

How to build and deploy our sample Box event handler

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This sample is an IBM Case Manager custom plugin that demonstrates how to create custom Box event handlers to process Box events in the context of your Case. This event handler will process Box document “upload” events for a specified Box folder name. The Box folder name is specified in the configuration dialog when you are adding an event handler to the Box event listener.

Prerequisites

- You need to have the whole Case Manager stack installed and configured properly (includes the latest Content Platform Engine, IBM Content Navigator 3.0.0, and IBM Case Manager 5.3.0).
- You need to have Box Collaboration properly configured for your Case Manager environment.
- You need to have a solution that has a "Starting document type" specified with a Document Class for this sample to work. You may use our example solution to start with.
- You need to have Eclipse and Ant installed to build the plugin.

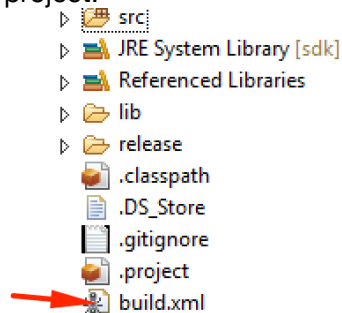
Getting the sample plugin

Download or clone the IBM Case Manager samples repository at [git@github.com:ibm-ecm/ibm-casemanager-samples.git](https://github.com:ibm-ecm/ibm-casemanager-samples.git)

Building the sample plugin

If you have a built version of the sample plugin already, you can skip this section.

1. Open and import the project in Eclipse (with Ant).
2. First, find the **build.xml** for the project and copy the jars listed. The sample has all the jars copied under the “lib” directory. These will be needed to compile your project.



Second, edit the Task Manager dropins directory in the “deploy” target.

```

70  <target name="deploy">
71      <!-- Copy the built plugin into the ./release directory. -->
72      <copy todir="${pluginDir}" >
73          <fileset dir="${buildoutput}">
74              <include name="*.jar" />
75          </fileset>
76      </copy>
77
78      <!-- Change this directory to match your path to the task manager dropins directory -->
79      <copy todir="C:\IBM\WebSphere\AppServer\profiles\AppSrv02\installedApps\oclv0288Node02Cell\navigator.ear\taskManagerWeb.wa
80          <fileset dir="${buildoutput}">
81              <include name="*.jar" />
82          </fileset>
83      </copy>
84
85      <delete dir="${buildoutput}" />
86  </target>
87
88  </project>

```

3. Now build the project by invoking the context menu to **Run As > Ant Build**. This will generate a directory called “release” as well as the plugin jar file, which is the plugin you will upload to Navigator.
4. Upload the generated jar file to Navigator > Settings > Plugins.

NOTE: If you only have the built JAR file and are not building using the build.xml file, you will need to manually copy the built JAR file into the Task Manager WEB-INF/dropins directory. Below is an example of where the dropins directory is.

```

C:\IBM\WebSphere\AppServer\profiles\AppSrv02\installedApps\oclv0288N
ode02Cell\navigator.ear\taskManagerWeb.war\WEB-
INF\dropins\BoxEventHandlerSamplePlugin.jar

```

Loading your sample Box event handler

1. Navigate to the IBM Case Manager Administration Client desktop and make sure you are logged in as a user with administrative roles.
2. Make sure you have the compiled jar for the sample plugin.
3. Import the sample plugin in Navigator Settings > Plugins > Enter path to plugin on file system where the plugin is located.
4. Select load. Select save and close.
5. Refresh your browser.

Registering the sample Box event handler

Plug-in: IBM Case Manager Box Event Listener plug-in

A plug-in can be either a JAR file or a compiled class file.

Important: The IBM Content Navigator web application server must be able to access the plug-in file on the local file system or through a URL.

☒ JAR file path: ?

☐ Class file path: ?

Class name: ?

Name:	IBM Case Manager Box Event Listener plug-in
Version:	5.3.0.0 (icmapi5.3.0.000.85)
Repository types:	None
Actions:	None
Open Actions:	None
Viewers:	None
Features:	None
Layouts:	None

Register your custom Box event handler

Event Handler Name	Event Handler Java Class	Event Handler Configuration Class	Edit	Remove
Monitor Box Document Upload	com.ibm.ecm.extension.icmsample.boxeventhandler.MonitorBoxDocumentUpload	BoxEventHandlerSamplePluginDojo/HandlerConfigurationPane		

1. Go to Plugins tab and double-click the **IBM Case Manager Box Event Listener Plugin** to open the plugin.
2. Scroll down and click on **Register** to register the sample plugin with the following values

Name	Monitor Box Document Upload
Java Class ID	com.ibm.ecm.extension.icmsample.boxeventhandler.MonitorBoxDocumentUpload
Configuration Pane	BoxEventHandlerSamplePluginDojo/HandlerConfigurationPane

3. Select OK and save and close the plugin.
4. Go to Desktops and open the Case Manager administration desktop.
5. Scroll down to the Plugins section and enable the Box Event Handler Sample Plugin.
6. Save and Close. Refresh your browser.

Using the sample Box event handler in the Box event listener

Box Event Handler Configuration

* Target repository	<input type="text" value="ICMTARGET"/>
* Event handler	<input type="text" value="MonitorBoxDocumentUploa"/> <button>Add</button>

Event Handler Name	Event Handler Parameters	Edit	Remove
MonitorBoxDocumentUpload	{"documentClass":"BOXEH_SampleDocumentClass","solution":"Sample Box Event Handler Solution","folderName":"Sample Box Sub-Folder Name","fileDocToCase":true}		

Schedule Information

* Name	<input type="text" value="Sample Monitor Box document upload"/>		
Description:	<input box="" name\""="" sample="" sub-folder="" type="text" value="Processes Box Document uploads whenever someone uploads a Box document to a Box sub-folder called \"/>		
* Duration (in minutes)	<input type="text" value="15"/>		
* Duration (in seconds)	<input type="text"/>		

☒ Run once

* Start time:	<input type="text"/>		<input type="checkbox"/> Start immediately
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☐ Run on a schedule

* Repeats:	<input type="text" value="Daily"/>
* Interval:	<input type="text" value="Every 1 hour"/>
* Start date:	<input type="text"/>
End date:	<input type="text"/>

Notification

Schedule Information

* Name	Sample Monitor Box document upload
Description:	Processes Box Document uploads whenever someone uploads a Box document to a Box sub-folder called "Sample Box Sub-Folder Name"
* Duration (in minutes)	15
* Duration (in seconds)	

☒ Run once

* Start time: ☒ Start immediately

☐ Run on a schedule

* Repeats:

* Interval:

* Start date:

End date:

► Notification

1. After you registered the sample Box event handler, go to Task Manager tab and schedule a Box event listener task by selecting the "Schedule Task" dropdown.
2. Our event handler is called "Monitor Box Document Upload." Select the event handler, "Monitor Box Document Upload" from the event handler dropdown to display a configuration dialog for this event handler.
3. Choose your solution where you are watching for Box events.
4. Choose a document class to classify the uploaded Box document with.
5. Specify a Box sub-folder you want to watch for Box uploads.
6. Check the checkbox to file the document to the case if you want to (we should in our example).
7. Our example for these values look like the following:

Solution	Sample Box Event Handler Solution
Document Class	Sample Document Class
Folder Name to Monitor	Sample Box Sub-Folder Name
File document to case	Checked (True)

8. Click OK.

9. Specify the scheduling information for how frequent and long you want to listen to these events. We recommend the below to test the sample event handler:
 - **Name:** Monitor Box document uploads in Sample Box Sub-Folder Name
 - **Duration:** 15 minutes
 - **Run Once:** Start immediately.
10. Click Start to start listening to Box events!

Testing the sample event handler

1. Once you have the sample solution deployed, navigate to Case Client and open your solution.
2. Add a new case.
3. Search for and open the newly added case.
4. In the Document Information widget, select Add > Add Box Collaboration Folder
5. Navigate inside the Box collaboration folder by selecting the folder name or double-clicking.
6. Add a Box sub-folder and make sure the name is exactly the same as what you specified during the configuration step for the sample event handler. In our case, it would be "Sample Box Sub-Folder Name"
7. Open the sub-folder and add a document in this folder by going to Add > Add from Local System and browsing for a local document to add to this folder.
8. Once uploaded, this will trigger a Box document upload event that will be processed by our sample Box event handler. Our sample event handler will start a task that copies the uploaded Box document to the current case into the root Case folder give it a document class that you specified in the event handler configuration. This will in effect trigger a new Case to be created because we specified the starting Document Type in our solution. In this case, that would be "Sample Document Class".