



iWay Integration Solution for TRADACOMS User's Guide

Version 7.0.x and Higher

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Contents

Preface	7
Documentation Conventions	8
Related Publications	. 9
Customer Support	. 9
Help Us to Serve You Better	10
User Feedback	12
Information Builders Consulting and Training	12
1. Introducing the iWay Integration Solution for TRADACOMS	13
Prerequisites for TRADACOMS	13
A Brief History of Electronic Data Interchange	14
Early Standardization Efforts	14
The TRADACOMS Standard	15
Components of a TRADACOMS Transmission and File Structure	15
Features of the iWay Integration Solution for TRADACOMS	16
TRADACOMS Syntax and Transmission Structure	17
Components of the iWay Integration Solution for TRADACOMS	18
Ebix	18
Listener	18
Preparser	19
Validation Report	19
Installing the iWay Integration Solution for TRADACOMS	19
2. Deployment Information for Your iWay Integration Solution	21
iWay Service Manager	21
iWay Correlation Facility	21
Using a Channel to Construct a Message Flow	22
Components of a Channel	23
3. Working With TRADACOMS Inbound and Outbound Applications Using iWay	
Integration Tools	25
TRADACOMS Inbound and Outbound Applications Overview	25
TRADACOMS Inbound and Outbound Applications Prerequisites	26
Extracting TRADACOMS User Samples	26

	Importing TRADACOMS User Samples to iIT as a Workspace	28
	Publishing iIAs to the iSM Registry	34
	Deploying iWay Integration Applications to iWay Service Manager	37
	Configuring Special Registers	. 40
	Stopping Inbound and Outbound Processing	46
	Testing Sample Applications	. 47
4. lı	nbound Processing: TRADACOMS to XML	.59
	Inbound Processing Overview	59
	Special Register Sets	. 61
	Sample Channel File Listener	. 62
	Sample Channel Preparser	63
	Sample Channel Process Flow	63
	Adding an Ebix to a Channel	. 64
	Rebuilding Your Application	. 65
5. 0	Outbound Processing: XML to TRADACOMS	. 69
	Outbound Processing Overview	69
	Special Register Sets	. 70
	Sample Channel File Listener	. 72
	Sample Channel Process Flow	73
	Adding an Ebix to a Channel	. 74
	Rebuilding Your Application	. 74
A. E	bix-Supported Transaction Set	. 79
	TRAD93	79
B. C	onfiguring the FDI Activity Driver	. 81
510	EDI Activity Driver Overview for TRADACOMS	81
	Configuring the FDI Data Provider	81
	Configuring the EDI Activity Driver	84
с II	long iWay Integration Table to Configure on Ebiy for TRADACOMS	01
U. U		. 91
		. 91
		. 91
• •		91
D. S	jample TRADACOMS Files	105

TRADACOMS ORDHDR (Order Header)	105
TRADACOMS INVFIL (Invoice File Header)	105

Contents

Preface

This documentation describes how to configure and use the iWay Integration Solution for TRADACOMS. It is intended for developers to enable them to parse, transform, validate, store, and integrate information into the existing enterprise and pass information electronically, to partners, in TRADACOMS-defined format.

Note: This Release 7.0.x content is currently being updated to support iWay Release 8.0.x software. In the meantime, it can serve as a reference for your use of iWay Release 8. If you have any questions, please contact *Customer_Success@ibi.com*.

How This Manual Is Organized

This manual includes the following chapters:

	Chapter/Appendix	Contents
1	Introducing the iWay Integration Solution for TRADACOMS	Describes the TRADACOMS standard and how the components of the iWay Integration Solution for TRADACOMS streamline the flow of information.
2	Deployment Information for Your iWay Integration Solution	Describes the iWay products used with your iWay Integration Solution for TRADACOMS and provides a roadmap to full information on those products. Introduces the concept of a channel for the construction of a message flow in iWay Service Manager.
3	Working With TRADACOMS Inbound and Outbound Applications Using iWay Integration Tools	Describes how to work with TRADACOMS inbound and outbound applications using iWay Integration Tools (iIT).
4	Inbound Processing: TRADACOMS to XML	Includes an overview of the iWay business components and processing steps in a basic inbound message flow. The message flow converts a document from TRADACOMS format to XML format. Also includes instructions for configuring a basic inbound message flow.

	Chapter/Appendix	Contents
5	Outbound Processing: XML to TRADACOMS	Includes an overview of the iWay business components and processing steps in a basic outbound message flow. The message flow converts a document from XML format to TRADACOMS format. Also includes instructions for configuring a basic outbound message flow.
A	Ebix-Supported Transaction Set	Describes the TRADACOMS transaction set supported by the iWay Integration Solution for TRADACOMS in the Ebix file that is supplied with the product.
В	Configuring the EDI Activity Driver	Describes how to configure the EDI Activity Driver using iWay Service Manager.
С	Using iWay Integration Tools to Configure an Ebix for TRADACOMS	Describes how to use iWay Integration Tools (iIT) to configure an e-Business Information Exchange (Ebix) file for TRADACOMS.
D	Sample TRADACOMS Files	Provides sample TRADACOMS files.

Documentation Conventions

The following table describes the documentation conventions that are used in this manual.

Convention	Description
THIS TYPEFACE or this typeface	Denotes syntax that you must enter exactly as shown.
this typeface	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.
underscore	Indicates a default setting.
Key + Key	Indicates keys that you must press simultaneously.
{}	Indicates two or three choices. Type one of them, not the braces.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.

Convention	Description
	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis ().
· ·	Indicates that there are (or could be) intervening or additional commands.

Related Publications

Visit our Technical Documentation Library at *http://documentation.informationbuilders.com*. You can also contact the Publications Order Department at (800) 969-4636.

Customer Support

Do you have any questions about this product?

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Call Information Builders Customer Support Services (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00 a.m. and 8:00 p.m. EST to address all your questions. Information Builders consultants can also give you general guidance regarding product capabilities and documentation. Please be ready to provide your six-digit site code number (*xxxx.xx*) when you call.

To learn about the full range of available support services, ask your Information Builders representative about InfoResponse Online, or call (800) 969-INFO.

Help Us to Serve You Better

To help our consultants answer your questions effectively, be prepared to provide specifications and sample files and to answer questions about errors and problems.

The following tables list the environment information our consultants require.

	-
Platform	
Operating System	
OS Version	
JVM Vendor	
JVM Version	

The following table lists the deployment information our consultants require.

Adapter Deployment	For example, JCA, Business Services Provider, iWay Service Manager
Container	For example, WebSphere
Version	
Enterprise Information System (EIS) - if any	
EIS Release Level	
EIS Service Pack	
EIS Platform	

The following table lists iWay-related information needed by our consultants.

iWay Adapter	
iWay Release Level	
iWay Patch	

The following table lists additional questions to help us serve you better.

Request/Question	Error/Problem Details or Information
Did the problem arise through a service or event?	
Provide usage scenarios or summarize the application that produces the problem.	
When did the problem start?	
Can you reproduce this problem consistently?	
Describe the problem.	
Describe the steps to reproduce the problem.	
Specify the error message(s).	
Any change in the application environment: software configuration, EIS/database configuration, application, and so forth?	
Under what circumstance does the problem <i>not</i> occur?	

The following is a list of error/problem files that might be applicable.

- □ Input documents (XML instance, XML schema, non-XML documents)
- Transformation files
- Error screen shots
- Error output files
- □ Trace files

Service Manager package to reproduce problem

- Custom functions and agents in use
- Diagnostic Zip
- Transaction log

For information on tracing, see the *iWay* Service Manager User's Guide.

User Feedback

In an effort to produce effective documentation, the Technical Content Management staff welcomes your opinions regarding this document. Please use the Reader Comments form at the end of this document to communicate your feedback to us or to suggest changes that will support improvements to our documentation. You can also contact us through our website, *http://documentation.informationbuilders.com/connections.asp.*

Thank you, in advance, for your comments.

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Introducing the iWay Integration Solution for TRADACOMS

The iWay Integration Solution for TRADACOMS transforms TRADACOMS documents into standard XML format, or transforms XML representations into TRADACOMS format.

This section provides an overview of TRADACOMS and describes the features that are provided by the iWay Integration Solution for TRADACOMS.

In this chapter:

- Prerequisites for TRADACOMS
- A Brief History of Electronic Data Interchange
- Components of a TRADACOMS Transmission and File Structure
- Features of the iWay Integration Solution for TRADACOMS
- Components of the iWay Integration Solution for TRADACOMS
- Installing the iWay Integration Solution for TRADACOMS

Prerequisites for TRADACOMS

Before you use the iWay Integration Solution for TRADACOMS for inbound (TRADACOMS to XML) and outbound (XML to TRADACOMS) processing, ensure that the following prerequisites are met:

- You have a working knowledge of iWay Service Manager (iSM).
- □ You have a working knowledge of iWay Integration Tools (iIT).
- □ iSM Version 7.0.6 is installed.
- □ iIT Version 7.0.6 is installed.
- iWay Integration Solution for TRADACOMS (Patch) is installed.
- System and channel Special Registers (SREGs) are updated to match your directory structure.

A Brief History of Electronic Data Interchange

Electronic Data Interchange (EDI) is a set of standards for formatting information that is electronically exchanged between one business and another, or within a business. These standards describe how documents for conducting certain aspects of business—such as purchase orders and purchase order acknowledgements—are structured.

By specifying a standardized, computer-readable format for transferring data, EDI enables the automation of commercial transactions around the world. It provides a common, uniform language through which computers can communicate for fast and efficient transaction processing.

Early Standardization Efforts

Before the development of standards, many businesses used proprietary systems to exchange trading information such as purchase orders and invoices. However, they recognized the economic need for a faster, less costly way to process information in order to stay competitive in the business world. Business sectors such as transportation, grocery supply, and banking drove the creation of standards for the communication of data.

In 1968, the United States Transportation Data Coordinating Committee (TDCC) was formed to oversee the design and development of format standards for transportation documents. In 1975, the TDCC released its first standard, the Rail Transportation Industry Application.

The Rail Transportation Industry Application focused on the content of a message—rather than the means of transmission—through the use of transaction sets. A *transaction set* is a business document that consists of an arrangement of data segments. The data segments include data elements in an exact order. The concept of the transaction set is the basis of the EDI ANSI X12 standard created later and widely used today.

About the same time that the TDCC was formed, the United Kingdom (UK) started its own effort to develop standard transaction documents for trans-Atlantic trade. The UK Department of Customs and Excise, with the help of the British Simplification of Trade Procedures Board (SITPRO), developed a competitive document standard for international trade, named TRADACOMS.

The TRADACOMS Standard

TRADACOMS is an early standard for EDI used in the UK retail and grocery sector. It was introduced in 1982 as an implementation of the UN/GTDI syntax, one of the precursors of EDIFACT, and was maintained and extended by the UK Article Numbering Association (now called GS1 UK). The standard is obsolescent since development of it effectively ceased in 1995 in favor of the EDIFACT EANCOM subsets. Despite the fact that further development of TRADACOMS effectively ceased in 1995, it has proved durable and the majority of the retail EDI traffic in the UK still uses TRADACOMS.

Components of a TRADACOMS Transmission and File Structure

A TRADACOMS transmission consists of:

- □ A Start of Transmission Segment (STX)
- One or more messages
- □ An optional Reconciliation Message (RSGRSG)
- □ An End of Transmission Segment (END)

A TRADACOMS File consists of a series of Messages. Each Message has a similar overall structure, beginning with a Message Header Segment (MHD) and ending with a Message Trailer Segment (MTR). The contents, however, are different for each transaction type or File Format (for example, Orders, Invoices), and these are specified in the individual format specifications.

Normal practice should be to send one file per STX envelope. However, in library implementations, when several libraries trade through a shared EDI gateway, it is more efficient to send multiple files of the same type in a single STX envelope. This practice should be agreed between trading partners.

Each segment consists of:

- Segment label (for example, STX)
- □ Separator (=)
- One or more Data elements
 - Data (coded or free-text as permitted by rules)
 - □ Separator (:)
 - Data

Data Element terminator (+)

Segment terminator (')

For example:

STX=ANAA:1+5012345678987:LIB+5098765432123:SUPP+01906+246359++BTOERS2'

The five characters that are listed and described in the following table have special significance in a TRADACOMS transmission.

Character	Description
=	The equals sign is used to separate a segment label from the first data element in the segment.
+	The <i>plus sign</i> is used to separate successive data elements within a segment.
:	The <i>colon</i> is used in composite data elements to separate successive component sub-elements.
،	The apostrophe is used to terminate a segment.
?	The <i>question mark</i> is used as a "release character". When any of these five characters with special meaning is required as part of the text content of a data element, it must be preceded by the release character in order to ensure that it is not misinterpreted. For example, <i>O'REILLY</i> must be sent as <i>O?'REILLY</i> . Note that the release character is not counted as part of the length of the data element.

Features of the iWay Integration Solution for TRADACOMS

The standards-based iWay Integration Solutions for Electronic Commerce reduces the amount of effort it takes to integrate document transformations with your internal enterprise applications and third-party trading partners. It includes conversion and validation of documents to XML format, making it easy to include documents in your XML-based integration projects.

Features include:

□ Integration with iWay Service Manager (iSM).

- □ Integration with iWay Trading Partner Manager (iTPM).
- □ Integration with more than 200 other information assets, including popular back-office systems, databases, and front-office systems.
- □ Integration with leading application servers. Some of the popular platforms are BEA WebLogic, IBM WebSphere, Sun Java Enterprise System, and Oracle Application Server.
- Support for synchronous and asynchronous bi-directional interactions for documents between application servers, integration brokers, third-party software packages, and messaging services.
- Out of the box Ebix-based support for transaction sets. For more information, see Ebix-Supported Transaction Set on page 79.
- A Reusable framework for parsing, transforming, and validating documents without the need to write custom code.
- A data dictionary approach to facilitate transformations to XML. All iWay Integration Solutions use dictionaries to transform data from standard format to any other format, or from any format to standard format. They support flat files, comma-delimited files, popular relational database formats, XML, and more.
- Pre-built data dictionaries, XML schemas, transformation templates, and rule files for automatic transformation and validation of input and output documents.

TRADACOMS Syntax and Transmission Structure

The syntax is a looping data structure. Elements are variable length. Here are some other highlights:

- Batches begin with an STX segment and terminate with an END segment.
- □ The segment tag delimiter is an equal sign character (=) rather than a data element separator.
- Only implicit decimals are used.
- All dates use a six digit format (YYMMDD).

Any segment can occur only once in a TRADACOMS message definition. Segments tend to be very specific with a qualifier to identify their function.

TRADACOMS uses *Files* with one or more examples of the message being preceded by a header message, and followed by one or more trailer messages. This avoids the duplication of common header and trailer information which can occur in other standards.

TRADACOMS files are only intended to be used within the UK. They make no allowance for currencies other than Sterling. Tax information is also geared to UK requirements.

For more information, see the sample documents in Sample TRADACOMS Files on page 105.

Components of the iWay Integration Solution for TRADACOMS

iWay business components used in the construction of a message flow for TRADACOMS transactions include:

- e-Business Information Exchange (Ebix) File
- Listener
- Preparser
- Validation Report

Ebix

iWay Software provides the various Ebix files to use in conjunction with iWay integration solutions.

For more information on the supported documents and transaction set, see *Ebix-Supported Transaction* Set on page 79.

An Ebix is a collection of metadata that defines the structure of data.

Each document includes:

- □ A data dictionary, which describes the segments and elements that compose each document. The dictionary is used to validate and transform per the standard.
- An XML schema.
- □ A TRADACOMS to XML transformation template.
- □ A rule file, which validate business rules as defined by the standard or the user.

Listener

A listener is an iWay business component, which picks up an incoming message on a channel. The sample channel includes a File listener, which acquires transactions placed into a specified directory on a file system.

Preparser

A preparser is an iWay business component that converts incoming messages into XML documents.

Validation Report

A validation report service is created as an XML document in the data flow. The report consists of the input message, the output message, and a section that indicates *SUCCESS* or *ERROR*, and any error message from transformation. On *ERROR*, this report can be routed for inspection, remediation, and possible reprocessing.

Installing the iWay Integration Solution for TRADACOMS

For more information on the files and components described in this section (including installation instructions), see the *i706000SM1394 Patch Release Notes*.

The iWay Integration Solution for TRADACOMS includes the following files for installation:

- **iwtrad.jar.** A new .jar file.
- □ iwtransc.jar. A modified .jar file.
- **TRAD_TRAD93.ebx.** Ebix file for the supported TRADACOMS transaction set.
- □ **TRADACOMS_accelerator.zip.** This .zip file contains a predefined directory structure that is used by inbound and outbound channels to route documents as they are processed. All iWay E-Commerce adapters share a common paradigm for these directories.

Procedure: How to Install the iWay Integration Solution for TRADACOMS

 Unzip the TRADACOMS_accelerator.zip file to a location on your file system. For example: C:\TRADACOMS_accelerator

Note: You must set the *TRAD_Installdir* Special Register (SREG) in the iSM Administration Console to reflect this location.

- 2. Stop iWay Service Manager (iSM).
- 3. Install patch *i*706000SM1394.

You can also manually copy the following .jar files to the <ism_home>\lib directory:

- iwtrad.jar
- iwtransc.jar

- 4. Start iSM.
- 5. Deploy and start the iWay Integration Application (iIA) containing the sample channels using iWay Integration Tools (iIT).

For more information, see BAD XREF HERE "Import the Archive for Sample Inbound and Outbound Channels.



Deployment Information for Your iWay Integration Solution

This topic describes the iWay products used with your iWay Integration Solution for TRADACOMS and provides a roadmap to full information on those products.

It also introduces the concept of a channel for the construction of a message flow in iWay Service Manager.

In this chapter:

- iWay Service Manager
- iWay Correlation Facility
- Using a Channel to Construct a Message Flow

iWay Service Manager

iWay Service Manager (iSM) is the heart of the Universal Integration Framework and is an open transport service bus. iSM uses graphical tools to create sophisticated integration services without writing custom integration code by:

- Using metadata from target applications
- □ Transforming and mapping interfaces
- Managing stateless processes

Its capability to manage complex integration interactions makes it ideally suited to be the foundation of a service-oriented architecture.

For more information, see the IWay Service Manager User's Guide.

iWay Correlation Facility

The iWay Correlation Facility (also known as the Correlation Manager) maintains records of anticipated activities occurring in the system. Correlation actions take the correlation from OPEN to CLOSED state, and allow history to be recorded. Agents are provided to implement Correlation Facility interactions within process flows, however, it is possible to use this API to accomplish this same purpose within your own exits.

For more information on using the iWay Correlation Facility, see the *iWay Service Manager User's Guide* and the *iWay Service Manager Programmer's Guide*.

Using a Channel to Construct a Message Flow

The following diagram shows the channel components available in the construction of a message flow.

The value *n* underneath a component name indicates how many instances of that component occur in a channel configuration (for example, zero, one, or more than one).



The required components are shown in **bold**.

Components of a Channel

A channel consists of:

- An inlet, which defines how a message enters a channel.
- A route, which defines the path a message takes through a channel.
- Outlets, which define how transformed messages leave a channel.
- Ebix files, which are collections of metadata that define the structure of data.

iSM provides a design-time repository called the Registry, where you assemble and manage the components in a channel.

Inlets contain:

- A listener, which brings the incoming message into the channel.
- Decryptors, which apply a decryption algorithm to an incoming message and verifies the security of the message.
- Preparsers, which convert incoming messages to XML.

Routes contain:

- Transformers
- Reviewers
- Validation rules processors
- Process flows (pflow). This stateless, lightweight, short-lived microflow is executed to carry a message through processing. Pflows are created using iWay Integration Tools (iIT) and are persisted to the Registry.
- Java services, which handle the business logic of processing a message.
- Adapters, which are used to connect to back-end systems.

Outlets contain:

- Preemitters.
- Encryptors.
- Emitters.

For more information on all of these components, see the *iWay Service Manager User's Guide*.



Working With TRADACOMS Inbound and Outbound Applications Using iWay Integration Tools

This chapter describes how to work with TRADACOMS inbound and outbound applications using iWay Integration Tools (iIT).

In this chapter:

- TRADACOMS Inbound and Outbound Applications Overview
- TRADACOMS Inbound and Outbound Applications Prerequisites
- Extracting TRADACOMS User Samples
- Importing TRADACOMS User Samples to iIT as a Workspace
- Publishing ilAs to the iSM Registry
- Deploying iWay Integration Applications to iWay Service Manager
- Configuring Special Registers
- Stopping Inbound and Outbound Processing
- Testing Sample Applications

TRADACOMS Inbound and Outbound Applications Overview

This chapter provides instructions to create, import, export, and work with TRADACOMS inbound and outbound applications.

The previously deployed iIA and channels will be used to transform TRADACOMS to XML for inbound processing and XML to TRADACOMS for outbound processing.

The inbound application channel creates an XML representation of a TRADACOMS inbound message, and an XML-formatted validation report. The documents are routed based on the success or failure of transformation.

The outbound application channel creates a TRADACOMS message from XML and a XMLformatted validation report. The documents are routed based on the success or failure of transformation.

TRADACOMS Inbound and Outbound Applications Prerequisites

Before you continue, ensure that the following prerequisites are met:

- I You have a working knowledge of iSM and iIT.
- □ iSM Version 7.0.6 is installed.
- iWay TRADACOMS Adapter is installed.
- □ iIT Version 7.0.6 is installed.
- System and channel Special Registers (SREGs) are updated to match your directory structure, as shown in *How to Extract User Samples for TRADACOMS* on page 26.

Extracting TRADACOMS User Samples

This section describes how to extract user samples for TRADACOMS.

Procedure: How to Extract User Samples for TRADACOMS

1. Download the TRAD_usr_samples.zip file containing TRADACOMS user sample workspace from the following website:

http://techsupport.informationbuilders.com

The downloaded TRADACOMS_usr_samples.zip contains the following files:

- □ TRADACOMS_Accelerator.zip
- □ TRAD_usr_samples_iIT_workspace.zip
- 2. Save the TRADACOMS_usr_samples_iIT_workspace.zip file to a folder on your local drive.

3. Unzip the TRADACOMS_Accelerator.zip file to the location where you want to store your data, as shown in the following image.

\mu C:\TRADACOMS_accelerator\TRAD_ir		
C:\TRADACOMS_	accelerator\TRAD_in	- 4 € S
<u>File Edit View Tools H</u> elp		6
Orozoite * Jackude in library *	Share with a Bure New folder	
The second secon		
TRADACOMS_accelerator	Name Date modified Type	Size
E ID Arshim	IB_Archive 10/27/2016 11:42 File fold	er
ID_Archive	IB_Error 10/27/2016 11:42 File fold	er
ID_EFFOR	3 IB_Output 10/17/2016 10:25 File fold	er
B Durot	IB_Report 10/27/2016 11:42 File fold	er
ID Report	IB_TransformGood 8/15/2016 12:00 PM File fold	er
CP Archin	B/23/2016 12:32 PM File fold	er
OB_Archive	B OB_Error 12/19/2012 12:26 File fold	er
B OB Output	OB_Output 8/15/2016 12:00 PM File fold	er
B OB Perpet	B OB_Report 12/19/2012 12:26 File fold	er
B OB TransformGood	B OB_TransformGood 12/19/2012 12:26 File fold	er
TRAD out		
B Archive		
B Error		
B Output		
B Report		
B TransformGood		
B Archive		
B OB Archive - Copy		
<	E	
10 items		

The TRADACOMS_Accelerator.zip file contains sample input and output data that you can use.

□ Inbound test data is located in the following folder:

```
\TRADACOMS_Accelerator\TRAD_in\IB_Archive
```

For example:

C:\TRAD_SHARE\TRADACOMS_accelerator\T	[RAD_in\JB_Archive					×
C:\TRAD_SHARE\TRADA	COMS_accelerator\TRAD_in\IB_Archive	- - - + + + + + + + + + +	Search IB_Archive	2		Q
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		•	💰 🗅 🗋) X 🗸		\bigcirc
Organize 👻 📴 Open 👻 Share with	n ▼ Burn New folder			885 💌		0
TRADACOMS_accelerator ^	Name	Date modified	Туре	Size		*
TRAD_in	STX_INVFIL_MORRISONS.EDI	8/23/2016 12:22 PM	EDI File		8 KB	
JB_Archive	STX_INVFIL_OCADO (2).EDI	8/23/2016 12:22 PM	EDI File		14 K.B	
JB_Error	STX_INVFIL_OCADO.EDI	8/23/2016 12:22 PM	EDI File		11 KB	
3 IB_Output	STX_INVFIL_SAINSBURYS (2).EDI	8/23/2016 12:22 PM	EDI File		4 KB	

□ Outbound test data is located in the following folder:

\TRADACOMS_Accelerator\TRAD_out\OB_Archive

For example:

C:\TRAD_SHARE\TRADACOMS_accelerate	or\TRAD_out\OB_Archive				×
C:\TRAD_SHARE\TRA	DACOMS_accelerator\TRAD_out\OB_Archive	- 4	Search OB_Archiv	ie	Q
<u>F</u> ile <u>E</u> dit ⊻iew <u>T</u> ools <u>H</u> elp		•	💰 🗅 🗋] 🗙 🗸 🖃	0
Organize 💌 Include in library 💌	Share with Burn New folder			ii • 🖬	0
TRADACOMS_accelerator TRAD_in TRAD_out IB_Archive IB_Error IB_Output IB_Cutput IB_Report	Name AAH_Lloyds_Tradacoms_Order unit cost AAH_Lloyds_Tradacoms_Order_2016-08 Asda_Walmart_Tradacoms_Order_2016-0 gen_order1_2016-08-18T15_42_24_883200 order with multiple lines_2016-08-18T16	Date modified 8/23/2016 11:59 AM 8/22/2016 1:36 PM 8/19/2016 3:37 PM 8/24/2016 11:38 AM 8/24/2016 11:32 AM	Type XML File XML File XML File XML File XML File	Size 28 KB 28 KB 4 K8 9 K8 158 KB	
UB_TransformGood					

Importing TRADACOMS User Samples to iIT as a Workspace

This section describes how to import TRADACOMS user samples to iWay Integration Tools (iIT) as a workspace.

Procedure: How to Import TRADACOMS User Samples to iIT as a Workspace

1. Start ilT.

2. Right-click anywhere inside the Integration Explorer tab and select *Import...* from the context menu.



The Import dialog opens.

🛛
Ľ

3. Expand the General folder, select Existing Projects into Workspace, and then click Next.

🛃 Import Import Projects

The Import Projects pane opens, as shown in the following image.

Select a directory to se	arch for existing Eclipse	projects.		
 Select root directory Select archive file: 				Browse
Projects:				
				Select All
				Deselect All
				Refresh
Copy projects into v	vorkspace			
Working sets				
Add project to wo	rking sets			
Working sets:				Select
?	< <u>B</u> ack	Vext >	Einish	Cancel

4. Click Select archive file and then click Browse.

💰 Select archive containing the projects to import					×
· · trad_channels ·				arch trad_channels	م
Organize 👻 New folder				8= - E	0
🐏 WIN7VIG	Name	Date modified	Туре	Size	
Control Panel	TRAD_usr_samples_pri	12/12/2016 9:31 AM	File folder		
Recycle Bin	X12_usr_samples_prj	8/15/2016 12:58 PM	File folder		
🍰 cda schemas	TRAD_usr_samples_iIT_workspace.zip	12/12/2016 9:31 AM	WinZip File	2,109 KB	
coty tradacoms samples					
hiT channels					
antim zins et al					
pete					
spo-3753					
trad_channels					
TRAD_usr_samples_prj					
X12_usr_samples_prj					
🌉 TRAD_usr_samples_iIT_workspace.zip					
FDC_Stock_Channels.zip					
🔍 xmltox12_sreg_delim_pflow_sev1550-char					
*					
File name: TRAD use samples	iIT workspace.zip		• *.ia	r:*.zip:*.tar:*.tar.oz:*.toz	•
				Upen 🔽 Can	cel
					A

The Select archive containing the projects to import pane opens.

5. Select the TRAD_usr_samples_ilT_workspace.zip file and click Open.

You are returned to the Import Projects pane, as shown in the following image.

🔬 Import		- • •
Import Projects Select a directory to sear		
 Select root directory: Select archive file: Projects: 	C:\Users\b111749\Desktop\trad_channels\TRAC	Browse
TRAD_usr_sampl	es_prj (TRAD_usr_samples_prj)	Select All
Copy projects into we Working sets Add project to work Working sets:	vrkspace ing sets	Sglect
?	< <u>B</u> ack Next > Einish	Cancel

6. Click Finish.

The TRADACOMS user samples are loaded into your iIT workspace, as shown in the following image.



The Integration Explorer tab on the left pane displays a hierarchy of all the imported channel components (for example, Ebixes, listeners, outlets, preparsers, routes, process flows, and so on).

Publishing ilAs to the iSM Registry

This section describes how to publish iWay Integration Applications (iIAs) to the iWay Service Manager (iSM) Registry.

Procedure: How to Publish ilAs to the iSM Registry

1. In the Integration Explorer tab, right-click the application name, select *Integration Tools* from the context menu, and then click *Publish to...*, as shown in the following image.

File Edit Navigate Search Project Run Window Help
Inte Image: Second Se
Intel: Intel: Intel: Intel: Import Intel:
Import
▲ TRAD_usr_samples_prj Adapters Adapters ▲ Applications ▶ Grannels △ Channels △ Emitters △ Inlets △ Disteners △ Open △ Open ○ Preparse ○ Duplicate ○ Duplicate ○ TRADTo ◇ Tranne □ Export □ Tranne
 Adapters Applications ♦ tradacon ♦ Channels > Channels > Channels > Open > Open > Open With > Copy > Paste > Duplicate > Duplicate > Delete > Move > Ebixes > TRADTo > TRADto
Applications Channels Channels Channels Channels Channels Channels Copen Open Open Open Copy Copy Preparse Copy Preparse Copy Paste Duplicate Duplicate Delete Move Rename Flows Flows TRADTox TRADtox TRADtox TRAD TRADtox TRAD
Image: Second
Inlets Open Inlets Open Inlets Open With Itsteners Open With Itsteners Duplicate Itsteners Duplicate Itsteners Delete Itsteners Move Itsteners Inport
Inlets Open With Isteners Open With Outes Duplicate Preparse Duplicate Image: Starse Duplicate Image: Starse Delete Move Rename Image: Starse Image: Starse Image: Starse Image: Starse Image: Starse Image: Starse Image: Starse Refresh
Isteners Image: Copy Image: Outlets Paste Image: Outlets Image: Outlets
➢ Outes Preparse ➢ Preparse Paste ➢ Routes Duplicate ➢ TRADTOF Delete ➢ Ebixes Move ➢ Ebixes Rename ➢ TRADtoN Import ➢ TRADtoN Export ➢ Registers Refresh
Prepare Prepare Prepare Prepare Duplicate D
> ■ TRADTo > ■ XmIToTF > ■ TRAD > ■ TRAD > ■ TRAD > ■ TRADTo
▷ ≣ XmIToTF Move ▷ ▷ Ebixes Move ► ▷ TRAD Rename ▷ TrADtox TrADtox ▷ ▷ TrADtox TrADtox ► ▷ TrADtox TrADtox ▷ TrADtox TrADtox ► Registers TRAD Refresh
→ Ebixes Move → TRAD Rename → Flows Import → 数 XMLToT Import → Registers > → TRAD Refresh
▷ ▷ TRAD Nervarine ▷ ▷ Flows Import ▷ 烫 XMLToT Import ▷ ▷ TRAD Import ▷ ▷ TRAD Import ▷ ▷ TRAD Import
> 100 m2 import > 100 m2 import > 100 m2 import > 100 m2 Export ≥ Registers 100 m2 TRAD Refresh
Dig XMLToT Export Registers TRAD Refresh
Constant A Consta
XMLTRA Validate
🗁 Schemas 🛛 🙀 Run As
Contraction Debug As
Error Log Console M Problems
Compare With Value
Replace With
Integration Tools Publish Ctrl+I, F
Properties Publish to Ctrl+I, P
Deploy Ctrl+I, D
Build
Report

The Publish Resource Wizard dialog opens.

Server Info	rmation:	http:///		
2	erver URL:	nup///ocamoscauuu		•
U	lser Name:	rway		
E Denoiseas kui	assword:	••••		
Previously Published:		Server	Publish Date	
		http://localhost:9000	12/12/2016 00:18:54 PM	•
Keystore ar	nd Truststo	re:		
Keystore:	None			Ŧ
Truststore:	None			Ŧ

2. In the Server URL field, type the server IP number or computer name and then the port number (default port is 9000). For example:

http://111.111.111.000:9000

Type the iSM credentials (for example, user name: *iway*, password: *iway*).

3. Click Finish.

The Console tab on the bottom provides a status log that you can use for verification purposes, as shown in the following image.

Properties 📮 Console 🖾	
<terminated> TRAD_usr_samples_prj build.xml [Ant Build] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (Dec 12, 2016 11:10:59 AM)</terminated>	
upload:	
[iwupload] Uploading Application "TRAD_usr_samples_App" at C:\iIT 7.0.6 GA\iIT-7.0.6\TRADACCNNS workspace\TRAD_usr_samples_prj\App	licat
[iwupload] Logging in as iway	
[<u>iwupiad</u>] Done.	
uservary. Indeploy! Deploying Application "TBAD use samples App" to http://localbost:9000 as "TBAD use samples App" using template "caw".	
[indeploy] Logging in as inay	
[iwdeploy] Done.	
start:	
[imstart] Logging in as imay	
[istart] Checking status	
[<u>imstart</u>] upinged application "INAU_usr_samples_App" on http://localnost:9000 is down	
Table 1 aparts and the second	
Deploying iWay Integration Applications to iWay Service Manager

This section describes how to deploy iWay Integration Applications (iIAs) to iWay Service Manager (iSM).

Procedure: How to Deploy iWay Integration Applications to iWay Service Manager

1. Enter the following URL to access the iSM Administration Console:

```
http://[host]:[port]/ism
```

where:

host

Is the host machine where iSM is installed. The default value is *localhost*.

port

Is the port where iSM is listening. The default port is 9999.

2. After publishing the iIA, you can find it under the Management\Applications link in the iSM Administration Console, as shown in the following image.

Server Registry Depl	a ger oyments Too			Management	base Restart	Licenses	Image: Weight of the second
Application Management Deployments	Applications Upload/Download be deployed, sta	d/Delete applications rted, stopped and de	. iWay Integration Ap leted without affectin	oplication (IIA) is an int g other IIAs.	tegration solution with	dedicated runti	me environment. It can
Applications	Application	Actions	Owner	Version			
Templates	tradacoms	🙁 🎲 🕼 🍘 💌	bl11749@Briantp	12/12/16 13:42:05	1		
Server Management	New Im	port			<i>a</i>		
Users							
Server Roles							
Test Servers							
Remote Servers							

3. Click the *Deploy* icon I next to the application name under the Actions column.

The Deployments pane opens, as shown in the following image.

iWay Service Man	ager Ioyments Tools	Management base Res	• 🧭 🧭 😨 7.0.6.3572 Start Licenses About Logout
Application Management Deployments	Deployments - New Deploy Deploy an application	ment	
Applications	Deploy application tradad	:oms (12/12/16 13:42:05)	
Templates Events	Deployment Name	Use an auto-generated name below or provide a custom name.	
Servers Users	Deploy As Test Server	Selecting this option makes the deployment available as a server whe	re you may test run your components.
Server Roles Test Servers Remote Servers	Port	Port the console will listen on 10001	
	Application Description	An automatic description is generated by default.	
	< Back Deploy Re	eset	

- 4. Click Deploy.
- 5. From the Management drop-down list, select your deployed application.

iWay Service Man	1 ager Iloyments Tools		Management	base T Admin base	 Ø Ø 7.0.6.3572 es About Logout
Application Management Deployments	Applications Upload/Download/Delete applications be deployed, started, stopped and de	. iWay Integration Ap leted without affectin	oplication (IIA) is an in g other IIAs.	Applications tradacoms Templates Test TRAD_usr_samples_App_2 [down]	runtime environment. It can
Applications Templates Events	Application Actions tradacoms 💿 🎲 🙀 😭 🗙	Owner bl11749@Briantp	Version 12/12/16 13:42:05	-	
Server Management	New Import	•	•	-	
Users Server Roles Test Servers					
Remote Servers					

- 6. Click Server in the top menu and then *Register Settings* in the left pane for the application.
- 7. Click *Add* to create all required registers (*TRAD_Installdir*, *TRAD_Input*, *TRAD_Output*, and *ValidateTRAD*) for the application.

For more information, see BAD XREF HERE "Setting Registers in the iWay Service Manager Administration Console.

8. In the State column, click the *Deployment State* icon to start the deployed Application.

iWay Service Mar	nager				Management	base		• 🔕	0	7.0.6.3572
Server Registry <u>Der</u>	oloyments Tool	s					Restart	Licenses	About	Logout
Application Management	Deployments Monitor and man	age deployed	application	IS						
Deployments		1								
Applications	Deployment	Actions	State	Since	Application	Template	Source			
Templates	tradacoms	🗷 😂 💌	0	12/12/16 12:19:06	tradacoms	raw				
Events	New									
Server Management										
Servers										
Users										
Server Roles										
Test Servers										
Remote Servers										

- 9. When the Are you sure you want to start message appears, click OK to proceed.
- 10. Once the application has successfully started, place your input data into the input location that is configured for the application.
- 11. Select the application from the Management drop-down list.
- 12. Click the *Monitoring* link. The deployed application channels within the iIA are displayed, as shown in the following image.

iWay Service Mar	lager	Mai	nagemer	t tradacoms		• @	0 📀 📀 70	6.3572		
Server Sources Mor	nitoring Tools							out		
Monitoring	Channels Monitor, start and stop application channels									
Channels							Messag	PS		
	Name	Туре	State	Waiting	Active	Completed	Successful	Failed	Since Last Refresh	Description
	TRADToXML_IB_QS_pflow_valrpt_channel:TRADToXML_	FILE	٢	NA						TRADACOMS to XML file listener
	XmlToTRAD_OB_QS_Pflow_Channel2-inlet.1 XmlToTRAD	FILE	0	NA						Listeners are protocol handlers, that receive input for a channel from a configured endpoint. Listed below are references to the listeners that are defined in the registry.

You can stop either channel and have only one channel running at a time as required.

Configuring Special Registers

This section describes how to configure the required Special Registers (SREGs) for the iWay Integration Solution for TRADACOMS using the iWay Service Manager (iSM) Administration Console. You must configure the following SREGs:

- TRAD_Installdir
- TRAD_Input
- TRAD_Output

These SREGs will be used by the pre-configured channels for inbound and outbound processing to route XML and TRADACOMS messages as required.

Procedure: How to Configure Special Registers

1. Create the following new folder on your file system:

C:\TRADACOMS_Accelerator

- 2. Log on to the iSM Administration Console.
- 3. Click Server in the menu bar located on the top of the iSM Administration Console and then click *Register Settings* in the left pane.

iWay Service Man	ager		Manag	gement base	🔻 🖉 📀 📀 7.0.6.35
Server Registry Deplo	yments				
Properties General Properties Java Properties	Regist Special availabl below a	er Settings registers are named varia e to all components of the re the register settings fo	bles that reference values which are carri system. Any changes to the register setti r the base configuration of this server.	ed throughout the system. Once defin ngs do not take effect until the server	ned, these variables become r is restarted/redeployed. Listed
Settings	Spec	cial Registers			
General Settings		Name	Value	Description	Туре
Console Settings		iwayversion	7.0.6	system defined (reador	nly) string
Java Settings		iwayhome	C:/PROGRA~2/iway7/	system defined (reado	nly) string
Register Settings		iwaydata	C:/PROGRA~2/iway7/	system defined (reado	nly) string
Log Settings		iway.startup.time	1478815813720	system defined (reado	nly) string
Path Settings		iway.config	base	system defined (reado	nly) string
Data Settings		engine	base	system defined (reado	nly) string
Backup Settings		iwayconfig	base	system defined (reado	nly) string
Providers	-	iwawworkdir	C:/PPOGPA~2/iway7/config/baco	system defined (reade	nky) string
Data Provider		Iwayworkui	C.FROGRA-21way/redning/base	system denned (reador	niy) sung
Services Provider		iway.workdir	C:/PROGRA~2/iway7/config/base	system defined (reado	nly) string
Directory Provider		iway.serverip	172.30.234.118	system defined (reador	nly) string
Security Provider		iway.serverhost	INFORMA-Q8T67IU	system defined (reador	nly) string
XML Namespace Map Provider		iway.serverfullhost	INFORMA-Q8T67IU.ibi.com	system defined (reado	nly) string
Pooling Providers		iway.pid	1956	system defined (reador	nly) string
Authentication Realms Data Quality Providers		jce.unlimited	false	system defined (reado	nly) string
TCP Connection Provider		envov-port	9001		integer
Schedule Provider		ibse-port	9000		integer
Calendar Provider		continel purd	[net viewable]		nacoword
SNMP Provider		senunei-pwd	[not viewable]		password
Secure Shell Provider		sentinel-uid	admin		string
Facilities		sentinel-url	http://localhost:8080		string
Activity Facility	_				
Correlation Facility	Add	Delete			
Command Consoles					

The Register Settings pane opens, as shown in the following image.

4. Click Add.

The Register Settings pane opens, as shown in the following image.

Enter the name of the special register to add. TRAD_Installdir Select a type for the value of this special register.
TRAD_Installdir Select a type for the value of this special register.
Select a type for the value of this special register.
string
Enter a value for this special register. The value can be a constant or a call to the evaluation functions.
C:\TRADACOMS_Accelerator
Enter a description for this provide register

- 5. Perform the following steps:
 - a. Type the following in the Name field:

TRAD_Installdir

b. Type the following in the Value field, which is the new folder you created on your file system in Step 1:

C:\TRADACOMS_Accelerator

c. Click Finish.

You are returned to the Special Registers pane, where the new SREG you created (TRAD_Installdir) is now listed, as shown in the following image.

Name	Value	Description	Туре
iwayversion	7.0.6	system defined (readonly)	string
iwayhome	C:/PROGRA~2/iway7/	system defined (readonly)	string
iwaydata	C:/PROGRA~2/iway7/	system defined (readonly)	string
iway.startup.time	1478815813720	system defined (readonly)	string
iway.config	base	system defined (readonly)	string
engine	base	system defined (readonly)	string
iwayconfig	base	system defined (readonly)	string
iwayworkdir	C:/PROGRA~2/iway7/config/base	system defined (readonly)	string
iway.workdir	C:/PROGRA~2/iway7/config/base	system defined (readonly)	string
iway.serverip	172.30.234.118	system defined (readonly)	string
iway.serverhost	INFORMA-Q8T67IU	system defined (readonly)	string
iway.serverfullhost	INFORMA-Q8T67IU.ibi.com	system defined (readonly)	string
iway.pid	1956	system defined (readonly)	string
jce.unlimited	false	system defined (readonly)	string
TRAD_Installdir	C:\TRADACOMS_Accelerator		string
envoy-port	9001		integer
ibse-port	9000		integer
sentinel-pwd	[not viewable]		password
sentinel-uid	admin		string
sentinel-url	http://localhost:8080		string

6. Click Add.

The Register Settings pane opens, as shown in the following image.

Special Register De	finition
Name *	Enter the name of the special register to add.
	TRAD_Input
Туре	Select a type for the value of this special register.
	string
Value *	Enter a value for this special register. The value can be a constant or a call to the evaluation functions.
	sreg(TRAD_Installdir)\TRAD_in
Description	Enter a description for this special register.

- 7. Perform the following steps:
 - a. Type the following in the Name field:

TRAD_Input

- b. Type the following in the Value field, which is the input folder that will be used: sreg(TRAD_Installdir)\TRAD_in
- c. Click Finish.

You are returned to the Special Registers pane, where the new SREG you created (TRAD_Input) is now listed, as shown in the following image.

TRAD_Input	sreg(TRAD_Installdir)\TRAD_in	string
TRAD_Installdir	C:\TRADACOMS_Accelerator	string
envoy-port	9001	integer
ibse-port	9000	integer
sentinel-pwd	[not viewable]	password
sentinel-uid	admin	string
sentinel-url	http://localhost:8080	string

8. Click Add.

The Register Settings pane opens, as shown in the following image.

Register Settings Special registers are n available to all compon below are the register	amed variables that reference values which are carried throughout the system. Once defined, these variables become ents of the system. Any changes to the register settings do not take effect until the server is restarted/redeployed. Listed settings for the base configuration of this server.
Special Register De	finition
Name *	Enter the name of the special register to add. TRAD_Output
Туре	Select a type for the value of this special register. string
Value *	Enter a value for this special register. The value can be a constant or a call to the evaluation functions. <pre>sreg(TRAD_Installdir)\TRAD_out</pre>
Description	Enter a description for this special register.
Finish	

- 9. Perform the following steps:
 - a. Type the following in the Name field:

TRAD_Output

b. Type the following in the Value field, which is the output folder that will be used:

sreg(TRAD_Installdir)\TRAD_out

c. Click Finish.

You are returned to the Special Registers pane, where the new SREG you created (TRAD_Output) is now listed, as shown in the following image.

TRAD_Input	sreg(TRAD_Installdir)\TRAD_in	string
TRAD_Installdir	C:\TRADACOMS_Accelerator	string
TRAD_Output	sreg(TRAD_Installdir)\TRAD_out	string
envoy-port	9001	integer
ibse-port	9000	integer
sentinel-pwd	[not viewable]	password
sentinel-uid	admin	string
sentinel-url	http://localhost:8080	string

Stopping Inbound and Outbound Processing

This section describes how to stop inbound (TRADACOMS to XML) and outbound (XML to TRADACOMS) processing.

Procedure: How to Stop Inbound (TRADACOMS to XML) Processing

Click the State icon adjacent to the inbound application channel under Management \Monitoring and click OK.

The inbound application channel will be stopped, as shown in the following image.

Server Sources Mo	nitoring Tools Channels						R	estart L	icenses About Lo	gout
Channels	Monitor, start and sto	p applica	ition chan	nels			Messag	es		
	Name	Туре	State	Waiting	Active	Completed	Successful	Failed	Since Last Refresh	Description
	TRADToXML_IB_Q:	FILE	٢	NA						TRADACOMS to XML file listener
	XmiToTRAD_OB_Q	FILE	o	NA						Listeners are protocol handlers, that receive input for a channel from a configured endpoint. Listed below are references to the listeners that are defined in the registry.

Procedure: How to Stop Outbound (XML to TRADACOMS) Processing

Click the State icon adjacent to the outbound application channel under Management\Monitoring and click *OK*.

iWay Service Ma Server Sources Mo	nager nitoring Tools					Management	tradacoms R	estart Li	r 🧭 🐼 🦻 7. censes About Lo).6.3572 gout
Monitoring Channels	Channels Monitor, start and sto	op applica	tion chan	nels						
							Messag	es		
	Name	Туре	State	Waiting	Active	Completed	Successful	Failed	Since Last Refresh	Description
	TRADToXML_IB_Q	FILE	0	NA						TRADACOMS to XML file listener
	XmIToTRAD_OB_Q	FILE	٥	NA						Listeners are protocol handlers, that receive input for a channel from a configured endpoint. Listed below are references to the listeners that are defined in the registry.

The outbound application channel will be stopped, as shown in the following image.

Testing Sample Applications

This section describes how to test the sample inbound (TRADACOMS to XML) and outbound (XML to TRADACOMS) applications.

Procedure: How to Test the Sample Inbound (TRADACOMS to XML) Application

1. Copy a test data file from the following directory:

TRADACOMS_Accelerator\TRAD_IN\IB_Archive

to:

 ${\tt TRADACOMS_Accelerator \ TRAD_in}$

C:\TRAD_SHARE\TRADACOMS_accelerato	\TRAD_in							x
	ACOMS_accelera	tor\TRAD_in		• 4 ₂	Search TRA.D_in			Q
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp				•	💰 🗅 🗋	X 🗸		0
Organize 🔻 💽 Open 🔻 Share w	th 🕶 🛛 Burn	New folder						0
TRADACOMS_accelerator	 Name 	*		Date modified	Туре	Size		
 TRAD_in IB_Archive IB_Error IB_Output IB_Report IB_TransformGood OB_Archive OB_Error OB_Coutput OB_Report OB_TransformGood TRAD_out 	 IB_Arc IB_Erro IB_Out IB_Out IB_Trai OB_Ar OB_Err OB_Co OB_Trai OB_Co OB_Trai OB_Trai 	hive pr put ort chive chive the or atput port ansformGood nent.txt		8/24/2016 3:50 PM 8/24/2016 3:50 PM 8/24/2016 3:50 PM 8/24/2016 3:50 PM 8/15/2016 12:00 PM 8/24/2016 3:50 PM 12/19/2012 12:26 8/15/2016 12:00 PM 12/19/2012 12:26 8/23/2016 12:05 PM	File folder File folder File folder File folder File folder File folder File folder File folder File folder File folder TXT File		-2 KB	
Counterpresentation Counterpresentation	2 Shared 8/23/2016 12:05	PM Date cr	Size: 1.50 KB eated: 11/29/201	Shared wit 5 3:44 PM	h: Lehrhoff, Brian	; All domain	users	

2. Observe the transformed XML output in the following directory:

TRADACOMS_Accelerator\TRAD_in\IB_Output

C:\TRADACOMS_accelerator\TRAD_in\IE	Output	
C:\TRADACOMS_acc	erator\TRAD_in\IB_Output 🔹 47	Search IB_Output
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	•	🛷 🗋 🗋 🗙 🗸 🖃 🔮
Organize 👻 Include in library 👻	ihare with 🔻 Burn New folder	8== - 🗊 🔞
🗆 🎉 TRADACOMS_accelerator	Name Date n	nodified Type Size
🗆 🅌 TRAD_in	trad prohdr d93c01 2016-10-17T14 25 18 374Z001.xml 10/17/	/2016 10:25 XML File
IB_Archive	trad_srmhdr_d93c01_2016-10-17T14_25_12_366Z001.xml 10/17/	/2016 10:25 XML File
IB_Error	trad_prihdr_d93c01_2016-10-17T14_25_06_394Z001.xml 10/17/	/2016 10:25 XML File
IB_Output	trad_crehdr_d93c01_2016-10-17T14_25_00_392Z001.xml 10/17/	/2016 10:25 XML File
IB TransformGood	trad_corhdr_d93c01_2016-10-17T14_24_34_504Z001.xml 10/17/	/2016 10:24 XML File
OB Archive	trad_ordhdr_d93s02_15 FDXED_2016-10-07T18_13_27_550 10/7/2	2016 2:13 PM XML File
B OB_Error	trad_ordhdr_d93c01_2016-10-06T16_17_28_890Z001.xml 10/6/2	2016 12:17 PM XML File
B_Output	trad_ordhdr_d93c01_2016-10-05T19_53_38_500Z001.xml 10/5/2	:016 3:53 PM XML File
OB_Report	trad_avihdr_d93edisim012 AVD LOOPS_2016-09-23116 9/23/2	(016 12:47 PM XML File
OB_TransformGood	trad_avihdr_d93edisim01_2016-09-23116_43_12_8032001 9/23/2	UL6 12:43 PM XML File
🗷 鷆 TRAD_out	trad_crendr_d33edisim01_2010-09-23110_37_30_0932001 9/23/2	2010 12:37 PM XML File
🕀 🎉 Users	trad rsgrsg d93edisim01 2016-09-22113_10_00_3 9/22/2	2016 1-23 DM XML File
🗉 🌽 Windows	trad rsgrsg d93edisim01_2016-09-22T17_23_24_417Z001 9/22/2	2016 1:23 PM XML File
🗉 🌽 X12	trad pprhdr d93edisim01 2016-09-22T17 18 10 137Z00 9/22/2	2016 1:18 PM XML File
🖲 🏄 X12_Accelerator	trad_pichdr_d93edisim01_2016-09-22T17_17_46_112Z001 9/22/2	2016 1:17 PM XML File
🗉 🍻 XF5BAB~1	trad_payhdr_d93edisim01_2016-09-22T17_17_14_093Z00 9/22/2	2016 1:17 PM XML File
	trad_invfil_d93web01_2016-09-22T17_15_44_045Z001.xml 9/22/2	2016 1:15 PM XML File
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135 items		

3. Observe the validation report in the following directory:

TRADACOMS_Accelerator\TRAD_in\IB_Report

C:\TRADACOMS_accelerator\TRAD_in\IB_	Report		
C:\TRADACOMS_acce	lerator\TRAD_in\IB_Report 🔹 😽	Search IB_Report	٩
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	•	💰 🗅 🗋 🗙	🗸 🖃 🕥
Organize 👻 Include in library 👻	Share with 🔻 Burn New folder	8==	• 🔟 🔞
	 Name trad_prohdr deleted type_2016-10-27T15_42_24_830Z001.xml trad_invfil_d93:02_012_016-10-17T14_26_52_376Z001.xml trad_delhdr_d93:02_02_2016-10-17T14_26_42_374Z001.xml trad_delhdr_d93:01_2016-10-17T14_25_12_362Z001.xml trad_prohdr_d93:01_2016-10-17T14_25_12_362Z001.xml trad_prihdr_d93:01_2016-10-17T14_25_12_362Z001.xml trad_crehdr_d93:01_2016-10-17T14_25_12_362Z001.xml trad_crehdr_d93:01_2016-10-17T14_25_12_362Z001.xml trad_crehdr_d93:01_2016-10-17T14_25_12_362Z001.xml trad_crehdr_d93:01_2016-10-17T14_24_34_465Z001.xml trad_crehdr_d93:01_2016-10-14T15_21_15_575Z001.xml trad_prihdr_d93:01_2016-10-14T15_21_501Z001.xml trad_prihdr_d93:01_2016-10-14T15_21_501Z001.xml trad_prihdr_d93:01_2016-10-14T15_21_501Z001.xml trad_prihdr_d93:01_2016-10-14T15_21_501Z001.xml trad_prihdr_d93:01_2016-10-14T15_21_501Z001.xml trad_srmhdr_d93:01_2016-10-14T15_21_15_501Z001.xml trad_srmhdr_d93:01_2016-10-14T15_21_15_501Z001.xml trad_srmhdr_d93:01_2016-10-14T15_21_15_501Z001.xml trad_srmhdr_d93:01_2016-10-14T15_21_15_501Z001.xml trad_srmhdr_d93:01_2016-10-14T15_21_15_501Z001.xml trad_srmhdr_d93:01_2016-10-14T15_21_15_501Z001.xml 	Date modified 10/27/2016 11:42 10/17/2016 10:26 10/17/2016 10:25 10/17/2016 10:25 10/17/2016 10:25 10/17/2016 10:25 10/17/2016 10:25 10/17/2016 10:25 10/14/2016 11:21 10/14/2016 11:21 10/14/2016 11:21 10/14/2016 11:21 10/14/2016 11:21 10/14/2016 11:21	Type XML File
# J XF5BA8~1 # J xfoc_Way_6.1.8_41391 # J xfoc_iway6.1.9 # H // 118 items	trad_delhdr_d93902_02_2016-10-11117_18_52_7652001.xml trad_delhdr_d93902_02_2016-10-11115_18_39_6442001.xml trad_delhdr_d93902_02_2016-10-11115_18_22_0122001.xml trad_delhdr_d93902_02_2016-10-11115_18_22_0122001.xml	10/11/2016 1:18 PM 10/11/2016 11:18 10/11/2016 11:18	XML File XML File XML File

4. If any Errors occur, then observe the following directory:

TRADACOMS_Accelerator\TRAD_in\IB_Error

- 🖟 C:\TRADACOMS_accelerator\TRAD_in\IB	Error			-	×
C:\TRADACOMS_acc	elerator\TRAD_in\IB_Error	- 	Search IB_Error		Q
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		\odot	o 💰 🗋 🗋	X 🗸 🖃	\bigcirc
Organize 👻 Include in library 👻	Share with 🔻 Burn New folder			··· ·	0
TRADACOMS_accelerator TRAD_in IB_Archive IB_Cutput IB_Cror IB_TransformGood OB_Archive OB_Cutput OB_Cutput OB_Cutput OB_Cutput OB_Cutput USers USers USers USers DS_X22	 Name trad_prohdr deleted type_2016-10-27T15 trad_invfil_d93:02_01_2016-10-17T14_26 trad_delhdr_d93:02_03_2016-10-17T14_26 trad_delhdr_d93:02_02_2016-10-17T14_25 trad_corhdr_d93:01_2016-10-14T15_21_1 trad_crehdr_d93:01_2016-10-14T15_21_1 trad_prihdr_d93:01_2016-10-14T15_21_1 trad_prihdr_d93:01_2016-10-14T15_21_1 trad_prihdr_d93:01_2016-10-14T15_21_1 trad_delhdr_d93:02_02_2016-10-14T15_21_1 trad_delhdr_d93:02_02_2016-10-13T14_10 trad_delhdr_d93:02_02_2016-10-13T14_10 trad_delhdr_d93:02_02_2016-10-11T15_18 trad_delhdr_d93:02_02_2016-10-11T15_18 trad_delhdr_d93:02_02_2016-10-11T15_18 	Date modified 10/27/2016 11:42 10/17/2016 10:26 10/17/2016 10:25 10/14/2016 11:21 10/14/2016 11:21 10/14/2016 11:21 10/14/2016 11:21 10/14/2016 11:21 10/11/2016 11:18 PM 10/11/2016 11:18 10/11/2016 11:18	Type XML File XML File	Size 1 KB 1 KB	* III
Image: Control of the second secon	trad_delhdr_d93s02_03_2016-10-11T15_05 trad_invfil_d93s02_01_2016-10-11T15_05 trad_invfil_d93s02_02_2016-10-11T15_05 trad_invfil_d93s02_03_2016-10-11T15_05 trad_invfil_d93s02_04_2016-10-11T15_05	10/11/2016 11:05 10/11/2016 11:05 10/11/2016 11:05 10/11/2016 11:05 10/11/2016 11:05	XML File XML File XML File XML File XML File	1 KB 1 KB 1 KB 1 KB	Ŧ

5. After transformation, the input file will get stored in the following directory:

TRADACOMS_Accelerator\TRAD_in\IB_Archive

🕒 🔾 🗢 🚱 🎍 C:\TRADACOMS_acc	ator\TRAD_in\IB_Archive	Archive
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	🕥 of 1	l) 📋 🗙 🗸 🖃 🥥
Organize Include in library	are with 🔻 Burn New folder	se 🗸 🗊 🔞
🗆 🎉 TRADACOMS_accelerator	Name Date modifie	d Type Si
🗆 🅌 TRAD_in	trad_prohdr deleted type.txt 10/27/2016 1:	L:42 TXT File
IB_Archive	Trad_invfil_d93s02 Type: TXT File 10/17/2016 10	J:26 EDI File
IB_Error	Trad_delhdr_d93s(Size: 1.51 KB 10/17/2016 10	J:26 EDI File
IB_Output	Trad_delhdr_d93s6 Date modified: 10/27/2016 11:42 AM 10/17/2016 10	J:25 EDI File
IB_Report	E trad_prohdr_d93c01.edi 10/17/2016 10	J:25 EDI File
IB_TransformGood	Trad_srmhdr_d93c01.edi 10/17/2016 10	J:25 EDI File
OB_Archive	Trad_prihdr_d93c01.edi 10/17/2016 10	J:25 EDI File
B OB_Error	Trad_crehdr_d93c01.edi 10/17/2016 10	1:25 EDI File
B_Output	E trad_corhdr_d93c01.edi 10/17/2016 10	J:24 EDI File
OB_Report	Trad_invfil_d93s02_02.edi 10/11/2016 11	1:05 EDI File
UB_TransformGood	Trad_invfil_d93s02_03.edi 10/11/2016 1:	1:05 EDI File
IRAD_out	Trad_invfil_d93s02_04.edi 10/11/2016 1:	1:05 EDI File
🗈 \mu Users	Trad_ordhdr_d93s02_15 FDXED.edi 10/7/2016 2:1	3 PM EDI File
🖲 🍺 Windows	Trad_ordhdr_d93s02_15.edi 10/7/2016 2:1	1 PM EDI File
I AIZ	Trad_ordhdr_d93s02_08.edi 10/7/2016 12:	10 PM EDI File
XIZ_Accelerator	Trad_ordhdr_d93s02_09.edi 10/7/2016 9:4	5 AM EDI File
AF3BAB~1	Trad_ordhdr_d93s02_10.edi 10/7/2016 9:4	5 AM EDI File
Image: Market and	Trad_ordhdr_d93s02_11.edi 10/7/2016 9:4	5 AM EDI File
• <u>*</u> xTOC_1Way0.1.9		
155 items	1 ° L	

Procedure: How to Test the Sample Outbound (XML to TRADACOMS) Application

1. Copy a test file from the following directory:

TRADACOMS_Accelerator\TRAD_out\OB_Archive

to:

TRADACOMS_Accelerator\TRAD_out

C:\TRADACOMS_accelerator\TRAD_out				0		×
C:\TRADACOMS_accelerat	or\TRAD_out	▼ 4 ₇	Search TRAD_out			2
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		•	o 💰 🗋 🗋	×v		0
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🕌 TRAD_in 🔷	Name	Date modified	Туре	Size		
TRAD_out TRAD_out TRAD_Out TRAD_Out TRAD_Out TRAD_Out TRAD_OUT TRAD TRAD TRAD TRAD TRAD TRAD TRAD TRAD	B_Archive B_Archive B_Error B_Output B_Report B_TransformGood B_OB_Archive B_OB_Archive Copy B_OB_Error B_OB_Cutput B_OB_Report B_OB_Report B_OB_TransformGood B_TransformGood B_TTANSFORB_TTANSFORB_TTANSFORB_TTANSFORBB_TTANSFORB_TTANSFORBB_TTANSFORB_TTANSFORB_TTANSFORB_TTANSFORB_TTANSFORB_T	8/15/2016 12:00 PM 12/19/2012 12:26 8/15/2016 12:00 PM 12/19/2012 12:26 12/19/2012 12:26 9/28/2016 10:05 AM 8/15/2016 12:01 PM 10/27/2016 11:37 10/27/2016 11:37 12/19/2012 12:57	File folder File folder File folder File folder File folder File folder File folder File folder File folder File folder			
<pre>Users Users Users Vindows X12 X12_Accelerator XF5BAB~1 Xfoc_IWay.6.1.8_41391 Xfoc_Iway.6.1.9 Trad_invfil_d93cust01_2016-09-7 XML File</pre>	trad_invfil_d93cust01_2016-09-22T17_04 22T17_04 Date modified: 9/27/2016 12:04 PM Size: 10.5 KB	_9/27/2016 12:04 PM Date created: 12/6	XML File /2016 12:21 PM		<u>11 KB</u>	

2. Observe the TRADACOMS formatted output in the following directory:

TRADACOMS_Accelerator\TRAD_out\OB_Output

C:\TRADACOMS_accelerator\TRAD_out\OF	B_Output			x
C:\TRADACOMS_accel	erator\TRAD_out\OB_Output	✓ ← Search C	PB_Output	2
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		💽 🦂 .	à 🗋 🗙 🖌 🖃 🕴	0
Organize 👻 Include in library 👻 S	hare with 🔻 Burn New folder		iii 🕶 🗔	0
Image: Strate	 Name trad_invfil_d93cust01_2016-09-22T17_04 trad_prohdr_d93c01_2016-10-22T17_04 trad_prohdr_d93c01_2016-10-06T16_17_2 trad_ordhdr_d93c01_2016-10-06T16_17_2 trad_d1chdr_d93edisim01 bad date_2016 trad_d1chdr_d93edisim01 bad date_2016 trad_d1chdr_d93edisim01 bad date_2016 trad_d1chdr_d93edisim01 bad_2016-09-27 trad_d1chdr_d93edisim01 bad_2016-09-27 trad_d1chdr_d93edisim01 bad_2016-09-27 trad_d1chdr_d93edisim01 fx_2016-09-22T16 trad_drahdr_d93edisim01 fx_2016-09-22T16 trad_drahdr_d93edisim01 2016-09-22T16 	Date modified Type 12/6/2016 12:22 PM XML Fi 10/27/2016 11:37 XML Fi 10/17/2016 11:47 XML Fi 10/17/2016 11:47 XML Fi 9/27/2016 12:15 PM XML Fi 9/27/2016 12:14 PM XML Fi 9/27/2016 12:04 PM XML Fi 9/27/2016 12:09 PM XML Fi 9/27/2016 12:09 PM XML Fi 9/27/2016 12:09 PM XML Fi 9/27/2016 12:04 PM XML Fi	Size le 2 KB le 2 KB le 2 KB le 3 KB le 1 KB le 1 KB le 1 KB	
	trad_exchdr_d93edisim01FDED_2016-09 trad_exchdr_d93edisim01_2016-09-22T16 trad_exchdr_d93edisim01_2016-09-22T16 trad_invfil_d93cust01_2016-09-22T14_47 trad_invfil_d93cust01_2016-09-22T17_04 trad_invfil_d93edisim01_2016-09-22T17_1	9/27/2016 12:04 PM XML Fi 9/27/2016 12:04 PM XML Fi	le 1KB le 1KB le 1KB le 2KB le 2KB le 3KB	*

3. Observe the validation report in the following directory:

TRADACOMS_Accelerator\TRAD_out\OB_Report

C:\TRADACOMS_accelerator\TRAD_out\	OB_Report		
C:\TRADACOMS_acc	elerator\TRAD_out\OB_Report	✓ 4 Search OB_Report	٩
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		🖸 💰 🗋	X 🗸 🖃 🕥
Organize Include in library	Share with 🔻 Burn New folder		iii • 🗊 🔞
B TRAD_in TRAD_out TRAD_out B Fror B S Fror B S Fror B S S Copy B S S S Copy B S S S S S S S S S S S S S S S S S S	Name trad_invfil_d93cust01_2016-09-22T17_04 trad_prohdr_d93c01_2016-10-17T14_25_1 errortrad_ordhdr_d93c01_2016-10-107T14_25_1 trad_ordhdr_d93c01_2016-10-06T16_17_2 errortrad_ordhdr_d93c01_2016-10-06T16_17_2 errortrad_dlchdr_d93edisim01 bad date_2 errortrad_dlchdr_d93edisim01 bad date_2 errortrad_dlchdr_d93edisim01 bad date_2 errortrad_dlchdr_d93edisim01 bad date_2 trad_dlchdr_d93edisim01 bad date_2 errortrad_dlchdr_d93edisim01 bad date_2 trad_dlchdr_d93edisim01 bad date_2 errortrad_dlchdr_d93edisim01 bad date_2 errortrad_d1 errortrad_d1 errortrad_d1 errortrad_d1 errortrad_d1 errortrad_d1 errortrad_d1 errortrad_d1 errortrad_d1 errortrad_d	Date modified Type 12/6/2016 12:22 PM XML File 10/27/2016 11:37 XML File 10/17/2016 11:47 XML File 10/17/2016 11:47 XML File 10/17/2016 11:47 XML File 10/17/2016 11:47 XML File 9/29/2016 11:43 XML File 9/28/2016 11:03 AM XML File 9/28/2016 10:06 AM XML File 9/27/2016 12:15 PM XML File 9/27/2016 12:15 PM XML File 9/27/2016 12:15 PM XML File 9/27/2016 12:14 PM XML File 9/27/2016 12:14 PM XML File 9/27/2016 12:14 PM XML File	Size Size 13 KB 12 KB 11 KB 11 KB 11 KB 28 KB 28 KB 28 KB 28 KB 28 KB 28 KB 14 KB
B Users B Windows B X12 B X12_Accelerator B Y12_Accelerator B Y	 errortrad_dlchdr_d93edisim01 bad date_2 errortrad_dlchdr_d93edisim01 bad_2016 errortrad_dlchdr_d93edisim01 bad_2016 trad_dlchdr_d93edisim01 bad_2016-09-27 trad_dlchdr_d93edisim01 bad_2016-09-27 trad_dlchdr_d93edisim01 bad_2016-09-27 trad_dlchdr_d93edisim01 fix_2016-09-22T 	9/27/2016 12:13 PM XML File 9/27/2016 12:11 PM XML File 9/27/2016 12:10 PM XML File 9/27/2016 12:09 PM XML File 9/27/2016 12:08 PM XML File 9/27/2016 12:04 PM XML File 9/27/2016 12:04 PM XML File	28 KB 28 KB 28 KB 14 KB 14 KB 13 KB 6 KB

4. If any Errors occur, then observe the following directory:

TRADACOMS_Accelerator\TRAD_out\OB_Error

C:\TRADACOMS_accelerator\TRAD_out\OB_Error	
C:\TRADACOMS_accelerator\TRAD_out\OB_	Error - + Search OB_Error
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	o d î î X ✓ ⊒ o
Organize ▼ Include in library ▼ Share with ▼ New	w folder 🔠 🔻 🗍 🔞
 TRAD_in TRAD_out IE_Archive IE_fror IE_fror IE_output IE_fronfood OB_Archive OB_Archive OB_Archive OB_Archive OB_Coltput OB_Report OB_Report OB_TransformGood Users Users X12 X12_Accelerator X12 X12_Accelerator X12_Acc_IWay_6.1.8_41391 xfoc_IWay_6.1.9 	▲ Date modified Type Size This folder is empty.
0 items	

5. After transformation, the input XML file will get stored in the following directory:

TRADACOMS_Accelerator\TRAD_out\OB_Archive

C:\TRADACOMS_accelerator\TRAD_out\C)B_Archive			
C:\TRADACOMS_acce	lerator\TRAD_out\OB_Archive	Search OB_Archive	e	Q
<u>Eile E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		🕣 💰 🗋	X 🗸 🛛	3 🕥
Organize 👻 Include in library 👻	Share with 🔻 Burn New folder		8≡ ▼ [
A Second Se	 Name trad_invfil_d93cust01_2016-09-22T17_04_37_345Z001.xml ark bad date.xml trad_prohdr_d93c01_2016-10-17T14_25_18_374Z001.xml trad_ordhdr missing mandatory.xml ~trad_ordhdr_missing mandatory.xml trad_ordhdr_d93c01_2016-10-06T16_17_28_990Z001.xml trad_olchdr_d93edisim01 bad date.xml trad_dlchdr_d93edisim01 badxml trad_dlchdr_d93edisim01 fix_2016-09-22T16_50_04_631Z00 trad_drahdr_d93edisim01 Fix_2016-09-22T16_50_04_631Z00 trad_drahdr_d93edisim01 FixD_2016-09-22T16_50_04_631Z00 trad_drahdr_d93edisim01 FixD_2016-09-22T14_50_04_6032001.xml 	Date modified 12/6/2016 12:22 PM 10/27/2016 11:37 10/27/2016 11:37 10/17/2016 11:50 10/17/2016 11:47 9/29/2016 11:03 AM 9/28/2016 10:06 AM 9/27/2016 12:04 PM 9/27/2016 12:04 PM 9/27/2016 12:04 PM	Type XML File XML File	¢ E
Image: Second system Image: Second system Image: Second	trad_exchdr_d93edisim01.FDCD_2016-09-22T16_50_58_684 trad_exchdr_d93edisim01_2016-09-22T16_51_34_708Z001.xml trad_exchdr_d93edisim01_2016-09-22T16_53_32_793Z002.xml trad_invfil_d93cust01_2016-09-22T14_47_09_406Z001.xml trad_invfil_d93edisim01_2016-09-22T17_15_32_052Z001.xml trad_invfil_d93edisim01_2016-09-22T17_15_44_045Z001.xml	9/27/2016 12:04 PM 9/27/2016 12:04 PM 9/27/2016 12:04 PM 9/27/2016 12:04 PM 9/27/2016 12:04 PM 9/27/2016 12:04 PM	XML File XML File XML File XML File XML File XML File	т Э



Inbound Processing: TRADACOMS to XML

The iWay Integration Solution for TRADACOMS runs within iWay Service Manager (iSM). iSM converts a document from TRADACOMS format to XML format, and validates it based on TRADACOMS published implementation guides.

This chapter provides the information you need to understand and implement a basic inbound message flow.

In this chapter:

- Inbound Processing Overview
- Special Register Sets
- Sample Channel File Listener
- Sample Channel Preparser
- Sample Channel Process Flow
- Adding an Ebix to a Channel
- Rebuilding Your Application

Inbound Processing Overview

This section describes the iWay business components and the processing steps in the basic inbound message flow.

The inbound process converts a TRADACOMS formatted document to an XML document. Inbound processing consists of the following components in the sample message flow:

Inlet

- □ The file **listener** picks up the incoming TRADACOMS document.
- □ The **preparser** obtains the message type from the TRADACOMS document. The preparser converts the original TRADACOMS document to an XML representation of that document.

The iWay Integration Solution for TRADACOMS supports one preparser, XDTRADPreParser (com.ibi.preparsers.XDTRADPreParser), which is provided by iWay Software.

Validation

The inbound TRADACOMS document is validated for structure and content. The published TRADACOMS standards and user implementation guides define element types (for example, numeric, alpha, or date) and describe business rules to apply for validation.

For example, the following is a typical date segment in an inbound TRADACOMS document:

FIL=7012+1758+160901+FL RLX'

Note: All TRADACOMS dates use a six digit date format (YYMMDD).

Route and Process Flow

In our sample message flow, the validation report service (TRAD_Validation_rpt) creates a validation report in XML format. This report indicates success or failure transformation and contains the input and output documents. The route directs the document based on this report. You can also apply additional business logic by adding a service to the flow.

For more information on the services available with iSM, see the *iWay Service Manager Component Reference Guide*.

Outlet

Outlets define how messages leave a channel at the end of a process. In this example, a *Passthrough* emitter is used. All the file emits are done in the process flow.

For more information on the emitters available with iSM, see the *iWay Service Manager User's Guide*.

For more information on deploying and starting the sample channels within the iWay Integration Application (iIA), see *Working With TRADACOMS Inbound and Outbound Applications Using iWay Integration Tools* on page 25.

Special Register Sets

A Special Register (SREG) is a variable that users can set. As a best practice within the EDI framework, you can use SREGs to define input and output locations. When an iWay Integration Application (iIA) containing EDI channels is migrated between systems (for example, from *Dev* to *UAT*), the only changes required to deploy the iIA in the new system is to set the SREG and start the iIA. EDI channels use multiple locations and paths. This practice minimizes the migration effort. For a list of SREGs that are provided with iSM, see the *iWay Service Manager Programmer's Guide*. For more information on defining an SREG of your own, see the *iWay Service Manager User's Guide*.

The sample inbound TRADACOMS channel sets all of the SREGs that are listed in the following table.

Name	Value
Input	sreg(TRAD_INPUT)
Archive	sreg(TRAD_INPUT)/IB_Archive
Ack	sreg(TRAD_INPUT)/OB_Output
Error	sreg(TRAD_INPUT)/IB_Error
BadOutput	sreg(TRAD_INPUT)/IB_Error
GoodOutput	sreg(TRAD_INPUT)/IB_Output
ValidRpt	sreg(TRAD_INPUT)/IB_Report

Procedure: How to Modify SREG Sets in the Channel

1. In the Integration Explorer tab (left pane of iIT), double-click the name of the SREG set (for example, TRAD).



The selected SREG set opens as a new tab, as shown in the following image.

- 2. Ensure to save your changes.
- 3. If you make any changes to the SREG set, rebuild and redeploy the iIA for the changes to take effect.

Sample Channel File Listener

The following image shows a sample File listener that has been configured using the Channel Builder in iIT.

RADToXML_IB_QS_pflow_valrpt_channel	æ	TRADToXML_QS_Ebix	i Ø
	<u> </u>	TRADACOMS to XML file listener	
channel: TRADToXML_IB_QS_pflow_valpt_channel		Type: File change type	
inlet: TRADToXML_QS_Ebix		The state of the second st	
preparser: TRADIOXPIC_QS_EDIX (File)	× 1	Filter (enter string to filter properties)	
Troute: TRADtoXML_pflow_QS_ValidRpt (default)		Clear	
process: TRADtoXML_pflow_QS_ValidRpt	(C)	- Main	
Ster outlet: Passthrough		- many	
emitter: Passthrough (Passthrough)		Input Path 🚖 🏡 🥹	
		sreg(TRAD.Input)	
		Destination 🚖 🏡 🥥	
		C:\TRADACOMS_Accelerator\TRAD_in\JB_Output	
		Removal Destination 🚖 🍰 🥥	
		sreg(TRAD.Archive)	
		Suffix In Filter 🚖 🏡 🥥	
		•	
		Scan subdirectories 👷 🏡 🥥	
		41	

The following table describes the EDI-specific configuration parameters for the File listener. An asterisk (*) indicates that a parameter is required. For parameters not listed in the following table, accept the default value. Ensure that you have created any directories that are referenced by the SREGs, or errors will occur during deployment.

Parameter	Value
Input Path *	sreg(TRAD.Input)
	This value is an SREG that uses a defined directory in which input messages are received.
Destination *	sreg(TRAD.ListenerOutput)
	This value is an SREG that uses a defined directory in which output files are stored after transformation.
Removal Destination	sreg(TRAD.Archive)
	This value is an SREG that uses a defined directory to which input messages are moved if they fail during transformation.
	It is recommended to configure a removal destination when you are constructing a basic channel.
Suffix In	*
	Input files with any file extension are allowed.
Suffix Out	XML
	The extension for output files is .xml .

Sample Channel Preparser

The TRADACOMS preparser used in the sample channel does not have any parameters that can be modified by the user.

Sample Channel Process Flow

A route is defined in the sample channel that invokes the *TRADtoXML_pflow_QS_validreport* process flow. Using the validation report, valid transformed XML data is output to one folder and invalid transformed data will be written to another folder. If transformation in the preparser fails, then a *bad* validation report will be written. Bad validation reports can be routed through email or a queue for further inspection and remediation.



The following image shows the process flow from the sample channel.

Prior versions of the iWay e-Business user documentation demonstrate how to build channels and process flows in more detail using the iSM Administration Console and iIT.

Adding an Ebix to a Channel

This section describes how to add an Ebix to the channel.

Procedure: How to Add an Ebix to a Channel

1. Open Channel Builder in iIT and then select the name of the channel in the upper-left pane.

TRADToXML_JB_QS_pflow_valrpt_channel XX					- 0
Channel Builder					
Channel Builder TRADToXM, B. QS. pflow, valgt_channel	TRADToXML_BD_QS Processing channel EBIDES should be at Tick the check-box III pynamic Roundi Manage channel Manage channel Manage channel Manage channel TRAD_TRAD33	pflow_valrpt_chann TRADACOMS inbou acched to this channe elow to enable or di pendencies, such as & Attached yes	el Ind data to XML. Char Ibefore deployment. Isable dynamic routing Ibixes and Registers: P Innel. Type ebix	nel uses SREG (Special Registers) to define de Forthis channel. ease note a resource marked "attached" Lecation Ebines/TRADyTRAD_TRAD93	Estination paths -

2. Click the green plus (+) symbol to add a new Ebix. You can also select an Ebix and click the red (x) symbol to delete an Ebix.

If your channel contains multiple Ebixes, then use the up and down arrows to order the Ebixes. Ebixes are executed in the order that they appear on this screen, from top to bottom.

3. Ensure to save your changes.

4. If you make any changes to the channel, rebuild and redeploy the iIA for the changes to take effect.

Rebuilding Your Application

If any changes are made to your application, then you must rebuild your application.

Procedure: How to Rebuild Your Application

1. In the Integration Explorer tab (left pane of iIT), right-click *Applications*, click *New*, and then select *Application* from the context menu, as shown in the following image.

🔏 Integration E 🔀 🧯	🤨 iWay Explorer 📑 Library Mana		3
	$\langle - \rangle \approx \Box $	\$	7
a 🚔 TRAD_usr_sample	es_prj		
🗁 Adapters			
🔺 🗁 Applications			
> 🥱 trada	New	1	Integration Project
🔺 🗁 Channel	Go Into	100	Project
🕞 Emit	Open in New Window	3	Application
🗁 Liste 🚺	Сору	1	Deployment Template
🗁 Outl 👘	Paste	8	Channel
🗁 Prep 👔	Duplicate	ŝ	Process Flow
⊳ ≣ TRAI ×	Delete	(Ax)	Transform
Xml	Move		Register Set
Ebixes	Rename	6	Schema Set
Flows	Import	fIJ	IFL Expression
	Export	F 1	Example

The New Application Wizard (General Properties pane) opens, as shown in the following image.

🔬 New Application Wi	zard	- • •
General Properties Please select a project	location and choose a name for the new application	
Project Folder	/TRAD_usr_samples_prj/Applications	Browse
Name	test_application	
Description		Â
	Create in current folder	
?	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

2. Enter a name for your application, and then click *Next*.

The Resource Selection pane opens, as shown in the following image.

🔬 New Applicatio	n Wizaro	1			
Resource Select	ion				
Add channels, tra	ansform	s and pro	cesses to your ap	plication.	
Name	Туре	Aut	Location	Description	Select All
TRADToX	inlin	yes	/TRAD_usr_s	Processing channel -	
📄 📸 TRADtoXi	pro		/TRAD_usr_s		Deselect All
📄 👸 XMLToTR	pro		/TRAD_usr_s	XMLToX12_Ebix	
🔽 🧧 XmlToTR/	inlin	yes	/TRAD_usr_s		
•				. •]
0	_				
?		< <u>B</u> ack	<u>N</u> ext >	<u> </u>	Cancel

3. Select the check boxes next to your channels and then click *Finish*.

Important: Applications must be rebuilt and redeployed when changing Ebixes or SREGs in a channel. If you are unsure, rebuild and restart your application.

For more information on deploying and starting your application, see *Deployment Information for Your iWay Integration Solution* on page 21.



Outbound Processing: XML to TRADACOMS

The iWay Integration Solution for TRADACOMS runs within iWay Service Manager (iSM). iSM validates an XML document based on TRADACOMS published implementation guides and converts it to a document in TRADACOMS format.

This chapter provides the information you need to understand and implement a basic outbound message flow.

In this chapter:

- Outbound Processing Overview
- Special Register Sets
- Sample Channel File Listener
- Sample Channel Process Flow
- Adding an Ebix to a Channel
- Rebuilding Your Application

Outbound Processing Overview

This section describes the iWay business components and the processing steps in the basic outbound message flow.

The outbound process converts an XML document to a TRADACOMS-formatted document. Outbound processing consists of the following components in the sample message flow:

Inlet

The file listener picks up the incoming XML document.

□ Route and Process Flow

A process flow guides the document through the next stages of the process.

Rules processing runs against the XML-formatted TRADACOMS document to validate its structure and content. The published TRADACOMS standards and user implementation guides define element types (for example, numeric, alpha, or date) and describe business rules to apply for validation.

The *XMLToTRADTransformAgent* obtains the message type and version from the XMLformatted TRADACOMS document. The appropriate transformation template is applied from the Ebix. The transformation converts the XML-formatted TRADACOMS document to TRADACOMS format.

The validation report service (*TRAD_Validation_rpt*) creates a validation report in XML format. This validation report indicates a status of *success* or *failure*, which is used to route the document in the process flow.

Outlet

Outlets define how messages leave a channel at the end of a process. In this example, a *Passthrough* emitter is used. All the file emits are done in the process flow.

For more information on the emitters available with iSM, see the *iWay Service Manager User's Guide*.

For more information on deploying and starting the sample channels within the iWay Integration Application (iIA), see *Working With TRADACOMS Inbound and Outbound Applications Using iWay Integration Tools* on page 25.

Special Register Sets

A Special Register (SREG) is a variable that users can set. As a best practice within the EDI framework, you can use SREGs to define input and output locations. When an iWay Integration Application (iIA) containing EDI channels is migrated between systems (for example, from *Dev* to *UAT*), the only changes required to deploy the iIA in the new system is to set the SREG and start the iIA. EDI channels use multiple locations and paths. This practice minimizes the migration effort. For a list of SREGs that are provided with iSM, see the *iWay Service Manager Programmer's Guide*. For more information on defining an SREG of your own, see the *iWay Service Manager User's Guide*.

The sample outbound TRADACOMS channel sets all of the SREGs that are listed in the following table.

Name	Value
Input	sreg(TRAD_OUTPUT)
Output	sreg(TRAD_OUTPUT)
Archive	sreg(TRAD_OUTPUT)/OB_Archive
ValidationReport	sreg(TRAD_OUTPUT)/OB_Report

Name	Value
Error	sreg(TRAD_OUTPUT)/OB_Error

Procedure: How to Modify SREG Sets in the Channel

1. In the Integration Explorer tab (left pane of iIT), double-click the name of the SREG set (for example, XMLTRAD).

The selected SREG set opens as a new tab, as shown in the following image.

🖌 Integrati 💠 😈 Way Ex 🔿 Library 🦳 🗖	XMLTRAD.int 8			
수 수 @ 🖻 🛠 🏹				
TRAD_usr_samples_prj				
🗁 Adapters	Name	Type	Value	Description
Applications	Input	string	sreg(TRAD_Output)	TRAD outbound flow scans this directory for XML files
🌍 tradacoms	Output	string	sreg(TRAD_Output)/OB_Output	TRAD outbound flow writes TRAD to this directory
🥭 Components	Archive	string	sreg(TRAD_Output)/OB_Archive	Archive of transformed XML files
🔊 build.xml	ValidationReport	string	sreg(TRAD_Output)/OB_Report	All validation reports are written here (success and fail)
🛋 tradacoms.iia	Error	string	sreg(TRAD_Output)/OB_Error	Errors (bad formed xml) are written here
🗁 Channels				
🗁 Emitters				
🗁 Inlets				
🗁 Listeners				
🔁 Outlets				
🗁 Preparsers				
🗁 Routes				
TRADToXML_IB_QS_pflow_valrpt_channel				
XmlToTRAD_OB_QS_Pflow_Channel2				
MLToTRAD_Ebix_2				
XMLTRAD				
TRADACOMS				

- 2. Ensure to save your changes.
- 3. If you make any changes to the SREG set, rebuild and redeploy the iIA for the changes to take effect.

Sample Channel File Listener

The following image shows a sample File listener that has been configured using the Channel Builder in iIT.

SXmIToTRAD_OB_QS_Pflow_Channel2	
Channel Builder	
XmIToTRAD_OB_QS_Pflow_Channel2 Channel: Xm/ToTRAD_OB_QS_Pflow_Channel2 Channel: Xm/ToTRAD_Ebix(file) Conterroute: I (defouit) Conterroute: I (for the second se	XmiToTRAD_Ebix Listeners are protocol handlers, that receive input for a channel from a configured endp the registry. Type: File change type Filter (enter string to filter properties) Clear Main Input Path 1 1 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1

The following table describes the EDI-specific configuration parameters for the File listener. An asterisk (*) indicates that a parameter is required. For parameters not listed in the following table, accept the default value. Ensure that you have created any directories that are referenced by the SREGs, or errors will occur during deployment.

Parameter	Value
Input Path *	sreg(XMLTRAD.Input) This value is an SREG that uses a defined directory in which input messages are received.
Destination *	sreg(XMLTRAD.ValidationReport)\validation_sreg(basename)_*.xml This value is an SREG that uses a defined directory in which output messages are received. Note: The underscore is a double underscore used in the destination to insert an underscore in the file name.
Parameter	Value
---------------------	--
Removal Destination	sreg(XMLTRAD.Archive)
	This value is an SREG that uses a defined directory to which output messages are moved if they fail during transformation.
	It is recommended to configure a removal destination when you are constructing a basic channel.
Suffix In	XML
	Input files with the extension .xml are allowed.
Suffix Out	TRAD
	In this example, the extension for output files is .trad .

Sample Channel Process Flow

A route is defined in the sample channel that invokes the *XMLToTRAD_Ebix_2* process flow. Using the validation report, valid transformed XML data is output to one folder and invalid transformed data will be written to another folder. If the transformation agent fails, then a *bad* validation report will be written. Bad validation reports can be routed through email or a queue for further inspection and remediation.

The following image shows the process flow from the sample channel.



Prior versions of the iWay e-Business user documentation demonstrate how to build channels and process flows in more detail using the iSM Administration Console and iIT.

Adding an Ebix to a Channel

This section describes how to add an Ebix to the channel.

Procedure: How to Add an Ebix to a Channel

1. Open Channel Builder in ilT and then select the name of the channel in the upper-left pane.

Channel Builder					
TRADToXML_B_QS_pflow_valrpt_channel	TRADToXML B2.QS. Processing channel EBDES should be att Tick the check-box b ♥ Dynamic Routing Manage channel deg implies it will be pac Name TRAD_TRAD93	pflow_valpt_chann TRADACOMS inbox sched to this channe kelow to enable or di beendencies, such as 1 kaged within this chi Attached yes	el Ind data to XML. Char I before deployment. Isable dynamic routing Ebixes and Registers: P annel. Type ebix	inel uses SREG (Special Registers) to define de for this channel. lease note a resource marked "attached" Location Ebixes/TRAD/TRAD_TRAD93	Liggi ting i ⊘ tingtion paths - Significant Signific

2. Click the green plus (+) symbol to add a new Ebix. You can also select an Ebix and click the red (x) symbol to delete an Ebix.

If your channel contains multiple Ebixes, then use the up and down arrows to order the Ebixes. Ebixes are executed in the order that they appear on this screen, from top to bottom.

- 3. Ensure to save your changes.
- 4. If you make any changes to the channel, rebuild and redeploy the iIA for the changes to take effect.

Rebuilding Your Application

If any changes are made to your application, then you must rebuild your application.

Procedure: How to Rebuild Your Application

1. In the Integration Explorer tab (left pane of iIT), right-click *Applications*, click *New*, and then select *Application* from the context menu, as shown in the following image.

🔬 Integration E 🔀 🚺	🧵 iWay Explorer 📑 Library Mana		
	4 4 @ E 🕯	• ▽	
a 🚔 TRAD_usr_sample	es_prj		
🗁 Adapters			
🔺 🗁 Applications			
b 🧐 trada	New +		Integration Project
a 🗁 Channel	Go Into	C3	Project
🕞 Emit	Open in New Window	3	Application
🕞 Liste 🗊	Сору	a	Deployment Template
🔁 Outl 🍙	Paste	8	Channel
😂 Prep 👔	Duplicate	å	Process Flow
E TRAL	Delete	(Acc)	Transform
⊳ ≣ Xml	Move		Register Set
Ebixes	Rename	6	Schema Set
Flows	Import	fW	IFL Expression
A 🗁 Register 🛁	Export	F \$	Example

The New Application Wizard (General Properties pane) opens, as shown in the following image.

🔬 New Application Wi	zard	- • •
General Properties Please select a project	location and choose a name for the new application	
Project Folder	/TRAD_usr_samples_prj/Applications	Browse
Name	test_application	
Description		Â
	Create in current folder	
?	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

2. Enter a name for your application, and then click *Next*.

The Resource Selection pane opens, as shown in the following image.

🔬 New Applicatio	n Wizaro	1			
Resource Select Add channels, tra	ion ansform:	s and pro	cesses to your ap	plication.	
				-	
Name	Туре	Aut	Location	Description	Select All
TRADToX	inlin	yes	/TRAD_usr_s	Processing channel	
TRADtoXI	pro		/TRAD_usr_s		Deselect All
📄 👸 XMLToTR	pro		/TRAD_usr_s	XMLToX12_Ebix	
🔽 🧧 XmlToTR	inlin	yes	/TRAD_usr_s		
•				+	
-					
?		< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel
-	_				

3. Select the check boxes next to your channels and then click *Finish*.

Important: Applications must be rebuilt and redeployed when changing Ebixes or SREGs in a channel. If you are unsure, rebuild and restart your application.

For more information on deploying and starting your application, see *Deployment Information for Your iWay Integration Solution* on page 21.



Ebix-Supported Transaction Set

This appendix describes the TRADACOMS transaction set supported by the iWay Integration Solution for TRADACOMS in the Ebix file that is supplied with the product.

In this appendix:

TRAD93

TRAD93

The iWay Integration Solution for TRADACOMS supports the **TRAD93** transaction set.



Configuring the EDI Activity Driver

This section describes how to configure the EDI Activity Driver using iWay Service Manager.

In this appendix:

- □ EDI Activity Driver Overview for TRADACOMS
- Configuring the EDI Data Provider
- Configuring the EDI Activity Driver

EDI Activity Driver Overview for TRADACOMS

The EDI Activity Driver is an extension of the Activity Facility in iWay Service Manager (iSM). It is used to log events as messages are processed. Logging can occur when:

- □ a message is acquired.
- □ a message is emitted.
- an error occurs.
- □ a component such as an agent or process flow is called.

For more information about the Activity Facility, see the iWay Service Manager User's Guide.

Using the iSM Administration Console, you must first configure the EDI data provider and then the Activity Facility handler.

Configuring the EDI Data Provider

This section describes how to configure the EDI data provider using the iSM Administration Console.

Procedure: How to Configure the EDI Data Provider

- 1. Log on to the iSM Administration Console.
- 2. From the left pane under Providers, click Data Provider, as shown in the following image.



The Data Provider pane opens, as shown in the following image.

Data Provider

Listed below are the data provider definitions that are available in the base configuration of this server.

JDBC Conn platfo listing provid jdbc/p	ections - JDBC or Java Database rm and a wide range of database s below define JDBC connections der as a DataSource by setting the provider name.	e Connectivity is a standar s. The JDBC interface prov used within iWay Service I e initial context factory to (d for database-independent connec ides a call-level API for SQL-based Manager. iWay components that us com.ibi.jndi.XDInitialContextFactory	tivity between the Java database access. The e JNDI can access a JDBC y and using the name
	Name		Driver	
	No connections have been define	d	1	
New)			
JLINK Serv e The se	e rs - JLINK is a technology that c ervers listed below are defined fo	an be used to access infor r use with JLINK.	mation hosted by iWay, WebFOCUS	and EDA data servers.
	Name	Description		Туре
	No servers have been defined	·		
New]			

The tables that are provided list the configured JDBC and JLINK data providers that are available. By default, no data providers are configured.

3. In the JDBC area, click *New* to configure a new JDBC data provider.

The configuration pane for the JDBC Data Provider opens, as shown in the following image.

JDBC Connection Pool Pro	operties
Name *	Enter the name of the JDBC data provider to add.
	EDI_Activity_DB
Driver Class	The JDBC driver class is the name of the class that contains the code for this JDBC Driver.
	com.mysql.jdbc.Driver
	Select a predefined database or enter your own.
Connection URL	The JDBC connection URL to use when creating a connection to the target database. The URL generally includes the server name or IP address, the port or service, the data source name, and a driver specific prefix.
	jdbc:mysql://localhost:3306/IWay
	Select a predefined connection URL template or enter your own.
User	User name with respect to the JDBC URL and driver.
	iway
Password	Password with respect to the JDBC URL and driver.
	••••
Connection Pool Properti	ies
Initial Pool Size *	Number of connections to place in the pool at startup.
	1
Maximum Number of Idle Connections *	Maximum number of idle connections to retain in the pool. O means no limit except what is enforced by the maximum number of connections in the pool.
	1
Maximum Number of	Maximum number of connections in the pool. O means no limit.
Connections *	1
Login Timeout	Time in seconds to wait for a pooled connection before throwing an exception. 0 means wait forever.

- 4. In the Name field, enter a name for the new JDBC data provider, for example, EDI_Activity_DB.
- 5. From the Driver Class drop-down list, select an appropriate driver or enter the specific driver name (class) that you are using, for example:

com.mysql.jdbc.Driver

6. From the Connection URL drop-down list, select an appropriate connection URL or enter the specific driver connection URL that you are using, for example:

```
jdbc:mysql://localhost:3306/IWay
```

- 7. In the User field, enter a user name with respect to the JDBC URL and driver.
- 8. In the Password field, enter a password with respect to the JDBC URL and driver.
- 9. In the Initial Pool Size field, enter the number of connections to place in the connection pool during startup.

10. In the Maximum Number of Idle Connections field, enter the maximum number of idle connections to retain in the connection pool.

A value of zero means that there is no limit, except what is enforced by the maximum number of connections in the connection pool.

11. In the Maximum Number of Connections field, enter the maximum number of connections in the connection pool.

A value of zero means that there is no limit.

12. Click Add.

The JDBC data provider that you configured is added to the JDBC Connections list, as shown in the following image.

Data Frovider	Data	Provider
---------------	------	----------

Listed below are the data provider definitions that are available in the base configuration of this server.

JDBC Connections - JDBC or Java Database Connectivity is a standard for database-independent connectivity between the Java platform and a wide range of databases. The JDBC interface provides a call-level API for SQL-based database access. The listings below define JDBC connections used within iWay Service Manager. iWay components that use JNDI can access a JDBC provider as a DataSource by setting the initial context factory to com.ibi.jndi.XDInitialContextFactory and using the name jdbc/provider name.					
Name		Driver			
Com.mysql.jdbc.Driver					
New Delete Rename Cop JLINK Servers - JLINK is a technology that ca The servers listed below are defined for	an be used to acces r use with JLINK.	ss information hosted by iWay, WebFOCUS	and EDA data servers.		
Name	Name Description Type				
No servers have been defined					
New					

Configuring the EDI Activity Driver

This section describes how to configure the EDI Activity Driver using the iSM Administration Console.

Procedure: How to Configure the EDI Activity Driver

1. Log on to the iSM Administration Console.

2. From the left pane under Facilities, click Activity Facility, as shown in the following image.



The Activity Facility pane opens, as shown in the following image.

Activity Facility Listed below are the activity (sometimes called audit) handlers that have been configured. You can add to this list or delete from server has to be stopped and started for any change to take effect. Configured Activity Handlers					
Name	Туре	Active			
No activity handlers have been defined					
Add					

The table that is provided lists the configured Activity Facility handlers. Initially, no handlers are shown.

3. Click Add to configure a new Activity Facility handler.

The	configuration	pane for	the	Activity	Facility	handler	opens.
-----	---------------	----------	-----	----------	----------	---------	--------

Activity	
Туре	The type is the specific class of handler in use EDI Activity Logs
Name	The handler will be known by this name in the system. Names must be unique. EDI Activity Logger
Description	Describe the purpose of this handler
Active	Active handlers perform work in the server. Inactive handlers remain defined but are not used during this server run. To change the active state, after updating you must cold restart the server. true Pick one

- 4. From the Type drop-down list, select EDI Activity Logs.
- 5. Enter a unique name for the EDI Activity Driver and a brief description.
- 6. From the Active drop-down list, select *true*.

7. Configure the JDBC driver for the database you are using.

Configuration Parame	ters
JNDI Factory Name	JNDI initial context factory class used to access data source. Use com.ibi.jndi.XDInitialContextFactory for an iWay JDBC provider or leave blank for JVM default.
	com.ibi.jndi.XDInitialContextFactory
JNDI Name *	JNDI Name for the data source this driver will use. To use an iWay JDBC provider, enter the JNDI name as jdbc/provider name otherwise the defined provider's information will be used.
	jdbc/EDI_Activity_DB
Table *	Table name to which to write log.
	IAM_ACTIVITY
Compression	What form of compression, if any, should be used on the messages. Compression saves space at the expense of time.
	none
	Pick one

If the database tables do not exist, they will be automatically created when the iSM is restarted.

8. Provide values for the remaining parameters, as defined in the following table.

Parameter Name	Туре	Description
JNDI Factory Name	String	The JNDI initial context factory class that is used to access a data source. Use com.ibi.jndi.XDInitialContextFactor y for an iWay JDBC provider or leave this field blank for the JVM default.
JNDI Name	String	The JNDI name for the data source this driver will use. To use an iWay JDBC provider, enter the JNDI name as jdbc/< <i>data provider</i> <i>name</i> >, where <i>data provider name</i> is the name of the EDI Activity Driver that was specified in step 4. Otherwise the information for the defined provider will be used.
Table	String	Table name for the activity log. This must be a valid identifier in the database being used. If the table does not exist at startup, it will be created automatically.

Parameter Name	Туре	Description
Compression	Drop-down list	Specify whether the messages are to be compressed. Values include:
		none (default)
		□ smallest
		☐ fastest
		standard
		Huffman
Start Events	Boolean Drop-down list	If set to <i>true</i> (default), the input messages will be recorded in the activity log. This values must be set to <i>true</i> for use of the audit reports in the console.
Internal Events	Boolean Drop-down list	If set to <i>true</i> , system events are included in the activity log. System events include activities such as parsing and transformations (optional). False is selected by default.
Security Events	Boolean Drop-down list	If set to <i>true</i> (default), security events are recorded. This includes digital signature, and so on. However, console activity is not recorded.
Business Error Events	Boolean Drop-down list	If set to <i>true</i> , business errors are recorded, such as rules system violations. False is selected by default.
Emit Events	Boolean Drop-down list	If set to <i>true</i> (default), output messages from emitter services will be recorded. This is required for use of the audit log reports in the console.

Parameter Name	Туре	Description
End Events	Boolean Drop-down list	If set to <i>true</i> (default), the end of message processing will be recorded in the activity log. This is required for use of the audit log reports in the console.
Notes Table	String	Table name for the notes table, which contains log annotations. If the table does not exist at startup, it will be created automatically.
MAC Algorithm	String Drop-down list	The Message Authentication Code (MAC) algorithm. None (default) indicates a MAC should not be computed.
MAC Provider	String Drop-down list	The Message Authentication Code (MAC) provider. Not Specified indicates the default provider should be used. The remaining available value is <i>SunJCE</i> .
MAC Secret Key	String	The Message Authentication Code (MAC) secret key to use.

9. Click Update.

If necessary, start the database services.

10. Restart iSM to start the EDI Activity Driver and begin logging.

The EDI Activity Driver inserts records into the configured activity database. The records are designed for fast writing rather than for ease of later analysis. A set of inquiry service agents suitable for use in a process flow is available to assist during the analysis of the log. Users are cautioned that iWay does not guarantee the layout of the record from release to release, and this should be checked against the actual schema.

Database Field	Description
recordkey	Unique record identifier.

Database Field	Description	
recordtype	Type of this record - the event being recorded.	
	101 - Message start.	
	131 - Entry to event (see subtype codes below).	
	132 - Normal exit from event.	
	133 - Failed exit from event.	
	151 - Ancillary message (usually rules violation).	
	□ 181 - Emit.	
	191 - Message end.	
signature	Encoding of the listener name and protocol.	
protocol	Name of the protocol.	
address	Address to which an emit is to be issued. The format depends on the protocol.	
tstamp	Timestamp of record.	
correlid	Control Number	
tid	Transaction ID assigned to this message.	
msg	Message appropriate to this record type. For example, an input message contains the original message received, if possible. Streaming input does not contain a record.	
context	Serialized special registers that were in the context at the time the record was written.	
text	Message text for business errors (rules system violations).	

Database Field	Description
status	Status code recorded.
	0 - Success
	1 - Success, message end (191 record)
	10 - Rules error
subtype	Event code for event records.
	1 - Preparser
	2 - Parser
	□ 3 - In reviewer
	□ 5 - In validation
	G - In transform
	□ 7 - Agent or flow
	8 - Out transform
	9 - Out validation
	11 - Preemitter
	1000 - input record written to table before transformation
partner_to	Sender ID
partner_from	Receiver ID
encoding	Encoding of the listener that obtained the document.
mac	Not used in this version.
Driver version	1.0 in 7.0 SM



Using iWay Integration Tools to Configure an Ebix for TRADACOMS

This section describes how to use iWay Integration Tools (iIT) to configure an e-Business Information Exchange (Ebix) file for TRADACOMS.

In this appendix:

- Ebix Overview
- Ebix Prerequisites
- Working With iWay Integration Tools (iIT)

Ebix Overview

You can use iWay Integration Tools (iIT) to import, edit, export, and work with e-Business Information Exchange (Ebix) files. You can:

- □ Import and create a custom TRADACOMS Ebix in iIT.
- Add a custom qualifier to the custom Ebix.
- Export the edited Ebix to a physical location.

The edited Ebix can be returned and then tested with the appropriate TRADACOMS message.

Ebix Prerequisites

This section provides a list of prerequisites for using iWay Integration Tools (iIT) to configure an Ebix for TRADACOMS:

- Have a working knowledge of iIT and TRADACOMS.
- Ensure the iWay TRADACOMS adapter is installed.
- Ensure iIT Version 7.0.6 is installed.

Working With iWay Integration Tools (iIT)

This section describes how to import, edit, and export an Ebix using iWay Integration Tools (iIT).

Procedure: How to Import an Ebix

- 1. Start iWay Integration Tools (iIT).
- 2. Right-click the Integration Explorer pane, click *New*, and then select *Integration Project* from the context menu, as shown in the following image.

A Integration - iWay Integra	ation Tools
File Edit Navigate Search P	Project Run Window Help
] 📬 • 🔛 🖻 🗠] 🔏 🕽	🛿 월 🛝 🏇 • 🔾 • 💁 • 🔗
🔬 Inte 🛛 🤨 iWa 😫	Libra
$\leftarrow \rightarrow \epsilon$	
New >	A Integration Project
Copy	C Project
Paste	
Duplicate	Channel
Delete	Process Flow
	Transform
Import	Register Set
export	3 Schema Set
🐑 Refresh	f() IFL Expression
	C Example
	Ctrl+N

3. Enter a new Integration Project name, for example, *TRADACOMS_Ebix_edit_sample_proj*, in the Project name field, and then click *Finish*, as shown in the following image.

🔏 New Integration Project
Integration Project
Create a new Integration project.
Project name TRADACOMS_Ebix_edit_sample_proj
Project location
Use default
Directory C:\iIT 7.0.6 GA\iIT-7.0.6\TRADACOMMS workspace Browse
Additional options Image: Create integration folders
Target Server Version 7.0.6
Install additional Target Server Version
? Einish Cancel

4. Right-click the Integration Explorer pane and select *Import* from the context menu, as shown in the following image.



- 5. In the Import wizard, expand iWay Integration, select Ebix, and then click Next.
- 6. Click the *ellipsis* (...) button to the right of the Import field.

The Open dialog is displayed.

🖉 Open							×
	Network + wartifacts + auton	hation + images + 7.0.7-SNAPSHOT	 ebiz 	•	Search ebiz		Q
Organize 🔻	New folder				8	•	0
📜 IWAY ^	Name	Date modified	Туре	Size			-
👰 IWAY	SWIFT_2014.ebx	11/4/2016 11:46 AM	EBX File	1,851 KB			
🏴 IWAY	SWIFT_2015.ebx	11/4/2016 11:47 AM	EBX File	1,866 KB			
🛒 IWAY	SWIFT_2016.ebx	11/4/2016 11:47 AM	EBX File	1,904 KB			
PAWI 📑	TRAD_TRAD93.ebx	11/4/2016 1:27 PM	EBX File	1,012 KB			
💻 Iway	X12_2001.ebx	11/4/2016 11:48 AM	EBX File	797 KB			
PAWI 📑	🔍 X12_2002.ebx	11/4/2016 11:48 AM	EBX File	937 KB			
PAWI 📑	🔍 X12_2003.ebx	11/4/2016 11:48 AM	EBX File	993 KB			
🐏 IWAY	X12_2040.ebx	11/4/2016 11:48 AM	EBX File	1,656 KB			
🖳 IWAY	X12_3010.ebx	11/4/2016 11:49 AM	EBX File	2,234 KB			
PAWI 📑	X12_3010VICS.ebx	11/4/2016 11:49 AM	EBX File	350 KB			
👰 IWAY 🔤	🔍 X12_3020.ebx	11/4/2016 11:49 AM	EBX File	5,084 KB			
📑 IVJDI	X12_3020VICS.ebx	11/4/2016 11:49 AM	EBX File	409 KB			
🖳 IWSU	🔍 X12_3030.ebx	11/4/2016 11:50 AM	EBX File	9,079 KB			
🛒 JP030	X12_3040.ebx	11/4/2016 11:50 AM	EBX File	11,633 KB			
💻 KSEN	X12_3040UCS.ebx	11/4/2016 11:50 AM	EBX File	1,649 KB			
🎼 MHW 🛫	X12_3040VICS.ebx	11/4/2016 11:50 AM	EBX File	2,126 KB			
	File name: TRAD_TRAD93.eb	x			✓ Ebix File (*.ebx)		•
					Open	Cance	

7. Navigate to and select your TRAD_TRAD93.ebx file, and then click Open.

8. Click Next.

9. In the Ebix pane, expand the Ebix tree, and then in the Ebix Entries pane, highlight ORDHDR, and then click *Finish*.

🔬 Import	- • •
Ebix Entries	
Select ebix version to view available ebi	ix entries.
Transform ebix are specially designed a represents transform configuration and Timport as System Ebix	rchive files that contain ebix entries. Ebix entry I dependencies used by iWay transform engine.
Ebix	Ebix Entries
TRAD_TRAD93	INVFIL INVFIL INVFIL ILPRHDR INVFIL INVFIL INPROHDR INVFIL INPROHDR INPHDR INPHDR INPHDR INPHDR INPHDR
Description:	
Entry: ORDHDR Run Time Mode: N/A Description:	*
(f) < <u>B</u> ack	Next > Finish Cancel

🔬 Integration - TRADACOMS_Ebix_edit_sample_proj/Ebixes/TRAD/TRAD_TRAD93/ebix/1.0/TRAD93/dictionaries/OR File Edit Navigate Search Project Run Window Help Ⅲ 参 ▼ 🔾 ▼ 💁 ▼ 🔗 ▼ 🖗 ▼ 🖓 ▼ 🗇 マ 🗇 ▼ 📑 🗝 🔛 🕼 🗁 🕴 🛸 🛸 🗖 🗖 🚦 TRAD_TRAD93.TRAD93.ORDHDR 🖾 🔬 Inte... 🔀 🧵 iWa... 🛋 Libra... 🔺 🍤 EDI Image: Control of the other 🔄 TRAD_usr_samples_prj 🕞 🧐 STX [STX] TRADACOMS_Ebix_edit_sample_proj 5 🍤 SGO 😂 Adapters 5 🍤 SG3 Applications No. 10 [End Of Transmission] Channels 🗁 Ebixes 🗁 Flows 🗁 Registers 🕞 Schemas Emplates 🗁 Transforms 🕞 XML

Your iIT interface should now resemble the following image:

Procedure: How to Edit an Ebix

1. Expand SG0, SG1, SG2, *OLD*, *UNOR*, and then select 03 [Unit of Measure], as shown in the following image.



2. Click the Properties tab at the bottom, then scroll down to view the Domain value, and add *EACHES* into the Domain value field in the properties window.

🔲 Properti	🗆 Properties 🖾 📮 Console			
Compon	Component Element			
General	Property	Value		
	Description	Unit of Measure		
	Req	0		
	Туре	AN		
	MinLength	1		
	MaxLength	6		
	Pad			
	PadChar			
	Align			
	Notes			
	Domain	EACHES, 1, 100, 1000, ANN, BTU, CM, CUFT, CUIN, CWT, DAY, DL, DM		
	•			

3. Save your edited Ebix by clicking the Save icon.

An asterisk (*) character appears next to the file name until you have saved the edited changes, as shown in the following image.



4. Click on Yes to confirm your changes.

🔬 Build	l Working Set	×
?	'Rebuild entry on metadata change' is enabled. 'Preserve existing mappings' is disabled. 'Rebuild all mappings from a dictionary' is enabled. 'Rebuild schema files' is enabled. 'Rebuild rule files' is enabled.	
	<u>Y</u> es <u>N</u> o	

Your iIT interface should now resemble the following image:



Note: The asterisk (*) character will disappear once the edited Ebix has been saved successfully.

Procedure: How to Export an Ebix

To export an Ebix:

1. Expand the *Ebixes* folder in the left pane, then expand *TRAD*, *TRAD_TRAD93*, *Trad93*, and then right-click *ORDHDR* and select *Export* from the context menu.

🔬 Inte 🔀 🤨 iWa 🛋 Libra		🖶 TRAD_TRAD93.TRAD93.ORDHDR 🖾
 Channels Channels Channels Channels Ebixes TRAD TRAD TRAD TRAD TRAD TRAD3 ORDHDR 	∃ 🔩 ▽	S EDI ORDHDR [Order] STX [STX] SG0 SG3 END [End Of Transmission]
 Flows Registers Schemas Templates Transforms XML 	New Copy Paste Duplic Delete Export Refrest Proper	• ate t h tties

2. Expand the *iWay Integration* folder, select *Ebix*, and then click *Next*, as shown in the following image.



3. In the left pane, expand *TRADACOMS_Ebix_edit_sample_proj*, then on the right pane, select the check box for the *ORDHDR* document and enter or select the destination to write the Ebix, as shown in the following image.

🖉 Export	- • •
Export	
Export Ebix resources to the local file system.	
TRADACOMS_Ebix_edit_sample_proj Adapters Adapters Applications Channels Ebixes TRAD TRAD TRAD3 Flows Registers Schemas Transforms	
Select All	Deselect All
To directory: C:\Users\bl11749\Desktop	Browse
(?) < <u>Back</u> Next > Einish	Cancel

4. Click Next.

5. Provide a name for the Ebix in the Name field, add an optional description (optional), and then click *Finish*.

💰 Export	- • •			
Export Ebix				
Create a new Ebix				
Create a new transform ebix by first specifying a name and description of a new ebix. Transform ebix are specially designed archive files that contain transform configuration and dependencies used by iWay transformation engine. This wizard will allow you to create a new ebix and ebix entry for specified type.				
Name:				
TRAD_TRAD93_ORDHDR				
Ebix Type:				
TRAD				
Runtime Mode:				
Pipeline	-			
Description:				
	*			
	-			
(?) < Back	Cancel			

Your exported Ebix is now available in the specified location.

You can attach the Ebix to your channel in iIT using the Channel Builder. Be sure to set the execution order of your Ebix after adding it to your queue. The order that the Ebix are executed is top-down as they are displayed. If you want this custom ORDHDR dictionary to be executed prior to the standard one in the stock Ebix, then the custom Ebix must be at the top of the list.



Sample TRADACOMS Files

This appendix provides sample TRADACOMS files.

In this appendix:

- TRADACOMS ORDHDR (Order Header)
- TRADACOMS INVFIL (Invoice File Header)

TRADACOMS ORDHDR (Order Header)

TRADACOMS uses a header with each interchange (ORDHDR for the ORDERS message). This header message contains information that is specific to each message in the interchange.

The following is a sample TRADACOMS ORDHDR (Order Header).

```
STX=ANA:1+500000000000:SOME STORES LTD+501000000000:SUPPLIER UK LTD
+070315:130233+000007+PASSW+ORDHDR+B'
MHD=1+ORDHDR:9' TYP=0430+NEW-ORDERS'
SDT=501000000000:000030034' CDT=500000000000' FIL=1630+1+070315'
MTR=6' MHD=2+ORDERS:9'
CLO=500000000283:89828+EAST SOMEWHERE DEPOT' ORD=70970::070315'
DIN=070321++0000' OLD=1+501021000000++:00893592+12+60++++CRUSTY ROLLS:4
PACK' OTR=1'
MTR=7' MHD=3+ORDTLR:9' OFT=1'
MTR=3' END=3'
```

TRADACOMS INVFIL (Invoice File Header)

The following is a sample TRADACOMS INVFIL (Invoice File Header).

```
STX=ANAA:1+501xxxxxxxx:name+501xxxxxxx:name+040316:184411+00001+
+INVFIL'
MHD=1+INVFIL:9'
TYP=0700+INVOICES'
SDT=1234567895011:053752CF01STDD+name+address:Co. Antrim:N.Ireland:OG27 5WQ
+412557175'
CDT=1234567895011+name+address:Ehorel:Birmingham:OG45 9CM'
FIL=1+1+160901'
FDT=040302+040302'
MTR=7'
MHD=2+INVOIC:9'
CLO=000000100007:123++GOLF CLUB:ABEGU ROAD:PNEEVPX SRETHF::OG388YC'
IRF=01000589M+040302+040302'
ODD=1+::040302+:040302'
ILD=1+1+:8408++:31266+0+2:2500:KG+54300+135800+Z+0+++SILVERSIDE 1-5 KG'
STL=1+Z+0+0+1358+++++1358++0+0++1358'
TLR=1+1358+++++1358++1358+0++1358'
MTR=8'
MHD=3+VATTLR:9'
VRS=1+Z+0+1358+1358+0+1358+1358'
MTR = 3'
MHD=4+INVTLR:9'
TOT=1358+1358+0+1358+1358+1'
MTR=3'
MHD=5+RSGRSG:2'
RSG=00001+501xxxxxxxxxxx
MTR=3'
END=5'
```

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iWay Integration Solution for TRADACOMS User's Guide

Version 7.0.x and Higher

DN3502227.0418

Information Builders, Inc. Two Penn Plaza New York, NY 10121-2898