

Using the Exception plug-in node in IBM Integration Bus

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IBM Integration Bus doesn't have a built-in node for capturing exception details in a message flow. This article shows you how to use the Exception plug-in node for this purpose, and reduce the development effort needed to create an exception flow.

Introduction

The Exception plug-in node requires IBM® Integration Bus V9 or later, and runs on both Microsoft® Windows® and Linux®. The plug-in node consists of two parts, a run-time JAR file (`ExceptionRuntime.jar`), and a design-time Toolkit plug-in (`ExceptionJavaPlugin.jar`), which provide the node for use in message flows.

Installing

To install the run-time component:

1. [Download ExceptionPlugin.zip](#) at the bottom of the article.
2. Unzip `ExceptionPlugin.zip`.
3. Copy `runtime/ExceptionRuntime.jar` to all of the machines running brokers that are required to run the node. Place the JAR file in `<IBM Integration Bus Runtime Install Directory>/plugins`:
 - Windows: `C:\Program Files (x86)\IBM\MQSI\9.0.0.0\jplugin`
 - Linux: `/opt/ibm/mqsi/9.0.0.1/jplugin`

To install the design-time component:

1. Unzip the plug-in zip file.
2. Copy `toolkit/ExceptionJavaPlugin.jar` and place in `<IBM Integration Bus Toolkit Install Directory>/plugins`. For example: `C:\Program Files (x86)\IBM\IntegrationToolkit90\plugins`.

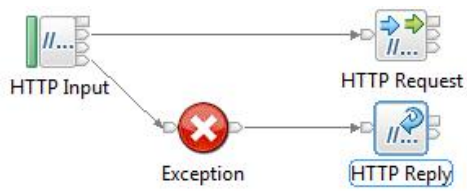
Uninstalling

1. Stop IBM Integration Bus and close the Toolkit.

2. Remove the runtime JAR file `ExceptionRuntime.jar` from the `<IBM Integration Bus Install Directory>/plugin` directory.
3. Remove the toolkit JAR file `ExceptionJavaPlugin.jar` from the `<IBM Integration Bus Toolkit Directory>/plugins` directory.
4. Start IBM Integration Bus and open the Toolkit.

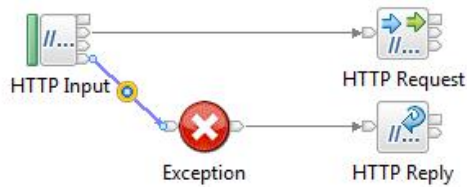
How the node works

The Exception node parses the `ExceptionTree` generated during message flow execution, and retrieves details such as Exception Code, Text, and Details. The following example shows how you can use the node in a message flow:

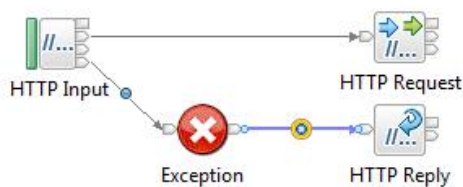


In this message flow, `HTTPRequest` throws a socket exception, and the Exception node retrieves the generated exception details.

Here is the flow execution in Debug mode. Before the Exception node:



After the Exception node. The Exception details are captured in `Environment`.



Message	
LocalEnvironment	
Environment	
Exception	
Code	3150
Text	An error occurred whilst performing a socket operation: getsockopt
Details	No connection could be made because the target machine actively refused it

Conclusion

IBM Integration Bus Exception node makes it much easier to capture exception details in a message flow, and avoids redundant code that you must reconfigure for every project.

Acknowledgments

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Downloadable resources

Description	Name	Size
Code sample	ExceptionPlugin.zip	95 KB

Related topics

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