Support for virtualizing SAP RFC calls is achieved by using the Java Agent to intercept calls made by applications that use the SAP Java Connector. The application still requires a connection to the SAP server to retrieve metadata. Please see product documentation for more details.

In some circumstances, a SAP server may not be available in the environment in which virtualization is required. In this case, it is possible to record interactions where a SAP server is available for use in that environment. This requires additional configuration within the project, namely a Java Application Transport with Recording Studio settings as shown below:

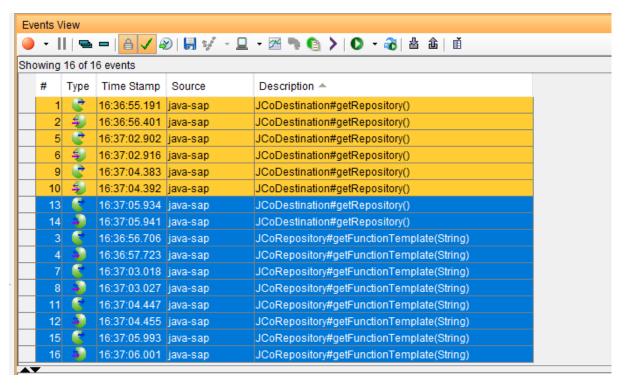
Filter Include methods e.g. com.package.ClassName#method (* for wildcard, - to negate)
com.sap.conn.jco.JCoDestination#getRepository com.sap.conn.jco.JCoRepository#getFunctionTemplate
☐ Include invocation target 'this' in header
☐ Hide invocations within the same package
☐ Hide invocations to methods taking no arguments
☑ Hide invocations to methods returning void
☑ Hide recursive calls and calls to base implementations
Hide invocations where the data exceeds (kB) 100

A pre-configured transport is available in **sap-metadata-recording.zip**, the following steps details how to import this into an existing project, use it to record metadata, and generate a stub:

Pre-requisite: a project that is configured to record SAP RFC interactions using the Java Agent.

- 1. Import the sap-metadata-recording.zip file:
 - a. Project -> Import Resources...
 - b. Select sap-metadata-recording.zip
 - c. Select default options and complete wizard
- 2. Configure the physical Java Application transport
 - a. In Logical View right-click on the sap-metadata-recording transport
 - b. From the context menu: Set Binding In -> <environment> -> Create new JVM
 - c. In most cases, just save with the default values (refer to product documentation for further details on JVM configuration)
- 3. Record the SAP RFC calls and metadata
 - a. In Logical view, select the **sap-metadata-recording** transport and the existing SAP transport.
 - b. Click the record button to add these as monitors and take you to the Recording Studio perspective
 - c. Start recording
- 4. Perform interactions with the SAP system, when done stop the recording
 - a. Click the stop recording button in Recording Studio
- 5. Generate a stub to provide SAP metadata
 - a. In Recording Studio, select the **sap-metadata-recording** monitor in the Monitor Configuration.
 - b. Click on the Description column to sort it in ascending order

c. Select the last 2 "JCoDestination#getRepository()" events and all of the "JCoRespository#getFunctionTemplate(String)" events. (e.g. select the event representing the final call to getRepository and use Ctrl-Shift-End to select the remaining events):



d. Click on "Create stubs from recorded events" button, complete the Wizard selecting where to create the stub and what to call it (e.g. under the pre-existing SAP system with a name of "metadata").

Having created this stub, you will be able to virtualise calls to any of the RFCs for which you have virtualised getFunctionTemplate from applications that use the SAP Java Connector without having to connect to a SAP server. Consult the product documentation for more details on creating stubs for SAP RFC calls.