

TIBCO iWay® Service Manager

Trading Partner Manager User's Guide

Version 1.5 July 2021 DN3502305.0721



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Introducing TIBCO iWay[®] Trading Partner Manager

This section provides an overview of $iWay^{\mathbb{R}}$ Trading Partner Manager, including key features and components.

In this chapter:

- About iWay Trading Partner Manager
- Architecture

About iWay Trading Partner Manager

iWay Trading Partner Manager provides a centralized repository to manage trading partner information and their relationships. It provides an intuitive web console where trading partner related information can be viewed and managed. Supported trading partner information types include:

- Personal information, such as a partner contact.
- Message-specific information, such as exchanged message formats.
- System-specific information, which enables dynamic routing of the partner transaction to a configured system.

The centralized trading partner repository enables you to store and update partner information without interfering with a business process.

The partner-related information is accessed through a set of iWay Trading Partner Manager runtime functions, which follow the standards of iWay Functional Language (iFL). The dynamic lookup for partner information allows partner-specific processing of messages by a non-partner specific configuration. iWay Trading Partner Manager function calls enable a business channel to receive multiple documents from various partners. This dynamically determines the inbound and outbound partners based on the message information and routes the message to a proper system.



The following diagram illustrates the relationships between the various iWay Trading Partner Manager components.

Architecture

The iWay Trading Partner Manager framework consists of a web console for design time, runtime functions, and REST API interface.

Web Console

The iWay Trading Partner Manager web console conforms to Web 2.0 standards and is designed using AJAX (Asynchronous JavaScript and XML).

The web console can be accessed using the following URL:

http://localhost:8092

TP Trading Partner	Manager	
		Inf@rmation Builders
	Log into Trading Partner Manager	
	Username	
	admin	
	Password	
	Sign in	

The login screen opens, as shown in the following image.

To sign in to the web console, you can use the default user name *admin* and the password *iway*.

Runtime Functions

iWay Trading Partner Manager includes a set of predefined function calls, which provide easy access to iWay Trading Partner Manager data during run time. The function calls are compliant with the iWay Functional Language (iFL) specification and can be used wherever iFL is accessible.

Repository

iWay Trading Partner Manager stores partner information as it is defined by the user in a repository. You are required to configure the iWay Trading Partner Manager repository that is accessible through a JDBC provider. Once iWay Trading Partner Manager is configured to use a defined JDBC provider, all of the underlying tables in the configured repository are automatically created. You have an option to preconfigure the database, in which case, iWay Trading Partner Manager will not automatically generate the tables. The web console writes and reads information from this repository, which enables you to manage partner information. The runtime functions use this repository to retrieve partner data and to process the message.

iWay Trading Partner Manager supports the following databases for repository configuration purposes.

- MS SQL Server Version 2005 and higher
- Oracle Version 8i, 9i, 10g, and 11g
- DestgreSQL (Postgres) Version 12



Installing iWay Trading Partner Manager

This section provides iWay Trading Partner Manager prerequisite information and describes how to install iWay Trading Partner Manager.

In this chapter:

- Prerequisites
- Quick Start
- Installing iWay Trading Partner Manager on Windows
- Installing iWay Trading Partner Manager on Linux
- Using the Start and Stop Menu Options
- Installation Considerations
- Uninstalling iWay Trading Partner Manager
- Using SQL Scripts
- Configuring and Enabling LDAP

Prerequisites

Before you install iWay Trading Partner Manager, ensure that the following requirements are available in your environment:

🛛 Java

Oracle Java Development Kit (JDK) version 8

Database Management System (DBMS)

iWay Trading Partner Manager currently supports the following:

- MS SQL Server (MSSQL)
- Oracle
- PostgreSQL (Postgres)

Notes:

- Back up your existing database before proceeding with the iWay Trading Partner Manager installation.
- iWay Trading Partner Manager database tables must be created or updated prior to installation.
- ❑ When configuring the name of your iWay Trading Partner Manager database using a database management utility (for example, SQL Server Management Studio), ensure that you specify a case-insensitive name for the database (for example, tpml5_repos, and not TPM15_Repos).

Quick Start

This section outlines the key steps that are required to install iWay Trading Partner Manager in your environment. Ensure these steps are completed in the order specified.

1. Enter the following URL in your browser and sign in to the TIBCO iWay[®] Service Manager Administration Console.

```
http://localhost:9999/ism
```

2. Configure a new Data Provider for use with iWay Trading Partner Manager.

iWay Service Manager <u>Server</u> Registry Deployments Tools		
Properties General Properties General Properties Listed below are the general		
Java Properties	General	
Settings	Name / Home	
General Settings	Version	
Console Settings	Build Date	
Java Settings	Usage	
Register Settings	Configuration	
Trace Settings	Name	
Log Settings	Status	
Path Settings	User Security Access	
Backup Settings	Environment	
SOAP1 Settings	OS / Hardware	
2	Java Info	
Providers	Java Memory	
Data Provider	Classpath	
Services Provider 🔾		
LDAP Directory Provider	Language and Locale	
Security Provider	Locale / Timezone	
XML Namespace Map Provider	Language	
HTTP Pooling Providers		
Authentication Realms		

For more information, see the TIBCO iWay[®] Service Manager User's Guide.

3. Click *Tools* and select *Trading Partner Manager* under Applications in the left pane, as shown in the following image.

iWay Service Man Server Registry Deplo	a ger yments <u>Tools</u>	Management base	▼ Licens	 8.0.4.295 8.0.4.295 8.0.4.295 8.0.4.295
Applications Business Activity Monitor Enterprise Index Trading Partner Manager	Trading Partner Manager Listed below are the Trading Partner Manager access handlers Partner Manager information repositories during message proc started for any change to take effect. Configured iTM Access Handlers	that have been configured. Access handlers essing. You can add to this list or delete fro	resolve inquirie m it. The server	es made to the Trading r has to be stopped and
Diagnostics Log Viewer	Name No access handlers have been defined		Туре	Active
Imports/Exports Package Manager Archive Manager	Add			

- 4. Click Add to configure a new Access Handler.
- 5. Stop and then start $iWay^{\mathbb{R}}$ Service Manager.

The required databases are created.

6. Download and run the iWay Trading Partner Manager installer.

Note: Ensure that the database driver, database name, ports, and credentials, match the values that you specified during the configuration of the Data Provider in step 2.

- 7. Complete the iWay Trading Partner Manager installation.
- 8. Enter the following URL in your browser:

http://hostname:port_number

where:

hostname

Is the name of the system hosting iWay Trading Partner Manager.

port_number

Is the port number that you specified for the iWay Trading Partner Manager server during the installation. For example:

http://localhost:8092

The login page opens in your browser, as shown in the following image.

P Trading Partner	Manager	
		Inførmation Builders
	Log into Trading Partner Manager	
	Username	
	admin	
	Password	
	Sign in	

- 9. Enter the following default login credentials:
 - Username: admin
 - Dessword: iway

10.Click Sign in to begin using iWay Trading Partner Manager.

Installing iWay Trading Partner Manager on Windows

On Windows, the iWay Trading Partner Manager installer is packaged as a self-extracting (.exe) file (for example, *tpm-installer-1.5.x-Windows.exe*).

Before continuing with the installation, create a directory on your file system for your JDBC driver .jar files. For example:

C:\jdbcjars

Copy your JDBC driver .jar files to this directory, as shown in the following image.



In addition, create a directory on your file system where you would like to install iWay Trading Partner Manager. For example:

C:\iWay_TPM

To install and run iWay Trading Partner Manager:

1. Double-click the installation file (for example, tpm-installer-1.5.x-Windows.exe).

The installer (InstallAnywhere) loads on your system, as shown in the following image.

InstallAnywhe	ere
ی	InstallAnywhere is preparing to install
	58%
	Cancel

If you already have an instance of iWay Trading Partner Manager installed on your system, then the Manage Instances dialog box displays, as shown in the following image.

Manage Instances	×
Manage instances by selecting one of the followin	g options:
Install a New Instance	
Modify an Existing Instance	
C1	
QK Can	cel

You can install a new instance of iWay Trading Partner Manager if there is already one installed. Select *Install a New Instance*, and then click *OK*.

Note: Do not use the *Modify an Existing Instance* option, which is not supported in the current release.

Once loaded, the Introduction screen displays, as shown in the following image.



2. Click Next.

The Choose Installation Folder screen displays, as shown in the following image.

Trading Partner Manager		— ×
	Choose Installa	tion Folder
 Introduction Choose Installation Folder Choose Java Virtual Machine Specify Location of JDBC . jar Files Specify TPM Server Port Number Enter TPM Database Parameters Enter TPM Database User Password TPM Database Connection Test Results Install TPM as a Windows Service Pre-Installation Summary Installing Start TPM Server? Install Complete 	Please specify the folder which will be the root of this installation. Where Would You Like to Install? C:\wway_TPM Restore Default Folder	Choose
InstallAnywhere Cancel	Previous	Next

- 3. Click Choose, and select the directory you created before you started the installation (for example, C:\iWay_TPM).
- 4. Click Next.

The Choose Java Virtual Machine screen displays, as shown in the following image.

Trading Partner Manager		— ×
		Choose Java Virtual Machine
 Introduction Choose Installation Folder Choose Java Virtual Machine Specify Location of JDBC . jar Files Specify TPM Server Port Number Enter TPM Database Parameters Enter TPM Database Connection Test Results Install TPM as a Windows Service Pre-Installation Summary Installing Start TPM Server? Install Complete 	Please Choose a Java VM for Use by the Installed Application C.\Program Files\Java\jdk1.8.0_111\bin\java.exe	
InstallAnywhere	Search Another Location	Choose Java Executable Previous Next

- 5. Select a specific version of Java that is installed on your system, or accept the default version that is automatically detected by the installer.
- 6. Click Next.

The Specify Location of JDBC .jar Files screen displays, as shown in the following image.

Trading Partner Manager	- ×
	Specify Location of JDBC .jar Files
 ✓ Introduction ✓ Choose Installation Folder ✓ Choose Java Virtual Machine > Specify Location of JDBC _jar Files ○ Specify TPM Server Port Number 	TPM uses a DBMS specific .jar file(s) to implement the JDBC protocol and communicate with the DBMS. The JDBC jar file(s) are supplied by your DBMS vendor, and you must copy them to a location on the target TPM Host machine, and enter the location of the JDBC jar files below.
Enter TPM Database Parameters Enter TPM Database User Password	Enter the location of the JDBC jar file(s).
• TPM Database Connection Test Results	C:\jdbcjars
 Install TPM as a Windows Service 	Restore Default Folder Choose
 Pre-Installation Summary Installing 	
Start TPM Server?	
 Install Complete 	
InstallAnwhere	
Cancel	Previous

- 7. Select the directory on your file system you created earlier, which contains your JDBC driver .jar files (for example, C:\jdbcjars).
- 8. Click Next.

The Specify TPM Server Port Number screen displays, as shown in the following image.

Trading Partner Manager				— ×
		Specify TI	PM Server P	ort Number
 Introduction Choose Installation Folder Choose Java Virtual Machine Specify Location of JDBC .jar Files Specify TPM Server Port Number Enter TPM Database Parameters Enter TPM Database User Password TPM Database Connection Test Results Install TPM as a Windows Service Pre-Installation Summary Installing Start TPM Server? 	Choose a port number for the TPM Server			
Install Complete InstallAnwwhere	TPM Server Port Number	8092		
Cancel			Previous	Next

9. Specify an available port number on your system to be used by the iWay Trading Partner Manager server.

Note: The older versions of iWay Trading Partner Manager used port 8080 as default port number. To avoid any conflicts with your previous version of iWay Trading Partner Manager, it is recommended to use a different port number (for example, 8092) with the new version of iWay Trading Partner Manager.

10.Click Next.

Trading Partner Manager X **Enter TPM Database Parameters** Introduction Choose Installation Folder 🗸 Choose Java Virtual Machine Select the database to use ✓ Specify Location of JDBC .jar Files Specify TPM Server Port Number SQLServer Enter TPM Database Parameters JDBC Driver Enter TPM Database User Password com.microsoft.sqlserver.jdbc.SQLServerDriver TPM Database Connection Test Results URL Install TPM as a Windows Service sqlserver://[host][\instance][:port][;databasename=[DB]];sendStringParametersAsUnicode=false Pre-Installation Summary Oracle Installing... Start TPM Server? Postgres Install Complete User Name user InstallAnywhere Cancel Previous Next

The Enter TPM Database Parameters screen displays, as shown in the following image.

- 11.Select SQL Server, Oracle, or Postgres as the database type.
- 12.Enter the JDBC driver class name, connection URL string, and user name for the database you are configuring with iWay Trading Partner Manager.

JDBC Driver Classes

SQL Server:

com.microsoft.sqlserver.jdbc.SQLServerDriver

Oracle:

oracle.jdbc.driver.OracleDriver

Postgres:

org.postgresql.Driver

Connection URLs

SQL Server:

jdbc:sqlserver://[HOST][INSTANCE][:PORT][;databaseName=[DB]]

Oracle:

jdbc:oracle:thin:@[HOST][:PORT]:[SID]

Postgres:

```
jdbc:postgresql://[host]:[port]/[databasename]
```

13.Click Next.

The Enter Password screen displays, as shown in the following image.



14.Enter the password for the database you are configuring with iWay Trading Partner Manager.

15.Click Next.

The TPM database connection test results screen displays, which shows the results of a connection test to your database, as shown in the following image.

Trading Partner Manager	– ×
	TPM database connection test results
 Introduction Choose Installation Folder Choose Java Virtual Machine Specify Location of JDBC .jar Files Specify TPM Server Port Number Enter TPM Database Parameters Enter TPM Database User Password TPM Database Connection Test Results Install TPM as a Windows Service Pre-Installation Summary Installing Start TPM Server? Install Complete 	The connection test succeeded and the TPM tables exist in jdbc:sqlserver://test:1520;databasename=TPM;sendStringParametersAsUnicode=false partner exists : true tpm_audit_info exists : true
InstallAnywhere Cancel	Previous

16.If the connection test is successful, click *Next* to continue. If you encounter any issues, click *Previous* to adjust your database connection parameters and retest your connection.

Note any messages regarding running SQL scripts to create database tables or update an existing database. If you are required to run any SQL scripts, then see *Using SQL Scripts* on page 43 for more information.

The Install TPM as a Windows Service screen is displayed, as shown in the following image.

Trading Partner Manager		— ×
	Install TPM as a Wi	ndows Service
 Introduction Choose Installation Folder Choose Java Virtual Machine Specify Location of JDBC . jar Files Specify TPM Server Port Number Enter TPM Database Parameters Enter TPM Database User Password TPM Database Connection Test Results Install TPM as a Windows Service Pre-Installation Summary Installing Start TPM Server? Install Complete 	TPM may be run as a Windows Service To run TPM as a Windows Service, select Yes below. Otherwise select No below. Do you want to install TPM as a Windows Service?	
InstallAnywhere Cancel	Previous	Next

17.Click Yes if you would like to install iWay Trading Partner Manager as a Windows service.

18.Click Next to continue.

The Pre-Installation Summary screen displays, as shown in the following image.



19.Review the installation summary and click *Install* if all of the information is correct. If you want to change any value, click *Previous* to return to the appropriate screen.



A progress indicator is displayed during the installation, as shown in the following image.

When the installation has finished, a prompt to start the iWay Trading Partner Manager server displays, as shown in the following image.

Trading Partner Manager			— ×
		Start T	PM Server?
 Introduction Choose Installation Folder Choose Java Virtual Machine Specify Location of JDBC .jar Files Specify TPM Server Port Number Enter TPM Database Parameters Enter TPM Database User Password TPM Database Connection Test Results Install TPM as a Windows Service Pre-Installation Summary Installing Start TPM Server? Install Complete 	● Yes ● No		
InstallAnywhere		Destination	New
Cancel		Previous	Next

If you selected to install iWay Trading Partner Manager as a Windows service earlier in the installation (Step 17), then you can now start the iWay Trading Partner Manager server.

20.Click Yes, and then click Next.

iWay Trading Partner Manager will automatically start and run in the background.



For more information on how to start and stop iWay Trading Partner Manager through the Windows Start menu, see *Using the Start and Stop Menu Options* on page 37.

Trading Partner Manager Install Complete Introduction Congratulations! Trading Partner Manager has been successfully installed to: Choose Installation Folder C:\iWay TPM ✓ Choose Java Virtual Machine Specify Location of JDBC .jar Files Specify TPM Server Port Number Enter TPM Database Parameters Press "Done" to quit the installer. Enter TPM Database User Password TPM Database Connection Test Results ✓ Install TPM as a Windows Service Pre-Installation Summary Installing. ✓ Start TPM Server? Install Complete InstallAnywhere Previous Done

The Install Complete screen displays, as shown in the following image.

21.Click Done.

You are now ready to run iWay Trading Partner Manager and verify your installation.

22.0pen your browser and enter the following URL:

http://hostname:port_number

where:

hostname

Is the name of the system hosting iWay Trading Partner Manager.

port_number

Is the port number that you specified for the iWay Trading Partner Manager server during the installation. For example:

```
http://localhost:8092
```

The login page opens in your browser, as shown in the following image.

TP Trading Partner Manager	
	Inførmation Builders
Log into Trading Partner Manager	
Username	
admin	
Password	
Sign in	
Signin	

23.Enter the following default login credentials:

- Username: admin
- Password: iway

24.Click Sign in to begin using iWay Trading Partner Manager.

The iWay Trading Partner Manager console opens, as shown in the following image.

≡			Par	tners								()	6	> 🕹
Trading P	artner Manager												Inf	©rmation Builders
Partners		R Par	tners		Partner System		artner Contact	0						
Ø Routes	*		R+ Ne	w 1 Impo	rt Partner	Clear All				Q Partne	rs Filter			\$ \sim
🖺 Standard	ds		- 140											
🖂 Message	es		1D	Ţype †↓	Name 1	Address1 †↓	Address2 ↑↓	City 1	Postal Code †↓	State 1	Parent Partner †↓	User †↓	De †↓	scription
🕸 Systems														
🖵 Environn	nents		N ≪ 1 ≫ N											
🎤 Administ	tration 👻		Total number of partners: 0											

Installing iWay Trading Partner Manager on Linux

On Linux, the iWay Trading Partner Manager installer is packaged as a binary (.bin) file (for example, *tpm-installer-1.5.x-Linux.bin*).

Before continuing with the installation, create a directory in your root for your JDBC driver .jar files. For example:

/jdbcjars

Copy your JDBC driver .jar files to this directory.

In addition, create a directory in your root where you would like to install iWay Trading Partner Manager. For example:

/iway_tpm

To install and run iWay Trading Partner Manager:

- 1. Ensure you have the proper permissions (read/write/execute) on the target Linux system where you are installing iWay Trading Partner Manager.
- 2. Enter the following command at the prompt:

./tpm-installer-1.5.x-Linux.bin

The installer loads and displays an Introduction screen, as shown in the following image.

```
Introduction
InstallAnywhere will guide you through the installation of Trading Partner
Manager version 1.5.0.
It is strongly recommended that you quit all programs before continuing with
this installation.
Respond to each prompt to proceed to the next step in the installation. If
you want to change something on a previous step, type 'back'.
You may cancel this installation at any time by typing 'quit'.
PRESS <ENTER> TO CONTINUE:
```

3. Press Enter to continue.

The Choose Installation Folder screen displays, as shown in the following image.

```
Choose Installation Folder

Please specify the folder which will be the root of this installation.

Where would you like to install?

Default Install Folder: /home/iwayqa

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT

:__
```

4. Type an absolute path to an existing folder you have created for your iWay Trading Partner Manager installation, or press Enter to accept the default.

If you specify a path to an existing folder, you will be prompted to confirm the path, as shown in the following image.

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT : /home/iwayqa/iway_tpm INSTALL FOLDER IS: /home/iwayqa/iway_tpm IS THIS CORRECT? (Y/N): y

- 5. Confirm your installation folder.
- 6. Press Enter to continue.

The Choose Java Virtual Machine screen displays, as shown in the following image.



- 7. Select a specific version of Java that is installed on your system, or accept the default version that is automatically detected by the installer.
- 8. Press Enter to continue.

The Specify Location of JDBC .jar Files screen displays, as shown in the following image.



- Specify the directory on your system you created earlier, which contains your JDBC driver .jar files (for example, /jdbcjars).
- 10.Press Enter to continue.

The Specify TPM Server Port Number screen displays, as shown in the following image.



11.Specify an available port number on your system to be used by the iWay Trading Partner Manager server.

Note: The older versions of iWay Trading Partner Manager used port 8080 as default port number. To avoid any conflicts with your previous version of iWay Trading Partner Manager, it is recommended to use a different port number (for example, 8092) with the new version of iWay Trading Partner Manager.

12.Type a port number and press *Enter* to continue.

The Enter TPM Database Choice screen displays, as shown in the following image.



- 13.Select SQL Server (1, default), Oracle (2), or Postgres (3) as the database type.
- 14.Press Enter to continue.

The Enter TPM Database Parameters screen displays, as shown in the following image.



15.Enter the JDBC driver class name, connection URL string, and user name for the database you are configuring with iWay Trading Partner Manager.

JDBC Driver Classes

SQL Server:

com.microsoft.sqlserver.jdbc.SQLServerDriver

Oracle:

oracle.jdbc.driver.OracleDriver

PostgreSQL:

org.postgresql.Driver

Connection URLs

SQL Server:

jdbc:sqlserver://[HOST][INSTANCE][:PORT][;databaseName=[DB]]

Oracle:

jdbc:oracle:thin:@[HOST][:PORT]:[SID]

PostgreSQL:

jdbc:postgresql://[host]:[port]/[databasename]



16.Press Enter to continue.

The Enter Password screen displays, as shown in the following image.



17.Enter the password for the database you are configuring with iWay Trading Partner Manager.

18.Press Enter to continue.

The database connection test results screen displays, which shows the results of a connection test to your database, as shown in the following image.



19.If the connection test is successful, press *Enter* to continue. If you encounter any issues, adjust your database connection parameters and retest your connection.

Note any messages regarding running SQL scripts to create database tables or update an existing database. If you are required to run any SQL scripts, then see *Using SQL Scripts* on page 43 for more information.

The Pre-Installation Summary screen displays, as shown in the following image.

```
_____
Pre-Installation Summary
Please Review the Following Before Continuing:
Product Name:
   Trading Partner Manager
Install Folder:
   /home/iwayga/iway_tpm
Link Folder:
   /home/iwayqa/Trading Partner Manager
Product Version
   1.5.0
Install Path
   /home/iwayqa/iway_tpm
Jdk Home
   /usr/java/jdk1.8.0 221
Disk Space Information (for Installation Target):
   Required: 54,462,525 Bytes
   Available: 190,531,452,928 Bytes
PRESS <ENTER> TO CONTINUE: _
```

20.Review the installation summary and press *Enter* to continue if all of the information is correct.

A progress indicator displays during the installation, as shown in the following image.



When the installation has finished, a prompt to start the iWay Trading Partner Manager server displays, as shown in the following image.



21.Select Yes (1) or No (2, default), and then press Enter to continue.

If you selected Yes, iWay Trading Partner Manager will automatically start and run in the background.

The Installation Complete screen displays, as shown in the following image.



22.Press Enter to exit the installer.

You are now ready to run iWay Trading Partner Manager and verify your installation.

23.0pen your browser and enter the following URL:

http://hostname:port_number

where:

hostname

Is the name of the system hosting iWay Trading Partner Manager.

port_number

Is the port number that you specified for the iWay Trading Partner Manager server during the installation. For example:

http://localhost:8092

The login page opens in your browser, as shown in the following image.

TP Trading Partner	Manager	
		Inf©rmation Builders
	Log into Trading Partner Manager	
	Username	
	admin	
	Password	
	Sign in	

24.Enter the following default login credentials:

- Username: admin
- Password: iway

25.Click Sign in to begin using iWay Trading Partner Manager.
=			R P	artr	iers								();	6	
TP	Trading Partner Manager													Infe	§rmation Builders
*	Partners	R Pa	31 artner			Partner Syst	em 💿	Partner Contact	0						
Ø	Routes 💌					rt Partner	X Clear All				Q Partne	rs Filter			d ~
6	Standards			New	2, 11100		orear Air								-
	Messages			ID †↓	Туре †↓	Name 1	Address †↓	1 Address2 1↓	City 1↓	Postal Code 1	State 1	Parent Partner †↓	User 🎼	De †↓	scription
•	Systems														
Q	Environments		Н ≼ 1 № Н												
×	Administration 💌							Total	number of pa	rtners: 0					

The iWay Trading Partner Manager console opens, as shown in the following image.

Using the Start and Stop Menu Options

The iWay Trading Partner Manager installation adds a *Trading Partner Manager* entry to the Windows Start menu, as shown in the following image.



You can start or stop iWay Trading Partner Manager by clicking one of the corresponding menu options.

Note: The menu options include the port number that you specified for the iWay Trading Partner Manager server during the installation (for example, 8092). If you have multiple instances of iWay Trading Partner Manager installed in your environment, a corresponding Start TPM and Stop TPM menu option would be listed for each instance with the specific port number. Clicking *Start TPM* opens a Windows command prompt that automatically runs the startup script (*tpmstart.bat*), as shown in the following image.

IP Start TPM 8092			×
<pre>(for example: not eligible for auto-proxying) 2019-08-15 23:02:12.833 INF0 7308 [main] trationDelegate\$BeanPostProcessorChecker : Bean ' security.config.annotation.method.configuration.GlobalMethodSecurityConfiguration' of type [org.springfrz fig.annotation.method.configuration.GlobalMethodSecurityConfiguration\$EnhancerBySpringCGLIB\$\$2f023223] is etting processed by all BeanPostProcessors (for example: not eligible for auto-proxying) 2019-08-15 23:02:12.837 INF0 7308 [main] trationDelegate\$EenPostProcessorChecker : Bean ' atSource' of type [org.springframework.security.access.method.DelegatingMethodSecurityKetadataSource] is attice.proxed.bl '</pre>	org.sprin mework.se not elig methodSe not elig	ngframewo ecurity.c gible for curityMet ible for	rk on g ad ge
tting processed by all BeanvostProcessors (for example: not eligible for auto-proxying) 2019-08-15 23:02:19.009 INFO 7308 [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat ort(s): 8092 (http) 2019-08-15 23:02:19.594 INFO 7308 [main] o.apache.catalina.core.StandardService : Starti	initial: .ng servi	ized with ce [Tomca	p t]
2019-08-15 23:02:19.602 INFO 7308 [main] org.apache.catalina.core.StandardEngine : Starti Apache Tomcat/9.6.13 2010 09 15 23:02:10 675 INFO 7209 [min] o a catalica com Angliforutalitanon : The Af	ng Servle	et Engine	:
2019-00-13 23:02:13:03 INFO 7306 [main] 0.a.Catarina.core.printrecylitistener : The Am at Native library which allows optimal performance in production environments was not found on the java.li gram Files\Java\jdk1.8.0_lll\bir;C:\WINDOWS\Syn\Java\bir;C:\WINDOWS\System32;C:\WINDOWS\S:C:\Program Files\ programData\Oracle\Java\javapath;C:\Program Files\Common Files\Wircosoft Shared\Windows Live;C:\WINDO OWS;C:\WINDOWS\System32\Wbem;C:\WINDOWS\System32\WindowsPowerShell\v1.0\;C:\Program Files\Intel\DMIX;C:\Pr TRU Cryptosystems\WTRU TGG Software Stack\bin\;C:\Program Files\WTRU CryptosystemS\WTRU TGG Software Stack Les\Wave Systems Conferences And Cores Client(v5\);C:\Program Files (X86)\Common Files\NTRU Shared\Ullshared	brary.pa ava\jdk1 WS\syster ogram Fi \bin\;C: \;C:\Pro	Apache To th: [C:\P .8.0_111\ m32;C:\WI les (x86) \Program gram File	ro bi ND \N Fi
(x86)\Commón Files\Roxio Shared\10.0\DLLShared\;C:\Program Files (x86)\ZANTAZ\EAS Client\;C:\Program Files bin;C:\WINDOWS\System32\OpenSSH\;C:\Moodle_36}\server\php;C:\Program Files\Common Files\Microsoft Shared\ s\SX8062YAppData\Local\Microsoft\WindowsApps;;.]	\Java\jd indows L:	k1.8.0_11 ive;C:\Us	1\ er
2019-08-15 23:02:20.790 INFO 7308 [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initiz ded WebApplicationContext 2019-08-15 23:02:20.836 INFO 7308 [main] o.s.web.context.ContextLoader : Root W	lizing S ebApplic	pring emb ationCont	ed .ex
t: initialization completed in 22420 ms			- v

Do not close the command prompt window while iWay Trading Partner Manager is running. However, you can minimize the command prompt window, as needed.

Clicking Stop TPM runs the shutdown script, which stops iWay Trading Partner Manager.

Installation Considerations

This section describes installation considerations for iWay Trading Partner Manager.

Host Names Containing Underscore Characters

For security purposes, Apache Tomcat versions 8.5.x and higher have implemented stricter validation policies for host names containing underscore (_) characters, which are no longer allowed in host (domain) names.

If you configured iWay Trading Partner Manager to use a host name that contains an underscore character (for example, *system_tpm*), the following exception is generated when starting iWay Trading Partner Manager:

```
2019-10-02 15:15:16.141 INFO 5188 --- [nio-8092-exec-1] o.apache.coyote.httpl1.Httpl1Processor:
```

The host [system_tpm:8092] is not valid

Note: further occurrences of request parsing errors will be logged at DEBUG level.

java.lang.IllegalArgumentException: The character [_] is never valid in a domain name.

```
at
org.apache.tomcat.util.http.parser.HttpParser
$DomainParseState.next(HttpParser.java:963)
~[tomcat-embed-core-9.0.22.jar!/:9.0.22]
at
org.apache.tomcat.util.http.parser.HttpParser.readHostDomainName(HttpParser.
java:859)
~[tomcat-embed-core-9.0.22.jar!/:9.0.22]
```

As a workaround, adjust your host name by removing any underscore (_) characters.

404 Error on Startup and Database Updates

When installing iWay Trading Partner Manager, if you received any messages regarding SQL scripts during the database connection test phase, ensure that the correct SQL script is executed. For more information, see *Using SQL Scripts* on page 43.

Password Encryption

In the latest version of iWay Trading Partner Manager, different encryption is used for passwords. The migration script updates the *admin* user and you will log in as an administrator the first time. You may want to clean your user file, or set new passwords as part of the migration process.

After updating the default user in the database, you will no longer be able to log in to an older version of iWay Trading Partner Manager with this database. If you need to connect to an older version of iWay Trading Partner Manager, then you must manually add a new user to the database.

For example, to add a user called super:

USE [INSERT DATABASE NAME HERE]

```
INSERT INTO tpm_users (Username,Firstname,Surname,RoleName,Password,BlockUser) VALUES
('super','Internal','User','1','ENCR(31253149323632253186317723632173233216322725232522
55321432173218)','Unblock')
```

Ensure to restart iWay Trading Partner Manager after modifying or changing passwords.

Host-Based Authentication Using PostgreSQL

To enable host-based authentication using PostgreSQL (other than *localhost*), you must configure the *pg_hba.conf* file. On PostgreSQL, client authentication is controlled by the *pg_hba.conf* file, which is stored in the database cluster's data directory (for example, *C:* Program Files PostgreSQL 11 data).

For more information about using and configuring the *pg_hba.conf* file, see the following website:

https://www.postgresql.org/docs/9.1/auth-pg-hba-conf.html

Uninstalling iWay Trading Partner Manager

To uninstall iWay Trading Partner Manager:

1. Click Change TPM Installation from the Trading Partner Manager entry in the Windows Start menu, as shown in the following image.





The Maintenance Mode screen displays, as shown in the following image.

2. Select Uninstall Product, and then click Next.

The Uninstall Trading Partner Manager screen displays, as shown in the following image.



3. Click Next to continue.

A progress indicator displays during the uninstallation, as shown in the following image.



When the uninstallation process has finished, the Uninstall Complete screen displays, as shown in the following image.



4. Click Done.

Using SQL Scripts

The iWay Trading Partner Manager installer creates a *sql* subdirectory under the root installation (for example, *C:\iWay_TPM\tpm\sql*) where several SQL scripts are included for Microsoft SQL Server (MSSQL), Oracle, and PostgreSQL (Postgres) databases, as shown in the following image.



MSSQL:

- □ **tpm_mssql.sql.** Creates a new iWay Trading Partner Manager database on MSSQL, including all required tables.
- □ **tpm_mssql_drop_tables.sql.** Drops (deletes) existing iWay Trading Partner Manager tables on MSSQL.
- □ **tpm_mssql_migration.sql.** This SQL script is for an existing instance of iWay Trading Partner Manager, which will migrate your database from an older version of iWay Trading Partner Manager to the latest version of iWay Trading Partner Manager.

Oracle:

- □ **tpm_oracle.sql.** Creates a new iWay Trading Partner Manager database on Oracle, including all required tables.
- □ **tpm_oracle_drop_tables.sql.** Drops (deletes) existing iWay Trading Partner Manager tables on Oracle.

PostgreSQL (Postgres):

❑ **tpm_postgres.sql.** Creates a new iWay Trading Partner Manager database on PostgreSQL, including all required tables.

Pay close attention to any messages displayed by the iWay Trading Partner Manager installer regarding SQL scripts during the database connection test phase. These messages will determine which SQL script(s) you must run.

The following image shows an SQL script being run using Microsoft SQL Server Management Studio.



The SQL script was pasted into a query window, the database focus was changed to the database that needed to be modified, and then the query was executed.

Configuring and Enabling LDAP

To configure and enable LDAP using iWay Trading Partner Manager:

1. Install iWay Trading Partner Manager in your environment.

- 2. Ensure the iWay Trading Partner Manager service has started and is running.
- 3. Open your browser and enter the following URL:

http://hostname:port_number

where:

hostname

Is the name of the system hosting iWay Trading Partner Manager.

port_number

Is the port number that you specified for the iWay Trading Partner Manager server during your installation. For example:

http://localhost:8092

- 4. Sign in to iWay Trading Partner Manager console as an administrator using the following default credentials:
 - Username: admin
 - **Password:** iway

	Log into Trading Partner Manager
Usernam	e
admin	
Password	3
	Sign in

5. Click Sign in.

=	i i	🌲 F	Part	ners												:	Ŕ,	0	-	
TP	Trading Partner Manager																	infør B	nation uilders	
2	Partners	Partner				Partner	Syst	em	0	Partner Cor	ntact	0								
Ø	Routes -		New		t Impo	rt Partner		Xcl	ar All					Q Part	ners Filte	r		± 1		4
B)	Standards		INCO		2	in an		- Ch						-						
	Messages		ID 4	Туре Ф	Nam \$	Addres	A	City	Post Code	State	Pare Partr \$	Count \$	Prov \$	Last User Update	Last Update	Description 🌲				
\$	Systems		Γ											-						
Ţ	Environments		L				40												*	
ş	Administration -	 >	1	arka,	AAFE		4€ E> S€ DI	Dalla	7523	ТХ		US		admin	2019- 08- 21T18:4	AAFES master part	iner 2	2		
		··· >	2	defai	AAFE Outb 810	Attn: Accts Receiva	46 Ex Se Di	Dalla	7523	тх	AAFE	US		admin	2009- 12- 16T21:5					
		 >	3	defai	AAFE Outb 856	Shippin	46 E> Se DI	Dalla	7523	ТХ	AAFE	US		admin	2009- 12- 16T21:5					+

The iWay Trading Partner Manager console displays, as shown in the following image.

6. Expand the *Administration* menu in the left pane, and then click *LDAP Configuration*, as shown in the following image.

Trading Partner Manager
Partners
Ø Routes •
Standards
Messages
🗱 Systems
Environments
差 Administration 👻
😩 Users
🔑 Roles
< MetaData 👻
LDAP Configuration
 Database Configuration
🕲 Audit 👻

The LDAP Configuration page opens	, as shown in the following image.
-----------------------------------	------------------------------------

LDAP Configu	ration	¢. 😧 💄					
		Information Builders					
LDAP Settings Role I	Mapper						
Use LDAP authentio	cation						
✓ Edit							
Setting	Value	Description					
URL	ldap://localhost:10389/ou=system	URL to reach LDAP directory. LDAP URL's are in the form Idap://host[:port] or Idaps://host[:port].					
User		The distinguished name (dn) of the admin user for login. Unique attribute and group, for example: uid=admin,ou=system					
Password		Pasword for access to the LDAP directory.					
User Search Base		Search base for user searches. Default is Ex: ou=users					
User Search Filter		The LDAP filter used to search for users (optional). For example "(uid= {0})". The substituted parameter is the user's login name,for example: (uid= {0})					
Group Search Base		The search base for group membership searches. Default is Ex: ou=groups					
Group Search Filter	(uniqueMember={0})	The LDAP filter to search for groups. Defaults to "(uniqueMember= $\{0\}$)". The substituted parameter is the DN of the user. For example: (member= $\{0\}$)					
Group Role Attribute	сп	Specifies the attribute name which contains the role name. In Default to "cn" - common name					

The LDAP Configuration page is organized by two tabs, LDAP Settings (default) and Role Mapper.

- 7. Review the LDAP settings and modify these settings according to your environment and requirements.
- 8. Click Edit.

Edit LDAP Prop	erties	×
URL	ldap://localhost:10389/ou=system	
User	test_user_01	
Password		
User Search Base		
User Search Filter		
Group Search Base		
Group Search Filter	(uniqueMember={0})	
Group Role Attribute	cn	
	Test Connection Save Cancel	

The Edit LDAP Properties dialog box opens, which allows you to modify your LDAP settings, as shown in the following image.

9. Click Test Connection to validate your LDAP connection, and then click Save.

10.Click the *Role Mapper* tab, as shown in the following image.

LDAP	LDAP Settings Role Mapper											
Kew X Clear All												
	LDAP Group 🌲	TPM Role 🌲	Last User Update 🌻	Last Update 🌲								
••												
	do-it-all	mix										
	tpm-admin	administrator										
	tpm-edit	administrator										
	N 4 1 > N											
		Total number of	records : 3									

The Role Mapper tab allows you to cross-reference (map) specific LDAP groups to corresponding iWay Trading Partner Manager roles.

Note: In the current version of iWay Trading Partner Manager, there is a limitation using LDAP when mapping groups. If a user exists in multiple groups, only one group can be mapped. This will be addressed in the next version of iWay Trading Partner Manager.

11.Return to the *LDAP* Settings tab, and click the *Use LDAP authentication* check box, as shown in the following image.



12.Stop and then start iWay Trading Partner Manager using the shortcuts from the Windows Start menu, as shown in the following image.



13.Sign in to iWay Trading Partner Manager using an LDAP user name and password.



Configuring and Using iWay Trading Partner Manager

This section describes how to configure and use the iWay Trading Partner Manager console.

In this chapter:

Using the Console

Using the Console

The iWay Trading Partner Manager console is responsible for managing trading partner data. This section describes how to navigate and use the console to work with partners and all of the available facilities.

Procedure: How to Access the Console

To access the console:

1. Enter the following URL in your web browser:

http://localhost:8092

The login screen opens, as shown in the followi	ng image.
---	-----------

TP Trading Partner	Manager	
		Inf@rmation Builders
	Log into Trading Partner Manager	
	Username	
	admin	
	Password	
	Sign in	
	ognili	
_		

- 2. Enter *admin* as the user name (default) and *iway* as a password.
- 3. Click Sign in.

=	🌡 Partn	ers								¢; 6	
Trading Partner Manager										Inf	sirmation Builders
& Partners	Partners		Partner System	artner Contact							
🛃 Routes		1						0			
Standards	* New	⊥ im	port Partner Clear All					ų P	arthers Filter		
Messages		ID \$	Name 🌩	Address1 ≑	Address2 🖨	City 🖨	Postal Code	State 🖨	¢	Description 🖨	
😂 Systems											
Environments	>	1	AAFES		4630 Exchange Service Drive	Dallas	75236	ТΧ	US	AAFES master partner 2	Â
🗲 Administration 👻	>	2	AAFES Outbound 810	Attn: Accts Receivable	4630 Exchange Service Drive	Dallas	75236	тх	US		
	>	3	AAFES Outbound 856	Shipping	4630 Exchange Service Drive	Dallas	75236	ТХ	US		
	>	4	AAFES Inbound 850	Attn:Purchasing	4630 Exchange Service Drive	Dallas	75236	ТХ	US		
	>	5	AAFES Inbound 997		4630 Exchange Service Drive	Dallas	75236	тх	US		
	>	6	AAFES Outbound 997		4630 Exchange Service Drive	Dallas	75236	ТХ	US		
	>	7	Joann Stores	Corporate Office	5555 Darrow Rd.	Hudson	44236	ОН	US	Joanne master partner 2	
	>	8	Joann Stores Inbound 850	Purchasing	5555 Darrow Rd.	Hudson	44236	ОН	US		
	>	9	Joann Stores Inbound 860	Attn:Purchasing	5555 Darrow Rd.	Hudson	44236	он	US		
	>	10	Joann Stores Inbound 997		5555 Darrow Rd.	Hudson 4 5 ▶	44236 M	он	US		Ŧ
					Total number of	partners: 149					

The console opens, as shown in the following image.

The various iWay Trading Partner Manager facilities can be accessed by clicking the tabs at the top of the pane.

The following sections describe the facilities in more detail:

- **I** For more information about using the Partners facility, see *Partners* on page 68.
- □ For more information about using the Routes facility, see *Routes* on page 89.
- □ For more information about using the Standards facility, see Standards on page 111.
- □ For more information about using the Messages facility, see *Messages* on page 118.
- For more information about using the Systems facility, see Systems on page 125.
- ❑ For more information about using the Environments facility, see *Environments* on page 133.
- For more information about using the Administration facility, see Administration on page 136.

Navigating the Console and Common Usability Features

There is an array of usability features that are shared and are available by all the facilities within the console. This section covers the basic usability features available. Note that the availability of some of the features described in this section are dependent on the user privileges.

User Profile (Sign Out)

To view your user profile or need to sign out from the console, click the *User Profile* icon, which is located in the upper-right corner of the console, as shown in the following image.



A user profile dialog expands, which also includes a Sign Out button, as shown in the following image.

			វត្តិ	0	-	
	Ω	admin				
	U	Role Name:	adminis	strator		
Q Pai		First:	Internal			l
		Last:	User			l
			[🕩 Sig	in Out	

To close this dialog box, click anywhere outside of this area. If you need to sign out, click *Sign Out*, and you will be returned to the iWay Trading Partner Manager login screen.

Version and Build Information

To view your iWay Trading Partner Manager version and build information, which may be requested if you contact Customer Support, click the *About TPM* icon, which is located in the upper-right corner of the console, as shown in the following image.



The About TPM Console dialog box opens, as shown in the following image.



Click Close to return to the console.

Console REST API

iWay Trading Partner Manager includes a wide selection of REST API calls that can be accessed through a Swagger-based UI. To access the REST API, click the *TPM Console REST API* icon, which is located in the upper-right corner of the console, as shown in the following image.



The TPM Console REST API opens in a new browser tab, as shown in the following image.



Close this browser tab to return to the console.

For more information on the iWay Trading Partner Manager REST API, see *iWay Trading Partner Manager REST API Reference* on page 197.

Showing and Hiding the Left Navigation Pane

The left navigation pane displays (expanded) by default when you log in to the console, as shown in the following image.

≡	🌡 Pa	rtners							
Trading Partner Manager									
Partners	Partners		Pa	artner System	1	∎≡ Partr	ner Contac	1 ct	
Ø Routes •									
Standards	Ň N	ew 1	Import Pa	artner	Clear	AII			
Messages		ID A	Name \$	Address1	Adc \$	City \$	Postal Code	State	Country \$
😂 Systems									
 Environments Administration - 	-	1	AAFES		463 Exc Sen Driv	Dallas	75236	ТХ	US
	 >	2	AAFES Outbour 810	Attn: Accts Receivable	463 Exc Sen Driv	Dallas	75236	ТΧ	US

You can quickly toggle (show or hide) this navigation pane as required. For example, you may want to view additional columns in the Partners area. To hide this navigation pane, click the *Navigation Toggle* icon, as shown in the following image.



The navigation pane is now hidden, as shown in the following image.



To restore the navigation pane, click the Navigation Toggle icon again.

Pagination Tool

Located at the bottom of the main pane for each category, the pagination tool allows you to quickly navigate through the pages of all defined components (for example, partners, routes, systems, and so on).



If a large number of components are defined, you can go to the next page by clicking the right arrow button. To navigate to the last page of the set, click the End button. By default, the first 10 objects of the set are displayed based on the latest edited information.

Working With Table Columns

This section describes how to work with table columns in the console.

Showing and Hiding Columns

You can toggle (show/hide) specific columns on each defined component page (for example, partners, routes, systems, and so on). A drop-down menu is available on the right side of each page, as shown in the following image.

System		Partners	0			
+ Ne	w ×	Clear All			Q Systems Filter	\$ \
	ID ≑	System Name:	Last Update	Type \$	Environment 🌲	
						 ✓ ID ✓ Type
	1	test	2018-10-09 15:08:44.0	default	DEV	 System Name: Environment
	2	inna_sys	2019-02-19 13:18:19.0	default	PERF	Description
	3	innovis	2019-05-17 14:01:35.113	default	PROD	
	4	Innovis test	2019-05-17 10:05:11.0	default	TEST	
	5	arktest	2019-07-22 14:58:20.413	default	QA	
	1005	AS2_out	2019-08-20 09:32:03.0	default	TEST	
			М	- € - 1	▶ ₩	

Click the drop-down menu and select or deselect the column(s) for display in the table.

Resizing Columns

To resize a column in the table, hover your cursor between any two columns. Your cursor changes and displays a resize option. Drag to the left or to the right to resize the column as required and release the cursor.

Partners	5		Partner S	Systei	m		.≡ artner Co	ontact	
	New	1 Import	t Partner		× Clea	r All			
	ID \$	Name \$	Addre \$	Ad \$	City	Posta Code €	State	Country \$	De \$
			C	Ð					

The column is resized, as shown in the following image.

🏝 Nev	Rew Import Partner Clear All								
	ID \$	Name 🗢	Address1 🜲	Address2 🜲	City 🖨	Postal Code 🌲			

Moving Columns

You can also move (reorder) any columns in the table as required. Hover your cursor on the header of the column you want to move.

Address2 🜩	City 🌲	Postal Code 🌲

Click and drag the column to its new location in the table. The following image shows the City column being moved to the right of the Postal Code column.



Release the cursor to drop the column in its new position.

Address2 🜲	Postal Code	City 🗢
4630 Exchange Service Drive	75236	Dallas

Sorting

You can quickly sort column values (lowest to highest, highest to lowest, A to Z, or Z to A) by clicking the sort arrow in the column header, as shown in the following image.

	ID 🌩	Name 🌲
	1	AAFES
 >	101	AAFES Catalog Inbound 850

The column values are refreshed accordingly.

You can also sort by a specific term or keyword. Begin typing a value in the column header field, which also auto completes your entry based on available data, as shown in the following image.

ID 🌲	Name 🜲
	walmart
42	Walmart
89	Walmart Inbound 816
90	Walmart Inbound 816 Canada
49	Walmart Inbound 820

The column values are refreshed based on your entry.

Filtering

To filter values on a page, simply type a value in the filter field, located in the upper-right as shown in the following image.

Partne	ers		Partr) - er Syste	m		artner Co	ntact	0								
	New	1 Imp	ort Part	ner	× Cle	ar All						-		Q family			
	ID ¢	Nar	me 🜩	Addre \$	Ada \$	City \$	Postal Code	State	Country \$	Des ¢	Type \$	Province \$	Parent Partner \$	Last User Update ♣	Last Update ♣	Site Code ♣	в
, ,	27	Fan Dol Sto Inc.	nily Iar res	Corpo Office	103 Moi Rd #54	Matthey	28105	NC	US	Far Dol ma:	default			admin	2009-12-17 16:18:05.0		
	28	Fan Dol Inbo 850	nily Iar ound	Purch	103 Moi Rd #54	Matthev	28105	NC	US		default		Family Dollar Stores Inc.	admin	2009-12-17 16:18:32.0		
	29	Fan Dol Inbo 997	nily Iar Dund		103 Moi Rd #54	Matthey	28105	NC	US		default		Family Dollar Stores Inc.	admin	2009-12-17 16:18:43.0		
 >	30	Fan Dol Inbo 864	nily Iar Dund	Attn: Accts Recei	103 Moi Rd #54	Matthey	28105	NC	US		default		Family Dollar Stores Inc.	admin	2009-12-17 16:18:51.0		

The table on the page is refreshed based on your entry.

To clear the filtered results and reset the table, click *Clear All*, as shown in the following image.



Buttons

Located at the top pane for each category, buttons enable the user to perform common actions. The following image shows the buttons that are available on the Partners page

🔒 Par	tners						
Partners		Parte	ner System	0	∎≡ Partner C	Contact	0
🛃 Ne	ew 🔔 Ir	mport Part	tner × Cle	ar All			
	ID 🌩	Name \$	Address1	Add \$	City \$	Postal Code \$	State

The following table lists and describes several key buttons.

Button	Description				
Rew	Creates a new entry for a particular asset. For example, on the Partners page, this button is used to add a new partner.				
× Clear All	Clears any filters or selections on the column level and page level.				
1 Import Partner	Only available from the Partners page, this button allows you to import a partner from a JSON (.json) file.				

Partners

Partner is defined as either a physical or logical end-point. Partner most commonly represents an organization which sends and/or receives messages using a configured application. Partner information constitutes a set of attributes about partner characteristics as a unit, and defines the type of messages that can be processed by the partner and on various systems.

The following image represents a relationship between Partner and System which is formed through a Partner System definition.



The Partner page is used to manage partner information, partner contacts, and partner systems. The initial view of the partner displays the Partner Information screen where the user is able to open additional sections by clicking on the menu list.

When a specific partner is selected in the left pane, the partner tabs in the right pane provide all the related information about that partner. The partner is automatically opened in Edit mode, enabling the user to update its information. The following partner information tabs are available:

- **Partners.** This tab provides general partner information such as name, address, and so on.
- □ **Partner System.** This tab shows the systems associated with a partner for processing messages.
- □ **Partner Contact.** This tab provides partner contact information which can consist of multiple contacts within an organization.

Procedure: How to Add a Trading Partner

A Trading Partner definition requires a definition of partner information, system, and Partner Systems which ties in the given system to a given partner. The Partner System is critical, since a single system can be shared by multiple partners for message processing.

The following list represents general components which have to be created for a full Partner profile.

- **Partner.** This component contains general partner information as defined on the Partner Information screen.
- ❑ Partner System. This component establishes a defined Partner System and Messages which can be processed by a given partner on a given system. This is defined on the Partner screen under Partner Systems.
- **System.** System definition available for multiple partners to share. This is defined on the Systems screen. For more information, see Systems on page 125.

To add a trading partner using the console:

1. Select the Partners tab in the console, and click New to add a new partner.



Partner Name	Sunkis Canada	
BU Name	Dept2012	
Site Code	9918	
Туре	default	~
Description	This is Sunkis Canadian partner.	
Partner Parent	Select partner parent	× ∨
> Partner	Address Information	

The New Partner dialog box opens, as shown in the following image.

Two subtabs are available (Partner Details and Partner Address Information).

2. Enter the information for the trading partner you are creating.

The following table lists and describes the properties in the New Partner dialog box.

Property	Description				
Partner Details					
Partner Name	Unique name given for the partner.				
BU Name	Name of the Business Unit.				

Property	Description
Site Code	Site code of the partner.
Туре	Specify a predefined type (optional).
Description	Partner function description.
Partner Parent	Select the partner parent if applicable. Partner parents can carry the main information, and child partners can have specific information. For example, the Sunkis partner parent has main contacts, while the Sunkis Canada child partner has regional contacts.

Partner Address Information

Organization Address 1	First line of the address.		
Organization Address 2	Second line of the address.		
City	Name of the city.		
Postal Code	Postal code of the city.		
State	State (if applicable).		
Province	Province (if applicable).		
Country	Country of the partner.		

3. Click Save when you are finished.

S artners			Partner Syster	n	O Pa	artner Con	tact									
₽ N	ew 1	, Import	Partner	× Clea	r All								Q sunkis			¢ ~
	ID ≑	Name \$	Address1 \$	Ada \$	City \$	Postal Code ≑	State	Cour \$	Descriptio	Type \$	Province \$	Parent Partner \$	Last User Update €	Last Update ♣	Site Code \$	BU Name \$
	2163	Sunki Canad	s Ia						This is Sunkis Canadian partner.	default			admin	2019-11-03 23:31:16.292	9918	Dept2012
H < 1 > H																

The new trading partner is added, as shown in the following image.

To edit an existing trading partner, click the options menu to the left of the trading partner in the corresponding row, as shown in the following image.

	ID ♦	Name \$	Address1				
-	2163	Sunkis Canada					
2163
Sunkis

Edit

Copy

Remove

Metadata

Export

Click *Edit* from the menu, as shown in the following image.

V Partner I	Details	
Name	Sunkis Canada	
BU Name	Dept2012	
Site Code	9918	
Туре	default	~
Description	This is Sunkis Canadian partner.	
Partner Parent	Select partner parent	× ∨
> Partner A	Address Information	

The Edit Partner dialog box opens, as shown in the following image.

After editing the trading partner information, click Save.

To delete an existing trading partner, select the trading partner and click *Remove* from the options menu, as shown in the following image.



The Delete Partner confirmation dialog box opens, as shown in the following image.



4. Click Yes to confirm the removal of the selected trading partner.

5. To associate a trading partner system with the trading partner you just created, select the trading partner in the Partners table and then click *Partner System* from the menu, as shown in the following image.



Note: A trading partner system must already be available in the Systems section of the console. For more information, see *Systems* on page 125.

6. Click *New* to create a new partner system, as shown in the following image.

Partne	ers		1	Partner System	Partner Contac	O ct									
Ľ	New X Clear All Q Partner System Filter														
		ID \$		Partner System Name 🌲	Domain 🌲	Code 🌲	Last User Update 🌲	Last Update ♣	Туре 🌲						
	н ∢ т > н														
						Total	number of partner	system: 0							
						Par	tner System Me	ssages							
-	6 N	lew	× Clear A						٩	Partner System Messages Filter	• ~				
		ID \$		Format Name \$	Direction 🜩	Description \$	Message Name \$	Message Type	Last User Update 🌲	Last Updat Type ≑ ≑					
							H € 1 ►	M							
						Total num	ber of partner syste	m messages: 0							

New Partner Sy	/stem	×
Partner System Name	Sun_Can_SAP	
Туре	default	~
Domain		
Code		
System	CanadaSystem	× ~
		✓ Save X Cancel

The New Partner System dialog box opens, as shown in the following image.

Partner system creation enables the linkage of partner and specific system(s) which can process corresponding messages. This is a logical link which is later used by an application at runtime.

7. Enter the information for the trading partner system you are creating and select an existing system from the System drop-down list.

The System drop-down list is populated with available systems that have been created using the Systems facility. As a result, you must define a system before it can be associated with a trading partner. For more information, see *Systems* on page 125.

8. Click Save when you are finished.

The new trading partner system is added, as shown in the following image.

Partne	rs F	Partner System	1 Partner Conta	O ct										
	New X Clear All Q Partner System Filter X Selected Partner: Sunkis Canada													
	ID \$	Partner System Name 🜲	Domain 🌲	Code 🌲	Last User Update ≑	Last Update ♣	Туре 🗢							
	1020	Sun_Can_SAP			admin	2019-11- 13T17:56:26.070+	default							
					K ≮ 1 ►	H								
				Total	number of partner	system: 1								

To edit an existing trading partner system, select the trading partner system from the table and click *Edit* from the options menu, as shown in the following image.

1020	Sun_Can_SAP
🖌 Edit	
🗗 Сору	
Remove	
< Metadata	

The Edit Partner System dialog box opens, where you can quickly edit and save your trading partner system information.

To delete an existing trading partner system, select the trading partner system and click *Remove* from the options menu, as shown in the following image.



The Delete Partner System confirmation dialog box opens, where you must click Yes to confirm the removal of the selected trading partner system.

9. To associate a set of messages with a trading partner system, select the partner system from the table and click *New* in the Partner System Messages area, as shown in the following image.

	ID 🜲	Partner System Name 🌲	Domain 🜲	Code 🌩	Last User Update 🌲	Last Update	Туре 🌲								
	Income Sun_Can_SAP admin 2019-11- 13T17:56:26:070+ default default														
	H 4 1 ► H														
	Total number of partner system: 1														
				Part	tner System Me	ssages									
r.	New Create a new System Mess	v Partner sage					Q Pa	artner Sy	rstem Messages Filter						
	ID ⇔ Format Name ⇒ Direction ⊕ Description ⇒ Message Name ⇒ Message Name ↓ D ⊕ Last User ∪pdat ⊕ ↓ Type ⊕ ↓ Type ⊕														
					H € 1 ►	H									
				Total numb	per of partner system	m messages: 0									

N	lew Partner Syst	tem Message						×
	Туре	default					~	٦
			In	put Mess	age			
	Select l	nput Message			Selected Inpu	t Message		1
	аха		Q		Search by me	ssage Q		I
	AXAPTA30 - Sł	nipNotice	•	> >>	AXAPTA30 - Inv	voice	^ *	I
	AXAPTA30 - CustomerArticle	eMasterData		<	AXAPTA30 - Or	rderCreate	~	ų
	AXAPTA30 - CustomerMaste	arData		~			*	Ŧ
			OL	Itput Mess	sage			
	Select O	utput Message			Selected (Messa	Dutput Ige		Î
	аха		Q		Search by me	ssage Q		Ш
	AXAPTA30 - In	voice	Î	~ >>	AXAPTA30 - Sh	nipNotice	~ ^	Ш
	AXAPTA30 - OI	rderCreate		<			~	4
	AXAPTA30 - CustomerArticle	eMasterData		«			*	Ŧ
						✓ Save	× Cancel	

The New Partner System Message dialog box opens, as shown in the following image.

This dialog box enables you to select the input and output message types to be processed by the selected trading partner system.

- 10. From the Select Input Message and Select Output Message lists on the left, select the required system messages to be added. Use the available buttons to add them to the Selected Input Message and Selected Output Message lists on the right side.
- 11. Click Save when you are finished.

You are returned to the Partner System Messages pane, which now lists the message you selected for the trading partner system, as shown in the following image.

	Partner System Messages & New X Clear All Image: Clear All Image: Clear All														
	ID \$	Format Name	Direction 🌩	Description \$	Message Name 🌲	Message Type ID 🌲	Last User Update 🌲	Last Upda \$	Туре 🜩						
]					
•••	37	AXAPTA30	in	INVOIC	Invoice	93	admin	2019- 11- 13T18	default						
•••	39	AXAPTA30	in	ORDERS	OrderCreate	94	admin	2019- 11- 13T18	default						
•••	38	AXAPTA30	out	DESADV	ShipNotice	95	admin	2019- 11-	default	•					
				Total nur	M 1	> >> >> >> >> >> >> >> >> >> >> >> >> >									

Note: The same message can be associated with multiple systems and partners, but based on its unique metadata attributes, it can be processed differently at runtime.

Partner Information

This section provides an example of the partner information pane that displays when a partner is selected.

Par). tners		Partner :	System		artner	Contact	0							
	🕹 New 🖄 Import Partner 🛛 🗙 Clear All												walr	mart 🗢 🗸	
		ID \$	Name 🌲	Address \$	Address \$	Pos Cod	City \$	State \$	Country \$	Province 🌲	Parent Partner \$	Last User Update \$	Last Update ♣	Des \$	Туре ≑
	 >	42	Walmart		702 S.W. 8th St.	727	Bentonvi	AK	US			admin	2019-05- 14T18:41:45		default
		49	Walmart Inbound 820	702 S.W. 8th St.	Account: Payable	727	Bentonvi	AK	us		Walmart	admin	2019-05- 14T18:43:09		default
	 >	50	Walmart Inbound 824	702 S.W. 8th St.	Operatio	727	Bentonvi	AK	US		Walmart	admin	2019-05- 14T18:44:17		default

Property	Description
ID	ID number that is associated with the partner.
Name	The required unique partner name to identify a specific partner.
Address 1	Required first line of the partner address.
Address 2	Optional second line of the partner address.
Postal Code	Required ZIP or Postal code for the partner address.
City	Required name of the city or town for the partner address.
State	Optional state (if applicable).
Country	Required country for the partner address.
Province	Optional Province (if applicable).
Parent Partner	A selection of existing partners which can be assigned as a parent partner. This enables the child partner to store local unique attributes, while the parent partner stores shared attributes for multiple child partners.
Last User Update	Indicates the user who last updated the information.
Description	Optional, but recommended, description of the function of the partner.
Site Code	Optional site code to be assigned as a partner attribute.

The following table lists and describes the properties in the Partners tab.

Property	Description
BU Name	Optional business unit name to be assigned as a partner attribute.

Partner Contact

The Partner Contacts tab is designed to store contact information for a partner. Some uses might include contact information to whom notifications for unprocessed or erroneous transactions are sent. The following image shows a sample partner contact.

- and a		Partn	er System		L≡ Partner Co	ntact									
* •	Kew X Clear All Global Filter														
	ID 🌲	Name \$	Primary Contact \$	Auto Notify Contact	Phone	Mobile \$	email \$	Address1 \$	Address2 \$	City					Last User Update €
	1025	Elise Grinspoon	true	false	347- 371- 3749	347- 371- 3749	Elise.Grins	3471 Seagul Ave		Crest	D72E		Canada		admin
							н	1 ▶ ⊮							

The following table lists and describes the properties in the Partner Contact tab.

Property	Description
ID	ID number that is associated with the partner contact.
Name	Required, unique contact name.
Primary Contact	Select either true or false to indicate if this is the main contact.

Property	Description				
Auto Notify Contact	Used in message processing logic, select either true or false to identify if the failed messages should or should not always be sent to this contact (recommended setting is false).				
Phone	Phone number of the contact.				
Mobile	Mobile phone number of the contact.				
email	Email address of the contact, which must be of proper email format.				
Address 1	First line of the address of the contact.				
Address 2	Second line of the address of the contact.				
City	City or town for the address.				
Postal Code	ZIP or Postal code for the address.				
State	State for the address (if applicable).				
Country	Country for the address.				
Province	Province for the address (if applicable).				
Last User Update	Indicates the user who last updated the information.				

Partner System

The Partner System tab is designed to store systems and system messages which correspond to a given partner. Note that the system can be either a logical or real resource (such as channel, target, and so on). This view enables the management of systems, which can process assigned messages for a given partner. For example, if a partner has two systems associated with it, where the first system can process messages of type A and the second system can process messages of type B, then at runtime it can be routed to a proper system for processing (for example, sending to a proper internal queue, channel, or adapter target) simply by examining a message and determining its type. The following image shows a single partner system with three types of messages which can be processed on this system.

Partner	1 F	artner System	Partner Contact	D							
	New × Clear Al							Q Part	ner System Filter 🔹 🗸		
		Selected Partner: Su	inkis Canada								
	ID \$	Partner System Name 🌲	Domain ≑	Code 🌲	Last User Update	Last Update 🌲	Туре 🜩				
	1020	Sun_Can_SAP			admin	2019-11- 13T17:56:26.070+0	00 default				
	N 4 1 P N										
				To	tal number of partner	system: 1					
					anta an Cristiana M						
	New × Clear Al			Pa	artner System M	essages		Q Part	ner System Messages Filter		
	ID \$	Format Name \$	Direction ≑	Description ≑	Message Name 🜲	Message Type ID \$	Last User Update ≑	Last Update	Туре 💠		
	37	AXAPTA30	in	INVOIC	Invoice	93	admin	2019- 11- 13T18:	default		
•••	39	AXAPTA30	in	ORDERS	OrderCreate	94	admin	2019- 11- default 13T18:			
	3.8	AXAPTA30	out	DESADV	ShipNotice	95	admin	2019- 11-	default 🗸		

To edit the partner system properties, select a partner system from the table, and then click *Edit* from the options menu, as shown in the following image.

Partners	Partner System	Partner Contact	
& New × Clear	All	unkis Canada	
ID \$	Partner System Name ♣	Domain 🌲	Code
1020	Sun_Can_SAP		
💉 Edit			
📮 Сору			
着 Remove			
< Metadata			

dit Partner S	iystem	د
Partner System Name	Sun_Can_SAP	
Туре	default	~
Domain		
Code		
System	CanadaSystem	×
		✓ Save X Cancel

The Edit Partner System dialog box opens, as shown in the following image.

The following table lists and describes the properties you can modify for a partner system.

Property	Description
Partner System Name	Required and unique partner system name that identifies the partner and system relationship.
Туре	Specify a predefined type (optional).
Domain	Optional Domain (if applicable).
Code	Optional System Code (if applicable).
System	Required selection of existing system as defined under the System pane. The system must be predefined before a partner system relationship can be established.

Click Save after you have finished editing the partner system information.

Partner System Messages

The Partner System Messages pane defines a set of messages that can be processed by a given partner system. It also establishes the direction for message processing such as the *in* and *out* direction. The values in the Message Type ID column must be defined prior to the partner system messages configuration and are selectable from the available messages.

The following image shows two messages that can be processed as input and one message which can be processed as output for a given partner system. A complete relationship between partner, system, and message is known as a business channel.



Routes

A business route is a combination of an inbound business channel and an outbound business channel, where each channel is a combination of a system that is sending or receiving messages of a partner. For a complete relationship, the user must define Partner, the Partner System, and the Message Type prior to defining a route. The route always sends messages in one direction, but to establish a bi-directional relationship, you must create two routes. Routes enable the application to dynamically retrieve the stored relationship between partners and identify the routing mechanism and direction to be used.



Procedure: How to Create an Advanced Trading Partner Route

To create an advanced trading partner route using the console:

1. Expand *Routes* from the left navigation pane in the console and click *Advanced Routes*, as shown in the following image.



	<mark>ہ کہ</mark>	දු Advanced Routes 🔅 😧 💄											
		Information Builders											
ļ	Avanced Routes Code Substitution Elements Route Contacts												
	+ New ★ Clear All Q Routes Filter												
		ID \$	Route Name	From Partner	Message Format From	Partner System Message From	To Partner \$	Message Format To €	Partner System Message To 🗣	Environme \$	Route Descriptio €	Last User Update ♣	Last Update ♣
	•••	4	aafes to walmart	AAFES	CIDX202	OrderCreat	Walmart	IDOC46C	OrderCreat - walmartAS	TEST	aafes to walmart	admin	2019-11- 06T17:12:4
	•••	5	BRIAN	AAFES	CIDX202	OrderCreat	AAFES	IDOC46C	OrderCreat	TEST	TEST	admin	2019-11- 11T20:11:3
		6	R1	Sunkis Canada	AXAPTA30	Invoice - Sun_Can_:	Sunkis Canada	AXAPTA30	ShipNotice - Sun_Can_:	DEV	Invoice to an outbound processing system.	admin	2019-11- 22T21:55:0
						М	. € 1						
						Tota	l number of	routes: 3					

The Advanced Routes page opens, as shown in the following image.

2. Click *New* to add a new route, as shown in the following image.



New Route		ж
Route Name	R2	
Туре	default	~
Environment	DEV	× ~
Route Description		
Route details From	n Partner	
From Partner	Sunkis Canada	× ~
Partner System Message From	AXAPTA30	×
Partner System From	Invoice - Sun_Can_SAP	×
Route details To P	artner	
To Partner	Select Sales	× ~
Partner System Message To	Select Message	×
Partner System To	ShipNotice - Sun_Can_SAP	× ~
		✓ Save × Cancel

The New Route dialog box opens, as shown in the following image.

3. Enter the information for the trading partner route you are creating as required.

The following table lists and describes the properties of the New Route dialog. An asterisk (*) character indicates a required property.

Property	Description
Route Name	Unique name for the route.
Туре	Specify a predefined type (optional).
Environment	Environment in which this route exists.
Route Description	Optional description for the route.
Route details From Partner	
From Partner	Initializing partner from which the message is being received.
Partner System Message From	Message format to be processed from the initializing partner.
Partner System From	Channel for the initializing partner.
Route details To Partner	
To Partner	Destination partner to whom the message is sent.
Partner System Message To	Message format for the destination partner.
Partner System To	Channel for the destination partner.

4. Click Save when you are finished.

Adv	Advanced Routes Code Substitution												
	+ New X Clear All Q Routes Filter												
:	::	ID 🜩	Route Name \$	From Partner \$	Message Format From	Partner System Message From €	To Partner \$	Message Format To 🌲	Partner System Message To €	Environme	Route Descriptio \$	Last User Update ♣	Last Update ♣
		4	aafes to walmart	AAFES	CIDX202	OrderCreat	Walmart	IDOC46C	OrderCreat - walmartAS	TEST	aafes to walmart	admin	2019-11- 06T17:12:4
	••••	5	BRIAN	AAFES	CIDX202	OrderCreat	AAFES	IDOC46C	OrderCreat	TEST	TEST	admin	2019-11- 11T20:11:3
	•••	6	R1	Sunkis Canada	AXAPTA30	Invoice - Sun_Can_3	Sunkis Canada	AXAPTA30	ShipNotice - Sun_Can_3	DEV	Invoice to an outbound processing system.	admin	2019-11- 22T21:55:0
		7	R2	Sunkis Canada	AXAPTA30	Invoice - Sun_Can_:	Sunkis Canada	AXAPTA30	ShipNotice - Sun_Can_	DEV		admin	2020-06- 28T22:17:4
						N Tota	ا الا الا	Noutes: 4					

The new route is added, as shown in the following image.

To edit an existing route, click the options menu to the left of the route in the corresponding row, as shown in the following image.



Click *Edit* from the menu, as shown in the following image.



Edit Route		×
Route Name	R2	
Туре	default	~
Environment	DEV	× ~
Route Description	Sample Advanced Route	
Route details Fron	n Partner	
From Partner	Sunkis Canada	× ~
Partner System Message From	AXAPTA30	×
Partner System From	Invoice - Sun_Can_SAP	×
Route details To P	artner	
To Partner	Sunkis Canada	× ~
Partner System Message To	AXAPTA30	* ~
Partner System To	ShipNotice - Sun_Can_SAP	× ~
		✓ Save X Cancel

The Edit Route dialog box opens, as shown in the following image.

After editing the route information, click Save.

To delete an existing route, select the route and click *Remove* from the options menu, as shown in the following image.



The Delete Route confirmation dialog box opens, as shown in the following image.

Do you want to delete Route: "R2" ?	
	✓ Yes × No

Click Yes to confirm the removal of the selected route.

Procedure: How to Create a Basic Trading Partner Route

To create a basic trading partner route using the console:

1. Expand *Routes* from the left navigation pane in the console and click *Basic Routes*, as shown in the following image.



The Basic Routes page opens, as shown in the following image.

A	Basic	: Rou	tes							វត្តិ	8	2
											inførn Bu	nation iilders
Basic	Routes		Code Substitution	Route Contacts								
	+ New	×	Clear All					Q Routes Filter			\$ 1	-
:	:	D \$	Туре 🜲	Route Name 🌲	From Partner \$	To Partner 🌲	Route Description	Last User Update 🌲	Last Update 🌲			
					N 4	1 ▶ 1						
					Total numbe	er of routes: 0						

2. Click New to add a new route, as shown in the following image.



ew Route			3
Route Name	R1		
Туре	default		~
From Partner	Sunkis Canada	ж	~
Message Format From	AXAPTA30	×	~
Channel From	Invoice - Sun_Can_SAP	×	~
To Partner	Sunkis USA	×	~
Message Format To	SUNKIS_Format	ж	~
Channel To	ShipNotice - Sun_Can_SAP	×	~
Environment	DEV	×	~
Route Description	Invoice to an outbound processing system.		
		✓ Save × Cano	el

The New Route dialog box opens, as shown in the following image.

3. Enter the information for the trading partner route you are creating as required.

The following table lists and describes the properties of the New Route dialog. An asterisk (*) character indicates a required property.

Property	Description
Route Name*	Unique name for the route.

Property	Description
Туре	Specify a predefined type (optional).
From Partner*	Initializing partner from which the message is being received.
Message Format From*	Message format to be processed from the initializing partner.
Channel From*	Channel for the initializing partner.
To Partner*	Destination partner to whom the message is sent.
Message Format To*	Message format for the destination partner.
Channel To*	Channel for the destination partner.
Environment*	Environment in which this route exists.
Route Description	Optional description for the route.

4. Click Save when you are finished.

The new route is added, as shown in the following image.

+ New Clear All Q sunkis													
	ID \$	Route From Name 🜩 🗣		Message Format From ≑	Alessage Format From ♠ Channel Parti From ♠ ♠		To Message Partner Format		Channel Environmen To 🗢 🗘		Last User Update		
	6	R1	Sunkis Canada	AXAPTA30	Invoice - Sun_Can_S/	Sunkis Canada	AXAPTA30	ShipNotice - Sun_Can_S/	DEV	Invoice to an outbound processing system.	admin		
					м 4	1 ▶ ₩							
					Total num	ber of routes:	1						

To edit an existing route, click the options menu to the left of the route in the corresponding row, as shown in the following image.



Click *Edit* from the menu, as shown in the following image.



Edit Route				×
Route Name	R1)
Туре	default		~]
From Partner	Sunkis Canada		×	
Message Format From	AXAPTA30		× ~]
Channel From	Invoice - Sun_Can_SAP		×	
To Partner	Sunkis Canada		× ~	
Message Format To	AXAPTA30		×	
Channel To	ShipNotice - Sun_Can_SAP		×	
Environment	DEV		×	
Route Description	Invoice to an outbound processing system.]
		✓ Save	× Cancel	

The Edit Route dialog box opens, as shown in the following image.

After editing the route information, click Save.

To delete an existing route, select the route and click *Remove* from the options menu, as shown in the following image.



The Delete Route confirmation dialog box opens, as shown in the following image.

Do you want to delete Route: "R1" ?		
	✓ Yes	× No

Click Yes to confirm the removal of the selected route.

Route Details

The Routes tab provides a table that lists all of the available routes in iWay Trading Partner Manager and provides details for each route, as shown in the following image.

Advanced Routes		Code Subst	0 itution	Route Contacts										
	+ New × Clear All										Q Routes Filter			
	::	ID 🜲	Route Name 🌲	From Partner \$	Message Format From 🗘	Partner System Message From €	To Partner \$	Message Format To \$	Partner System Message To 🜩	Environmen \$	Route Description	Last User Update	Last Update ♣	
		4	aafes to walmart	AAFES	CIDX202	OrderCreate - as2	Walmart	IDOC46C	OrderCreate - walmartAS2	TEST	aafes to walmart	admin	2019-11- 06T17:12:48.	
		5	BRIAN	AAFES	CIDX202	OrderCreate - as2	AAFES	IDOC46C	OrderCreate - as2	TEST	TEST	admin	2019-11- 11T20:11:30.	
		6	R1	Sunkis Canada	AXAPTA30	Invoice - Sun_Can_SA	Sunkis Canada	AXAPTA30	ShipNotice - Sun_Can_SA	DEV	Invoice to an outbound processing system.	admin	2019-11- 22T21:55:05.	
		7	R2	Sunkis Canada	AXAPTA30	Invoice - Sun_Can_SA	Sunkis Canada	AXAPTA30	ShipNotice - Sun_Can_SA	DEV		admin	2020-06- 28T22:17:49.	
						þ	((1							
						Tot	al number of	routes: 4						

Code Substitution

Code substitution enables the translation of identifying elements from one partner to another through a business route. Each partner system within a business route has a domain and code where the combination is unique. They are used to determine where a message came from and where it should be routed to. Both partners in a business route knows the unique identifiers of the other, even though they might not be the same. For example, Partner 1 knows itself as *A* and sends a message to partner *B*. The receiving partner knows *A* as *X* and knows itself as *Y*. The business route enables the application to convert *A* to *X* and *B* to *Y* to send the message correctly. The sending partner sends the message from *A* to *B*, but the receiving partner receives the message as *X* to *Y*, as illustrated in the following diagram.



The Code Substitution tab can be accessed from the Advanced Routes and Basic Routes pages in the console, as shown in the following image.

≡	s R	oute	6								1	0 🛔	
TP Trading Partner Manager			_									Inførmation Builders	
& Partners	Advanc	ed Rout	es	Code Substitut	on 1	Route Contacts	2						
 Routes - Advanced Routes 	+	New Clear All Code Substitution Filter Selected Route: aafes to walmart										\$ ~	
Basic Routes Standards		ID \$	Original From Domain	Substituted From Domain ♣	Original From Code	Substituted From Code	Original To Domain	Substituted To Domain	Original To Code \$	Substituted To Code	User 🜩	Date 🗢	
Messages													
🔅 Systems		4	aafes	walmart	123456	abcdef					admin	2019-11- 14T15:53:0	
Environments		и ∢ <mark>1</mark> ⊁ н											
Administration					T	otal number of	partner code	e substitution:	: 1				

To create a new code substitution for a business route, select the business route, and then click *New*, as shown in the following image.



New Code Subs	titution	×
Original From Domain		
Substituted From		
Original From Code)
Substituted From Code)
Original To Domain]
Substituted To Domain]
Original To Code		
Substituted To Code]
	✓ Save × Cancel	

The New Code Substitution dialog box opens, as shown in the following image.

Provide the necessary information, and then click Save.

Route Contacts

The route contacts for the business route enables the configuration of the contacts for the business route. The selection of contacts which can be added to the business route contacts is limited to the list obtained from the two partners associated with the business route.
The Route Contacts tab can be accessed from the Advanced Routes and Basic Routes pages in the console, as shown in the following image.

≡	1	Partne	er Contac	:t							វ ុះ	0 🛔
TP Trading Partner Manager												Inførmation Builders
Partners	Advand	ced Rou	ites	Code Substitu	1 Ition	∎≡ Route Contac	2 Is					
Routes Kew X Clear All Global Filter								\$ ~				
Basic Routes Standards		ID \$	Name \$	Primary Contact	Auto Notify Contact	Phone	Mobile \$	Email \$	Address1	Address2	Last User Update ♣	Last Update
Messages												
😂 Systems		14	test	true	false	777-888- 9999	917-339- 5000	bx@ibi.com			admin	2019-11- 14T15:50:3i
Environments		15	Sam Walton	true	false	888-555- 1212		sam@walm			admin	2019-11- 14T15:51:0
Administration						М	4 1 ▶	M				
		Total number of route contacts: 2										

To add a contact to a business route, select the business route, and then click *New*, as shown in the following image.

Advanced Routes	Code Substitution	Route Contacts
+ New × Clea	ır All	

New R	w Route Contact X										
	Name	Primary Contact	Auto Notify Contact	Phone	Mobile	email	Address1	Address2	Last User Update	Last Update	
	Elise Grinspoon	true		347-371- 3749	347-371- 3749	Elise.Grins	3471 Seagul Ave				
					4 4 1						
	Total number of route contacts: 1										
	✓ OK × Cancel										

The New Route Contact dialog box opens, as shown in the following image.

Select an available contact from the table, and then click *OK*. You are returned to the Route Contacts tab, which is now updated with the selected contact, as shown in the following image.

¢	⇒ O E 1 Route Contacts												
	+	+ New Clear All Q Global Filter											
		ID ♣ Name ≑		Prima Conta ♣	Auto Notify Conta	Phone 🌲	Mobile 🌲	Email 🌲	Address1	Address2	Last User Update ≑	Last Update ≑	
		16	Elise Grinspoon	true	false	347-371- 3749	347-371- 3749	Elise.Grinspoc	3471 Seagul Ave		admin	2019-11- 25T18:53:06.243+	
	H 4 <mark>1</mark> ▶ H												
							Total number	of route contac	ts: 1				

Standards

The message standard is the name of a given standard for message formats, such as HL7 or CIDX. A message standard consists of message formats, which are specific sub-types or versions of a standard. In turn, message formats consist of specific message types. The following diagram provides an overview of the message standard component. For more information about message formats and message types, see *Messages* on page 118.



One of the key features of standards, is the ability to define not only a user-defined standard to group application specific messages, but also to create standard code substitutions.

To access the Standards page, click *Standards* from the left navigation pane in the console, as shown in the following image.



🖹 S	tanda	irds			鐐. 😮 💄
					Inførmation Builders
Standa	rd	Code Substit	0 ution		
+	New	× Clear All	۵	Standards Filter	\$ ~
	ID ♣ Message Name ♣		Description 🜲	Last User Update	Last Update 🌲
	1	HL7	Health Level Seven	admin	2019-10- 02T14:45:04.030+0000
	2	AXAPTA	Axapta Codes		
	3	SAP	SAP Codes		
	4	XCBL	XCBL Codes		
	5	ANSI/ASC/X12	ANSI/ASC/X12 Codes		
	6 CIDX		CIDX Codes		
	··· 7 COMARCH		Comarch Codes		
	8	OIOXML	OIOXML Codes		
			H 4 1 ▶ H		
			Total number of standards	: 10	

The Standards page opens, which lists all of the standards currently defined, as shown in the following image.

To define a new standard, click *New*, as shown in the following image.



The New Standard dialog box opens, as shown in the following image.

New Standard		X
Standard Name	UN/CEFACT	
Standard Description	UN/CEFACT Codes for EDIFACT, X12, etc.	
	✓ Save × Cancel	

Provide a name and description of the standard, which makes this standard available to the message format definition process. When you are finished, click *Save*.

The new standard that you defined is added to the table in the Standard tab, as shown in the following image.

Standard		Code Substitu	16 ution				
+ N							
	ID \$	Message Name 🌲	Description 🗢				
	1	UN/CEFACT	UN/CEFACT Codes for Edifact, X12, etc				
	2	АХАРТА	Axapta Codes				

Standards Code Substitution

When sending a message from one system to another, it is likely that the two systems may use different message standards or formats. The application processing the message (the message engine), takes into account the format and converts the message from an inbound format to an outbound format. However, the content of the message might need to be adjusted for specific values. This is where the standard code substitution is used.

For example, you may have a use case where the Product_Code field must be converted from B_001 to BUN before the message can be processed by a receiving system.

On the Standards page, which displays the Standard tab by default, select an available standard from the table. Then, click the *Code Substitution* tab, as shown in the following image.

≡		🖹 St	anda	rds						វត្តិ	8	-
IP Trading	Partner Manager					_					inføri B	mation uilders
🚨 Partne	rs	Standard		Code S	16 ubstitution							
 RoutesB Standa	s 🔹	+ N	lew	× Clear All	NOFFACT		۹	Code Substituti	ons Filter		\$	~
⊠ Messa ¢\$ Systen	ges		ID \$	Code Substitution Name 🌩	Standard From	Standard To \$	Code	Substitution Code 🜲	Last User Update 🌲	Last Upd	: ate	
🖵 Enviro	nments											J
🔑 Admini	istration 👻		1	invoicetype	UN/CEFACT	OIOXML	380	PIE				^
			2	invoicetype	UN/CEFACT	OIOXML	381	PCM				
			17	unitOfMeasureCo	AXAPTA	UN/CEFACT	Ark	ST				
			18	unitOfMeasureCo	AXAPTA	UN/CEFACT	C62	C62				
			19	unitOfMeasureCo	AXAPTA	UN/CEFACT	GLL	GLL				
			20	unitOfMeasureCo	AXAPTA	UN/CEFACT	GRM	GRM				
			21	unitOfMeasureCo	AXAPTA	UN/CEFACT	Kar	СТ				
			22	unitOfMeasureCo	AXAPTA	UN/CEFACT	Kg	KGM				
			23	unitOfMeasureCo	AXAPTA	UN/CEFACT	LBR	LBR				•

To define a new code substitution, click *New*, as shown in the following image.



The New Code Substitution dialog box opens, as shown in the following image.

New Code Subs	titution		ж
Code Substitution Name	unitofMeasureCode		
Standard From	AXAPTA	×	~
Standard To	UN/CEFACT	×	~
Code	LTR		
Substitution Code	LTR		
	✓ Save	× Can	cel

Provide values for the available properties according to your requirements and then click Save.

	ID ¢	Code Substitution Name 🌲	Standard From 🌲	Standard To	Code 🌲	Substitution Code
	2	invoicetype	UN/CEFACT	OIOXML	381	PCM
	17	unitOfMeasureCode	AXAPTA	UN/CEFACT	Ark	ST
	18	unitOfMeasureCode	AXAPTA	UN/CEFACT	C62	C62
	19	unitOfMeasureCode	AXAPTA	UN/CEFACT	GLL	GLL
	20	unitOfMeasureCode	AXAPTA	UN/CEFACT	GRM	GRM
	21	unitOfMeasureCode	AXAPTA	UN/CEFACT	Kar	СТ
	22	unitOfMeasureCode	AXAPTA	UN/CEFACT	Kg	KGM
	23	unitOfMeasureCode	AXAPTA	UN/CEFACT	LBR	LBR
•••	24	unitOfMeasureCode	AXAPTA	UN/CEFACT	LTR	LTR
				N A	1 2 🕨	M

The new code substitution that you defined is added to the table in the Code Substitution tab, as shown in the following image.

To edit or remove a code substitution, select the corresponding row in the table for the code substitution, and then click the options menu to the right, as shown in the following image.

✓ Edit	reCode	АХАРТА	UN/CEFACT	Kg			KGM
🗟 Remove	reCode	AXAPTA	UN/CEFACT	LBR			LBR
··· 24 unitOfMeasu	ireCode	AXAPTA	UN/CEFACT	LTF	ł		LTR
			H 4	1	2	•	M

Select Edit or Remove from the menu.

Messages

This section provides an overview on message format and message type.

Message Format Overview

A message format is a specific version or a sub-type of a message standard. Message format is used to group specific message types. For example, if message standard is CIDX, then the message format can be CIDX202 (version 2.02). The following diagram illustrates a message format component.



To access the Messages page, click *Messages* from the left navigation pane in the console, as shown in the following image.



The Messages page opens, and displays the Message Format tab by default, which lists all defined message formats, as shown in the following image.

ages			🏘 🕄 💄
			Inførmation Builders
mat Message Type	·		
X Clear All		Q Message	s Format Filter
Message Format Name 🌲	Last User Update 🌲	Last Update 🌲	Message Format Description 🌲
6030		2019-05-03T21:07:11.093+0000	X12 6030
AXAPTA30			
CIDX202			
CIDX30			
ComarchXML			
CSVAANC1			
DISTEL10			
EBP1			
EBP35			
	Total number of form	3 4 ▶ ▶	
	ages Message Type	ages Message Type * Clear All Message Format Name * Last User Update * 6030 AXAPTA30 CIDX202 CIDX30 ComarchXML CSVAANC1 DISTEL10 EBP1 EBP35 K K I 2 Total number of form	ages mat Message Type * Clear All Q Message Message Format Name \$ Last User Update \$ Last Update \$ Last Update \$ 6030 2019-05-03T21:07:11.093+0000 AXAPTA30 2019-05-03T21:07:11.093+0000 AXAPTA30 2019-05-03T21:07:11.093+0000 CIDX202 CIDX202 CIDX30 COmarchXML CSVAANC1 CSVAANC1 DISTEL10 CIDX20 EBP1 CIDX20 EBP35 X 4 N

To add a new message format, click New, as shown in the following image.

Message Format	Message Type
+ New Create a Format	new Message

The New message remarkance box opens, as shown in the renowing image	The New Message	Format dialog box	opens, as shown	in the	following image
--	-----------------	-------------------	-----------------	--------	-----------------

New Message F	ormat	ж
Message Format Name	EDIX12-4020	
Message Format Description		
Standard Name	ANSI/ASC/X12	× ∨
		✓ Save × Cancel

Provide a name, description, and select an associated standard from the drop-down list. When you are finished, click Save.

The new message format that you defined is added to the table, as shown in the following image.

+ New	Clear All			Q Messages Format Filter
	Message Format Name 🌲	Last User Update 🌲	Last Update 🌲	Message Format Description 🌲
	EDIFACTD93AAGL			
	EDIFACTD93AEAN			
	EDIFACTD96A			
	EDIFACTD96AEAN			
	EDIFACTD97A			
	EDIX12-4010	iway	2018-12-18T17:59:35.000+0000	
	EDIX12-4010A1			
	EDIX12-4020			
	EDIX12-4050			

Message Type Overview

The message type is a specific type of message within the format. For example, Shipnotice is a message type within the CIDX202 format, which is associated with the CIDX standard. The message type can also be associated with a specific schema to define the structure and validation for the message. The message type values can be used by a processing system to identify which transforms can be used to convert the message before sending it to the destination system. It is also used in conjunction with unique identifiers for partner systems to determine the routing of the message.

To review and create message types, ensure the Message Format tab is selected on the Messages page. Select an available message format from the table, and then click the *Message Type* tab, as shown in the following image.

=	Me Me	essages				¢.	0	-
IP Trading Partner Manager							inførn Bu	ation ilders
Partners	Message	Format	•					
Routes •	+ •	lew Clear All			Q Messages Format Filter		\$	~
Standards		Message Format Name 🌲	Last User Update 🌲	Last Update 🌲	Message Format Description 🌲			
Messages								
🗱 Systems		EDIFACTD93A						ľ
Environments		EDIFACTD93AAGL						
✗ Administration ◄		EDIFACTD93AEAN						
		EDIFACTD96A						
		EDIFACTD96AEAN						
		EDIFACTD97A						

Note: The numeric value within the Message Type tab indicates the number of message types that are currently defined for a selected message format.



To add a new message type, click New, as shown in the following image.



New Message Ty	/pe	×
Message Type Name	OrderCreate	ן
Schema Name	DOC_EDIFACT-D96A_ORDERS]
Schema Location]
Message Type Description	ORDERS	
	Save X Cancel	

The New Message Type dialog box opens, as shown in the following image.

Provide a message type name, schema name with an optional location, and description. When you are finished, click Save.

The new message type that you defined is added to the table, a	as shown in the following image.
--	----------------------------------

+ New	🖥 Dele	te × Clear All				٩	Messages Type Filter	\$ ~
	🗄 Select	ed Message Format: El	DIFACTD96A					
	ID \$	Message Type Name 🌲	Schema Name	Format Name	Schema Location 🜲	Message Type Description 🌲	Last User Update 🌲	Last Update 🖨
•••	76	DeliverySchedule	DOC_EDITACT	EDIFACTD96A		DELJIT		
	78	PlanningSchedule	DOC_EDIFACT- D96A_DELFOR	EDIFACTD96A		DELFOR		
	88	Invoice	DOC_EDIFACT- D96A_INVOIC	EDIFACTD96A		INVOIC		
	89	OrderResponse	DOC_EDIFACT- D96A_ORDRSP	EDIFACTD96A		ORDRSP		
	97	OrderCreate	DOC_EDIFACT- D96A_ORDERS	EDIFACTD96A		ORDERS		
	124	CustomerArticleMaste	DOC_EDIFACT- D96A_PRICAT	EDIFACTD96A		PRICAT		
	126	CustomerMasterData	DOC_EDIFACT- D96A_PARTIN	EDIFACTD96A		PARTIN		
	128	ProductCatalogUpdat	DOC_EDIFACT- D96A_PRICAT	EDIFACTD96A		PRICAT		

Systems

Systems are physical end-systems, such as machines or applications (iWay Service Manager (iSM) channels), that can send messages to the processing engine. The systems are directly mapped to iSM components, such as adapters, channels, and listeners, to make them accessible during iWay Trading Partner Manager runtime to the application. Before a system is defined, the appropriate iSM component must be created and made available in iSM. In some instances, systems can also represent a logical system used for routing messages, in which case there is no iSM component associated with the defined system. A system can only be in one environment at a time.

To access the Systems page, click *Systems* from the left navigation pane in the console, as shown in the following image.



🗘 Systen	ns				र्द्धः 😮 💄
					Inførmation Builders
System	P	Cartners			
+ New	× Clear Al	I	c	Systems Filter	¢ ~
	ID 🌲	System Name:	Last Update 🌲	Туре 🌲	Environment 🌲
	1	test	2018-10-09T19:08:44.000+0000	default	DEV
	2	inna_sys	2019-02-19T18:18:19.000+0000	default	PERF
	3	innovis	2019-05-17T18:01:35.113+0000	default	PROD
	4	Innovis test	2019-05-17T14:05:11.000+0000	default	TEST
	5	arktest	2019-07-22T18:58:20.413+0000	default	QA
	1005	AS2_out	2019-08-20T13:32:03.000+0000	default	TEST
	1006	CanadaSystem	2019-11-13T17:42:48.480+0000	default	TEST
			Total number of systems : 7		

The Systems page opens in the console, as shown in the following image.

The System tab is selected by default, which lists all the defined systems and enables the creation of new systems for iWay Trading Partner Manager use.

To review the partners that are associated with a specific system, ensure the System tab is selected on the Systems page. Select an available system from the table, and then click the *Partners* tab, as shown in the following image.

=	o Syste	ms				🏚 😧 💄
Trading Partner Manager						Inf@rmation Builders
Partners	System	Partr	l ¹⁰	•		
Ø Routes •	+ New	× Clear All		Q Sys	tems Filter	\$ ~
Standards		ID \$	System Name: 🌲	Last Update 🌲	Туре 🌲	Environment 🌲
Messages	=					
😂 Systems	-	1	test	2018-10-09T19:08:44.000+0000	default	DEV
Environments		2	inna_sys	2019-02-19T18:18:19.000+0000	default	PERF
Administration -		3	innovis	2019-05-17T18:01:35.113+0000	default	PROD
		4	Innovis test	2019-05-17T14:05:11.000+0000	default	TEST
		5	arktest	2019-07-22T18:58:20.413+0000	default	QA
		1005	AS2_out	2019-08-20T13:32:03.000+0000	default	TEST
	•••	1006	CanadaSystem	2019-11-13T17:42:48.480+0000	default	TEST
				₩ ◀ 1 ▶ ₩		
			To	otal number of systems : 7		

Note: The numeric value within the Partners tab indicates the number of partners that are currently associated with the selected system.



To edit an existing system, click the options menu to the left of the system in the corresponding row, as shown in the following image.



Click *Edit* from the menu, as shown in the following image.



The Edit System dialog box opens, as shown in the following image.

Edit System		×
System Name	test)
Туре	default]
Environment	DEV]
Description]
	✓ Save × Cancel	

When you are finished editing the system information, click Save.

To delete an existing system, select the system and click *Remove* from the options menu, as shown in the following image.



The Delete System confirmation dialog box opens, as shown in the following image.



Note: Deleting a system will delete all the associated partner systems using this defined system.

Procedure: How to Create a System

To create a system using the console:

1. From the Systems page, select the System tab, and then click New, as shown in the following image.



The New System dialog box opens, as shown in the followin	ng image.
---	-----------

New System			×
System Name	Test_Sys]
Туре	default	~]
Environment	QA	-	
Description	This is a test system for QA environments.)
		Save Cancel	

2. Enter the information for the system you are creating.

The following table lists and describes the properties in the Create New System dialog.

Property	Description
System Name	Unique name for the system.
Туре	Specify a predefined type (optional).
Environment	Environment to which this system applies (for example, DEV, QA, PROD).
Description	Optional description for the system being created.

3. Click Save.

System		Partners 10				
+ New	× Clear	All	Q Syst	ems Filter	\$ ~	
	ID \$	System Name: 🌲	Last Update 🌲	Туре 🌲	Environment 🌲	
••						
	1	test	2018-10-09T19:08:44.000+0000	default	DEV	
	2	inna_sys	2019-02-19T18:18:19.000+0000	default	PERF	
	3	innovis	2019-05-17T18:01:35.113+0000	default	PROD	
	4	Innovis test	2019-05-17T14:05:11.000+0000	default	TEST	
	5	arktest	2019-07-22T18:58:20.413+0000	default	QA	
	1005	AS2_out	2019-08-20T13:32:03.000+0000	default	TEST	
	1006	CanadaSystem	2019-11-13T17:42:48.480+0000	default	TEST	
	1007	Test_Sys	2019-12-19T21:13:20.218+0000	default	QA	
	₩ 4 1 > ₩					
Total number of systems : 8						

The new system is added to the table in the System tab, as shown in the following image.

Environments

The main environments page allows the management of the environments defined in iWay Trading Partner Manager. With different environments, you can organize an infrastructure. Systems and business routes can be associated to an environment. This is a valuable option for applications which share the same database repository to store information for multiple environments such as developer and quality assurance environments. However, it is always recommended to have a separate database repository for the production environment, rather than using this shared repository approach. To access the Environments page, click *Environments* from the left navigation pane in the console, as shown in the following image.

IP Trading Partner Manager
Partners
Ø Routes
Standards
Messages
😂 Systems
Administration -

D Environments	S		tật 😮 💄	
			Inførmation Builders	
Environment				
+ New × Clea	r All	Q Environm	ents Filter	
	Environment Name 🌲	Description 🌩	Last User Update 🌲	
••				
	PROD	Production		
•••	QA	Quality Assurance		
	DEV	Development		
	TEST	System Test		
	PERF	Performance Test		
	ааа	AAA	admin	
	ARK	Arkady	admin	
	NEWONE	NEW ENVIRONMENT	admin	
H 4 1 F H				
	Total numb	per of environments : 8		

The Environments page opens in the console, as shown in the following image.

The Environments page enables the management and creation of pre-defined and new environments for the application.

Administration

The Administration menu in the console allows administrators to add, delete, and edit other users. Administrators can also designate various roles to managed users. The Administration menu is designed to provide an audit trail of user login activity, as well as various settings and metadata management. To access the Administration menu, expand *Administration* in the left navigation pane, as shown in the following image.



Note: Users who are not designated as administrators will not be able to access the Administration menu.

Users

=	42 5 U	sers						Ø	0	2
Trading Partner Manager									Inførmat Build	ion lers
2 Partners	+	New × Clear All				Q User	s Filter		۵ ~	-
Ø Routes •		User Name 🌲	First Name 🌲	Last Name 🌲	Block User	Last User Update 🌲	Last Update 🌲	Role 🌲		
Standards										
Messages		admin	Internal	User	Unblock					î
🔅 Systems		George	George	Peterson	Unblock					1
Environments Administration		Pete	Frank	Peterson	Unblock					1
😩 Users	-	brian	brian	lehrhoff		admin	2019-10- 29T13:29:55.617+0			1
👂 Roles	•••	maria	s	s	Unblock	admin	2019-10- 29T15:43:52.193+0			
< MetaData 👻		maria1	а	а	Unblock	admin	2019-10- 15T18:27:29.587+0			
LDAP Configuration		inessa	а	а	Unblock	admin	2019-10- 16T15:55:11.440+0(
Configuration		Норе	Норе	Ward	Unblock					
3 Audit 🕈	•••	iway	iway	user	Unblock					
	-			14	Unblock	N N				Ŧ
	Total number of users : 11									

The Users section allows administrators to add, delete, and edit other users.

Procedure: How to Create a New User

To create a new user:

1. From the Administration menu, click *Users*, and then click *New*, as shown in the following image.

📇 Users						
•	Vew Create a new User					
	User Name 🌲	First Name 🌲				
==						
	admin	Internal				

New	/ User		×
U	ser Name	Sample_User	
Pa	assword		
C(Pa	onfirm assword		
Fi	irst Name	John	
La	ast Name	Smith	
R	ole	test × ∨]
в	lock User		
		✓ Save × Cancel	

The New User dialog box opens, as shown in the following image.

The following table lists and describes the properties in the New User dialog box.

Property	Description
User Name	Unique name of the user.
Password	Password of the user.
Confirm Password	You must re-enter the password in this field.
First Name	First name of the user.
Last Name	Last name of the user.

Property	Description
Role	Select an available role from the drop-down list to be assigned to the user.
Block User	If selected, user access to iWay Trading Partner Manager is blocked without deleting the user.

2. Provide the required information for the new user and click Save.

The new created user will appear in the screen of available users.

To edit an existing user, select the user and then click *Edit* from the options menu, as shown in the following image.

	admin
ø	Edit
2	Remove

The Edit User dialog box opens. Modify the user properties as required and then click *Save*.

To delete an existing user, select the user and then click *Remove* from the options menu, as shown in the following image.



The Delete User confirmation dialog box opens. Click Yes to confirm the removal of the selected user.

Role

The Roles section allows administrators to add, delete, and edit roles which can be assigned to the users.

=	🔑 R	oles			徽 😧 💄
TP Trading Partner Manager					Inførmation Builders
Partners	+	New Clear All		Q Roles Filter	↓
Ø Routes •		Role Name 🌲	Role Description 🌲	Last User Update 🌲	Last Update 🌲
Standards	••				
Messages		administrator	Default Admin created by iWAY		
😂 Systems		limited	limited access	admin	2019-10-29T13:25:45.667+0000
Environments		mix		admin	2019-10-28T16:31:57.910+0000
Administration -		test		admin	2019-10-15T18:24:56.000+0000
🏥 Users		noadmin		admin	2019-10-16T14:27:55.000+0000
		onlypartner		admin	2019-10-29T13:29:03.697+0000
Roles		onlythepartner	only the partner	admin	2019-10-29T13:29:36.957+0000
< MetaData 👻					
LDAP Configuration			Total number of	roles : 7	
 Database Configuration 					
🕲 Audit 👻					

Procedure: How to Create a New Role

To create a new role:

1. From the Administration menu, click *Roles*, and then click *New*, as shown in the following image.

P Roles				
+ New × Clear All				
::	Role Name 🌲	Role [
	administrator	Defaul		

w Role					
Role Name	Editor				
Description	Edit access enabled				
- Permissi	ion				
Partners	View and Edit	-			
Routes	View View and Edit Create View Edit and Delete				
Standards	No Access View and Edit	-			
Messages	View and Edit	•			
Systems	View and Edit	•			
Environme	View and Edit	•			
Administra	View and Edit	•			
TPA Metada	View and Edit	•			
	~	Save X Cancel			

The New Role dialog box opens, as shown in the following image.

The following table lists and describes the properties in the New Role dialog box.

Property	Description	
Role Name	Unique name for the role.	

Property	Description	
Description	Description for the role.	
Permissions	Specify the access rights for each area (also represents each tab in the console):	
	View. Only view the rights.	
	□ View and Edit. Allows you to view and edit existing information, but not to create or delete.	
	Create, View, Edit, and Delete. Full rights to a given tab.	
	No Access. Tab will not be visible.	

2. Provide the required information for the new role and click Save.

The created role will appear in the screen of available roles shown below, and is available to be assigned to users.

PR	₽ Roles					
				Inf©rmation Builders		
+	+ New Clear All Q Roles Filter					
	Role Name 🌲	Role Description 🌲	Last User Update 🌲	Last Update 🌲		
	administrator	Default Admin created by iWAY				
	limited	limited access	admin	2019-10-29T13:25:45.667+0000		
•••	mix		admin	2019-10-28T16:31:57.910+0000		
•••	test		admin	2019-10-15T18:24:56.000+0000		
•••	noadmin		admin	2019-10-16T14:27:55.000+0000		
•••	onlypartner		admin	2019-10-29T13:29:03.697+0000		
•••	onlythepartner	only the partner	admin	2019-10-29T13:29:36.957+0000		
	Editor	Edit access enabled	admin	2020-06-29T01:30:15.000+0000		
	H ≪ 1 ► N					
	Total number of roles : 8					
To edit an existing role, select the role and click *Edit*, as shown in the following image.

	administrator	
ø	Edit	
ħ	Remove	

The Edit Role dialog box opens. Modify the role properties as required and then click Save.

To delete an existing role, select the role and click *Delete*, as shown in the following image.

administrate	or
Edit	
Remove	-
	administrato Edit Remove

The Delete Role confirmation dialog box opens. Click Yes to confirm the removal of the selected role.

Note: If a role is associated with any user, you will not be able to delete it.

Metadata

The MetaData section allows those users with designated rights to manage metadata nodes and data types for all objects within iWay Trading Partner Manager. This area enables the creation or deletion of metadata nodes for a given object such as partner. The created metadata is available for all instances of an object, such as centralizing the management. For example, the ReceiverID metadata node created for the partner object will be available for all partners created, but will store different values specific to a given partner. The following image shows the MetaData Configuration screen, which can be accessed from the Administration menu.

=	🤸 Me	taData Configui	ration					ţġ.	0 🛓
TP Trading Partner Manager									Inf©rmation Builders
Partners	Partners	Partner Contact	Partner Syste	m Partner Sys	tem Messages	Advanced Ro	utes Advance	ed Route Code Substit	ution
🖉 Routes 👻	Basic Rou	utes Basic Route	Code Substitutio	on Standards	Message Ty	pe Systems	Environments		
Standards	Meta Da	ata Types							
Messages	+	New × Clear All							
😂 Systems		Type Name 🌲		Description 🗢		Last User Update	•	Last Update 🗢	
Environments		default)efault Metadata					
Administration -		ark	a	ırk		admin		2019-08-13T16:34:00.0	00+0000
📽 Users		arka	a	irka		admin		2019-08-13T16:34:08.0	00+0000
👂 Roles		filters	t	est filter		admin		2019-08-21T13:25:16.0	00+0000
< MetaData 👻		maria				admin		2019-08-21T15:50:39.0	00+0000
 MetaData Configuration 				М	€ 1 2	► N			
Data Type Configuration									
LDAP Configuration									

=	SR D	ata T	ype Configuration		歳 🕑 💄
Trading Partner Manager					Inførmation Builders
2 Partners	+	New	× Clear All	٩	Data Type Filter
Ø Routes *		ID \$	Name 🌲	Regex 🗢	Description 🜲
Standards					
Messages		1	String	text	Data type string stores any string of letters, numbers, and symbols.
 Systems Environments 		2	Integer	number	Data type an integer is a whole number (not a fraction) that can be positive, negative, or zero
Administration -	•••	3	Date	date	Data type a date (year, month, day (no time))
😩 Users		4	Email	email	Data type an e-mail address
👂 Roles	•••	6	ipv4 address	\b(?:(?:25[0-5]]2[0-4]\d][01]?\d\d?)\.){3} (?:25[0-5]]2[0-4]\d][01]?\d\d?)\b	valid ipv4 (network) address
MetaData MetaData Configuration		7	url or ipv4 address	$\label{eq:constraints} \begin{split} & \wedge(((h.ps? f.p); \forall V)?(?:([W-L])+(I[?L])?)([W]) \\ & \{2,4\} (?:(?:25[0-5]]2[0-4]]d[[01]?IdId?))(? \\ & \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	either url or ipv4
Data Type Configuration	•••	24	SSN	^(?!(000 666 9))\d{3}-(?!00)\d{2}- (?!0000)\d{4 \$ \$ ^(?!(000 666 9))\d{3} (?!00)\d{2}(?!0000)4 \$ \$	000-00-0000 or 000000000
 Database 		25	telephone number	/^\b\d{3}[]?\d{3}[]?\d{4}\b\$/	telephone number
Configuration					
🔊 Audit 👻				Total number of records : 36	

The following image shows the Data Type Configuration screen, which can be accessed from the Administration menu.

LDAP Configuration

The LDAP Configuration section allows system administrators to enable and configure LDAP authentication with iWay Trading Partner Manager. The LDAP Settings tab is selected by default and shows the current LDAP configuration properties, as shown in the following image.

≡	LDAP Configuration		鐐. 😧 💄
IP Trading Partner Manager			Inf@rmation Builders
Partners	LDAP Settings Role Mapper		
 Routes - 	Use LDAP authentication		
Standards	Setting	Value	Description
Messages	URL	ldap://localhost:10389/ou=system	URL to reach LDAP directory. LDAP URL's are in the form Idap://host[:port] or Idaps://host[:port].
Environments	User		The distinguished name (dn) of the admin user for login. Unique attribute and group, for example: uid=admin,ou=system
Administration -	Password		Pasword for access to the LDAP directory.
🖶 Users	User Search Base		Search base for user searches. Default is Ex: ou=users
Roles MetaData	User Search Filter		The LDAP filter used to search for users (optional). For example "(uid={0})". The substituted parameter is the user's login name,for example: (uid={0})
LDAP Configuration	Group Search Base		The search base for group membership searches. Default is Ex: ou=groups
 Database Configuration Audit 	Group Search Filter	(uniqueMember={0})	The LDAP filter to search for groups. Defaults to "(uniqueMember=(0))". The substituted parameter is the DN of the user. For example: (member={0})
	Group Role Attribute	cn	Specifies the attribute name which contains the role name. In Default to "cn" - common name

Note: By default, iWay Trading Partner Manager uses database authentication, which is based on user authentication information stored in the database that has been configured for iWay Trading Partner Manager.

To enable LDAP, click Use LDAP authentication, as shown in the following image.

LDAP Configuration						
LDAP Settings	Role Mapper					
Use LDAP authentication						

To edit LDAP settings and test your connection, click *Edit*.

Edit LDAP Prop	erties			×
URL	ldap://localhost:10389/ou=sy	rstem		
User				
Password				
User Search Base				
User Search Filter				
Group Search Base				
Group Search Filter	(uniqueMember={0})			
Group Role Attribute	cn			
		Test Connection	✓ Save	× Cancel

The Edit LDAP Properties dialog box opens, as shown in the following image.

Modify your LDAP properties as required, click *Test Connection* to verify, and then click *Save*. **Note:** The Save button is only enabled when the LDAP connection test is successful.

The following message displays when the LDAP connection test is successful:



The following message displays when the LDAP connection test is unsuccessful:



In the LDAP Configuration section, the Role Mapper tab allows you to map LDAP groups with iWay Trading Partner Manager roles, as shown in the following image.

LDAP Settings Role Mapper								
+ New Clear All Q LDAP Roles Filter								
	ID \$	LDAP Group 🌲	TPM Role 🌲	Last User Update 🌲	Last Update 🌲			
	1	do-it-all	mix					
	2	tpm-admin	administrator					
	3	tpm-edit	administrator					
N 4 <mark>1</mark> ▶ N								
Total number of records : 3								

To create a mapping, click New.

The New Group Mapper dialog box opens, as shown in the following image.

New Group Ma	New Group Mapper 3					
LDAP Group	tpm-Idap-test					
TPM Role	administrator	×				
		Save Cancel				

Type your LDAP Group name in the field and select a corresponding role from the TPM Role drop-down list. Click Save.

You are returned to the Role Mapper tab where your new mapping is added to the table.

To edit or delete a role mapping, click a specific row in the table and select *Edit* or *Remove* from the options menu, as shown in the following image.



For more information on configuring LDAP, see Configuring and Enabling LDAP on page 44.

Database Configuration

The Database Configuration section allows system administrators to review, modify, and test connection settings for the iWay Trading Partner Manager database that has been configured (for example, SQL Server or Oracle).

=	Database Configuration		tên 🕄 🔒
Trading Partner Manager			Inf%rmation Builders
Partners	✓ Edit		
Ø Routes •	Setting	Value	Description
Standards	Driver Java Class	com.microsoft.sqlserver.jdbc.SQLServerDriver	Specify the JDBC driver used to connect to the database.
Messages	Connection Url	jdbc:sqlserver://iwism;databasename=TPM_707	Specify the JDBC URL to use when making the database connection.
😂 Systems	Connection User Name	sa	Specify the database user name associated with the connection.
Environments	Connection Password		Specify the database user password associated with the connection.
Administration -	Initial Active Connections	3	Specify the initial connection pool size.
😩 Users	Maximum Active Connections	5	Specify the maximum number of database connections allowed by this pool.
🔑 Roles	Maximum Idle Connections	5	The maximum number of connections that should be kept in the pool at all times.
< MetaData 👻			
LDAP Configuration Database Configuration Database Configuration			

To edit your database settings and test your connection, click *Edit*, as shown in the following image.

Database Configuration					
✓ Edit					

Edit Database Pr	roperties	×
Connection Url	jdbc:sqlserver://iwism;databasename=TPM_707	
Connection User Name	sa]
Connection Password]
Initial Active Connections	3]
Maximum Active Connections	5]
Maximum Idle Connections	5]
	Test Connection Save Cancel	

The Edit Database Properties dialog box opens, as shown in the following image.

Modify your database properties as required, click *Test Connection* to verify, and then click *Save*.

Note: The Save button is only enabled when the database connection test is successful.

The following message displays when the database connection test is successful:



The following message displays when the database connection test is unsuccessful:



Audit

The Audit section in the Administration menu is organized by three areas, which allow administrators to monitor user login activity, domains, and metadata in iWay Trading Partner Manager.



Login Audit

The Login Audit page provides the user name, the login status, login date/time, and IP address.

≡	📋 Login Audit			tên 😮 💄
TP Trading Partner Manager				Inf@rmation Builders
1 Partners	× Clear All		Q Audit Filter	* *
Ø Routes •	User Name 🌲	Status 🌲	Login Date and Time 🌲	IP Address 🌲
🗎 Standards				
Messages	admin	AUTHENTICATION_SUCCESS	2019-11-25T17:14:28.783Z	172.30.234.118
	admin	AUTHENTICATION_FAILURE	2019-11-25T18:36:15.845Z	172.30.243.49
🗱 Systems	admin	AUTHENTICATION_SUCCESS	2019-11-25T18:36:23.458Z	172.30.243.49
Environments	ibiadmin	AUTHENTICATION_FAILURE	2019-11-25T21:24:47.263Z	172.30.243.49
	admin	AUTHENTICATION_SUCCESS	2019-11-25T21:24:54.720Z	172.30.243.49
差 Administration 👻	admin	AUTHENTICATION_SUCCESS	2019-11-27T18:16:07.322Z	172.30.243.49
📇 Users	admin	AUTHENTICATION_SUCCESS	2019-11-27T18:16:07.322Z	172.30.243.49
	admin	AUTHENTICATION_SUCCESS	2019-11-27T18:16:07.322Z	172.30.243.49
P Roles	sa	AUTHENTICATION_FAILURE	2019-12-02T21:42:32.613Z	172.30.243.49
< MetaData 👻	iwayqa	AUTHENTICATION_FAILURE	2019-12-02T21:42:57.370Z	172.30.243.49
	admin	AUTHENTICATION_SUCCESS	2019-12-05T13:43:44.804Z	172.30.243.49
	admin	AUTHENTICATION_SUCCESS	2019-12-19T16:50:34.678Z	172.30.234.118
Configuration	admin	AUTHENTICATION_SUCCESS	2019-12-21T04:58:13.508Z	172.30.234.118
🕤 Audit 🔻	admin	AUTHENTICATION_SUCCESS	2019-12-27T17:12:05.611Z	172.30.243.49
- Andre	admin	AUTHENTICATION_SUCCESS	2019-12-30T16:31:07.147Z	172.30.243.49
💼 Login		₩ ◀ 14 15	16 17 18 🕨 🕅	
i Domains		Total number	of records : 856	
📋 MetaData				

Domains Audit

The Domains Audit page allows you to review which domain (for example, Partner) was added, modified, or deleted based on a specific user ID. You can also specify a time frame (From Date/To Date) to narrow your search.

=	ÊC)oma	ins Aud	it											愈	0 🛔
Trading Partner Manager																Inf@rmation Builders
2. Partners	Act	ion: A	All Actions	,	✓ User:	admin		×	Domain:	Partner		~				
Ø Routes	Fro	rom Date:														
Standards														🗸 Sea	rch ×	Clear All
Messages	Cold	or leger	na: Green -	Site	BU	Red - Dele	tea		Postal				Parent		Update	
🗱 Systems	•	Type \$	Name \$	Code \$	Name \$	\$	Address:	¢	Code \$	\$	¢	Province	Partner \$	\$	Date \$	¢
Environments																
Administration -	141	filters	ARK TEST			x		x	x		x			admin	2019- 08- 21T13:28	^
Roles	1151	maria	dddd			d		dd	d	d	d			admin	2019- 08- 21T15:52	
 ≺ MetaData LDAP Configuration 	1	arka,	AAFES				4630 Exchange Service Drive	Dallas	75236	тх	US			admin	2019- 08- 21T18:40	AAFES master partner 2
Database Configuration	2153	defai	audit			address 1		city	07410	NY	US			admin	2019- 10- 10T14:36	audit test
E Login	67	defai	Notions Marketing Inbound 850										Michaels Stores	admin	2019- 10- 24T13:38	
DomainsMetaData	67	defai	Notions Marketing Inbound 850										Notions Marketing	admin	2019- 10- 24T13:41	
		ti d d 2 3 ▶ M Total number of records : 22														

Metadata Audit

The Metadata Audit page allows you to review which metadata nodes were added, modified, or deleted based on a specific user ID and domain (for example, Partner). You can also specify a time frame (From Date/To Date) to narrow your search.

≡	📋 Metadata Au	dit					🏚 😧 💄
Trading Partner Manager							Inførmation Builders
Partners	Action: All Actions	V User: a	dmin	× 🗸 Domain: Par	rtner 🗸		
Routes •	From Date:		To Date:		 		
Standards	Color legend: Green	- Added, Blue - Edited, I	Red - Deleted			✓ Se	arch X Clear All
Messages	ID 🜩	MetaData Name 🌲	Damain ID 🌲	Value 🌩	Description 🜩	Last User Update	Last Update 🌲
🗱 Systems							
Environments							
Administration -	2168	month	141		month	2019-08- 21T14:58:50.000+0000	admin
🖶 Users	2165	date	141		date	2019-08- 21T14:59:17.000+0000	admin
🔑 Roles	2166	integer	141	-123	integer	2019-08- 21T14:59:26.000+0000	admin
< MetaData 👻	2166	integer	141	123	integer	2019-08- 21T15:00:05.000+0000	admin
LDAP Configuration	2166	integer	141	0.000123	integer	2019-08- 21T15:00:20.000+0000	admin
Database Configuration	2166	integer	141	0.000123	integer	2019-08- 21T15:00:54.000+0000	admin
🕥 Audit 👻	38	isa02	1	test	Authorization Information	2019-06- 27T22:05:04.277+0000	mfeda
💼 Login	42	Isa06	2	14	Sender ID	2009-12- 16T21:07:43.000+0000	admin
Domains	42	isa06	3	14	Sender ID	2009-12- 17T13:20:03.000+0000	admin
📋 MetaData	42	ica06	6	14	Sandar ID	2009-12-	admin
			H 4	1 2 3 4 5	5 🕨 M		

Extensible Metadata

Extensible metadata is one of the key features of iWay Trading Partner Manager. It enables the application to extend the definition of any object (for example, partner, system, message, and so on) to contain application specific attributes. The metadata is defined in the console and then accessed by an application at runtime through the standard iWay Trading Partner Manager function calls, such as providing additional attributes to facilitate proper routing and message processing. For example, a ReceiverID metadata field can be associated with a partner, so when the application receives an EDI message, it can do a look up to retrieve the partner information based on the ReceiverID from the incoming message and continue message processing.

Metadata Management

Metadata management is performed through the Administration menu of the console. Once the Administration menu is accessed, a user (with proper permissions) can expand the *MetaData* menu and select the *MetaData Configuration* submenu. The MetaData Configuration page opens and displays a set of sub-tabs where each tab represents an object (for example, Partners, Systems, and so on), as shown in the following image.

=	MetaDa	ita Configur	ation						ţĝ,	0 🛓	
Trading Partner Manager										Inf©rmation Builders	
Partners	Partners Partner Contact Partner Syst		Partner System	Partner Sys	tem Messages	Advanced R	outes Advar	ced Route	Code Substitution	n	
 Routes • 	Basic Routes Basic Route Code Substitutio		Code Substitution	on Standards Message Type		Systems Environments		ts			
Standards	Meta Data Typ	Meta Data Types									
Messages	+ New	+ New × Clear All									
🚓 Systems	Type Name 🗢			scription 🌲		Last User Upd	ate 🌩	Last	Update 🌲		
Environments											
Administration	default			fault Metadata							
tet Lison	ark		arl			admin		2019	2019-08-13T16:34:00.000+0		
	arka		arl	a		admin			2019-08-13T16:34:08.000+0000		
Roles	filter	s	tes	t filter		admin			2019-08-21T13:25:16.000+0000		
< MetaData ▼	mari	a				admin	admin 2019-08-21T15:50:39.000+			0000+000	
Configuration				ł	【 【 】 2						
Configuration	Meta Data No	des for: "abc"									
LDAP Configuration	+ New	Right-clicking × Clear All	a selected table ro	w will display a	pop-up menu wit	h the actions y	ou can perform:	Add, Edit	or Delete node		
Configuration	ID ♣ TPA	Node ≑	Data Type	¢	Description	•	Last User Updat	e 🌩	🗢 🛛 Last Update 🗢		
-9 Audit -											
					R 4 1 →						

You can define a metadata type for each object, and further extend this metadata by defining metadata nodes for each type.

You can easily manage extensive lists of metadata by using the available controls in each table (for example, sorting, filtering, and scrolling), as shown in the following image.

Partners	Partner Contact	Partner System	Partner Syste	em Messages	Advanced Routes Advanced Ro		ute Code Substitution	Basic Routes		
Basic Rou	te Code Substitution	Standards	Message Type	Systems	Environments					
Meta Da	Meta Data Types									
+	+ New Clear All									
	Type Name 🌲	C	Description 🌲		Last User Up	odate 🌲	Last Update 🔺			
	default	C	efault Metadata							
	ark	а	rk		admin		2019-08-13T16:34:00.0	000+000		
	arka	а	rka		admin		2019-08-13T16:34:08.0	000+000		
	filters	te	est filter		admin		2019-08-21T13:25:16.0	000+000		
	maria				admin		2019-08-21T15:50:39.0	000+000		

Procedure: How to Create a Metadata Type

To create a metadata type:

1. On the MetaData Configuration page, click the sub-tab for the object you wish to create the metadata type (for example, Partners).

2. Click New in the Meta Data Types table, as shown in the following image.

MetaData Configuration										
Partners	Partner Contact	Partner System								
Basic Route Code Substitution Standards										
Meta Data Types										
+ 1	+ New × Clear All									

The New MetaData Type dialog box opens, as shown in the following image.

New MetaData T	уре	×
Metadata Type Name	Sample_MData_Type	
Description	test]
	✓ Save × Cancel	

- 3. Specify a name for the new metadata type, which is required, and a brief description (optional).
- 4. Click Save.

Meta Da	leta Data Types								
+ New Clear All									
	Type Name 🌲	Description 🗢	Last User Update 🌲	Last Update 🔺					
	domestic_internal	internal domestic interaction	admin	2019-11-15T19:48:25.763+0000					
	domestic_office		admin	2019-11-15T19:48:40.100+0000					
	Sample_MData_Type	test	admin	2020-06-30T06:09:09.000+0000					
		K ◀ 1 2	▶ H						

The new metadata type is added to the table, as shown in the following image.

5. To edit or delete a metadata type, select the metadata type and click *Edit* or *Remove* from the options menu, as shown in the following image.



Procedure: How to Create a Metadata Node

To create a metadata node:

- 1. On the MetaData Configuration page, click the sub-tab for the object you wish to create the metadata type (for example, Partners).
- 2. Select a metadata type from the Meta Data Types table.

3. Click *New* in the Meta Data Nodes for (*selected metadata type*) table, as shown in the following image.

< Met	aData Configura	ation									វត្តិ	0 🛔
												Inførmatio Builder
artners	Partner Contact	Partner System	Partner System	m Messages	A	dvanced Routes Advanced Route			e Code Substitution Basic Route		ic Routes	
asic Rout	te Code Substitution	Standards	Message Type	Systems	Env	rironments						
Meta Data Types												
+	New × Clear All											
	Type Name 🌲		Description 🌲			Last User U	pdate	• \$	Last	Update 📤		
	domestic_internal		internal domestic in	teraction		admin			2019-11-15T19:48:25.763+0000			
	domestic_office					admin		2019-	11-15T19:48:40	0.100+0	0000	
-	Sample_MData_Type	:	test			admin			2020-06-30T06:09:09.000+0000			
				N 4 1	2	$\mathbb{P} = \mathbb{H}$						
	- No. do - 6 10 10											
Meta Da	ta Nodes for: "Sample	_MData_Type"							-	Delete nede		
+	New × Clear All	ing a selected ta	ble row will display	a pop-up mer		in the actions	s you	can periorin. Add,		Delete Hode		
ID \$	TPA Node 🌲	Data T	ype 🗢	Descripti	escription 🌲			Last User Update 🌲		Last Update		
	K ≪ <mark>1</mark> ⊁ N											

The Add TPA Nodes dialog box opens, as sho	own in the following image.
--	-----------------------------

lease create at leas	t one TPA Node		
TPA Node	Data Type	Description	
location_test	String	~	
	String	~	

4. Specify a name for the TPA node, select an available data type from the drop-down list, and a description (optional).

Note: You can define multiple TPA nodes if required, but you must define at least one.

5. Click Save.

The newly created metadata node displays in the Meta Data Nodes for (*selected metadata type*) table, as shown in the following image.

Meta Da	eta Data Nodes for: "Sample_MData_Type"									
+	Right-clicking a selected table row will display a pop-up menu with the actions you can perform: Add, Edit or Delete node + New * Clear All									
ID \$	TPA Node 🌲	Data Type 🌲	Description 🗘	Last User Update 🌲	Last Update 🌲					
2 1 97	location_test	String		admin	2020-06- 30T06:51:49.000+0000					
	H 4 1 ▶ H									

This metadata node is now available for all partner objects and can be assigned partner specific values.

For more information on partner assignment, see *Assigning Metadata Values* on page 171.

Procedure: How to Delete a Metadata Node

To delete a metadata node, right-click the metadata node you wish to delete in the Meta Data Nodes for (*selected metadata type*) table and select *Delete TPA Node* from the menu, as shown in the following image.

Meta Data Nodes for: "Sample_MData_Type"					
+	Right-clicking a selected table row will display + New Clear All				
ID \$	TPA Node 🌲	Data Type 🌲			
2197	location_test				
		Edit TPA Node			
		Delete TPA Node			

The Delete TPA Node confirmation dialog box opens, as shown in the following image.

Delete TPA Node	×
Do you want to delete metadata node "location_test"? Deleting metadata node, delete all instances of metadata node under all domain	s.
✓ Yes	×No

Click Yes to confirm or No to cancel.

Note: This action deletes all instances of the metadata node for all objects (domains) using this metadata. For example, if you delete this *location_test* metadata node from the Partner object, then it will also delete all the references to this metadata node and its values.

Procedure: How to Edit a Metadata Node

To edit a metadata node, right-click on the metadata node you wish to edit in the Meta Data Nodes for (*selected metadata type*) table and select *Edit TPA Node* from the menu, as shown in the following image.



The Edit TPA	Node dialog	box opens,	as shown	in the	following image.
--------------	-------------	------------	----------	--------	------------------

E	dit TPA Node		×
1			
	Edit TPA Node	will edit all instances of metadata under all domains	
	TPA Node Name	location_test	
	Data Type	String)
	Description		
		Save X Cancel	

Modify the metadata node as required and click Save.

If you have to rename the node, then the new name will affect all object instances referencing the renamed metadata node, as well as any application which might already be using the node. As a result, this option should be used with caution.

Procedure: How to Group Metadata Nodes

When dealing with extensive metadata, it is recommended and useful to group the metadata fields rather than having a list of all the nodes. The grouping is visual only and access to any node within a tree is the same at runtime and does not require tree navigation as the metadata node is being retrieved by name, and should still be unique.

To group metadata nodes:

1. Right-click an existing metadata node and select *New TPA Subnode* from the menu, as shown in the following image.

Meta Da	Meta Data Nodes for: "Sample_MData_Type"					
Right-clicking a selected table row will displa					will display	
ID \$	TPA N	ode ≑			Data Type 🌲	
2197	locatio	n_test	+	Ne	w TPA Subnode	
				Ed	it TPA Node	
			ħ	De	lete TPA Node	

The New TPA Node dialog box opens, as shown in the following image.

New TPA Node		×
TPA Node Name	ack_dir	
Data Type	String	~
Description	Directory to store acknowledgements	
		✓ Save X Cancel

- 2. Specify a name (for example, ack_dir), select an available data type from the drop-down list, and provide a description (optional).
- 3. Click Save.

Meta Data Nodes for: "Sample_MData_Type"			
	Right-clicking a selected table row		
+	+ New Clear All		
ID \$	TPA Node 🌲	Data Type 🌲	
> 2197	location_test	String	

4. Click the right arrow (>) to expand the row.

The new node (ack_dir) appears as a sub-node of the metadata node you created (in this case, *location_test*), as shown in the following image.

Meta Da	leta Data Nodes for: "Sample_MData_Type"					
+	Right-clicking a selected table row will display a pop-up menu with the actions you can perform: Add, Edit or Delete node + New Clear All					
ID \$	TPA Node 🌲	Data Type 🌲	Description 🗢	Last User Update 🌲	Last Update 🌲	
¥ 2197	location_test	String		admin	2020-06- 30T06:51:49.000+0000	
2198 ack_dir		String	Directory to store acknowledgements.	admin	2020-06- 30T07:27:25.000+0000	
			N ≪ 1 → N			

You can add additional nodes or groups of nodes as required.

Assigning Metadata Values

Metadata nodes are managed by the administrator who has access to the MetaData section in the Administration menu. The actual assignment of values to the metadata nodes is done by someone who has access to the specific object and proper edit rights. The user accessing and managing partner information does not require full administration rights.

The following example uses a Partner to demonstrate the process of metadata assignment. The same approach can be followed and used for any other object, such as System, Partner System, Partner Contact, and so on. To assign a value to a specific object, such as Partners, navigate to the corresponding tab (for example, Partners). Select a partner and click *Metadata* from the options menu, as shown in the following image.

≡ artners				
TP Trading Partner Manager				
B Partners	Partners Partner System			
Ø Routes				
Standards	New Import Partner			
☑ Messages	Type 🗢 Name 🗢			
😂 Systems	sun (
Environments				
Administration	Сору			
	& Remove			
	< Metadata			
	🛓 Export			

A metadata management screen opens, providing access to all metadata nodes available for the selected object, as shown in the following image.

unkis Canada: Metadata a				
× Clear All				
TPA Node 🌲	Value 🗢	Data Type 🌲	Description 🗢	
✓ Batching		String	Batching Attributes	
FreqToBatch		String		
Use_Batching		YesNo		
AllowMultipleGroups	Yes	YesNo	Should multiple groups output in a single interchange?	
LastBatchDatetime		String		
AgeThreshold		String		
MaxNumDocs		String		
AccumThreshold		String		

To edit a metadata value, click the corresponding row in the Value column and enter a value in the field.

Once you are done, click Save to save your changes.

After the metadata values have been added to all required nodes, click the *X* icon (Close) in the upper-right corner to exit the screen. The metadata updates are now available to the application runtime.

Adding Data Types

You can add new data types, which can be specified during the configuration of metadata nodes.

To add a data type:

1. Expand *MetaData* in the Administration menu and click *Data Type Configuration*, as shown in the following image.



BR Da	🗜 Data Type Configuration 🏚 😧 🛓						
	Information Builders						
+ N	+ New X Clear All Q Data Type Filter ♦ ✓						
	ID \$	Name 🌩	Regex 🗢	Description 🗢			
•••	1	String	text	Data type string stores any string of letters, numbers, and symbols.			
	2	Integer	number	Data type an integer is a whole number (not a fraction) that can be positive, negative, or zero			
••••	3	Date	date	Data type a date (year, month, day (no time))			
	4	Email	email	Data type an e-mail address			
	6	ipv4 address	$\label{eq:constraint} $$ b(?:(?:25[0-5] 2[0-4] d [01]? d d?)\) 3}(?:25[0-5] 2[0-4] d [01]? d d?)\) $$$	valid ipv4 (network) address			
	7	url or ipv4 address	^(((hps? f.p):\V)?(?:[[\w\-\])+(\[?\.]?)([\w])\[2,4)](?: (?:25[0-5]]2[0-4]\d [01]?\d\d?)\[?\.]?\3](?:25[0- 5]]2[0-4]\d [01]?\d\d?)))*([\\\+=%&_\~?\-]*)\$	either url or ipv4			
	24	SSN	^(?!(000 666 9))\d{3}-(?!00)\d{2}-(?!0000)\d{4}\$ ^(?! (000 666 9))\d{3}(?!00)\d{2}(?!0000)\d{4}\$	000-00-0000 or 000000000			
	25	telephone number	/^\b\d{3}[]?\d{3}[]?\d{4}\b\$/	telephone number			
	26	hex values	^#?([a-f0-9]{6}][a-f0-9]{3})\$	#ffffff for example			
	38	isa01	^00 01 03 03 04 05 06\$	isa01 qualifier			
			₩ 4 1 2 3 4 ▶ ₩				
	Total number of records : 36						

The Data Type Configuration page opens, as shown in the following image.

2. Click *New*, as shown in the following image.

B Data Type Configuration			
+ New	× Clear All		

The New Data Type dialog box opens, as shown in the following image.

New Data Type		×
Name	TrueFalse	
Regex	[T][F]]
Description	True or False Generic Field]
	Save Cancel	

- 3. Specify a name, regex value, and a description (optional) for your new data type.
- 4. Click Save.

The new data type is added to the table, as shown in the following image.

	Data Typ	e Configuration		鐐. 😮 💄				
				Information Builders				
+	New	× Clear All		Q Data Type Filter				
	ID ≑	Name 🗢	Regex 🜩	Description 🗢				
	74	gs06	^(\d{1,9})\$	Next Group Number				
	80	st01	[201 202 203 204 205 206 210 211 212 213 214 215 216	Transaction Set				
	81	st02	[a-zA-Z0-9]{4,9}	4-9 character next number id				
	82	YesNo	[Y N]	Yes or No Generic field				
	83	phone with extension	^[0-9-+\$()]*\$^[0-	phone number with extension				
	84	nindigits`	\d	nine digits				
•••	85	TrueFalse	[T][F]	True or False Generic Field				
	K ◀ 1 2 3 4 🕨 M							
	Total number of records : 37							

5. To edit or delete a data type, click a specific row in the table and select *Edit* or *Remove* from the options menu, as shown in the following image.

85 Tru	eFalse
🖌 Edit	
💼 Remove	



Using iWay Trading Partner Manager Runtime Functions

This section provides a reference for all of the runtime functions that are provided with iWay Trading Partner Manager.

In this chapter:

Runtime Functions

Runtime Functions

iWay Trading Partner Manager runtime functions allows users to retrieve the information from the iWay Trading Partner Manager repository via standard iWay runtime functions. For every iWay Trading Partner Manager runtime function, there is corresponding custom function.

iWay Trading Partner Manager functions can be used as custom functions, as well as runtime functions. Even though this section only describes runtime functions, this information is also applicable for custom functions.

Installation

Before continuing, validate the iSM installation. Runtime functions are installed during the iWay Trading Partner Manager installation (when the iwxtpm.jar file is copied to the etc \manager\extensions directory).

To check if runtime functions are installed properly, navigate to the iSM command prompt and type *funcs*. A list of all the runtime functions, along with iSM runtime functions, is displayed.

🛃 Way Service Maring	er - base						
LEBP (CONSOLO) LEBP (CONSOLO)	Warning, Failed Joak Warning, Cass Joak	Ing estit C lass com ing estit C lass com estimate estimates ing estit C lass com estimates ing estit C lass com estimates ing estit C lass com ing estit C lass com in	101 Jogents Jawry A. Johnson J. Jawry A. Johnson J. Jawr S. Jawr S. Johnson J. Jawr S. Jawa	PRT: Falled loading trickpent: Falled load Trickpent: Falled load SticsAgent: Falled load SticsAgent: Falled load SticsAgent: Falled load SticsAgent: Falled load Repet: Falled loading Agent: Falled loading Repet: Falled loading IstAgent: Falled loading StrAgent: Falled loading Repet: Falled loading StrAgent: Falled loading Repet: Falled Loading Repet	Complexing agents and a second and a second agent agents a second agent agents a second agent agents a second agent ag	Individent: java.is advant identification its.Jadetorlddgent: java is.JaveonAgent: java is.JaveonAgent: java s.OracleAgent: java s.OracleAgent: java pents.reopter: java pents.reopter: java pents.vEGVIDatetog pents.vE	ng Ilegalstatekkoption: Com Bb ad Legalstatekkoption: Com Bb ad Legalstatekkoption: Com Bb Jang, ullegalstatekkoption: Jang, ullegalstatekkoption: Jang, ullegalstatekkoption: Jang, ullegalstatekkoption: alang, ullegalstatekkoption: to load dependencies. Probat referitter: cannot load dependencies. Pr refer: cannot loa
Enter command::							
Enter command::							
Enter command:: ADD BEFORE DIV FILE IDIV IDIV INOPATH PROPERTIES STARTSWITH IPP LIAL Enter command:	ofuncs _AFTER _CEIL _PLATOR _FLATOR _TNT _LCASE _PROPERTY _SUB _TPR _IRLDECODE	ALL _CONCAT _ENCSWITH _FLOOR _ISEDS _LOAP _RAVDOM _SUBSTR _TP3 _URLENCODE	_ANY _COND _ENTITY _ISTRACK _ISTRACK _LENGTH _ROOT _TPA _TPT _XFLAT	_ATTENT _CONTAINS _EVAL _FROMEASE64 _IFROMEASE64 _IFROM _ROUND _TRAN _TRIM _XLOOK	LATTHER LOUNT LEXIST LITSTANP LISPODT MUL SOL LTPAN LITPAN LITANP LONL	_ATTHOREC _DECODE _EXISTS _HASRULEERK _TINELLFORMED _NORMALIZESPACE _SKCNAME _UCASE _JPID _UCASE _JPATH	LBASEG4 DEENTTY FEN JASSCHMAERR TSSML JEW JEW JERG TPH JAQ

Runtime functions include _TPA, _TPAW, _TPID, _TPN, _TPP, _TPR, _TPRB, _TPS, and _TPT, which should be present in the list. The following sections provide details for each runtime function.

Note: iWay Trading Partner Manager runtime functions are overloaded, which means that the same function parameter can take ++ or a value. As a result, use caution when executing these functions.

TPA Function

The TPA function can be used to retrieve data for a domain from the iWay Trading Partner Manager repository. To better understand the TPA function, an understanding of the iWay Trading Partner Manager schema and the relationship between various iWay Trading Partner Manager domains like partner, system, partnersystem, messagetype, and messageformat, is required. Domains are mapped directly to the database table.

- 1. Partner and system are related through partnersystem.
- 2. Partner and message are related through partner <-> partnersystem <-> partnersystemmessages <-> messsagetype.
Businessroute and partner are related through Businessroute <-> businesschannel <->
partner. Since Businesschannel can be incoming and outgoing, businessroute has two
columns idBusinessChannelFrom and idBusinessChannelTo to map the incoming and
outgoing data.

Function Examples

Note that table references in this example can be both in uppercase or lowercase, if the database in use is not case sensitive. If the value into the function call is a string with spaces or special characters, it has to be enclosed into single quotation marks ('). The last value for the function calls indicated as default, represents a value which should be returned in case there is no data available. This section provides some examples for using the TPA function. It is highly recommended to test any function call using the testfuncs tool.

The following statement is the general syntax.

```
_TPA(DomainID, Domain, DomainProperty, 'Default value')
```

where:

DomainID

Is the ID field for the domain.

Domain

Is the Table reference to follow for the field retrieval.

DomainProperty

Is the column name (or field) from which the value should be retrieved.

Default value

Is the default value being returned if no data is found.

Consider the following use cases.

1. To find the partner name based on the known Partner ID (idPartner=2), you can create the following function:

_TPA(2, Partner, 'name', 'default')

In the above expression, you are provided the number 2 as the Partner ID, searching in the *Partner* table, and retrieving the value for *name*, which will return the name for the partner.

2. To find the partner system based on the known PartnerID (idPartner=2), you can create the following function:

_TPA(2,/Partner/PartnerSystem/System,'name','default')

In the above expression, you are provided the number 2 as the Partner ID, creating a relationship between *Partner* and *System* objects through *PartnerSystem*, and retrieving the *name* for the system.

3. To find the contact name based on the known PartnerID (idPartner=2), you can create the following function:

_TPA(2,/Partner/Contact,'contactname','default')

In the above expression, you are provided the number 2 as the Partner ID, searching the *Contact* table associated with the partner, and retrieving the *contactname* value which will return the name of the contact for the partner.

4. To find the metadata value (for example, *ack*) based on the known PartnerID (idPartner=2), you can create the following function:

_TPA(2, Partner, 'ack', 'default')

In the above expression, you are provided the number 2 as the Partner ID, and finding extended metadata attribute *ack*.

5. To find the partner system based on the known Business Route ID (idBusinessRoute=7), you can create the following function:

_TPA(7,/BusinessRoute/BusinessChannelFrom/PartnerSystem,'name','default')

For the outbound context, you must indicate BusinessChannelTo.

In the above expression, you are provided the number 7 as the Business Route ID, and looking for a corresponding *PartnerSystem* which is related by *BusinessChannelFrom* (indicating incoming context).

6. To find the message format name based on the known Business Route ID (idBusinessRoute=7), you can create the following function.

_TPA(7,/BusinessRoute/BusinessChannelFrom/PartnerSystemMessages/ MessageType/MessageFormat,'name','default') In the above expression, you are provided the number 7 as the Business Route ID, and looking to retrieve the Message Format From field associated with the given route. As such, in the above reference, you are searching in the *BusinessRoute*, finding the *BusinessChannelFrom* for a given Business Route ID, then retrieving corresponding *PartnerSystemMessages* value and getting *MessageType* (for example, Invoice), and then based on the *MessageType*, you are searching in the *MessageFormat* domain and finding its name, which is AXAPTA30.

7. To find the metadata value based on the known Business Route ID (idBusinessRoute=7), you can create the following function.

_TPA(7, BusinessRoute, 'primary', 'default')

In the above expression, you are provided the number 7 as the Business Route ID, and retrieving a value for the metadata node *primary*.

8. iWay Trading Partner Manager functions have the ability to take SQL conditions and custom function arguments directly in runtime. These SQL statements are appended directly to the SQL statement prepared for the runtime function. For example:

_TPA('and Description=\'Invoices\'', BusinessRoute, 'Name', 'not found')

In the above expression, you are provided the *BusinessRoute* description of *Invoices* rather than a Business Route ID. As a result, a Business Route Name which has this description will be returned. Internally, the following SQL statement will be formed and executed:

select Name from BusinessRoute where 1=1 and Description='Invoices'

Note that the apostrophe character (') needs to be escaped as that is a special character in the runtime functions. For more information on iWay Functional Language (iFL) syntax, see the *TIBCO iWay*[®] Service Manager Functional Language Reference Guide.

In the event that the values for the TPA function call are retrieved using an SREG (Special Register), then the _CONCAT() function can be used to create the where clause string as shown in the modified example below.

```
_TPA(_CONCAT('and
Description=',SREG(RouteDescription)),BusinessRoute,'Name','not found')
```

where:

SREG(RouteDescription)

Evaluates to 'Invoices'.

9. One of the complex examples of combining multiple functions together is to retrieve metadata values associated with Partner System Message. Given only the Partner Name and Message Name, the application can find a proper metadata field, for example, a Transform which should be applied to the message when it is received on a given Partner System.

The following statement enables the application to process any message type coming from any partner and still apply the proper transformation before sending the message to the outbound processing.

```
_tpa(_CONCAT("partner.idpartner='",SREG(partnerid),"' ;
Messagetype.Name =
'",SREG(MessageType),"'"),"/messagetype/businesschannelfrom/
partnersystem/
partner/partnersystemmessages/BUSINESSCHANNEL","transform",'notfound')
```

Note:

- ❑ The SREG(partnerid) is already available and will evaluate to the Partner ID for the message being received. This can be done as an initial message processing where the TPID() function can be used to retrieve the Partner ID based on the incoming document.
- SREG(MessageType) is already available and will evaluate to the Message Type being processed. This can be done by retrieving or identifying the message type based on the incoming document.

For example, you are given the partner *Sunkis USA*, which has the Partner System *Sunkis_USA*. The processing inbound customized message, *MSG1*, has an associated metadata node transform with the value *MSG_1_USA*, indicating that before processing this message, this canonical transform should be applied.

After SREG(MessageType) is evaluated to MSG1, and SREG(partnerid) is evaluated to 3, you have the following function call:

```
_tpa(_CONCAT("partner.idpartner='",3,"' ; Messagetype.Name =
'",MSG1,"'"),"/messagetype/businesschannelfrom/partnersystem/partner/
partnersystemmessages/BUSINESSCHANNEL","transform",'notfound')
```

Internally, this TPA statement will result in selecting the *transform* metadata value where Partner ID is 3 and Message Name is MSG1. The selection will be done from the BUSINESSCHANNEL table, which is the last table in the table list. The relationship between all of the tables will be formed based on primary and foreign key relationships.

TPAW Function

The TPAW function is used to check a domain code and update it with the passed value if it is found. This function can also be used to increment or decrement the values, which is useful when creating a new control number. The TPAW function works the same as the TPA function with the exception that if a domain code is found, then it is incremented. If the data is not incremented and a default value to return is not specified, then the *TPAW, Data not updated* string is returned. Otherwise, the updated value is returned.

domainId

domain

domainCode

Operator (++ and – or new Domain Value)

Default value

For example:

_TPAW(1,'system','controlnumber','++', Default value)

This example will increment the controlnumber by 1 in case it is found and will return the incremented value. In the event that the incremented value is not a number, then it will throw an exception and will return the exception.

Note: Use caution while passing the values. Passing the wrong values could make the system unstable.

For example:

- Executing _TPAW(1,'system','controlnumber','value1','default value') will update the controlnumber to value1 if systemid = 1 is found.
- Executing _TPAW(1,'system','controlnumber','11','default value') will update the controlnumber to value 11 is systemid = 1 is found.

The TPAW function has the following signature:

_TPAW(domainId, domain, domainCode, Operator, Default value)

TPID Function

The TPID function returns the unique ID for the table based on a column name and the value that is passed. The return value can then be used in conjunction with other runtime functions. This function accepts four parameters and returns a unique table ID:

Domain

- DomainProperty
- DomainValue
- WhereClause

For example:

To retrieve the Partner ID, based on a known Partner Name, you can use the following function:

_TPID(Partner, 'Name', 'Sunkis USA')

The Partner ID for the Partner with the name Sunkis USA, is returned.

□ To retrieve the Partner ID, based on a known Partner metadata value, users can use the following function:

_TPID(Partner, 'ReceiverID', '2002452')

The Partner ID for the partner with the metadata field ReceiverID, equivalent to 2002452, is returned.

The TPID function call can also be used in conjunction with other calls that follow the standard of the iWay Functional Language.

For example, to retrieve the ChannelTarget for the system, where the System Name is Canada System, you can use the following function:

TPA(_TPID(System, 'Name', 'CanadaSystem'), System, ChannelTarget, 'default')

The following list shows the results:

- □ _TPID(System, 'Name', 'CanadaSystem') evaluates to 3 as the System ID.
- □ _TPA(3,System,ChannelTarget,'default') evaluates to TPM.Sunkis.Canada.

TPN Function

The TPN runtime function returns a trading partner name that is defined in a particular domain. This function accepts two parameters:

domain (for example, DUNS or SAP)

domainvalue (for example, DUNS ID or SAP Value)

For example executing _TPN('403815327','DUNS') will return a trading partner name where domain code = 'DUNS' and Domain ID = '403815327'. Running this function will execute the following underlying SQL:

SELECT DISTINCT Partner.Name FROM Partner, BusinessChannel, BusinessRoute, PartnerCodeSub WHERE Partner.idPartner = BusinessChannel.partner_idpartner

```
AND ((BusinessChannel.idBusinessChannel =
BusinessRoute.idBusinessChannelFrom AND PartnerCodeSub.FromDomain = 'DUNS'
```

```
AND PartnerCodeSub.FromCode = 403815327) OR
((BusinessChannel.idBusinessChannel = BusinessRoute.idBusinessChannelTo
```

```
AND PartnerCodeSub.ToDomain = 'DUNS' AND PartnerCodeSub.ToCode = 403815327)))
```

```
AND BusinessRoute.idBusinessRoute =
PartnerCodeSub.BusinessRoute_idTradeRoute
```

Note that the TPN value is acquired from the incoming businesschannel, as well as the outgoing businesschannel.

The usage for the TPN function is:

_TPN(Domain, Domain Value)

TPP Function

The TPP function is used to access any attribute (column) from a partner table (domain). It accepts four parameters:

- PartnerName
- AttributeName
- Default value for no data
- Default Value

The fourth value is currently the default value that is returned. However, it is reserved for future use.

For example:

_TPP('walmart','buname','Default','No Data Found')

This example returns the attribute buname from a partner where partnername is walmart. In case 'walmart' is found, but buname attribute is empty, 'Default' is returned. In the event that 'walmart' is not found, then the TPP function will return the "NO_DATA_FOUND" string.

The TPP function has the following signature:

_TPP(PartnerName, AttributeName, Default Value for no data, Default Value)

TPR Function

The TPR function returns trading partner routes for a given message type and is useful in determining where to send the messages based on the message type, domain, or code. The TPR function accepts five parameters:

- messagetype
- fromDomain
- fromCode
- toDomain
- toCode

Apart from the messagetype parameter, passing empty values to the TPR function will cause this function to ignore that value and create a result set based on the values that are passed. The messagetype parameter becomes the mandatory parameter and the remaining parameters are all optional. The TPR function can return multiple values and data is returned in XML format.

For example:

```
Executing _TPR('ProductCatalogUpdate',,'5790000243433', ,
```

```
'5790001669133') returns:
```

```
<TPR><FROM><DOMAIN></DOMAIN><CODE>5790000243433</CODE></FROM><TO><DOMAIN></DOMAIN><CODE>5790001669133</CODE><MESSAGETYPE>ProductCatalogUpdat
e</MESSAGETYPE><ROUTEID>2103</ROUTEID><SYSTEMID>1472</SYSTEMID></TO></
TPR>
```

```
Executing _TPR('DemandForecast','ZVMI','DCR_010', 'ZVMI',
'02200650')returns:
```

<TPR>

<proms="compairs-zvmi"></proms="compairs-zvmi"></proms="compairs-zvmi"></proms="compairs-zvmi"></proms="compairs-zvmi"></proms="compairs-zvmi"></proms="compairs-zvmi<//proms="compairs-zvmi"></proms="compairs-zvmi"></proms="compairs-zvmi<//proms="compairs-zvmi"></proms="compairs-zvmi</proms="compairs-zvmi"></proms="compairs-zvmi</proms="compairs-zvmi"></proms="compairs-zvmi</proms="compairs-zvmi"></proms="compairs-zvmi</proms="compairs-zvmi"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs="compairs-zvmi</provs"></provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</provs</pro>

```
Executing _TPR('Invoice',,'5790000243433',, '5790001669133') returns:
```

```
<TPR><FROM><DOMAIN></DOMAIN><CODE>5790000243433</CODE></FROM><TO><DOMAIN></DOMAIN><CODE>5790001669133</CODE><MESSAGETYPE>Invoice</MESSAGETYPE><ROUTEID>2100</ROUTEID><SYSTEMID>1472</SYSTEMID></TO></TPR>
```

It is expected that the process flow calling the TPR function will take the output XML and iterate over it to get the correct ROUTEID and send the messages accordingly to these ROUTEID instances.

The TPR function has the following signature:

_TPR(messagetype, fromDomain, fromCode, toDomain ,toCode)

TPRB Function

The TPRB function returns trading partner routes for a given route name and is useful in determining where to send the routes based on the route name or partner ID. The TPRB function accepts three parameters:

routename

- frompartnerid
- topartnerid

The TPRB function has the following signature:

_TPRB(routename, frompartnerid, topartnerid)

Apart from the routename parameter, passing empty values to the TPRB function will cause this function to ignore that value and create a result set based on the values that are passed. The routename parameter becomes the mandatory parameter and the remaining parameters are all optional. The TPRB function can return multiple values and data is returned in XML format. The following is sample XML output that is returned by a query that uses the TPRB function.

```
<TPRB>

<BasicRoute>

<id>l2345</id>

<name>route name l</name>

<frompartnerid>XX</frompartnerid>

<topartnerid>YY<topartnerid>

</BasicRoute>

<BasicRoute>

<id>23456</id>

<name>route name 2</name>

<frompartnerid>XX</frompartnerid>

<topartnerid>ZZ<topartnerid>

</TPRB>
```

It is expected that the process flow calling the TPRB function will take the output XML and iterate over it to get the correct ROUTEID and send the messages accordingly to these ROUTEID instances.

TPS Function

The TPS function returns substitution codes for the given BusinessRoute and PartnerCodeSub. Code substitutions in iWay Trading Partner Manager are related to translations at the partnersytem level.

The TPS function accepts six parameters. The first parameter (SubstitionValueName) should be one of the following values to determine which substitution value to return:

- 1. SUBSTFROMCODE: Pass this in case substitution from code is needed.
- 2. SUBSTFROMDOMAIN: Pass this in case substitution from domain is needed.
- 3. SUBSTTOCODE: Pass this in case substitution to code is needed.
- 4. SUBSTTODOMAIN: Pass this in case substitution to domain is needed.

The remaining parameters are:

- RoutelD
- FromDomain
- FromCode
- ToDomain
- ToCode

For example:

```
_TPS('SUBSTFROMCODE',1,'DUNS',403815327,'Buyer',0000100075) returns the substituted From Code where routeid = 1 and fromdomain = 'DUNS' and fromcode = '403815327' and toDomain = 'Buyer' and toCode = '0000100075'
```

Substitution is done based on the lookup performed in the PartnerCodeSub table.

In the event that no substitution is found, then the "NO_DATA_FOUND" string is returned.

The TPS function has the following signature:

_TPS(SubstitionValueName, RouteID, FromDomain, FromCode, ToDomain, ToCode)

TPT Function

The TPT runtime function provides a mechanism for retrieving code substitution values from one message format to another. This should not be confused with Partner Code substitutions that are obtained using the TPS function. TPT code substitutions are purely for message level translations (for example, the MeasurementValue field for Partner A is KG while Partner B expects LBS).

The TPT function accepts four parameters:

- formatname
- formatfrom
- formatto
- code

The TPT function has the following signature:

_TPT(formatname,formatfrom,formatto,code)

If a substitution is found the function returns the substituted value, else it returns the passed value.

The following SQL statement is run within the application function logic:

```
select SubstCode from codesubstitution where name=#formatname# and
StandardFrom=(select idStandard from standard where Name = #formatFrom# )
and StandardTo=(select idStandard from standard where Name = #formatTo#
) and Code=#code#
```

In addition, the application function logic checks if substcode is null or not. If substcode is null, then #code# is returned.

Debugging Runtime Functions

Debugging iWay Trading Partner Manager runtime functions can be difficult if you are debugging directly from the process flow or other iSM components. As a best practice, it is recommended to first use runtime functions directly from the iSM command prompt. This requires access to the iSM command prompt. If iSM is running on a remote machine, then remote access to that machine is also required.

Procedure: How to Debug Runtime Functions

To debug runtime functions:

- 1. If iSM is running as a service, stop the service.
- 2. Open a new terminal window (for example, a DOS prompt) and navigate to the *iwayhome* directory.

For iSM 8.x installations, the *iwayhome* directory must contain iway8.cmd or ./iway8.sh, depending on which platform you are using.

For iSM 7.x installations, the *iwayhome* directory must contain iway7.cmd or ./iway7.sh, depending on which platform you are using.

3. Start iSM in the terminal window using iway8.cmd or ./iway8.sh (for iSM 8.x). For iSM 7.x, use iway7.cmd or ./iway7.sh.

DEBUG (W.nBAMListener.33) Run NHTTP Worker DEEP (nBAMListener) starting W.nBAMListener.34 DEBUG (W.nBAMListener.34) Run NHTTP Worker DEEP (nBAMListener) starting W.nBAMListener.35 DEBUG (W.nBAMListener.35) Run NHTTP Worker DEEP (nBAMListener) starting W.nBAMListener.37 DEBUG (W.nBAMListener.37) Run NHTTP Worker DEEP (nBAMListener) starting W.nBAMListener.37 DEBUG (W.nBAMListener.38) Run NHTTP Worker DEEP (nBAMListener) starting W.nBAMListener.38 DEBUG (W.nBAMListener.39) Run NHTTP Worker DEEP (nBAMListener) starting W.nBAMListener.39 DEBUG (W.nBAMListener.39) Run NHTTP Worker DEEP (nBAMListener) starting W.nBAMListener.40 DEBUG (W.nBAMListener.40) Run NHTTP Worker Enter command:>DEBUG (console) CICSEventAdapter checking persistance DEBUG (console) N0 persistance services found Enter command:> Enter command:> Enter command:>

Once started, the terminal window displays the following prompt:

Note: If the Enter command: > prompt does not display, press *Enter* after iSM is started.

4. Type *funcs* to check if all the runtime functions are installed properly, as shown in the following image.

Enter command:>funcs				
_add	_after	_attcnt	_atthdr	_atthdric
base64	before	_ceil	_concat	_cond
contains	_count	_decode64	_deentity	_div
_eavg	_eclean	_ecount	_einit	_ekeys
elast	_ema×	_emin	_encode64	_encr
endswith	_entity	_esum	_etap	_eupdate
_eval	_exists	_expose	_file	_fileexists
_flatof	_floor	_fmtint	_frombase64	_fstat
_ftstamp	_getprin	_hasrole	_hasruleerr	_hasschemaerr
_idiv	_if	_indexof	_inflate	_int
_iseos	_iserror	_isflat	_isroot	_iswellformed
_is×ml	_iwexists	_iwxpath	_jdbc	_lcase
_ldap	_length	_lock	_ma×	_md 5
_min	_mod	_mu1	_normalizespace	_now
_pad	_printable	_property	_qva1	_random
_regex	_replace	_resource	_root	_round
_shal	_sq]	_srcname	_sreg	_startswith
_sub	_substr	_token	_tpa	_tpah
_tpaw	_tpid_	_tpn	_tpp	_tpr
_tps	_tpsql	_tpt	_tp×mlsql	_trim
_tstamp	_ucase	_ung	_url	_urldecode
_urlencode	_urlparse	_uuid	_xflat	_xm1
_xpath	_xpath2			
Enter command:>				

5. Type SET DEEP on at the command prompt to enable the DEEP debug level and to view the complete runtime information.

Note: XML files are required to execute runtime functions.

6. Create a simple XML file using the following format:

```
<?xml version="1.0" encoding="UTF-8"?><noop/>
located at C:\test.xml
```

7. Type the following command to start the test tool:

tool testfuncs C:\test.xml

The *funcs* - > prompt displays, which allows you to execute iWay Trading Partner Manager runtime functions.

🔏 Command Prompt	- iway60.cmd	l base		
Enter comman	id:>			
Enter comman	d:>			
Enter comman	id:>			
Enter comman	id:>			
Enter comman	d:>			
Enter comman	d:>tool	testfuncs	C:\test.	×ml
<noop></noop> funcs->				

8. Enter the runtime function you want to check and press *Enter*.

For example:

_tpid("PARTNER","ftpport","90","geq")

This will produce output with the last line reading *<tpids><tpid>1</tpid><tpid>2</tpid><tpid>3</tpid></tpid>>, as shown in the following image.*

<noop></noop>
funcs->_tpid("PARTNER", "ftpport", "90", "geq")
<superroot></superroot>
<concat></concat>
<tpid></tpid>
<x-literal>PARTNER</x-literal>
<x-literal>ftpport</x-literal>
<x-literal>90</x-literal>
<x-literal>geq</x-literal>
<x-literal> </x-literal>
DEEP (bootstrap) main: [TPMBusinessService - doTPID()] - ##### Running doTPID #####
<pre>DEEP (bootstrap) main: [TraderDAOImp] - checkColumnExist()] - ##### checking if column :ftpport exist in the table :PARTNER</pre>
DEEP (bootstrap) main: [DataSourceUtils - doGetConnection()] - Fetching JDBC Connection from DataSource
DEEP (bootstrap) main: [DataSourceUtils - doReleaseConnection()] - Returning JDBC Connection to DataSource
DEEP (bootstrap) main: [TPMBusinessService - doTPID()] - >>>> Column doesnot exist
DEEP (bootstrap) main: [SqlMapClientTemplate - execute()] - Opened SqlMapSession [com.ibatis.sqlmap.engine.impl.SqlMapSessionImpl@f9cbe5] for
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {conn-100000} Connection
DEEP (bootstrap) main: [DataSourceUtils - doGetConnection()] - Fetching JDBC Connection from DataSource
DEEP (bootstrap) main: [SqlMapClientTemplate - execute()] - Obtained JDBC Connection [jdbc:mysql://192.168.1.165/tpm2, UserName=root@vereshib
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {conn-100000} Preparing Statement: select DomainId from TPAVALUE
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {pstm-100001} Executing Statement: select DomainId from TPAVALUE
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {pstm-100001} Parameters: [PARTNER, ftpport, 90]
DEEP (bootstrap) main: [JakartaCommonsLoggingImpl - debug()] - {pstm-100001} Types: [java.lang.String, java.lang.String, java.lang.Integer]
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {rset-100002} ResultSet
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {rset-100002} Header: [DomainId]
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {rset-100002} Result: [1]
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {rset-100002} Result: [2]
DEEP (bootstrap) main: [JakartaCommonsLoggingImp] - debug()] - {rset-100002} Result: [3]
DEEP (bootstrap) main: [DataSourceUtils - doReleaseConnection()] - Returning JDBC Connection to DataSource
DEEP (bootstrap) main: [TPMBusinessService - doTPID()] - >>>> data :: [1, 2, 3]
<tpids><tpid>1</tpid><tpid>2</tpid><tpid>3</tpid></tpids>

Note: The SQL statement is executed with the runtime function along with the other debug statements.



iWay Trading Partner Manager REST API Reference

This section describes the usage of iWay Trading Partner Manager Representational state transfer (REST) API.

In this appendix:

- REST API Overview
- Retrieving a Partner List

REST API Overview

Representational state transfer (REST) is a software architectural style that defines a set of constraints to be used for creating Web services. Web services that conform to the REST architectural style, called RESTful Web services, provide interoperability between computer systems on the Internet. RESTful Web services allow the requesting systems to access and manipulate textual representations of Web resources by using a uniform and predefined set of stateless operations.

iWay Trading Partner Manager exposes the REST API, which can be used to easily create custom web pages or display data in existing web pages. The REST API helps to perform the most common iWay Trading Partner Manager operations available through the iWay Trading Partner Manager user interface. That means the same transaction, pooling, and caching are available and can be using in conjunction with the user interface. This appendix covers the usage of the iWay Trading Partner Manager REST API.

Accessing the REST API

iWay Trading Partner Manager includes a wide selection of REST API calls that can be accessed through the Swagger UI.

After you have logged in to iWay Trading Partner Manager, click the *TPM Console REST API* icon, which is located in the upper-right corner of the user interface, as shown in the following image.



The TPM Console REST API opens in a new browser tab, as shown in the following image.

TP Trading Partner Manager 🛛 🗴 🚯 Swa	igger UI X	+			— C]	×
\leftrightarrow \rightarrow C (i) Not secure informa-q8	t67iu:8092/swagger-ui.html			\$		θ	0
🕀 swagger	Select a spec	default				~	
TPM Console REE [Base URL: informa-g8t671u:8092/] http://informa-g8t671u:8092/v2/api-docs TPM Console REST API Documentatio	ST API 🏧						
						_	1
				Authoria	ze 🍎		
business-route-end-point	Business Route End Point				>		
contact-end-point Contact End Point			>				
environment-end-point	vironment End Point				>		
ldap-role-mapper-end-po	int Ldap Role Mapper End	l Point			>		
management-endpoint Ma	magement Endpoint				>		-

Swagger offers the ability for each REST API call to be test run from this console and also displays sample output.



Available REST API Calls

You can access and test the following iWay Trading Partner Manager REST API calls through the Swagger UI:

- Business Route End Point (business-route-end-point)
- Contact End Point (*contact-end-point*)
- Environment End Point (environment-end-point)
- Ldap Role Mapper End Point (Idap-role-mapper-end-point)
- □ Management Endpoint (management-endpoint)
- □ Message Format End Point (*message-format-end-point*)
- Message Type End Point (message-type-end-point)
- □ Meta Data End Point (*meta-data-end-point*)
- □ Partner End Point (*partner-end-point*)
- Partner System End Point (*partner-system-end-point*)

- Partner System Messages End Point (*partner-system-messages-end-point*)
- **Role End Point (***role-end-point***)**
- Route Code Sub End Point (*route-code-sub-end-point*)
- Route Contacts End Point (*route-contacts-end-point*)
- Standard Code Substitution End Point (*standard-code-substitution-end-point*)
- Standard End Point (*standard-end-point*)
- System End Point (system-end-point)
- **T**pm Data Type End Point (*tpm-data-type-end-point*)
- **I** Tpm Domain Sub Type End Point (*tpm-domain-sub-type-end-point*)
- User End Point (*user-end-point*)

Retrieving a Partner List

URL:

http://servername:8089/do?

The input parameters are listed in the following table:

Parameters	Туре	Mandatory	Value	Comments
action	Constant	Y	partner	
subaction	Constant	Υ	getpartner	

Parameters	Туре	Mandatory	Value	Comments
partnerid	Int	Ν		Passing partnerid will return just one Partner being partnerid is unique. This field can be used when a specific partner is needed for editing purposes.
partnername	String	N		The search performed is identical to an SQL search.

Note: Either partnerid or partnername should be passed, otherwise all the partners will be returned.

An example of input would be:

Туре	Input
action	partner
partnerid	7
subaction	getpartner

The responses are listed in the following table:

Response	Туре
buname	String
city	String

Response	Туре
country	String
idparent	String
orgaddress1	String
Postcode	String
Province	String
Sitecode	String
State	String
updatedt	SQL Date format
updateuser	

The following syntax is a sample JSON response:

```
[{"buname":"TestinPartner7","orgaddress2":"west7","orgaddress"
:"west6","province":null,"updatedt":"2009-08-13
23:28:40.0","idparent":null,"idpartner":7,"country":"usa","postcode":"16
02","sitecode":"Tes7","state":"nc","name":"Tsesting7_Edit","city":"eroe"
"updateuser":"admin"}]
```