Importing and Exporting Setting Files to/from XML Format

You can import and export setting files to and from XML format using the following commands:

- CATBatGenXMLSet
- CATBatImpXMLSet.

On Windows

1. Change to the default folder in which you installed the product.

On Windows, the default folder is:

`C:\Program Files\Dassault Systemes\B10\OS_a\code\bin`

where "OS_a" is:

- intel_a (Windows NT/2000/XP)
- win_a (Windows 98).

2. Enter the command:

`CATBatGenXMLSet`

or:

`CATBatImpXMLSet`

with the appropriate arguments.
On UNIX

1. Log on as root or end user.

2. Enter the command:

`/usr/DassaultSystemes/B10/OS_a/code/bin/CATBatGenXMLSet`

or:

`/usr/DassaultSystemes/B10/OS_a/code/bin/CATBatImpXMLSet`

with the appropriate arguments.

Exporting an XML Set from a Settings File

The CATBatGenXMLSet command reads any setting file and to generate an XML file from it. The syntax is:

CATBatGenXMLSet Output_directory SettingName [mode]

The arguments are:

- **Output_directory**: name of the directory where the XML file will be created. Example: /tmp.
- **SettingName**: name of the CATSettings file (without the `.CATSettings` extension) that you want to export to XML format. Example: CATStatistics.
- **mode**: optional argument, specify `-admin` in order to run the command in administrator mode. The default mode is user mode. No extension.

Batch Output

The name of the resulting file is SettingName.xml.

Example

```
CATBatGenXMLSet /tmp Statistics
```

Example of output

Let's say we have a settings file named Example.CATSettings comprising the following attributes:

```
Length of type float explicitly set to 17.132
Weight of type long not explicitly set (code default)
Number of type integer explicitly set to [1,2,3]
```

The resulting XML file will be as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE CATSettingRepository [
<!ELEMENT CATSettingRepository (Attribute*)>
<!ATTLIST CATSettingRepository Name NMTOKEN #REQUIRED>
<!ELEMENT Attribute (Value*)>
<!ATTLIST Attribute Name NMTOKEN #REQUIRED
Type CDATA #REQUIRED
Size NMTOKEN #REQUIRED
Lock (Locked|JustLocked|Unlocked) "Unlocked">
<!ELEMENT Value (#PCDATA)>
```

```
]>
<CATSettingRepository Name="Example">
<Attribute Name="Length" Type="float" Size="1">
<Value>17.132</Value>
</Attribute>
<Attribute Name="Weight" Type="long" Size="0">
</Attribute>
<Attribute Name="Number" Type="int" Size="3">
<Value>1</Value>
<Value>2</Value>
<Value>3</Value>
</Attribute>
</CATSettingRepository>
```

Note that a size of 0 means that the attribute has not been explicitly modified anywhere in the concatenation. Its value is also the default value of the code.

Importing an XML Set to a Setting File

The CATBatImpXMLSet command reads an XML settings set and generates the settings in the current V5 environment from it.

CATBatImpXMLSet XML_File [mode]

The arguments are:

- **XML_File**: path of the XML file to import into the current V5 environment. Example: /tmp/CATStatistics.xml.
- **mode**: optional argument, specify -admin in order to run the command in administrator mode. The default mode is user mode.

Batch Output

The output is a settings file in the user settings repository of the current V5 environment, for example Statistics.CATSettings.

Example

```
CATBatImpXMLSet /tmp/Statistics.CATSettings
```

We recommend that you do not edit the XML files manually, since the syntactical coherence of setting files is guaranteed by the interactive `Tools->Options...` command.

We advise that you use this export/import facility simply as a means of capturing the state of your configuration settings at a specific point in time, for the purpose of restoring the same settings for another configuration.