

Cross-component trace lab

What this exercise is about	1
Lab requirements	1
What you should be able to do	1
Introduction	2
Part 1: Cross-component trace features	3
Part 2: Preparation for cross-component trace lab	10
Part 3: Enable cross-component trace.....	13
Part 4: Testing the loan application.....	16

What this exercise is about

The objective of this lab is to provide you with an understanding of the IBM WebSphere Process Server new feature called Cross-Component Trace. In this lab you will deploy the WebSphere Integration Developer sample Loan Application. Then WebSphere Integration Developer test environment will be enabled to use cross-component trace. The trace and log files produced from cross-component trace will be used to correlate the SCA components interaction as it executes.

This lab is provided **AS-IS**, with no formal IBM support.

Lab requirements

List of system and software required for the student to complete the lab.

- WebSphere Integration Developer version 6.2
- The Test Client must be installed in WebSphere Integration Developer.

What you should be able to do

At the end of this lab you should be able to:

- Configure WebSphere Test Environment or Process Server to enable Cross Component trace.
- Interpret the information from the trace.

Introduction

Cross-component tracing allows you to identify trace.log data that is associated with WebSphere Process Server and WebSphere Enterprise Service Bus modules and components. The trace.log data can include error and event information, such as corrupted data or runtime exceptions, captured during Service Component Architecture (SCA) processing. The input and output data passing between WebSphere Process Server or WebSphere Enterprise Service Bus components can also be captured and used for problem determination using WebSphere Integration Developer.

Part 1: Cross-component trace features

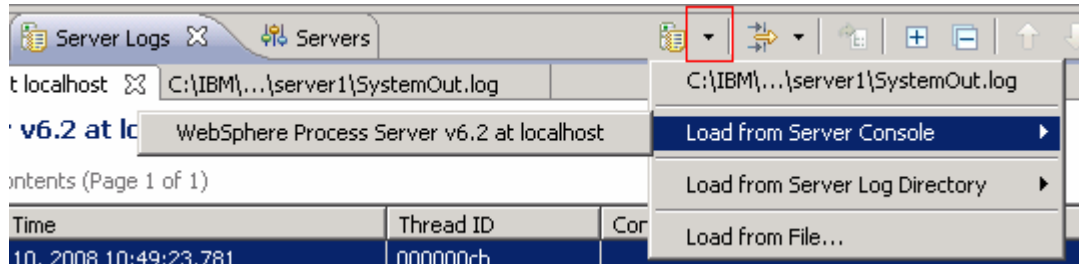
Cross component trace (XCT) provides the following features:

- XCT maps Systemout.log and Trace.log records back to the SCA programming model.
- Supports all SCA call patterns:
 - ▶ Async one way
 - ▶ Sync
 - ▶ Async with call back
 - ▶ Async with deferred response
- Works with BOs or simple data types as parameters.
- Supports Network Deployments
 - ▶ Load files from each server
 - ▶ May load only some of the files from all the servers
- Supports BPEL Micro flows (short running, async)
- Can use WebSphere Integration Developer test client trace from log record data

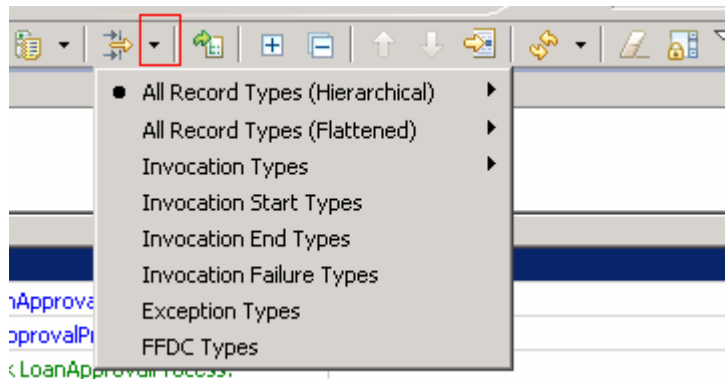
Cross component trace options provide you with the following:

- Enable:
 - ▶ Captures the SCA call chain for all SCA calling types.
 - ▶ Call chains start when there is an SCA call.
 - ▶ Call chains do not include non-SCA bindings such as JMS, HTTP, Web services. The call chains will continue for work done after those imports are called.
 - ▶ Log records not included in an SCA call chain are grouped into default chains and can still be displayed.
- Enable with data capture:
 - ▶ Same as Enable, but SCA input, output, and failure data is captured as well.
 - ▶ Captured data is saved in the Logs\xct directory as serialized XML of the SCA Message.
 - ▶ Removal of the captured data is up to you when it is no longer needed.
 - ▶ Captured data can be displayed in the WebSphere Integration Developer test client and used to rerun all or parts of the call chain.
- The Disable and Delete options are describe in the WebSphere Process Server 6.2 information center.

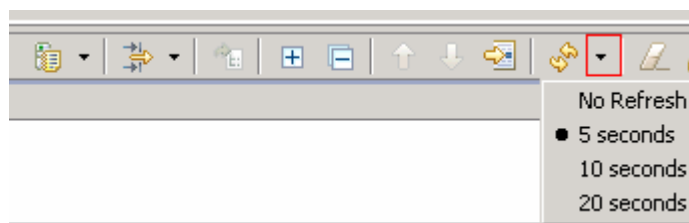
- XCT analyzes local or remote logs. XCT defaults to server console of the running WebSphere Test Environment (WTE). WebSphere Process Server and optionally WebSphere Enterprise Service Bus servers come as default WTEs.



- There are several different filters that allow you specified views of the data.



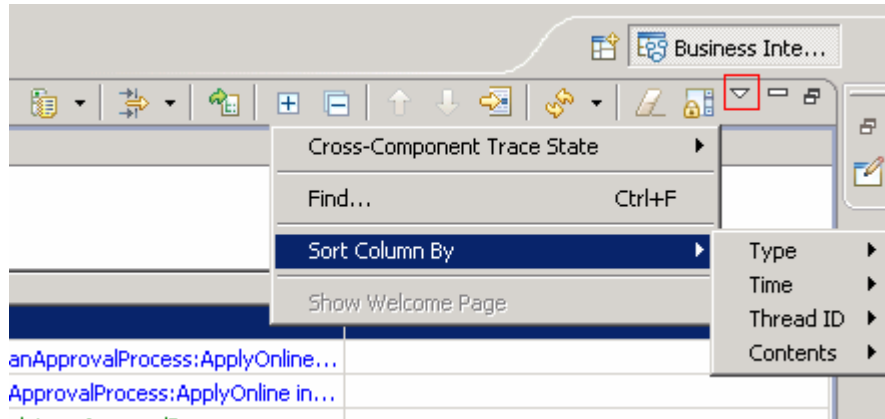
- The information is refreshed at assorted rates. The default is for the view to be updated every five seconds.



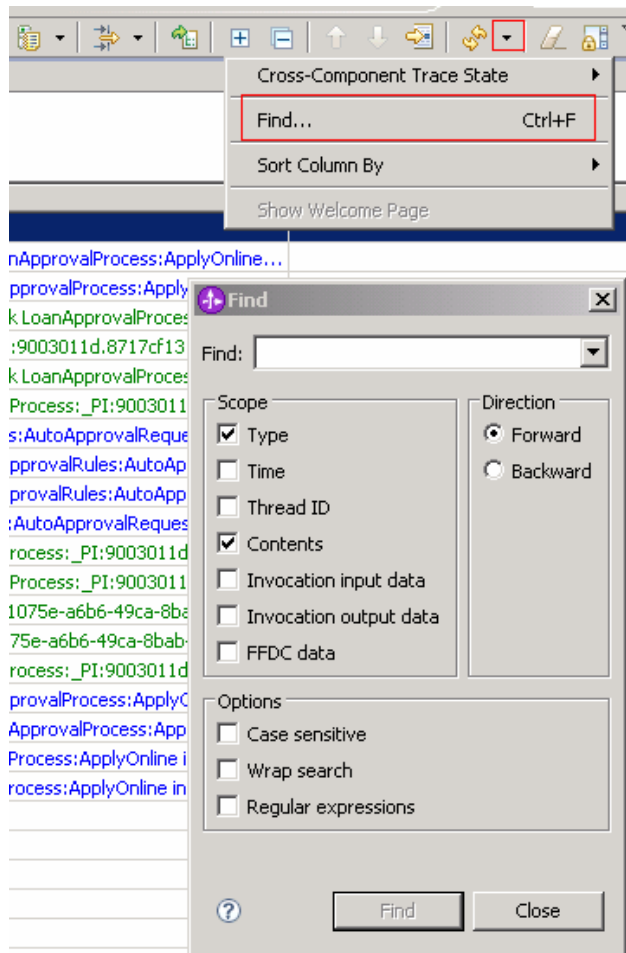
- The tool are has expand/collapse and page up/down buttons to navigate large traces. Note: Remember to use the up and down arrow buttons to flip pages.



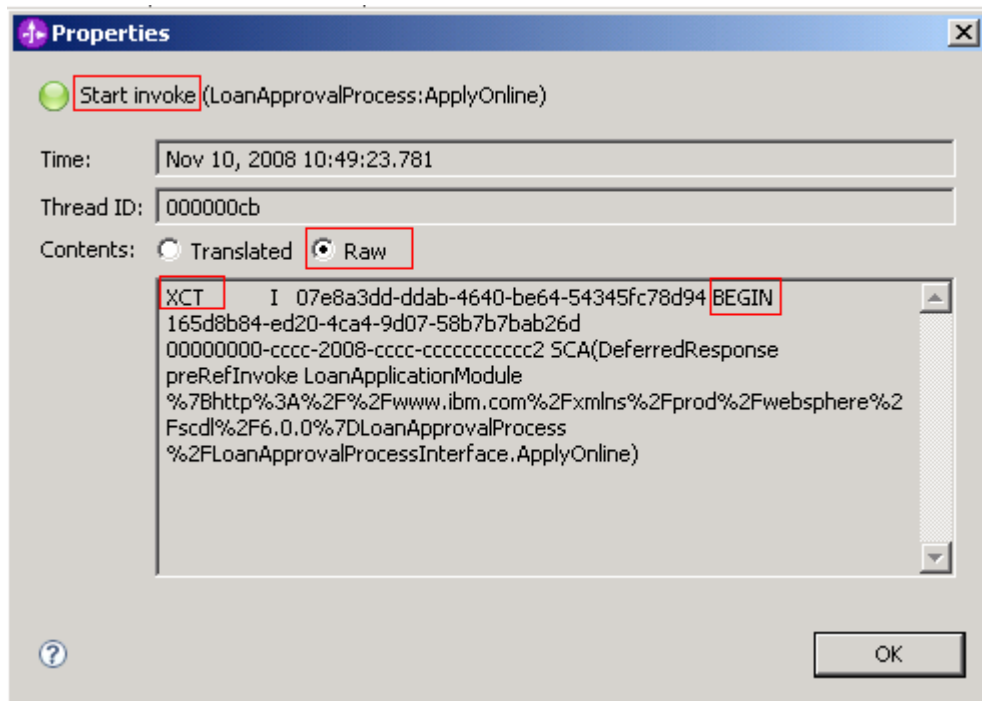
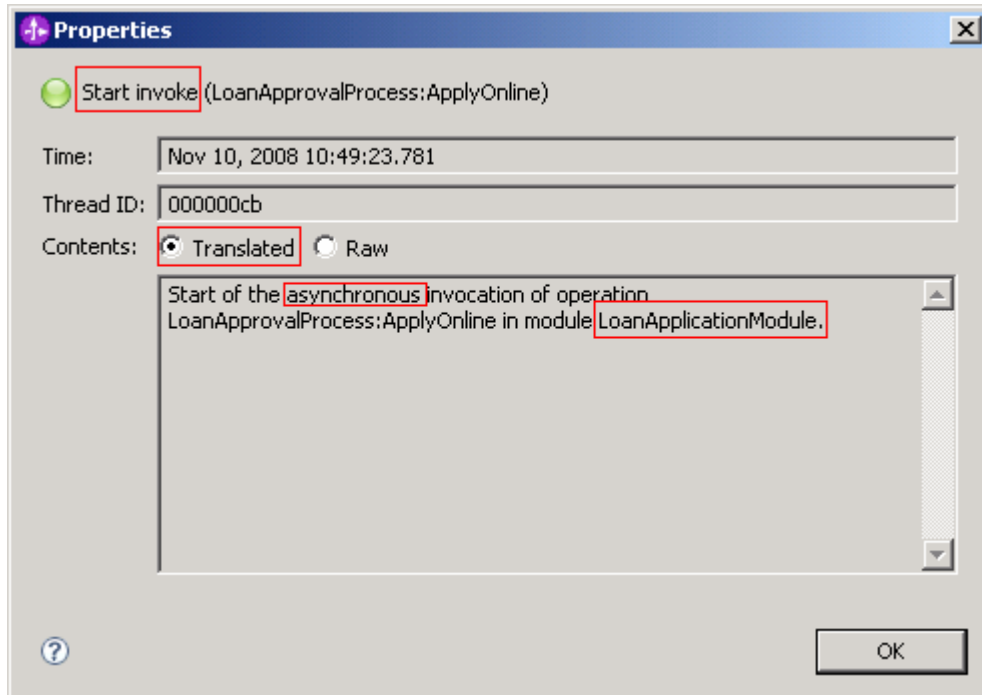
- To sort the log entries click the table headings inside the Server Log View or use the icon in red below and chose Sort by Column.



- The XCT find feature will search all content, even content hidden in the log entry properties.



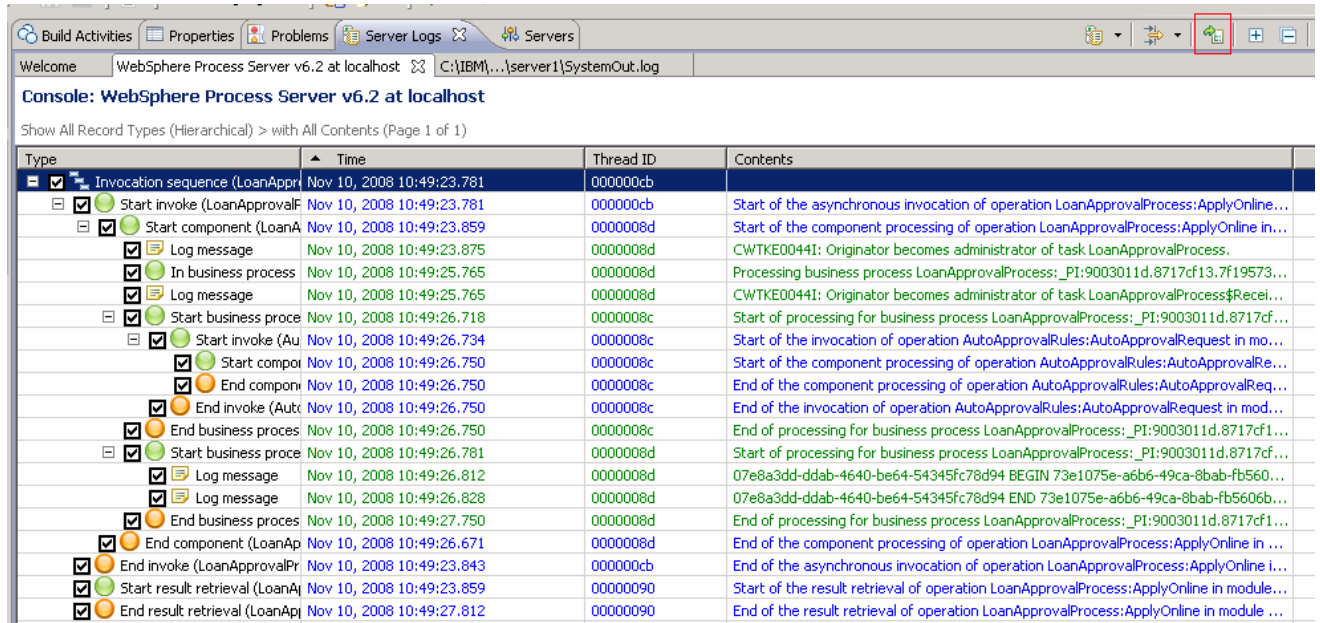
- To access log entry properties, either double click any entry in the Server Log view or right click any entry in the Server Log View and chose Properties. The properties for that event are shown. A new feature in 6.2 is the “raw” option. The XCT tag will be present in the raw data if the entry was generated by Cross-Component Trace.




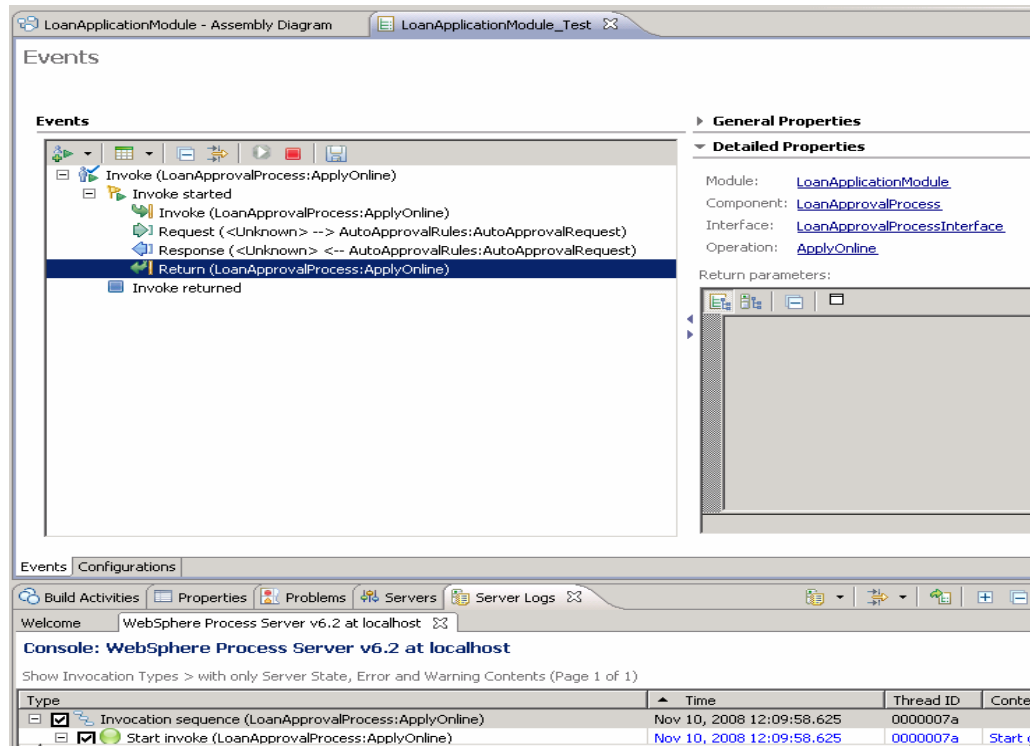
- The bottom of the XCT screen is a status bar. The status bar shows refresh rate, server status, and if cross-component trace is enabled



- By selecting a check box next to an event you are interested in further testing, you can create a replay scenario in the Test Client.



- Once you click  you will see the Server Log View populate the Test Client (or ITC – Integrated Test Client) with the selected scenario to make it re-runnable:



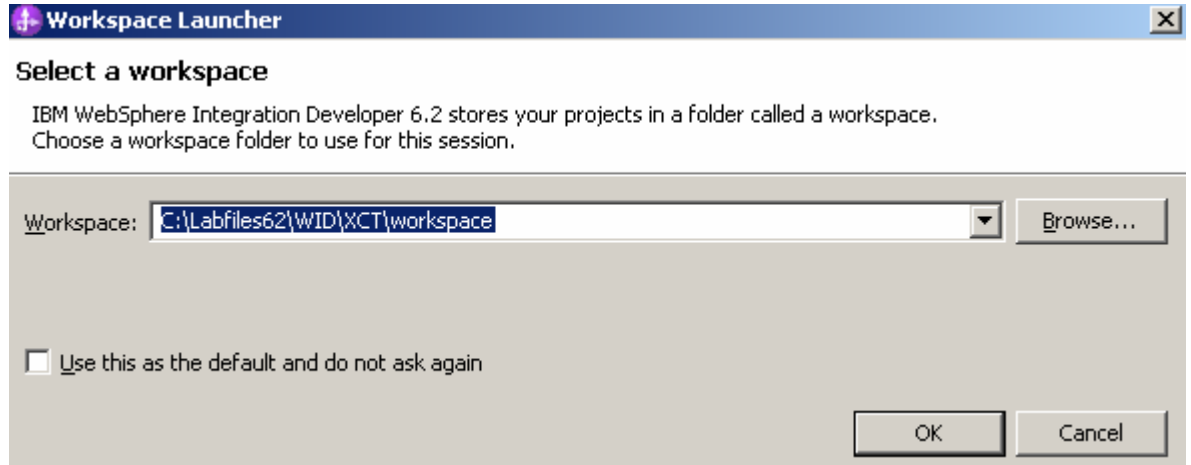
The screenshot displays the IBM WebSphere Process Server console interface. At the top, there are two tabs: "LoanApplicationModule - Assembly Diagram" and "LoanApplicationModule_Test". The main area is divided into several panes:

- Events:** A tree view showing the execution flow of the "LoanApprovalProcess:ApplyOnline" scenario. The events listed are:
 - Invoke (LoanApprovalProcess:ApplyOnline)
 - Invoke started
 - Invoke (LoanApprovalProcess:ApplyOnline)
 - Request (<Unknown> --> AutoApprovalRules:AutoApprovalRequest)
 - Response (<Unknown> <-- AutoApprovalRules:AutoApprovalRequest)
 - Return (LoanApprovalProcess:ApplyOnline)
 - Invoke returned
- General Properties:** A section for viewing details about the selected event.
- Detailed Properties:** Shows specific details for the "ApplyOnline" operation:
 - Module: [LoanApplicationModule](#)
 - Component: [LoanApprovalProcess](#)
 - Interface: [LoanApprovalProcessInterface](#)
 - Operation: [ApplyOnline](#)
- Return parameters:** A section for viewing return parameters, currently empty.
- Console:** Shows the server's output for "WebSphere Process Server v6.2 at localhost". It includes a table of invocation events:

Type	Time	Thread ID	Conte
Invocation sequence (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:09:58.625	0000007a	
Start invoke (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:09:58.625	0000007a	Start

Part 2: Preparation for cross-component trace lab

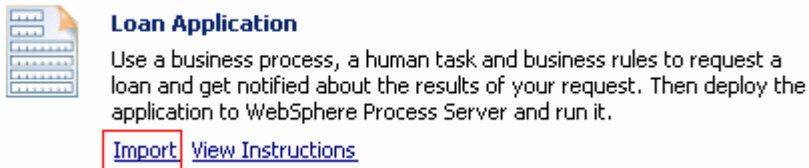
- ___ 1. Start WebSphere Integration Developer with a new workspace to hold the work you will do in this lab.
 - ___ a. Select **Start > All Programs > IBM WebSphere Integration Developer > IBM WebSphere Integration Developer V6.2 > WebSphere Integration Developer V6.2**
 - ___ b. From the Workspace Launcher window, enter **C:\Labfiles62\WID\XCT\workspace** for the Workspace field



- ___ 2. Click Samples and Tutorials



___ a. Click Loan Import.

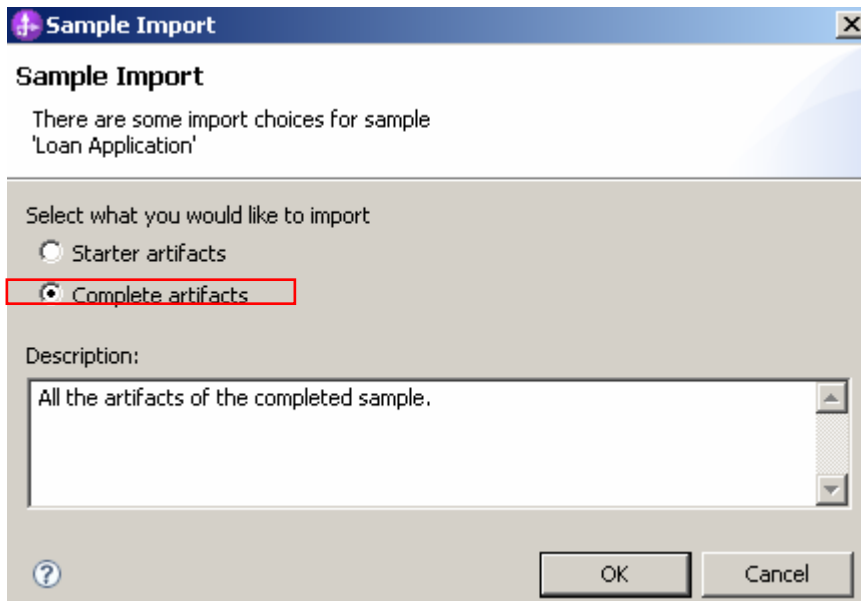


Loan Application
Use a business process, a human task and business rules to request a loan and get notified about the results of your request. Then deploy the application to WebSphere Process Server and run it.

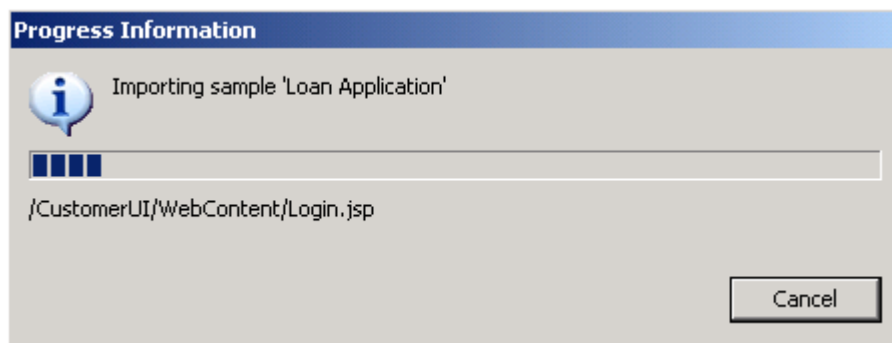
[Import](#) [View Instructions](#)

NOTE: If you are un-familiar with the Loan Application Sample explore [View Instructions](#)

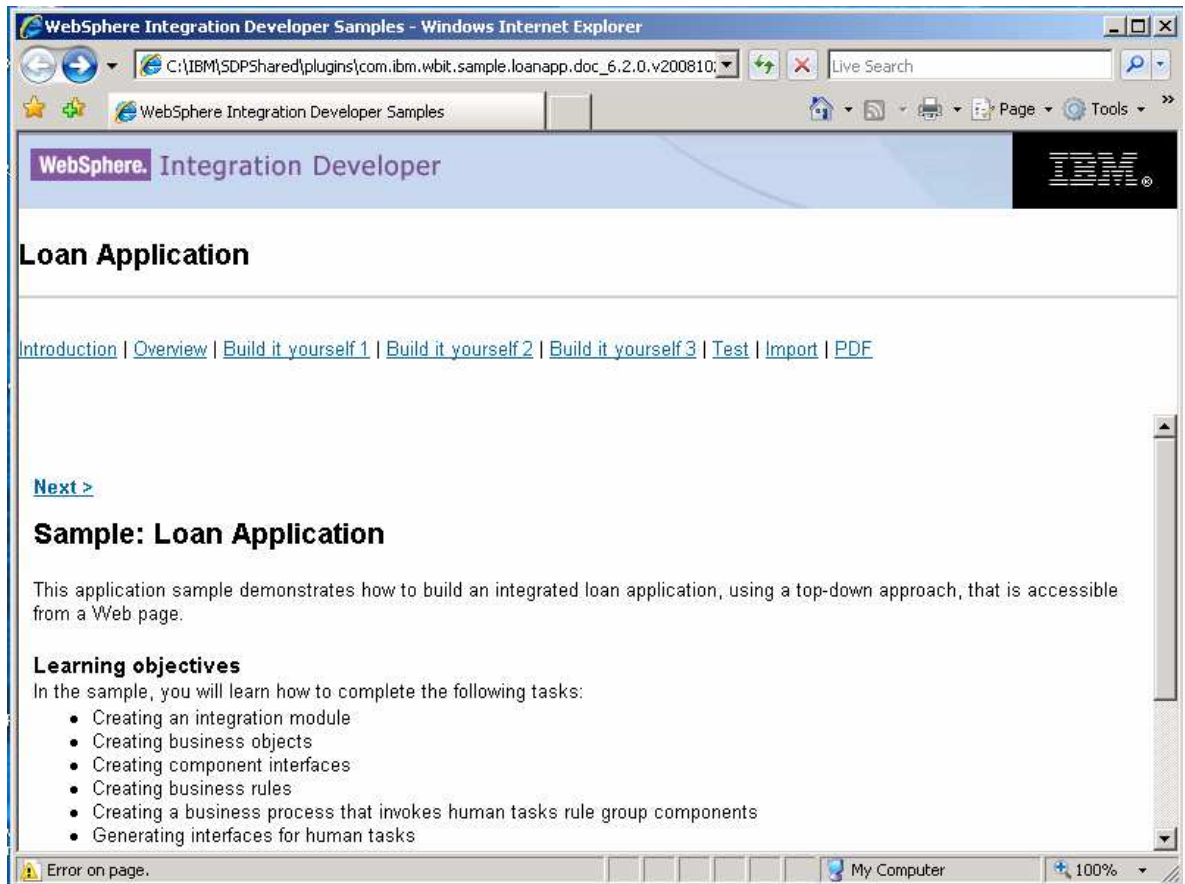
___ b. You will be prompted to import only Starter artifacts or Complete artifacts. Select Complete artifacts and click OK.



___ c. The sample will start to load:




___ d. You can close or minimize the Loan Application Web Page that opens while the application is loading.

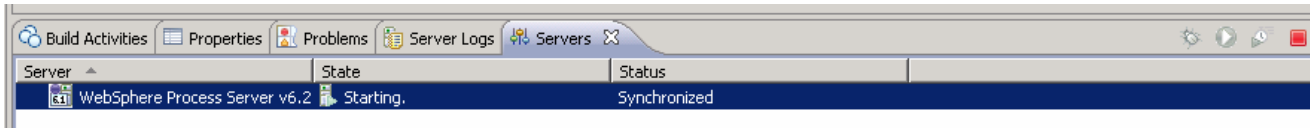


___ 3. Click the white X on the Welcome View tab  to close the Welcome page.

___ 4. Click the white X on the Samples and Tutorials View tab  to close the Samples and Tutorial page.

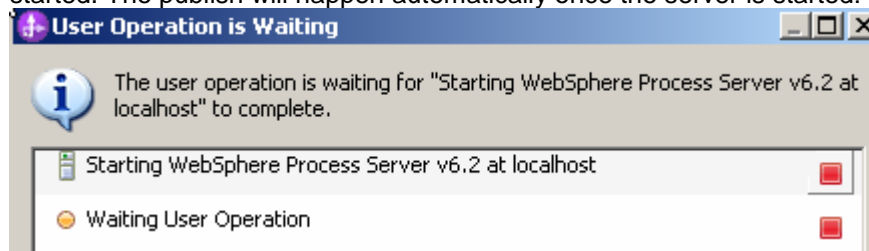
Part 3: Enable cross-component trace

5. Start the built-in WebSphere Process Server by clicking on  in the Servers View. The Server Logs view will take focus by default.

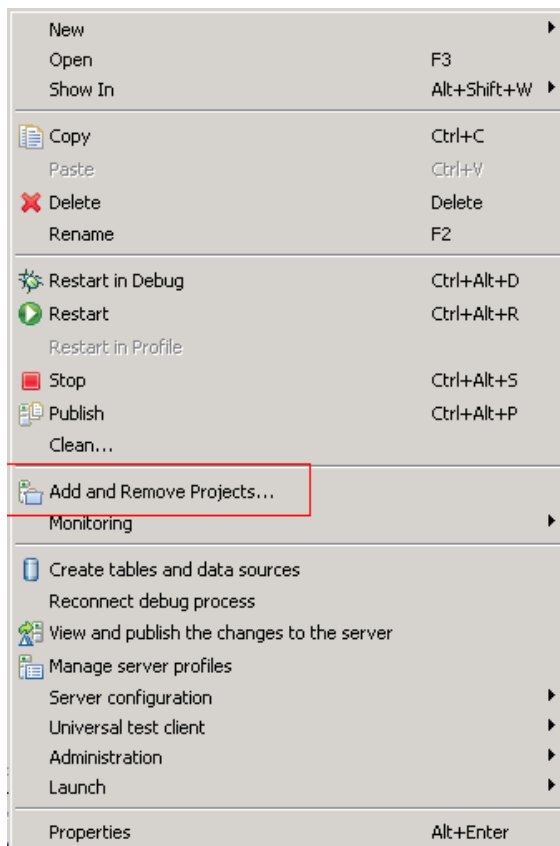


- a. Once the server is started, select the Servers View again and right click the WebSphere Process Server.

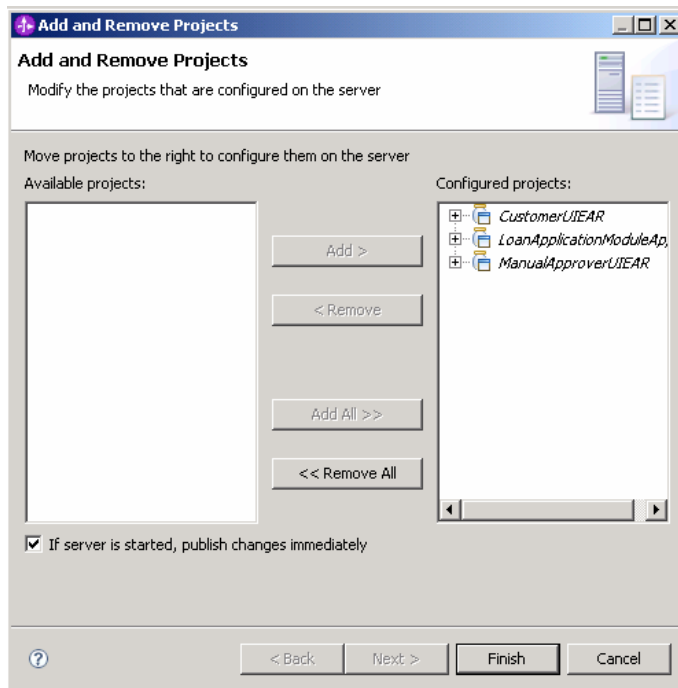
Note: If you try this step before the server starts, you will be prompted to wait until the server is started. The publish will happen automatically once the server is started:



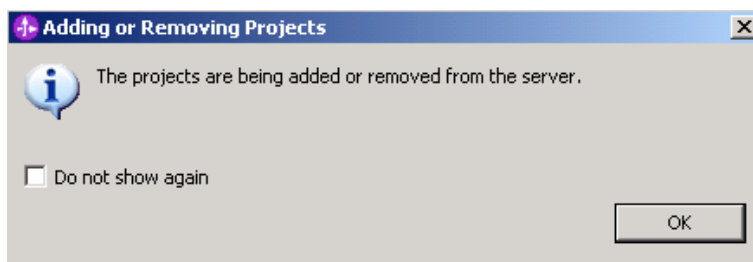
- b. Select Add and Remove Projects ...



___ c. Click Add All

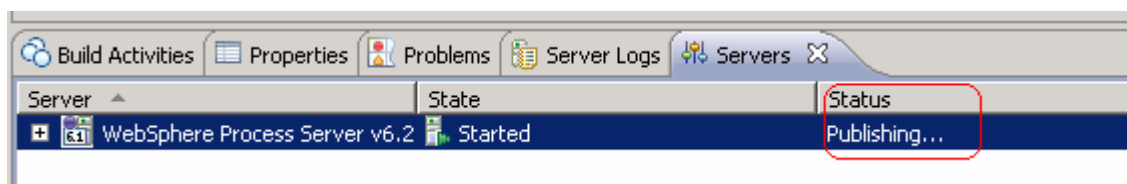


___ d. Click Finish

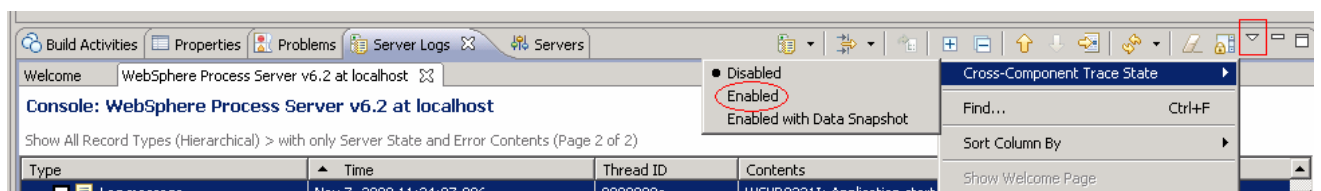


___ e. Click OK

___ f. Wait for publishing to complete. Server status will read "Synchronized".



___ 6. Enable Cross-Component Trace by first switching over to the Server Logs view (shown below).



___ a. Access Cross Component Trace by clicking the white triangle icon in the toolbar

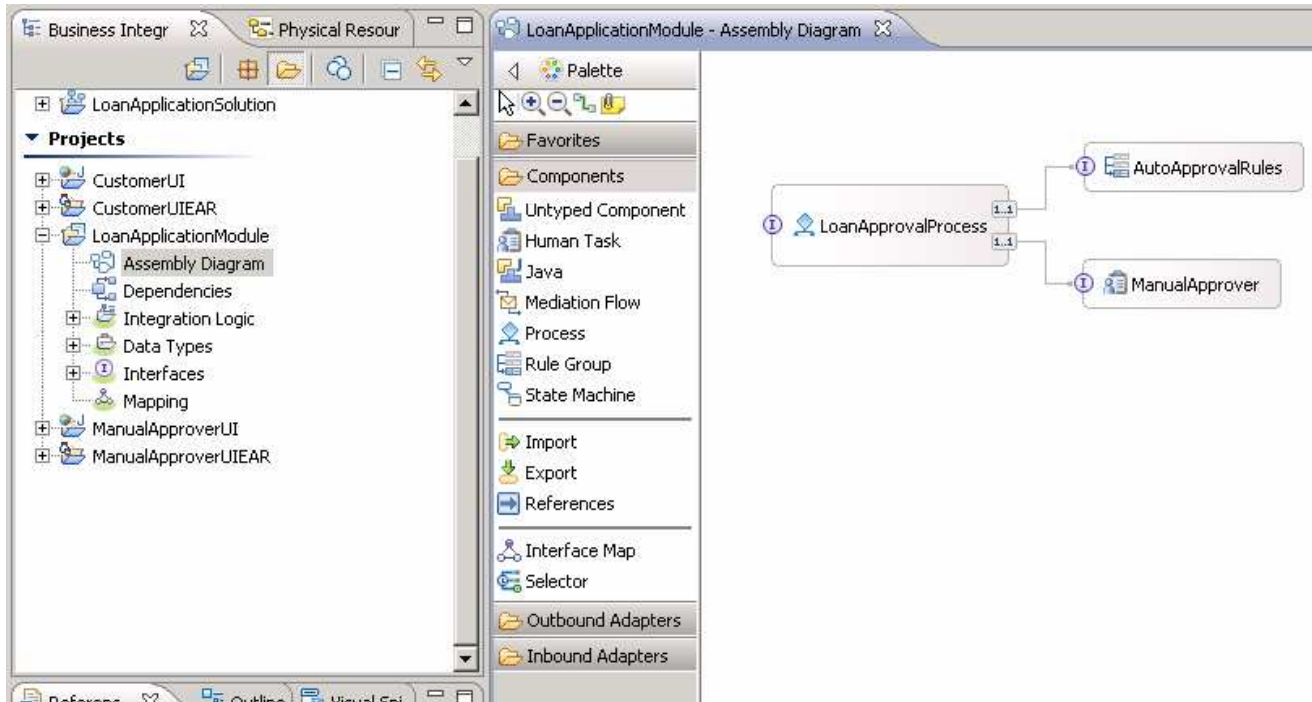


___ b. Then click Enabled in the menu

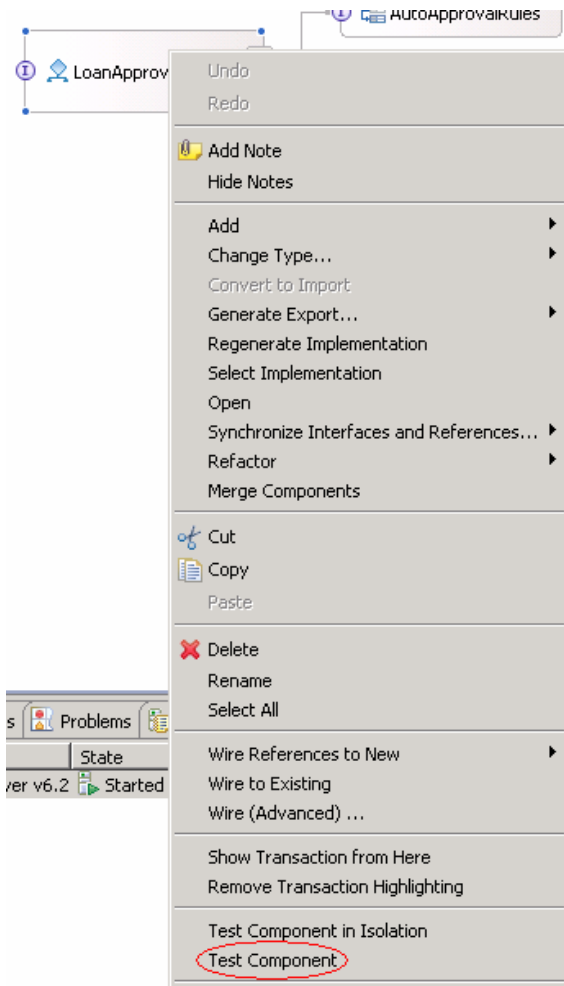


Part 4: Testing the loan application

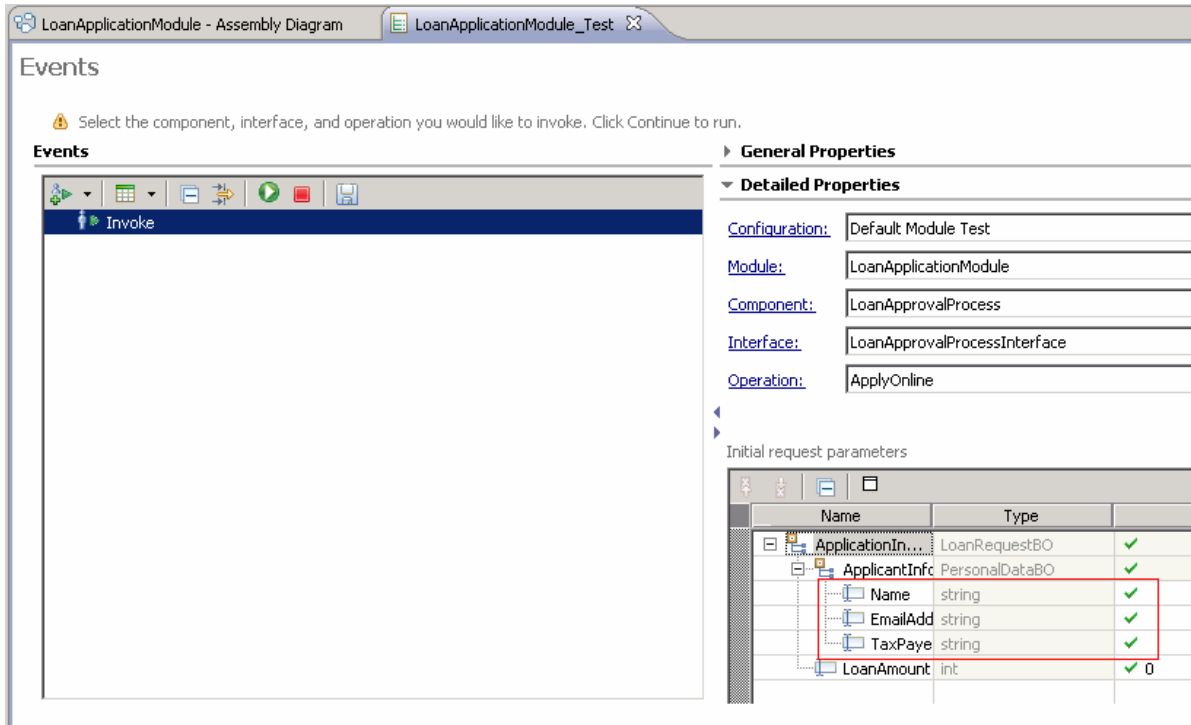
1. In the Business Integration View, click the + sign next to LoanApplicationModule and double click Assembly Diagram. This will open it up in the Assembly Editor.



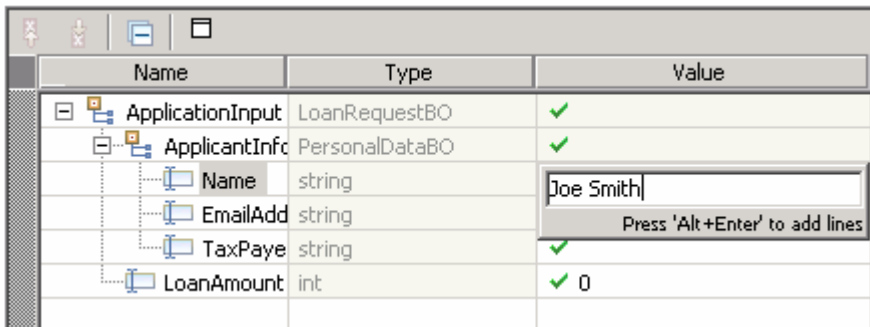
2. Right Click LoanApprovalProcess in the Assembly Editor and choose Test Component at the bottom of the pop-up menu.



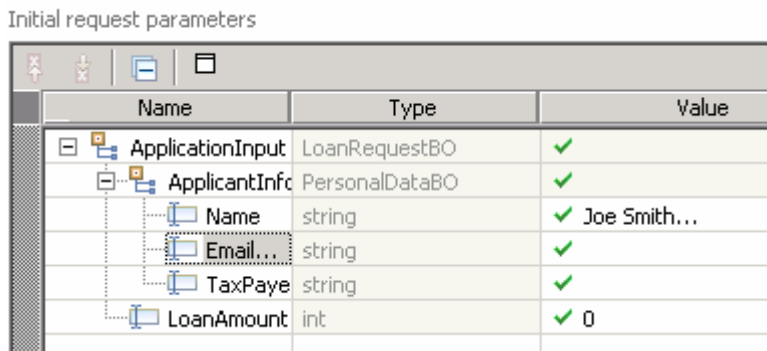
3. Fill-in the test values for Scenario 1 (outlined below).






a. Double Click ✓ to the right of Name and enter **Joe Smith**.



b. Then click out side out of the entry box.



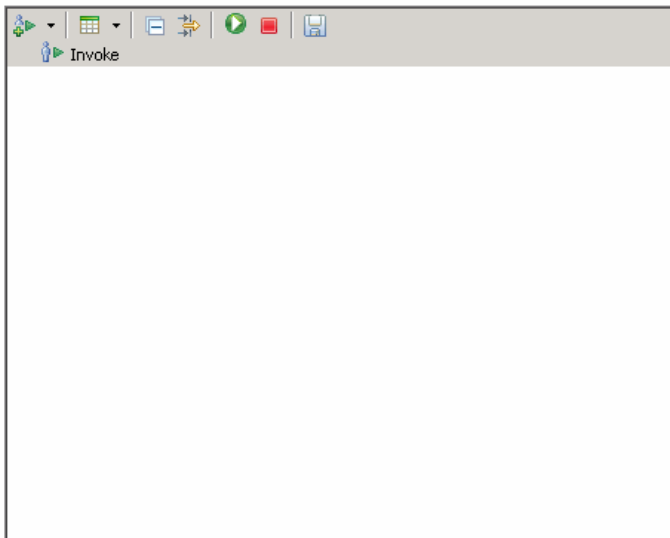
- ___ c. Double Click  to the right of Email and enter **JoeSmith@Acme.com**.
- ___ d. Then click out side out of the entry box.
- ___ e. Double Click  to the right of TaxPrayerId and enter **123451**.
- ___ f. Then click out side out of the entry box.
- ___ g. Double Click  to the right of LoanAmount and enter **40000**.

Initial request parameters

Name	Type	Value
ApplicationInput	LoanRequestBO	✓
ApplicantInfo	PersonalDataBO	✓
Name	string	✓ Joe Smith...
EmailAdd	string	✓ JoeSmith@Acme.com
TaxPaye	string	✓ 123451
LoanAmount	int	✓ 40000

___ 4. Start the Testing.

Events



General Properties

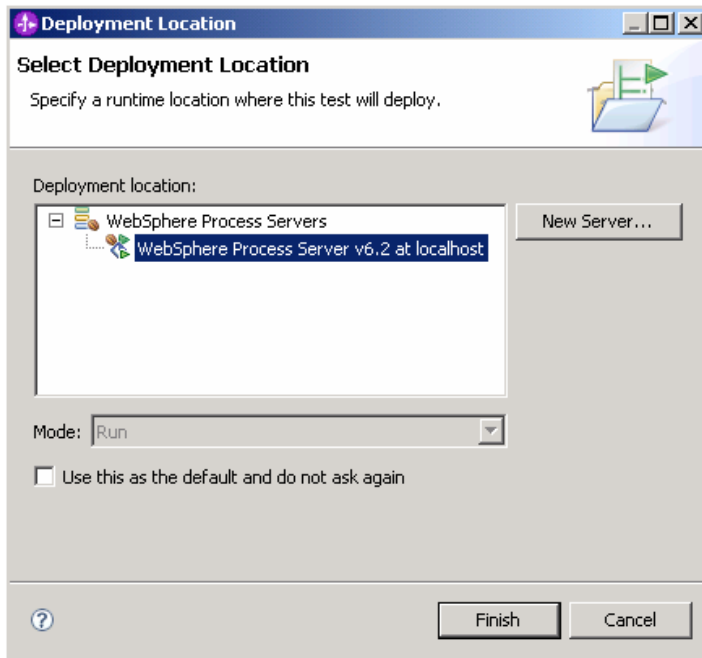
Detailed Properties

Configuration:	Default Module Test
Module:	LoanApplicationModule
Component:	LoanApprovalProcess
Interface:	LoanApprovalProcessInterface
Operation:	ApplyOnline

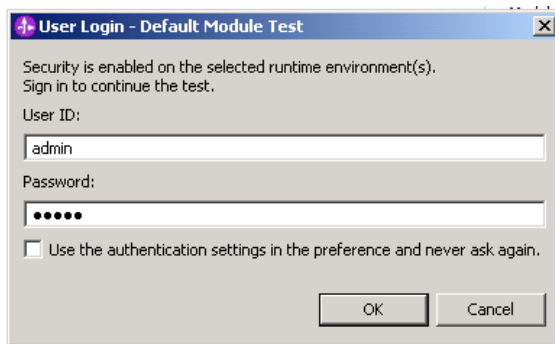
Initial request parameters

Name	Type	Value
ApplicationInput	LoanRequestBO	✓
ApplicantInfo	PersonalDataBO	✓
Name	string	✓ Joe Smith...
EmailAdd	string	✓ JoeSmith@Acme.com
TaxPaye	string	✓ 123451
LoanAmount	int	✓ 40000

- ___ a. Press **Continue**  button in test client editor.



__ b. Click **Finish**.



__ c. Enter admin/admin (default security settings) and click OK.

__ d. Given the test was for \$40,000, nothing greater than \$50,000, the response from the bank should be "Your application has been approved":

Events

General Properties

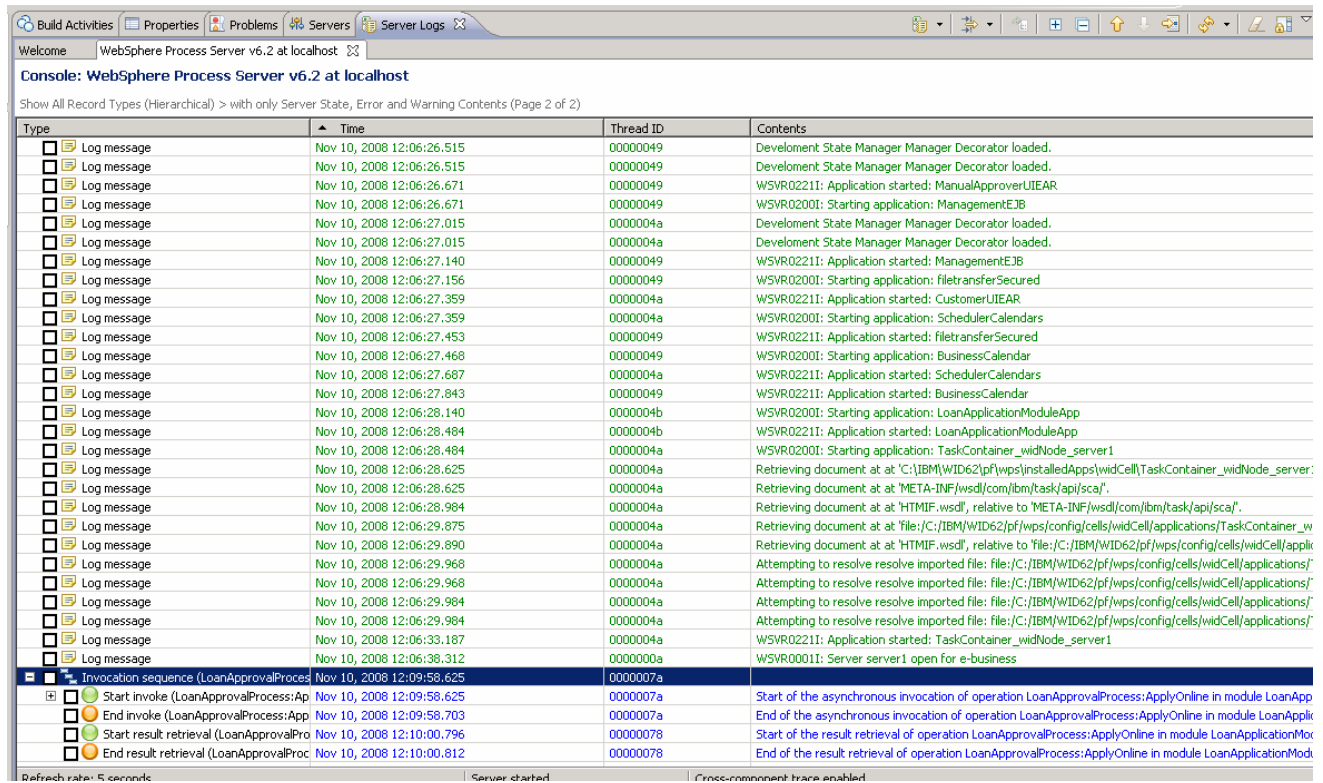
Detailed Properties

Module: [LoanApplicationModule](#)
 Component: [LoanApprovalProcess](#)
 Interface: [LoanApprovalProcessInterface](#)
 Operation: [ApplyOnline](#)

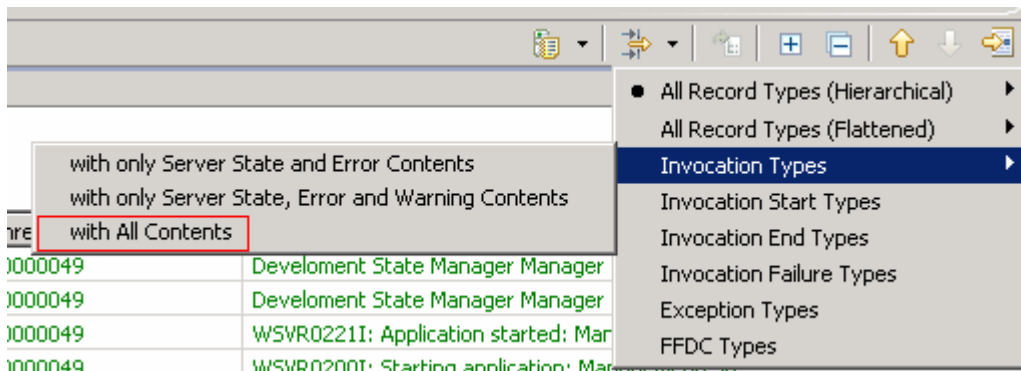
Return parameters:

Name	Type	Value
BankResponse	string	✓ Your application has been approved.

__ e. Maximize Server Logs View by double clicking on the Server Logs View tab.



__ f. Set Server Log view filter to Invocation Types > with All Contents.





__ g. Now expand the entry.

Type	Time	Thread ID	Contents
Invocation sequence (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:09:58.625	0000007a	
Start invoke (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:09:58.625	0000007a	Start of the asynchronous invocation of operation LoanApprovalProcess:ApplyOnline
Start component (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:09:58.703	0000007c	Start of the component processing of operation LoanApprovalProcess:ApplyOnline
Start business process (LoanApprovalProcess)	Nov 10, 2008 12:09:59.515	0000007c	Start of processing for business process LoanApprovalProcess:_PI:900301
Start invoke (AutoApprovalRules:AutoApprovalRequest)	Nov 10, 2008 12:09:59.578	0000007c	Start of the invocation of operation AutoApprovalRules:AutoApprovalRequest
Start component (AutoApprovalRules:AutoApprovalRequest)	Nov 10, 2008 12:09:59.578	0000007c	Start of the component processing of operation AutoApprovalRules:AutoApprovalRequest
End component (AutoApprovalRules:AutoApprovalRequest)	Nov 10, 2008 12:09:59.578	0000007c	End of the component processing of operation AutoApprovalRules:AutoApprovalRequest
End invoke (AutoApprovalRules:AutoApprovalRequest)	Nov 10, 2008 12:09:59.578	0000007c	End of the invocation of operation AutoApprovalRules:AutoApprovalRequest
End business process (LoanApprovalProcess)	Nov 10, 2008 12:09:59.593	0000007c	End of processing for business process LoanApprovalProcess:_PI:900301
Start business process (LoanApprovalProcess)	Nov 10, 2008 12:09:59.703	0000007c	Start of processing for business process LoanApprovalProcess:_PI:900301
End business process (LoanApprovalProcess)	Nov 10, 2008 12:09:59.875	0000007c	End of processing for business process LoanApprovalProcess:_PI:900301
End component (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:09:59.468	0000007c	End of the component processing of operation LoanApprovalProcess:ApplyOnline
End invoke (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:09:58.703	0000007a	End of the asynchronous invocation of operation LoanApprovalProcess:ApplyOnline
Start result retrieval (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:10:00.796	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline
End result retrieval (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:10:00.812	00000078	End of the result retrieval of operation LoanApprovalProcess:ApplyOnline

___ h. In this view you can correlate Start and End of the call sequence. Notice XCT shows that the invoke was an asynchronous type. You can view this by double clicking the invoke even to see the properties.

___ 5. Fill-in the Test values Scenario 2.


___ a. Click the re-run button .

___ b. Double Click  to the right of Name and enter **Joe Smith**.


___ c. Then click out side out of the entry box.

___ d. Double Click  to the right of Email and enter **JoeSmith@Acme.com**.

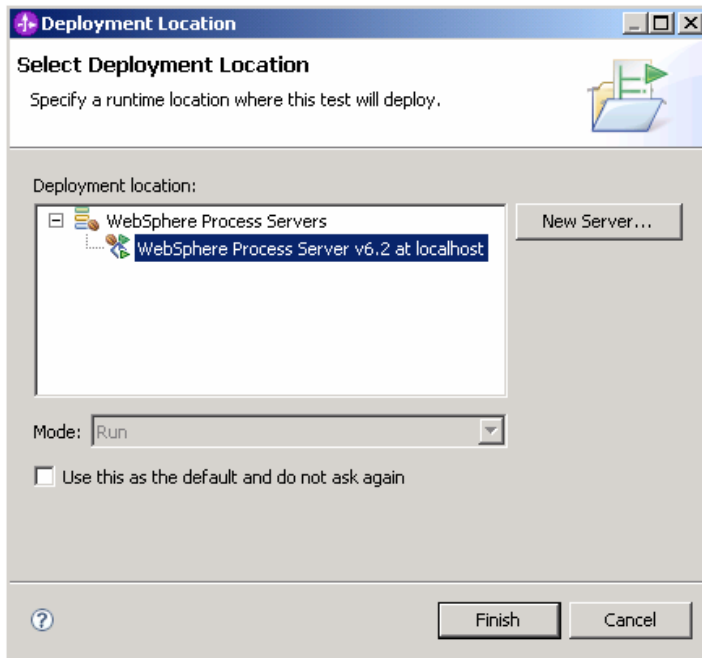
___ e. Then click out side out of the entry box.

___ f. Double Click  to the right of TaxPrayerId and enter **123451**.

___ g. Then click out side out of the entry box.

___ h. Double Click  to the right of LoanAmount and enter **50001**. Notice this is above 50,000 and will call the human task to verify the amount.

___ i. Press **Continue** .



___ j. Click **Finish**.

___ k. The partial results are:

Events

General Properties

Detailed Properties

Configuration: Default Module Test

Module: LoanApplicationModule

Component: LoanApprovalProcess

Interface: LoanApprovalProcessInterface

Operation: ApplyOnline

Initial request parameters

Name	Type	Value
ApplicationInput	LoanRequestBO	✓
ApplicantInfo	PersonalDataBO	✓
Name	string	✓ Joe Smith
EmailAdd	string	✓ JoeSmith@Acme.com
TaxPaye	string	✓ 123451
LoanAmount	int	✓ 50001

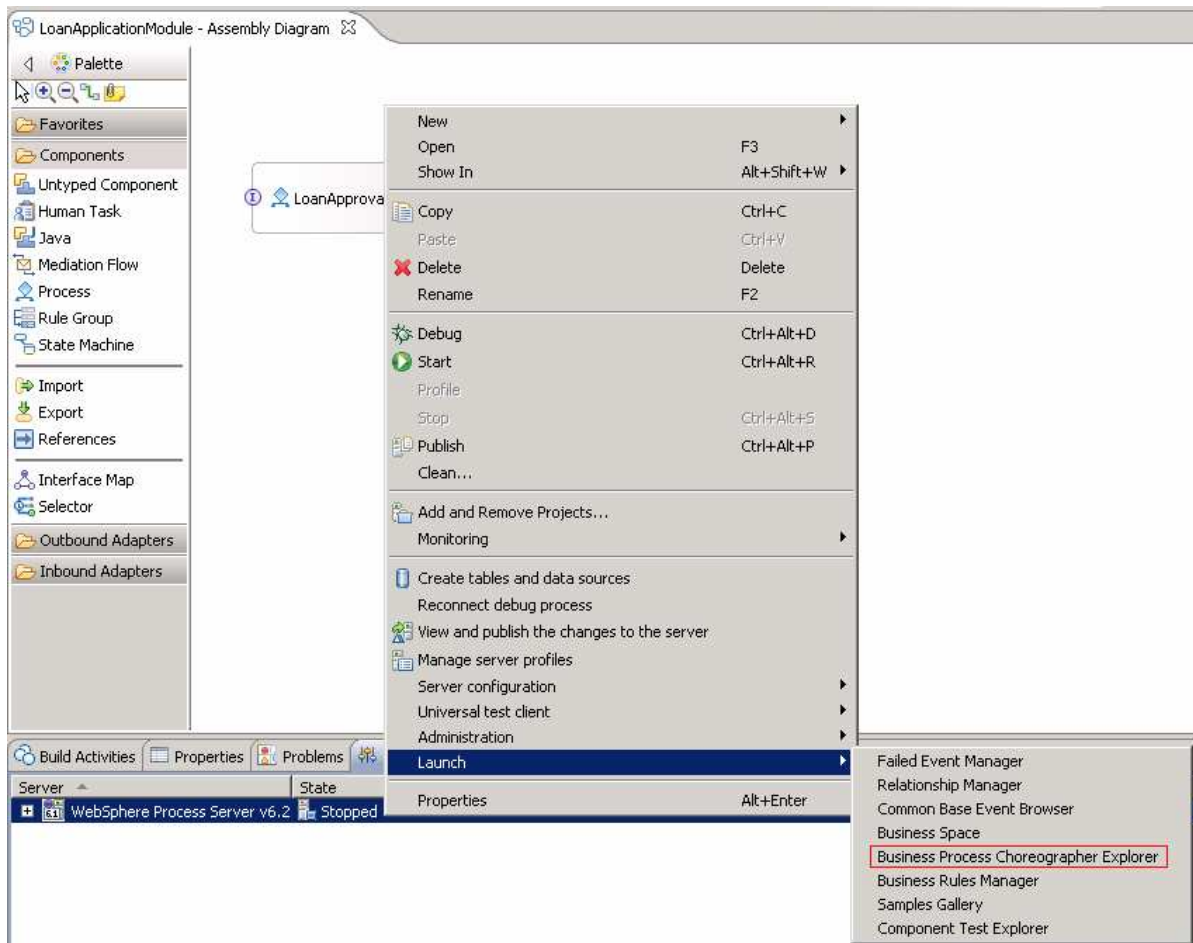
Note: The entire business process did not run (that is, no “invoke returned” at bottom of test client). You will need to open the Business Process Choreographer Explorer (BPC Explorer) in order to claim the human task that was created by the business process and therefore finish the business process.

___ 6. Start The Business Process Choreographer Explorer

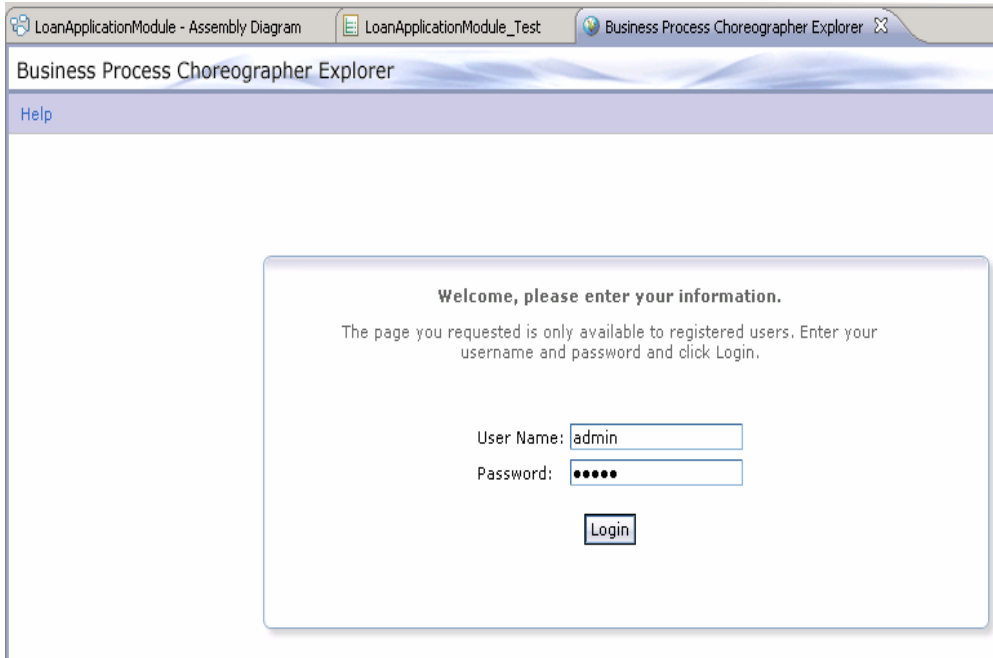
___ a. In the Servers View, right click the WebSphere Process Server test server.



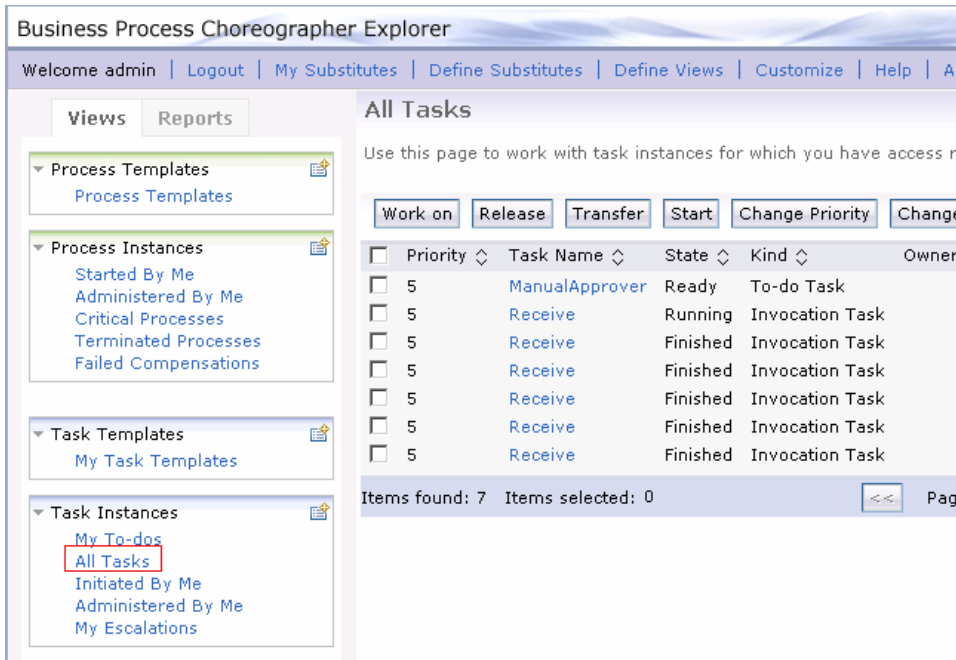
b. Select on Launch -> Business Process Choreographer Explorer



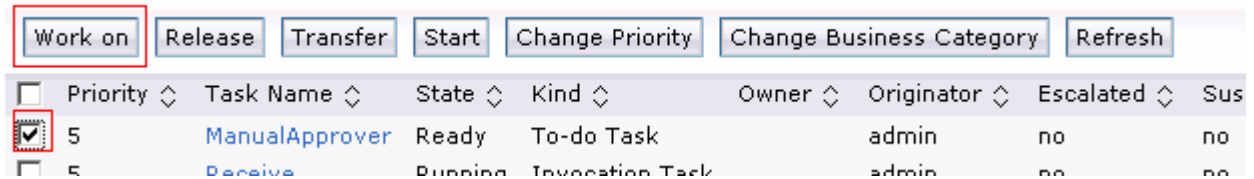
___ c. Log-in. Default is admin/admin.



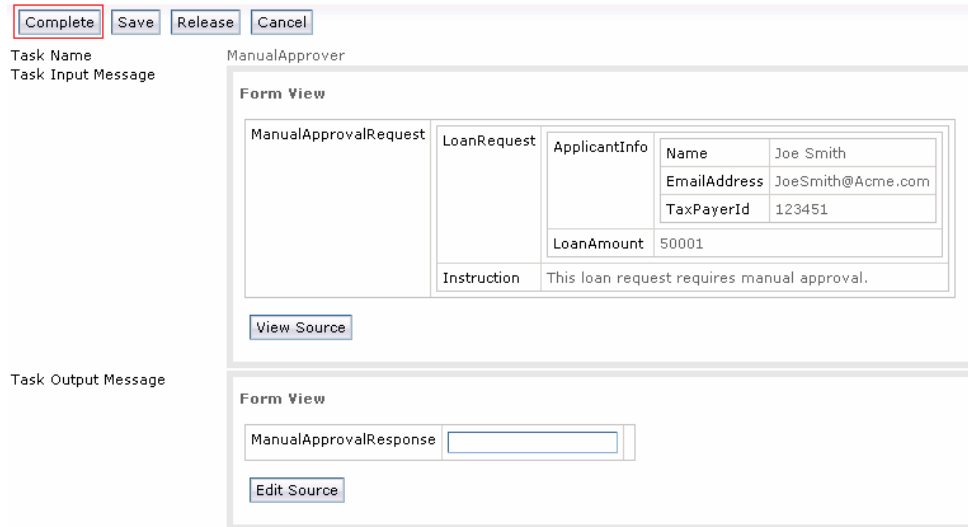
___ d. Show all of the human tasks available to your ID by clicking on All Tasks.



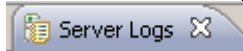
___ e. Click the Check Box on ManualApprover then Click the **Work on** button.



___ f. Click Complete button.



___ g. Go to the Server Logs view and maximize the view by double clicking on the tab.



___ h. Now expand the entry.

Type	Time	Thread ID	Contents
Invocation sequence (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:44:48.375	0000007a	
Start invoke (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:44:48.375	0000007a	Start of the asynchronous invocation of operation LoanApp
Start component (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:44:48.453	0000007c	Start of the component processing of operation LoanApp
Start business process (LoanApprovalProcess)	Nov 10, 2008 12:44:50.906	0000007c	Start of processing for business process LoanApprovalProc
Start invoke (AutoApprovalRules:AutoApprovalRequest)	Nov 10, 2008 12:44:51.031	0000007c	Start of the invocation of operation AutoApprovalRules:A
Start component (AutoApprovalRules:AutoApprovalRequest)	Nov 10, 2008 12:44:51.031	0000007c	Start of the component processing of operation AutoAppr
End component (AutoApprovalRules:AutoApprovalRequest)	Nov 10, 2008 12:44:51.031	0000007c	End of the component processing of operation AutoAppr
End invoke (AutoApprovalRules:AutoApprovalRequest)	Nov 10, 2008 12:44:51.031	0000007c	End of the invocation of operation AutoApprovalRules:Al
End business process (LoanApprovalProcess)	Nov 10, 2008 12:44:51.046	0000007c	End of processing for business process LoanApprovalProc
Start business process (LoanApprovalProcess)	Nov 10, 2008 12:44:51.171	0000007c	Start of processing for business process LoanApprovalProc
Start invoke (ManualApprover:ManualApprovalRequest)	Nov 10, 2008 12:44:51.203	0000007c	Start of the asynchronous invocation of operation Manua
Start component (ManualApprover:ManualApprovalRequest)	Nov 10, 2008 12:44:51.984	0000007c	Start of the component processing of operation ManualApp
End component (ManualApprover:ManualApprovalRequest)	Nov 10, 2008 12:44:55.531	0000007c	End of the component processing of operation ManualApp
End invoke (ManualApprover:ManualApprovalRequest)	Nov 10, 2008 12:44:51.218	0000007c	End of the asynchronous invocation of operation Manual/
End business process (LoanApprovalProcess)	Nov 10, 2008 12:44:51.281	0000007c	End of processing for business process LoanApprovalProc
Start business process (LoanApprovalProcess)	Nov 10, 2008 12:51:46.859	0000008c	Start of processing for business process LoanApprovalProc
End business process (LoanApprovalProcess)	Nov 10, 2008 12:51:47.093	0000008c	End of processing for business process LoanApprovalProc
End component (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:44:50.781	0000007c	End of the component processing of operation LoanAppr
End invoke (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:44:48.437	0000007a	End of the asynchronous invocation of operation LoanApp
Start result retrieval (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:44:50.468	00000077	Start of the result retrieval of operation LoanApprovalPrc
Result retrieval failed (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:44:55.468	00000077	A failure occurred during the result retrieval of operation

Break in the log!

	Start result retrieval (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:51:36.531	00000077	Start of the result retrieval of operation Lc
	Result retrieval failed (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:51:36.531	00000079	A failure occurred during the result retriev.
	Start result retrieval (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:51:47.296	00000077	Start of the result retrieval of operation Lc
	End result retrieval (LoanApprovalProcess:ApplyOnline)	Nov 10, 2008 12:51:47.343	00000077	End of the result retrieval of operation Lc
	Start submit callback (ManualApprover:ManualApprovalRequest)	Nov 10, 2008 12:51:44.671	00000077	07e8a3dd-ddab-4640-be64-54345fc78d94
	End submit callback (ManualApprover:ManualApprovalRequest)	Nov 10, 2008 12:51:44.687	00000077	07e8a3dd-ddab-4640-be64-54345fc78d94
	Start callback (ManualApprover:ManualApprovalRequest)	Nov 10, 2008 12:51:44.765	0000007c	07e8a3dd-ddab-4640-be64-54345fc78d94
	End callback (ManualApprover:ManualApprovalRequest)	Nov 10, 2008 12:51:46.843	0000007c	07e8a3dd-ddab-4640-be64-54345fc78d94

Note: The retrieval failed will occur until the Human Task is complete. The Human Task is completed in the prior step.

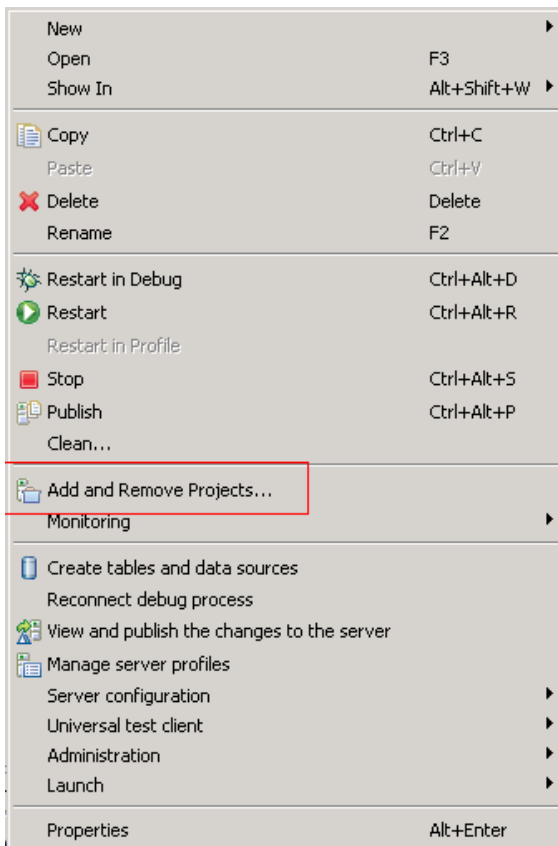
___ i. Close the Business Process Choreographer Explorer.

___ 7. Fill-in the Test values Scenario 3.

___ a. First you need to break the Application so you can see an error. You are going to change the application, so first you are going to remove the project from the server.

___ b. Right click the server

___ c. Select Add and Remove Projects ...



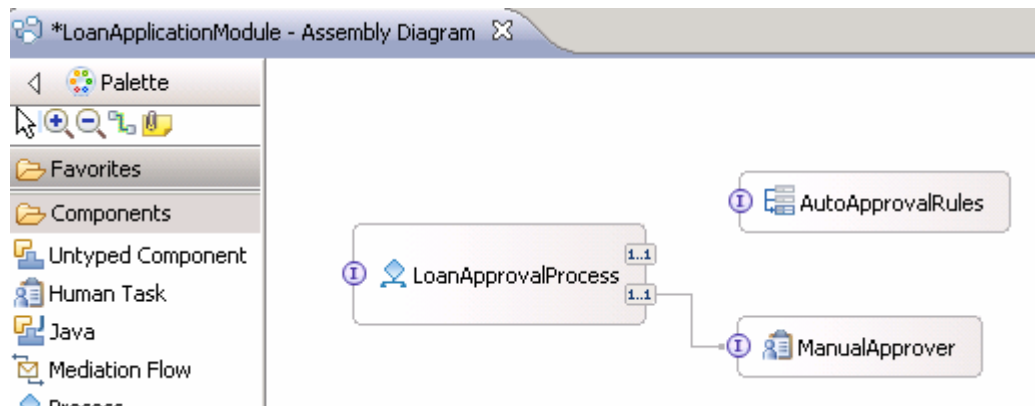
___ d. Click Remove All

___ e. Click Finish

___ f. Click Ok.

___ g. Open Loan ApplicationModule in the Assemble Editor.

__ h. Delete the link between LoanApprovalProcess and AutoApprovalRules.



__ i. Save your changes.

__ j. Right Click the Server in the Servers View.



__ k. Select Add and Remove Projects ...

__ l. Click Add All

__ m. Click Finish


__ n. Click Ok.

__ o. In the test client editor, click the re-run button




__ p. Double Click  to the right of Name and enter **Joe Smith**.


__ q. Then click out side out of the entry box.

__ r. Double Click  to the right of Email and enter **JoeSmith@Acme.com**.

__ s. Then click out side out of the entry box.

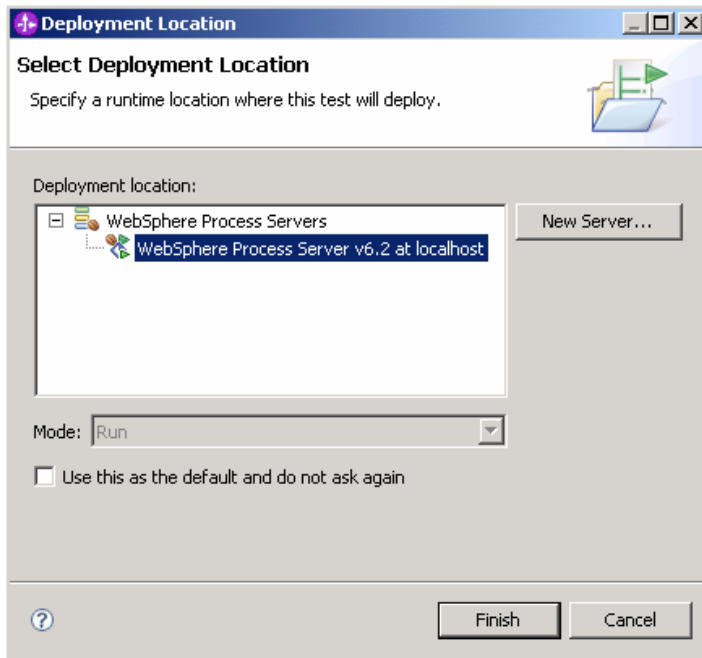
__ t. Double Click  to the right of TaxPrayerId and enter **123451**.

__ u. Then click out side out of the entry box.

__ v. Double Click  to the right of LoanAmount and enter **40000**.

__ w. Press **Continue**



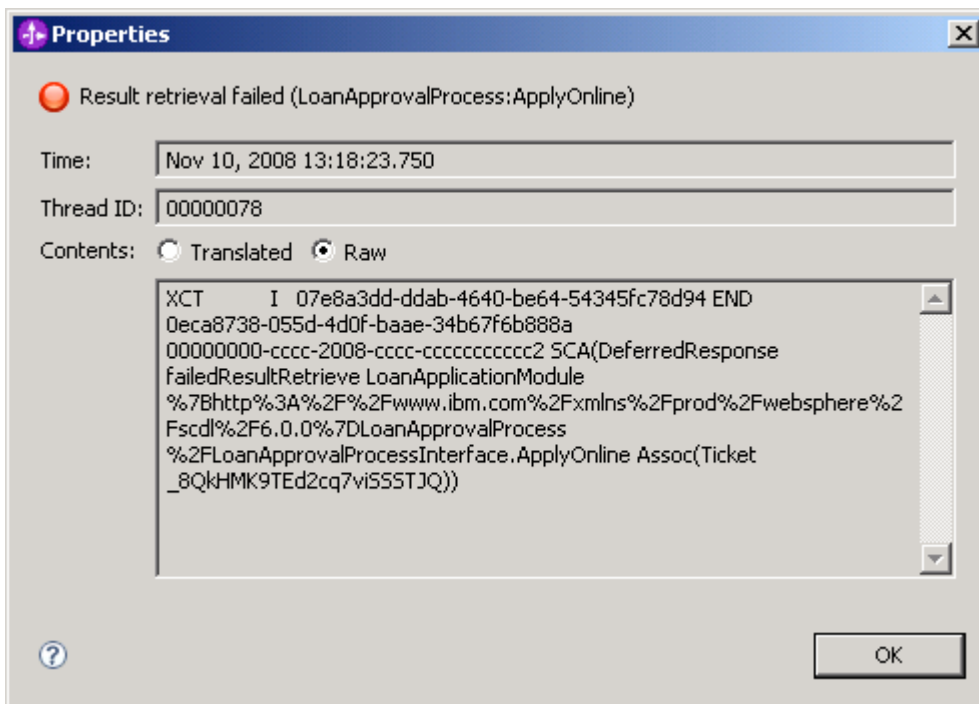
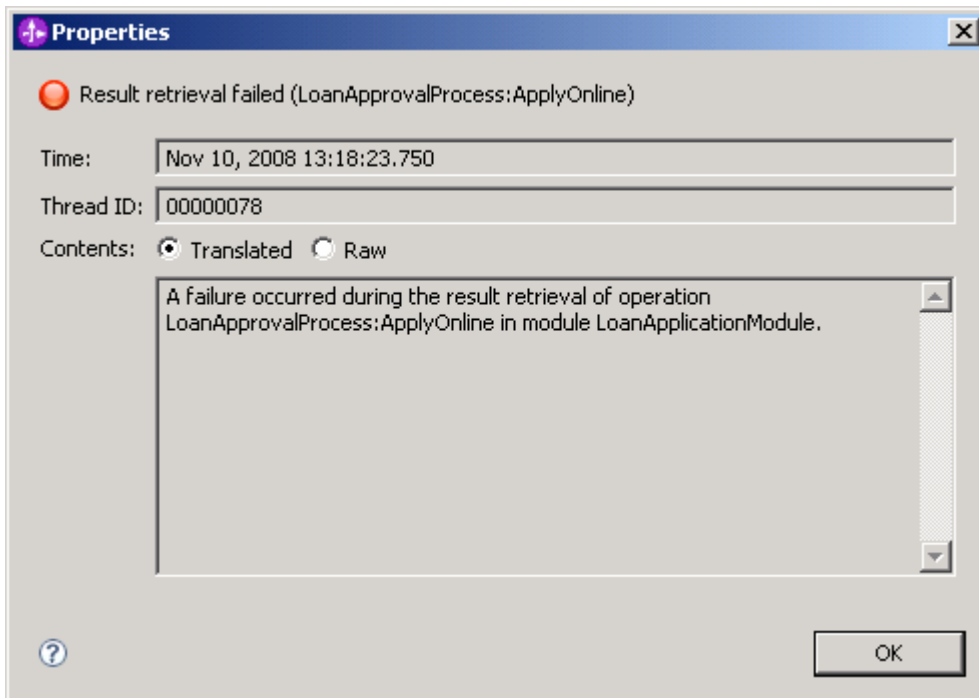


___ x. Click **Finish**.

___ y. Results:

Type	Time	Thread ID	Contents
Invocation sequence (LoanAppr...	Nov 10, 2008 13:18:15.203	00000079	
Start invoke (LoanApprovalP...	Nov 10, 2008 13:18:15.203	00000079	Start of the asynchronous invocation of operation LoanApprovalProcess:ApplyOnli...
Start component (LoanA...	Nov 10, 2008 13:18:15.281	0000008c	Start of the component processing of operation LoanApprovalProcess:ApplyOnline i...
Start business proce...	Nov 10, 2008 13:18:18.218	0000007c	Start of processing for business process LoanApprovalProcess:_PI:9003011d.87a0...
End business proce...	Nov 10, 2008 13:18:18.390	0000007c	End of processing for business process LoanApprovalProcess:_PI:9003011d.87a01...
End component (LoanA...	Nov 10, 2008 13:18:18.093	0000008c	End of the component processing of operation LoanApprovalProcess:ApplyOnline in...
End invoke (LoanApprovalP...	Nov 10, 2008 13:18:15.265	00000079	End of the asynchronous invocation of operation LoanApprovalProcess:ApplyOnlin...
Start result retrieval (LoanA...	Nov 10, 2008 13:18:18.734	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:18:23.750	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:18:25.765	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:18:30.765	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:18:33.031	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:18:38.031	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:18:40.546	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:18:45.546	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:18:48.312	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:18:53.312	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:18:56.312	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:19:01.843	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:19:05.109	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:19:10.109	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:19:13.609	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:19:18.609	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:19:22.359	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...
Result retrieval failed (Loan...	Nov 10, 2008 13:19:27.359	00000078	A failure occurred during the result retrieval of operation LoanApprovalProcess:Ap...
Start result retrieval (LoanA...	Nov 10, 2008 13:19:31.359	00000078	Start of the result retrieval of operation LoanApprovalProcess:ApplyOnline in modul...

Note: The retrieval failed will occur repeatedly because the Auto Approve Rules component is not connected to the loan approval process. The big difference between this failure and the Human Task is that once the Human Task is Complete the retrieval failed stops.



___ z. As an Option: Change another part of the Loan Approval Process and see how your change propagates itself in XCT?

___ 8. Clean up the test server.

___ a. Right Click the Server in the Servers View.



___ b. Select Add and Remove Projects ...

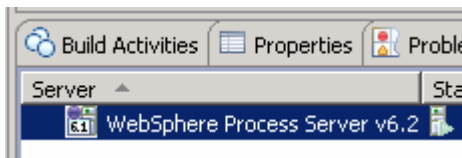
___ c. Click Remove All

___ d. Click Finish

___ e. Click Ok.

___ 9. Stop test server.

___ a. Select the Server



___ b. Click .

___ c. You are ready to move on to the next lab.

This page is left intentionally blank.