

Configuration

EB GROUP

How to debug customised Save Manager using Eclipse

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1 User Story

Teamcenter Integrated for CATIA (TcIC) provides (OOTB) Save Manager to the customer with a powerful & customizable xml engine to meet the Customer's business needs & to provide easy data.

The Customer has opted to customize their TcIC Save Manager UI using "Save Manager Entry Point Customization" method using Eclipse. Their requirement is to debug their already customized Save Manager with Eclipse & directly test the reflected changes. This can be achieved by hooking TcIC RACLess connection to Eclipse for debugging.

2 Deliverables

2.1 Configuration

 Workflow 	BMIDE	
 Preferences 	 Additional Objects 	
 Organization 	 Additional Relations 	
 Groups and Roles 	 Change Objects 	
o ACL	 Change Relations 	
 Display Rule 	o GRM Rules	
 Transfer mode 	 Deep Copy Rules 	
Style sheet	 Naming Rules 	
• LOV	Reports	
 Templates 	Queries	
Closure Rules	Other – CATIA Configuration	
 SQL-Scripts 	Attribute Mappings	



3 Methodology

3.1.1 Environment Details

O.S.: Windows 10, 64Bits.

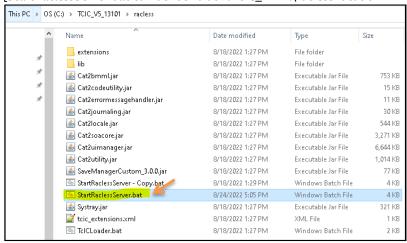
Teamcenter: 13.1, 4T, 64-bit

CATIA: V5 R31, SP2, 64 Bits.

TcIC: 13.1.0.1_build2022061614

3.1.2 Configuration

1. Open "StartRaclessServer.bat" in Notepad++.
[StartRaclessServer.bat can be found at %TcIC_DIR%\racless location.



- In Notepad++, modify line 71 where Developer have to add java « server » that will allow Eclipse to hook on to your RACLESS process (for debugging purpose):
 - -agentlib:jdwp=transport=dt_socket,address=8000,server=y,suspend=n

Before (Line 71):

set RACLESS_CMD= "%JRE_HOME%\bin\java" -javaagent:%RACLESS_DIR%\Cat2soacore.jar -Xms256M -classpath "%RACLESS_JAVA_CLASSPATH%" %MAINCLASS% %*

After (Line 71, highlighted line is added):

```
71 set RACLESS_CMD= "%TE HOME%\bin\java" -javaagent:%RACLESS_DIR%\Cat2soacore.jar -Xms256M -agentlib:jdwp=transport=dt_socket,address=8000,server=y,suspend=n -classpath "%RACLESS_DAVA_CLASSPATH%" %MAINCLASS% %*
```

- 3. Connect to TcIC RACLess connection to Teamcenter via Command Prompt.

 [Note: Avoid connecting racless connection using TcIC Save Process as Developer will need to hook Eclipse before being able to debug TcIC Save Manager.]
 - a) Open a new Command Prompt and add the following command line with parameters as shown below, press enter to launch StartRaclessServer.bat:
 "%TCICV5_DIR%\racless\StartRaclessServer.bat" -u=<user_id> -p=<password> -q=<qroup>

```
E.g.
C:\Users\Administrator>"%TCICV5_DIR%\racless\StartRaclessServer.bat" -u=dba_rsa -p=dba_rsa -g=dba
Listening for transport dt_socket at address: 8000
TSP Binding Implementation 1.0.0(1.0.0) initialized.
```

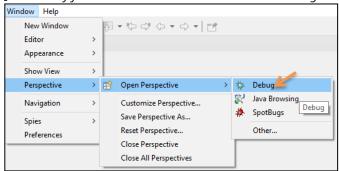


b) Open another new Command Prompt and add the following command line with parameters as shown below, press enter to launch DoLoginRACLessAction command: "%TCICV5_DIR%\bin\WIN32\SocketV5.exe" DoLoginRACLessAction o 11400 - u=<user_id> -p=<password> -q=<qroup>

E.g.
C:\Users\Administrator>"%TCICV5_DIR%\bin\WIN32\SocketV5.exe" DoLoginRACLessAction 0 11400 -u=dba_rsa -p=dba_rsa -g=dba
This method will create a RACLess connection between Teamcenter & TcIC

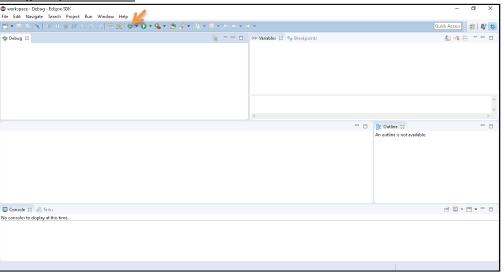
4. Once RACLess connection has been established between TcIC CATIAV5 & Teamcenter, launch Eclipse. Select "Window Menu -> Perspective -> Open Perspective -> Debug" to add debugging « stop points » in java project custom code.

[Note: Every further action will have to be done in a "Debug Perspective".]



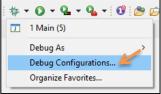
CATIAV5 via command line.

Debug Perspective Panel:



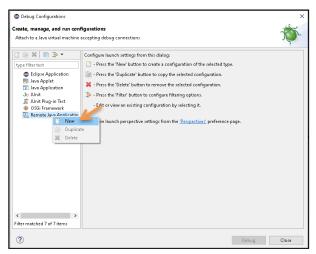
5. In Debug Perspective Panel, Developer has to hook Eclipse to TcIC RACLess.

Select **Debug New_Configurations** and click on "**Debug Configurations**..." in the contextual menu which will open Debug Configuration Window.

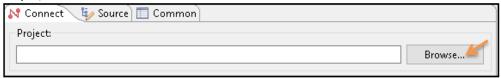


6. In Debug Configurations Window, select "Remote Java Application" and right click to select New to create a configuration of the selected type.

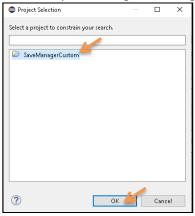




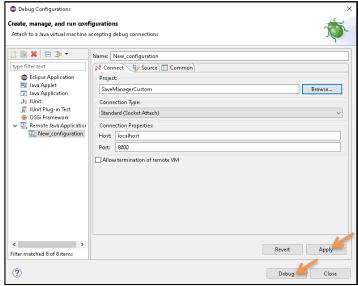
7. In Debug Configurations window "Connect" Tab, select the existing Save Manager project in Eclipse, click on Browse...



And select your existing SaveManagerCustom project to add, click OK.



8. Click on **Apply** & **Debug** to connect TcIC RACLess connection. This will make code to stop on the defined stop points for debugging.





3 Result

Developer can debug & test their already customized Save Manager with Eclipse directly.

