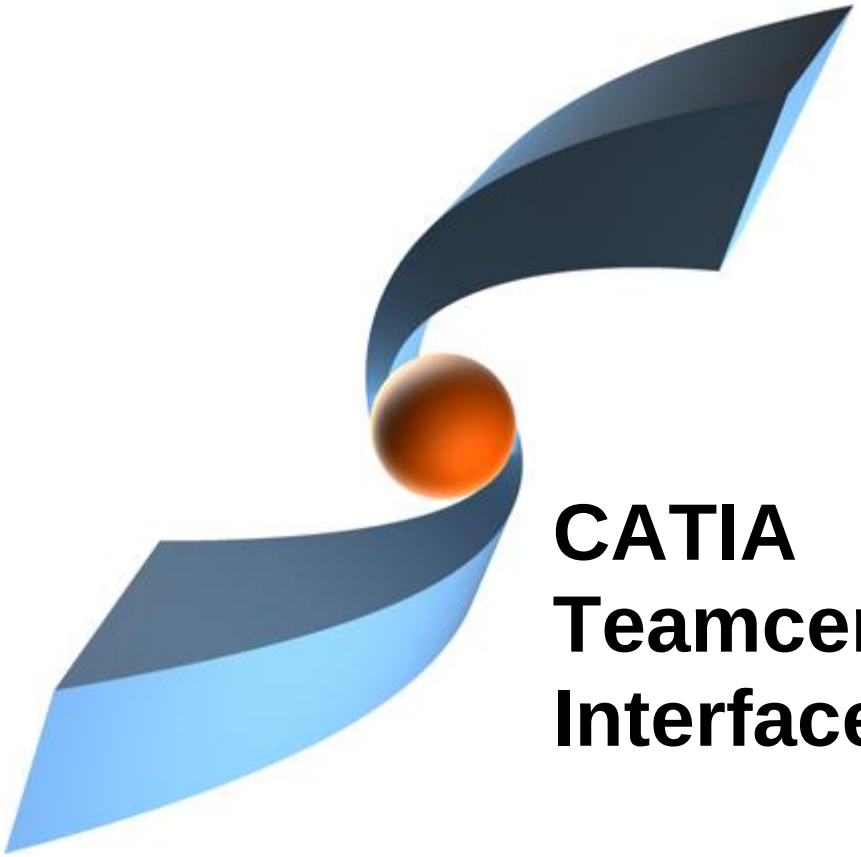

CATIA Teamcenter Interface

CMI Release 10.0

Release Notes

Copyright

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Manual History

Version	Date
10.0	October 2011

This edition obsoletes all previous editions.

Trademarks

Preface

About this Guide

This guide provides general release information for the CATIA Teamcenter Interface.

Related Documents

The following manuals contain information about installation and administration of the CATIA Teamcenter Interface:

Manual Title	Release
CATIA Teamcenter Interface Installation & Administration Guide	10.0
CATIA Teamcenter Customizing Guide	10.0
CATIA Teamcenter User's Guide	10.0

Your Comments are Welcome

Your comments on our publications are welcome. Please write us at:

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Table of Contents

CHAPTER 1

Platform Support

Supported platforms

HP-UX 11

Sun Solaris 8 (10[1])

IBM AIX 5.3 32 bit / 64 bit

SGI Irix 6.5

Windows XP 32 bit / 64 bit, Windows 7 64 bit

SuSE Enterprise 9.0[2] / SuSE Enterprise 10/11[23]

Supported Teamcenter Releases

Teamcenter 5.1

Teamcenter 2007[1]

Teamcenter 8.1 MP01[345]

Supported Catia V4 Releases

CATIA V4.2.0 – V4.2.4

CATIA V4.2.5[1]

Supported Catia V5 Releases

CATIA V5R19

CATIA V5R20[4]

CATIA V5R21[6]

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[1] Solaris 10 replaces Solaris 8
[2] TC server side only
[3] SuSE Enterprise 10 / SuSE Enterprise 11 replaces SuSE Enterprise 9.0 for TC 8.1
[4] Added Windows 64 Bit Server / Client
[5] AIX6.1 replaces AIX 5.3
[6] Only supports Win XP/7 and AIX 6.1

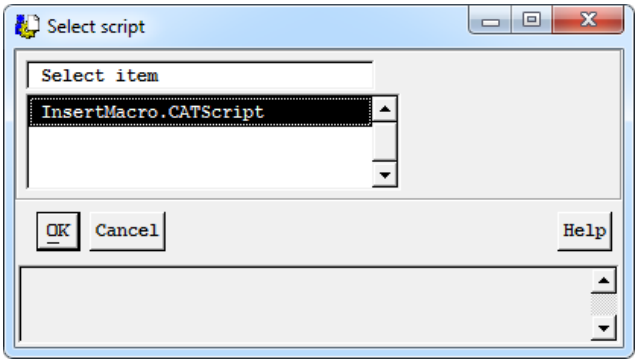
CHAPTER 2

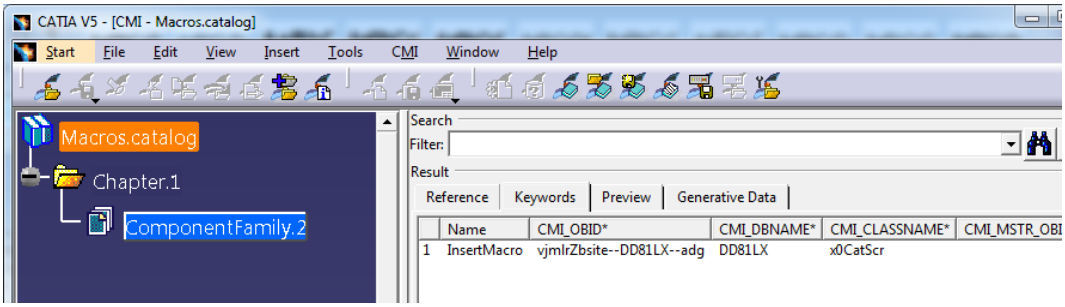
Functional Changes

Use of CATScript Macros in Catalog

CATScript files can now be registered in Teamcenter with the *CATIA Script* class.


New *Insert CATScript from Teamcenter* command allows insertion of CATScripts from Teamcenter into Teamcenter managed catalogs.



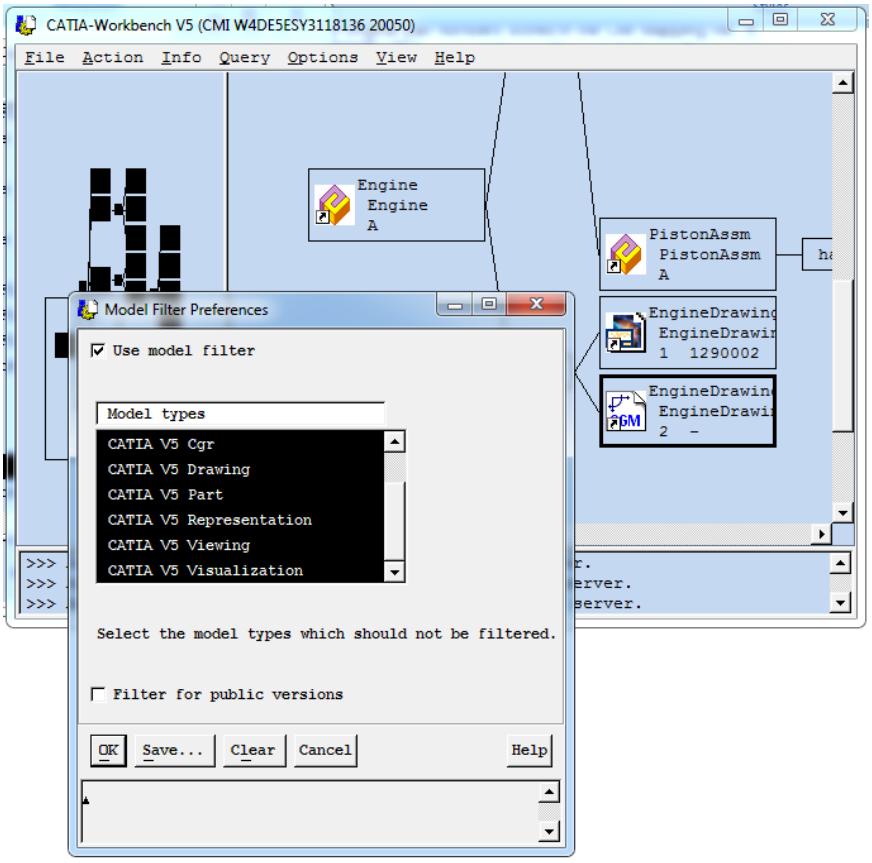


Configuration

Set CMI_ENABLE_CMICATALOGINSERTSCRIPTCMD=ON in the CATIA environment.

Support of CGM type files

CMI now supports the Teamcenter OOTB class *CGM:Computer Graphics Metafile* from the Industry Standard Classes for basic Read and Update operations with CATIA V5.



Configuration

Set CMI_ENABLE_CGM=ON in the CATIA environment. This will enable the Update, Synchronize, Save As and Save for Doc commands if a CGM is the active document in CATIA.

Customizable naming schemes for Export

When Catia files are sent to a partner, it is often necessary to enrich the file names with information – like eg. appending the revision number. The Export functionality has been enhanced with an option to customize the file names when files are exported.

Configuration

Set CMI_EXPORT_CUSTOMIZE_NAMING=ON in the CATIA environment to enable the customization hook. Override the Teamcenter methods *x0WkBnch:x3GetExportRefNames* and *x0WkBnch:x3GetExportInstName* to implement your naming scheme.

Component handling

In general, a CATIA component – that is not a CATProduct - cannot be synchronized to Teamcenter, since the component is local to its CATProduct and cannot be mapped to a Part in the BOM (as Parts are required to be reusable in different Assemblies)

However, CATIA components can be skipped or ignored by CMI based on a configuration, to support specific use cases. CMI 10.0 expands the possible use cases with new configuration options:

- Skip Component based on the type of feature (eg. Wire Bundle)
- Identify Node type based on its instance name, rather than part number
- Option to ignore all components that have no children

Configuration

In the CMI-Configuration-File in the section "`ConfigurableBehaviors`" a node can have the tag "`ProductType`", e.g.:

```
<ConfigurableBehavior UniqueID="t0">
      <BehaviorType>EmbeddedNodeBehavior</BehaviorType>
      <ProductType>ElecWireGroup</ProductType>
      <Behavior>SkipNode</Behavior>
</ConfigurableBehavior>
```

If the above configuration is set, an embedded CATProduct of the type *ElecWireGroup* will be skipped in CMI-Synchronize.

→To facilitate configuration, the feature type of components is shown in the CMI Info dialog.

To ignore or skip component nodes based on their instance name the tag `InstanceNamePrefix` is introduced:

```
<ConfigurableBehavior UniqueID = "EmbeddedNode_IgnInst">
      <BehaviorType>EmbeddedNodeBehavior</BehaviorType>
      <PartNumberPrefix></PartNumberPrefix>
      <InstanceNamePrefix>XY_</InstanceNamePrefix>
      <Behavior>IgnoreNode</Behavior>
</ConfigurableBehavior>
```

This example will ignore components where the instance name begins with "XY_".

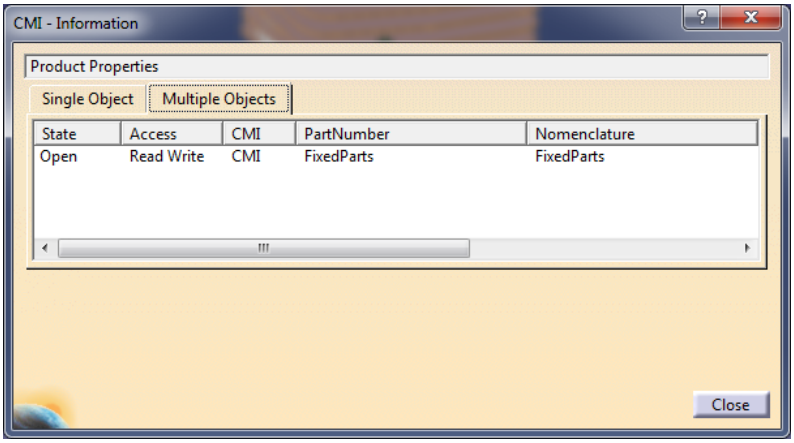
To generally ignore – and hence admit - components that do not have child nodes, set the variable CMI_IGNORE_EMBEDDED_LEAFNODE=ON in the CATIA environment.

CHAPTER 3

General Enhancements

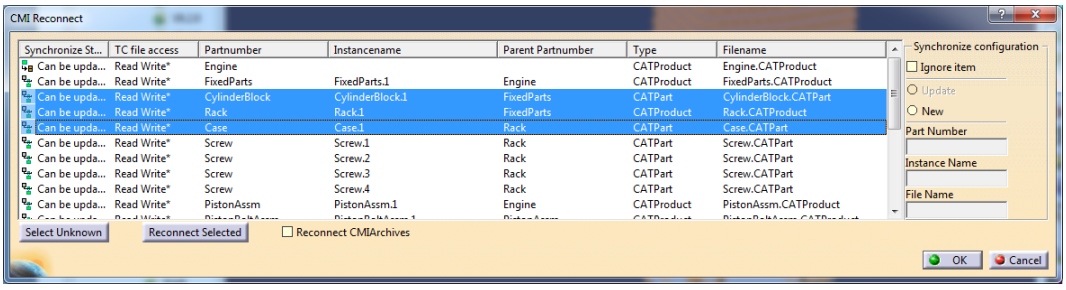
CMI Info list view enhancement

The *Multiple Objects* view in the CMI Info dialog is now available even if only a single node is selected in Catia.



Multiselection Reconnect

In the Reconnect dialog you can now apply the Synchronize configuration options for multiple selected items. This facilitates eg. to mark an assembly with all its subassembies as New, to make a deep copy of an assembly structure.



CHAPTER 4

New Customizing Points

New class constants

New customizing messages

To support customizable naming schemes for Export, three new customizing methods are introduced:

```
class message x0WkBnch:x3GetExpNamingSchema(
   input :      string   classname         ::
   input :      string   rootPartNumber    ::
   input :      string   rootPartObid      ::
   input :      string   rootPartClass     ::
   input :      string   rootPartDbName    ::
   input : NULL string   mappingFileObid   ::
   input : NULL string   mappingFileClass  ::
   input : NULL string   mappingFileDbName ::
   output:      string   *expNamingSchema  ::
   output:      SetOfStrings *pStats       ::
   output:      integer  *mfail);
```

This method will be called once for the export. It is meant to be implemented if the user needs to be given a choice of different naming schemes, eg. for different partners. A string is returned that identifies the naming scheme.

```
class message x0WkBnch:x3GetExportRefNames(
   input :      string   classname           ::
   input :      string   expNamingSchema     ::
   input :      string   tcPartNumber        ::
   input :      string   tcObid              ::
   input :      string   tcClassname         ::
   input :      string   tcDbName            ::
   input :      string   catFileName         ::
   input : NULL string   catNomenclature     ::
   input : NULL string   catRevision         ::
   input : NULL string   catDefinition       ::
   input : NULL string   catDescription      ::
   input : NULL string   extPartNumber       ::
   input : NULL string   extFileName         ::
   input : NULL string   extNomenclature     ::
   input : NULL string   extRevision         ::
   input : NULL string   extDefinition       ::
   input : NULL string   extDescription      ::
   output:      string   *partNumber         ::
   output:      string   *fileName           ::
   output:      string   *nomenclature       ::
   output:      string   *revision           ::
   output:      string   *definition         ::
```

```
   output:      string   *description         ::
   output:      SetOfStrings *pStats          ::
   output:      integer  *mfail);

class message x0WkBnch:x3GetExportInstName(
   input :      string   classname            ::
   input :      string   expNamingSchema      ::
   input :      string   relObid              ::
   input :      string   matrixIndex          ::
   input :      string   catInstanceName      ::
   input : NULL string   extInstanceName      ::
   output:      string   *instanceName        ::
   output:      SetOfStrings *pStats          ::
   output:      integer  *mfail);
```

These methods will be called for each file. The identifier you returned in `x3GetExpNamingSchema` is supplied.

For more information see the CMI Customization manual.

Two messages have been introduced for CATScript support. Override `x3GetScriptForInsClg` to change the way the Script is queried for insertion into the catalog:

```
class message g0GenBin:x3GetScriptForInsClg(
  input:        string       classname        ::
  input:   NULL string       sOldFilename     ::
  input:   NULL string       sOldDescription  ::
  input:   NULL string       sOldObid         ::
  input:   NULL string       sOldClassname    ::
  input:   NULL string       sOldDbName       ::
  input:   NULL string       sOldMstrObid     ::
  input:   NULL string       sOldMstrClassname::
  input:   NULL string       sOldMstrDbName   ::
  output:       ObjectPtr    *scriptObj       ::
  output:       string       *sMstrObid       ::
  output:       string       *sMstrClassname  ::
  output:       string       *sMstrDName      ::
  output:       string       *sErrorMsg       ::
  output:       integer      *mfail
      );
```

Override `x3GetScriptForUseClg` to change the way the script is retrieved when the catalog is used:

```
class message g0GenBin:x3GetScriptForUseClg (
  input:        string       classname       ::
  input:        string       sObid           ::
  input:        string       sClassname      ::
  input:        string       sDbName         ::
  input: NULL   string       sMstrObid       ::
  input: NULL   string       sMstrClassname  ::
  input: NULL   string       sMstrDbName     ::
  output:       ObjectPtr    *scriptObj      ::
  output:       string       *sErrorMsg      ::
  output:       integer      *mfail
      );
```

For more information see the CMI Customization manual.

CHAPTER 5

Data Model Changes

Class x0CatScr

define class x0CatScr with parent g0GenScr;

Persistent Dataitem class for CATScript files.

Class x0CatCgm

define dynamic class x0CatCgm with parent x0CT5Fle;

This is a dynamic wrapper class to handle CGM files CMI.

CHAPTER 6

Bug Fixes

If you encounter any problems please contact us at *cmi_support@t-systems.com*