and import of session-specific settings](#).
7. Press **Export** to export.

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8. To load previously saved profiles, from any module select **Plug-ins** → **Export/Import Manager...** to receive the following dialog:



9. First select the appropriate XML, model database or output database file. Then select records that have been previously created by the **Profiles** plug-in. Select **Import**. This will invoke the following dialog:



10. You can change the profile names as appropriate and then press the **Import** button. Note that while importing in Abaqus/CAE, the plug-in may prompt you to overwrite existing profile definitions if the same profile name is found in the current session.

Notes

The XML schema used when storing object information may change in future releases of Abaqus/CAE. Thus, future versions of this plug-in may not be able to import XML files created from previous versions.

Disclaimer

The attachments to this article are subject to certain usage conditions. Please [click here](#) for details.

KEYWORDS save, profiles, plug-in, persistent, load, import, export, display, xml, file, translate, profile, s

ATTACHMENT

Answer_4023_Fig3.jpg

Answer_4023_Fig4.jpg

Answer_4023_Fig1.jpg

Answer_4023_Fig2.jpg

profiles.zip

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