

Sterling B2B Integrator



Service and Adapter User Exits

5.2.2 or higher

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Note

Before using this information and the product it supports, read the information in "Notices" on page 5.

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How user exits in services and adapters work (V5.2.2 and higher)

User exits are a set of predefined points you can use to implement customized functions. You implement them by adding custom code to perform a particular operation, thus extending the functions of the adapter.

Custom user exits are available for the following service sand adapters:

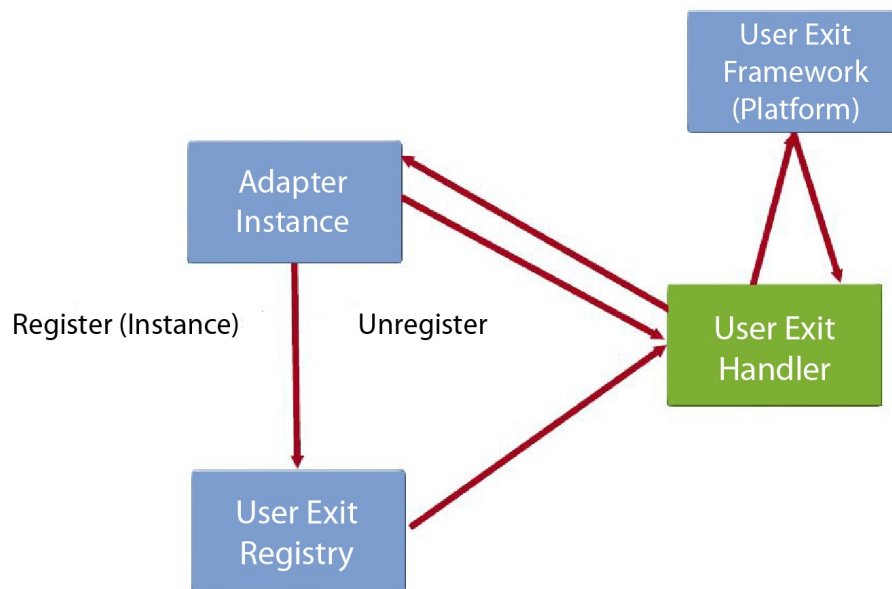
- FTP Server adapter (V5.2.2 and higher)
- SFTP Server adapter (V5.2.5 and higher)
- Mailbox Add service (V5.2.5 and higher)

The User Exit framework consists of the following components, plus a handler that interacts with all the components to perform the particular task:

- Adapter or service that needs to use the execution framework
- User exit registry that can be queried for all user exits configured for a particular adapter instance. All user exits are registered and maintained in this registry.
- User exit framework that you use to obtain the references to the user exit implementation and to run the user exit

The handler's reference is maintained by the adapter, which refers to the registry and the execution framework.

The following figure shows the user exit architecture:



The following table provides the generic properties that are defined for a user exit:

Property	Description
Implementations	Contains the list of custom code implementation classes that must be called when a user exit is run. The implementation classes are called in the order they were added. If a user exit implementation fails, the next user exit implementation in the chain is not called.
return.on.exception	Determines the result if an exception occurs when a user exit is run. Set the value to false only if the user exit is critical and displays a failure.
execution.threshold.time (integer value 1 - 600,000) in milliseconds.	Generates a log statement if total run time of the implementation chain takes more time than allowed by the threshold value.
pool.size (integer value 1 - 10)	These properties are used to manage thread pools for running the user exits.
maximum.queue.length (integer value 1 - 100)	
wait.time (integer value 1 - 600) in seconds	

Configuring FTP Server adapter user exits (V5.2.2 and higher)

In Sterling B2B Integrator 5,2.2 or higher, you can configure FTP Server adapter user exits.

About this task

Perform the following tasks to configure user exit points for the FTP Server adapter. The interfaces are provided through separate files present in the *install_dir/install/userexit/jars* (*install_dir\install\userexit\jars* for Windows) directory.

For more information on specific java method implementation details, see the Javadocs provided in the <install>/userexit/docs directory.

Procedure

1. Write the code to implement the interface for the specific point.
2. Add the custom code classes to a .jar file.
3. Add the path of the .jar file to the dynamicclasspath.cfg file in the *install_dir/install/properties* (*install_dir\install\properties* for Windows) directory.
4. Restart Sterling B2B Integrator.
5. Open the *install_dir/properties/userexit* (*install_dir\properties\userexit* for Windows) directory and locate FtpServerUserExits.xml file.
6. Edit FtpServerUserExits.xml file and add an entry for each implementation as shown. The user exits are run in the same order as they appear.

```
<bean id="com.sterlingcommerce.woodstock.userexit.services.ftpserver.interfaces.
IFtpServerUserExit_OnCwdCommandBeforeExecute" class="com.sterlingcommerce.
woodstock.userexit.srvices.ftpserver.FtpServerUserExit">
  <property name="implementations">
    <list>
```



```

<value>implementation1</value>
<value>implementation2</value>
</list>
</property>
<property name="generalParameters">
<props>
<prop key="return.on.exception">>false</prop>
<prop key="pool.size">5</prop>
<prop key="maximum.queue.length">5</prop>
<prop key="wait.time">10</prop>
<prop key="execution.threshold.time">600000</prop>
</props>
</property>
</bean>

```

7. Remove all values to deactivate the user exit points.
8. Restart the FTP Server adapter instance to apply the changes.

Note: Restart only the adapter instance if you modify implementation class list and other properties.

Configuring SFTP Server adapter user exits (V5.2.5 and higher)

In Sterling B2B Integrator 5,2.5 or higher, you can configure SFTP Server adapter user exits.

About this task

Perform the following tasks to configure user exit points for the SFTP Server adapter. The interfaces are provided through separate files present in the *install_dir/install/userexit/jars* (*install_dir\install\userexit\jars* for Windows) directory.

For more information on specific java method implementation details, see the Javadocs provided in the *<install>/userexit/docs* directory.

Procedure

1. Write the code to implement the interface for the specific point.
2. Add the custom code classes to a .jar file.
3. Add the path of the .jar file to the dynamicclasspath.cfg file in the *install_dir/install/properties* (*install_dir\install\properties* for Windows) directory.
4. Restart Sterling B2B Integrator.
5. Open the *install_dir/properties/userexit* (*install_dir\properties\userexit* for Windows) directory and locate SftpServerUserExits.xml file.
6. Edit SftpServerUserExits.xml file and add an entry for each implementation as shown. The user exits are run in the same order as they appear.

```

<bean id="com.sterlingcommerce.woodstock.userexit.services.ftpserver.interfaces.
ISftpServerUserExit_OnCwdCommandBeforeExecute" class="com.sterlingcommerce.
woodstock.userexit.srvices.ftpserver.SftpServerUserExit">
  <property name="implementations">
    <list>
      <value>implementation1</value>
      <value>implementation2</value>
    </list>
  </property>
  <property name="generalParameters">
    <props>
      <prop key="return.on.exception">>false</prop>

```

```

    <prop key="pool.size">5</prop>
    <prop key="maximum.queue.length">5</prop>
    <prop key="wait.time">10</prop>
    <prop key="execution.threshold.time">600000</prop>
  </props>
</property>
</bean>

```

7. Remove all values to deactivate the user exit points.
8. Restart the FTP Server adapter instance to apply the changes.

Note: Restart only the adapter instance if you modify implementation class list and other properties.

Configuring mailbox user exits (V5.2.5 and higher)

In Sterling B2B Integrator 5,2.5 or higher, you can configure mailbox user exits.

About this task

Perform the following tasks to configure user exit points for a mailbox service. The interfaces are provided through separate files present in the *install_dir/install/userexit/jars* (*install_dir\install\userexit\jars* for Windows) directory.

For more information on specific Mailbox services and their java method implementation details, see the Javadocs provided in the *install_dir/userexit/docs* directory.

Procedure

1. Write the code to implement the interface for the specific point.
2. Add the custom code classes to a .jar file.
3. Add the path of the .jar file to the dynamicclasspath.cfg file in the *install_dir/install/properties* (*install_dir\install\properties* for Windows) directory.
4. Restart Sterling B2B Integrator.
5. Open the *install_dir/properties/userexit* (*install_dir\properties\userexit* for Windows) directory and locate MailboxUserExits.xml file.
6. Edit the MailboxUserExits.xml file and add an entry for each implementation as shown. The user exits are run in the same order as they appear.

```

<bean id="com.sterlingcommerce.woodstock.userexit.services.mailbox.interfaces.
IMailboxUserExit_OnMessageAdd" class="com.sterlingcommerce.
woodstock.userexit.srvices.mailbox.MailboxUserExit">
  <property name="implementations">
    <list>
      <value>com.sterlingcommerce.woodstock.userexit.services.mailbox.MailboxUserExit</value>
      <value>implementation2</value>
    </list>
  </property>
</bean>

```

7. Remove all values to deactivate the user exit points.

CAUTION:

The implementation

"com.sterlingcommerce.woodstock.userexit.services.mailbox.MailboxUserExit" should not be removed before first reviewing APAR IC91071.

8. Restart the mailbox service to apply the changes.

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