

# **Managing an Invalid HTTP Request**

When receiving an invalid HTTP request, the iWay non-blocking HTTP (nHTTP) 1.1 listener will generate (as expected) the following error and send a status code of 200:

```
<?xml version="1.0" encoding="ISO-8859-1" ?><eda><error timestamp="2016-11-17T19:10:29Z"
code="3" stage="PARSE" source="Parser">Parser error in XML file: XD[FAIL] cause: 0
subcause: 0 message: Problems parsing XML file: Parse failure:
org.xml.sax.SAXParseException; lineNumber: 1; columnNumber: 1; Content is not allowed in
prolog.
```

However, it is also possible for a more defined error code to be sent rather than the standard 200 ("OK") code that acknowledges the received request. The 5xx Server Error codes are more appropriate. For this particular invalid request, the 550 error code, which indicates a system error, should be sent.

The following sample files are provided with this how-to:

- **HTTP\_TEST.zip** This channel archive contains a nHTTP listener that is configured to handle invalid requests by sending a 550 error code.
- **Parse\_Failure\_Flow.iwp** The pre-configured process flow that is called if the XML parsing fails for the incoming message.

# Importing the Channel Archive (HTTP\_TEST.zip)

This section describes how to import the channel archive (HTTP\_TEST.zip) that is included with this how-to.

- 1. Log on to the iSM Administration Console.
- 2. Click *Tools* in the menu bar located on the top of the iSM Administration Console and then click *Archive Manager* in the left pane.

The Archive Manager pane opens, as shown in the following image.

iWay Service Man Server Registry Deploy	ger Management base 🦷 🖉 ⊘ 😨 7.0.6.357 nents <u>Tools</u> Restart Licenses About Logout	
Applications Business Activity Monitor Enterprise Index Trading Partner Manager	Archive Manager The iWay Archive Manager is used to manage the addition/deletion of functionality within an iWay Service Manager configuration. Archive are specially designed files that contain components, metadata and configuration information. Archives are added/removed from a specific server instance. Choose Operation	
Diagnostics Log Viewer Imports/Exports Package Manager Archive Manager Deployment Manager Info	Archive Manager         Import components from a managed server         Import components from a repository archive         Add/Create/Download/Delete Archives	
Release Information Diagnostic Zip		

3. Select Add/Create/Download/Delete Archives and then click Next.

The Archive Manager - Add/Create/Download/Delete Archives pane opens.

4. Click Add.

The Archive Manager - Upload pane opens.

5. Click Choose File.

The Open dialog is displayed.

6. Select the *HTTP\_TEST.zip* file, which includes the sample channel archive and then click *Open*.

You are returned to the Archive Manager - Upload pane.

7. Click Finish.

You are returned to the Archive Manager - Add/Create/Download/Delete Archives pane where the archive you uploaded is now listed (HTTP\_TEST), as shown in the following image.

Server Registry Deploy	rments <u>Tools</u>		Resta	rt Licenses About Logout					
Applications Business Activity Monitor Enterprise Index	Archive Manager - Add/Create/Download/Delete Archives Upload, download, create and delete repository archives. Repository Archives								
Trading Partner Manager 🔲 Filter By Name Where Name 🔻 Equals 🔻									
Diagnostics	Name	Download	Last Modified	Description					
Log Viewer	BAMChannel	I.	Jul 1, 2016 01:05:38 AM	Channel for Business Activity Monitoring					
Imports/Exports Package Manager Archive Manager Deployment Manager	BAM_TID_RESUBMIT_CHANNEL		Jul 1, 2016 01:05:38 AM	Sample Channel for BAM_TID_RESUBMIT_CHANNEL with internal queue BAMTIDResubmitQueue and store configured with iwayhome\iwayconfig					
Info	HTTP_TEST	S)	Dec 2, 2016 06:31:58 PM						
Release Information Diagnostic Zip	iway_channelarchive_informix_oracle_cdc_replication	B)	Jul 6, 2016 12:37:16 PM	Informix to Oracle CDC					
	iway_package_informix_oracle_cdc_sregs-package	<b>B</b>	Jul 6, 2016 12:37:16 PM	SREG s informix cdc to Oracle channel					
	MSSQLServer_LEA_Channel	<b>S</b> .	Jul 6, 2016 12:37:16 PM						
	Oracle_LEA_Sample_Channel	B)	Jul 6, 2016 12:37:16 PM	This channel demonstrates usage of Oracle LEA. It includes catching DDL event and stopping the channel.					
	TPMChannel	<b>B</b>	Jul 6, 2016 12:37:16 PM	Channel used for delivering TPM Application.					
	trad_channels_10-06-2016	<b>I</b>	Oct 20, 2016 10:48:23 PM	trad_channels_10-06-2016					
	< Back Add Delete Create								

8. From the Archive Manager pane, select *Import components from a repository archive* and then click *Next*, as shown in the following image.

iWay Service Man	1ager Management base 🔹 🔕 📀 7.0.6.3572
Server Registry Deplo	yments <u>Tools</u> Restart Licenses About Logout
Applications Business Activity Monitor Enterprise Index Trading Partner Manager	Archive Manager The iWay Archive Manager is used to manage the addition/deletion of functionality within an iWay Service Manager configuration. Archive are specially designed files that contain components, metadata and configuration information. Archives are added/removed from a specific server instance. Choose Operation
Diagnostics Log Viewer Imports/Exports	Archive Manager         Import components from a managed server         Import components from a repository archive         Add/Create/Download/Delete Archives
Package Manager Archive Manager Deployment Manager	Next >>
Release Information Diagnostic Zip	

The Archive Manager - Import components from a repository archive pane opens, as shown in the following image.

ele	ct repository archive to import		
	Name	Last Modified	Description
0	BAMChannel	Jul 1, 2016 01:05:38 AM	Channel for Business Activity Monitoring
0	BAM_TID_RESUBMIT_CHANNEL	Jul 1, 2016 01:05:38 AM	Sample Channel for BAM_TID_RESUBMIT_CHANNEL with internal queue BAMTIDResubmitQueue and store configured with iwayhome\iwayconfig
۲	HTTP_TEST	Dec 2, 2016 06:31:58 PM	
0	iway_channelarchive_informix_oracle_cdc_replication	Jul 6, 2016 12:37:16 PM	Informix to Oracle CDC
0	iway_package_informix_oracle_cdc_sregs-package	Jul 6, 2016 12:37:16 PM	SREG s informix cdc to Oracle channel
0	MSSQLServer_LEA_Channel	Jul 6, 2016 12:37:16 PM	
0	Oracle_LEA_Sample_Channel	Jul 6, 2016 12:37:16 PM	This channel demonstrates usage of Oracle LEA. It includes catching DDL event and stopping the channel.
0	TPMChannel	Jul 6, 2016 12:37:16 PM	Channel used for delivering TPM Application.
	trad channels 10-06-2016	Oct 20, 2016 10:48:23 PM	trad channels 10-06-2016

9. Select the archive you uploaded (HTTP\_TEST) and click *Next*.

The Select components to overwrite pane opens, as shown in the following image.

A In th	Archive Manager Import configuration components from a managed server or from a repository archive. To import an archive you need to first have it uploaded to the server. Repository archive files can be uploaded on the Manage Archives page.						
	Som repla	ne or all components of aced with versions fro	contained in the arch m the archive.	ive are already in the repository. Select the repository components you would like to have			
		Component Name	Component Type	Description			
default.outlet Outlet Outlet The default.outlet defines an empty outlet. An outlet that does not contain an is considered a default outlet whose emitter is defined by the channels inlet is considered.							
	<< Ba	ck Next >>					

10. Click Next.

A status pane opens, which lists all of the iWay components that have been imported from the selected archive (HTTP\_TEST).

Archive Manager Import configuration the server. Repository	components from a managed server or from a repository archive. To import an archive you need to first have it uploaded to archive files can be uploaded on the Manage Archives page.
Status of importing	g archive HTTP_TEST
Success	Successfully imported listener HTTP_Test
Success	Successfully imported process HTTP_TEST
Success	Successfully imported inlet HTTP_Test
Success	Successfully imported route HTTP_Test
Success	Successfully imported channel HTTP_Test
< Back Finisl	1

11. Click Finish.

### Importing the Process Flow (Parse\_Failure\_Flow.iwp)

This section describes how to import the process flow (Parse\_Failure\_Flow.iwp) that is included with this how-to.

- 1. Open iWay Integration Tools (iIT).
- 2. Expand your Integration Project, right-click the *Flows* folder, and select *Import* from the context menu, as shown in the following image.



The Import dialog opens, as shown in the following image.

🔬 Import —		×
Select		
Import resources from the local file system into an existing project.	24	5
Select an import source:		
type filter text		
🗸 🗁 General		
🕼 Archive File		
🚔 Existing Projects into Workspace		
🗀 File System		
Carl Preferences		
> 🗁 iWay Integration		
> 🗁 CVS		
> 🤁 Install		
> 🗁 iWay Integration		
> 🗁 Maven		
> 🗁 Plug-in Development		
> 🗁 Run/Debug		
> 🗁 Team		
> 🗁 XML		
< Back Next > Finish	Cance	el 🛛

3. Expand the *General* folder, select *File System*, and then click *Next*.

The File system dialog opens, as shown in the following image.

🔌 Import				_		×
File system Import resources f	from the local file sy	stem.				
From directory:	C:\temp\iway_use_c	:ase_13		~	Browse	
🔳 🗁 iway_u	se_case_13		□ 🔍 HTTP_TES ☑ 韓 Parse_Failu	T.zip ıre_Flow.iwp		
Filter Types Into folder: Sam	Select All	Deselect All			Browse	
Options Overwrite exist Create top-lev	ting resources witho el folder	out warning				
Advanced >>						
?		< Back	Next >	Finish	Cance	el

- 4. Browse to the location on your file system where the *Parse\_Failure\_Flow.iwp* file is located. Select the check box that corresponds to the *Parse\_Failure\_Flow.iwp* file.
- 5. Click Finish.

The process flow (Parse\_Failure\_Flow.iwp) you imported is now listed under the Flows subfolder of your Integration Project, as shown in the following image.



6. Deploy (do not publish) the process flow to the iWay Service Manager (iSM) runtime configuration where your channel will be deployed.

# **Functionality Overview**

The channel archive (HTTP\_TEST.zip) that you imported to the iSM Administration Console, includes a preconfigured channel named HTTP\_TEST, which handles invalid HTTP requests by sending a 550 error message. This channel consists of an Inlet, Route, and an Outlet. The Inlet is an iWay non-blocking HTTP (nHTTP) 1.1 listener. The configuration settings for this nHTTP listener include the *HTTP Response Code* parameter that is set to the following value:



The *HTTP Response Code* parameter sets the Special Register (SREG) that will contain the 550 HTTP error code. As a result of specifying the grave accent (`) character, the *httpresp* SREG will be evaluated at the end of the worker running the process flow.

The pre-configured process flow (Parse\_Failure\_Flow) is called if the XML parsing fails for the incoming message.

The configuration settings for the nHTTP listener also includes the *Parse Failure Flow* parameter that is set to the following value:

\_\_\_\_\_

\_\_\_\_\_

#### Parse\_Failure\_Flow

### For example:

Events	
Failed ReplyTo Flow	Name of published process flow to run if a message cannot be emitted on an address in its reply address list.
Dead Letter Flow	Name of published process flow to run if an error cannot be emitted on an address in its error address list.
Channel Failure Flow	Name of published process flow to run if this channel cannot start or fails during message use. The server will attempt to call this process flow during channel close down due to the error.
Parse Failure Flow	Name of published process flow to run if XML parsing fails for incoming message           Parse_Failure_Flow
Channel Startup Flow	Name of published process flow to run prior to starting the channel.
Channel Shutdown Flow	Name of published process flow to run when the channel is shut down

This process flow handles the execution of the *httpresp* SREG. When the XML parsing fails for an incoming message, the deployed process flow (Parse\_Failure\_Flow) will be called, which sets the *httpresp* SREG to error code 550 and returns this value by the listener.

Start			set re	sp fail End	
Design Test Results	Trace				
🔲 Properties 🛛 🍳	Error Log	📮 Console	🛃 Problems	🙀 Data Source Explorer	
Service Object					
General	Name			Туре	Value
Туре	httpresp			string	550
Properties					
User Properties					
Pre-Execution					
Post-Execution					
Debug					