iWay Software How-to's



Loading and Publishing an iWay Integration Application Using iWay Integration Tools

This topic describes how to load and publish an iWay Integration Application (iIA) using iWay Integration Tools (iIT). Specifically, this how-to will walk you through the following e-Business usage example:

- 1. Importing a preconfigured EDI X12 workspace.
- 2. Creating a template in iIT.
- 3. Importing an Ebix.
- 4. Publishing the iIA.
- 5. Deploying the published iIA from the iSM Administration Console.

There are also several tips and usage considerations included at the end of this document.

iWay Integration Applications (iIAs) provide for application packaging and migration across various deployment environments (for example, Development, QA, Production, and so on). This allows you to ensure the integrity of an application during its entire life cycle.

Key features and advantages that are provided through ilAs include:

- Usage of standard iWay Service Manager (iSM) components to provide a seamless integration with existing application life cycles.
- Eliminates the need for most custom integration code.
- Simplifies the overall process of designing and maintaining iIAs through a user-friendly GUI interface within iIT and the iSM Administration Console.
- Rapid deployment of ilAs into key environments (for example, Development, QA, Production, and so on).

Prerequisites

Before continuing, you must download the *X12_usr_samples.zip* file containing EDI X12 user sample workspace from the Information Builders Technical Support Center:

https://techsupport.informationbuilders.com

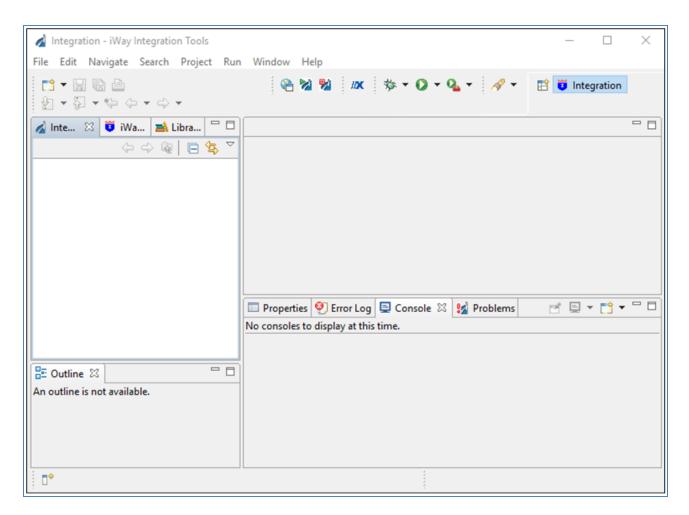
The X12_usr_samples.zip file contains the following files:

- X12_Accelerator.zip
- X12_usr_samples_iIT_workspace.zip

Importing a Preconfigured EDI X12 Workspace

This section describes how to import a preconfigured EDI X12 workspace into iWay Integration Tools.

1. Open iWay Integration Tools (iIT).



2. Right-click anywhere inside the Integration Explorer tab and select *Import...* from the context menu, as shown in the following image.

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	Duplicate	
×	Delete	
220	Import	
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An outli	ne is not available.	
•		

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

🔬 Import		×
Select Choose import source.	Ľ	5
Select an import source:		
type filter text		
 General Archive File Existing Projects into Workspace File System Preferences iWay Integration iWay Integration iNatell iWay Integration Waven Plug-in Development Run/Debug Team XML 		
O < Back Next > Finish	Cance	ł

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

The Import Projects pane opens.

4. Click *Select archive file* and then click *Browse*.

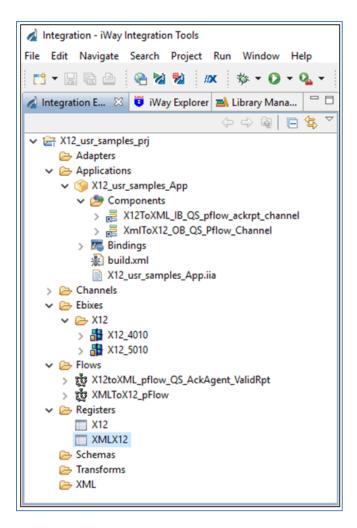
The Select archive containing the projects to import pane opens.

5. Select the X12_usr_samples_iIT_workspace.zip file and click Open.

You are returned to the Import Projects pane.

6. Click Finish.

The EDI X12 user samples are loaded into your iIT workspace. The imported workspace contains an iIA (called *X12_usr_samples_App*), which includes two channels in order to process inbound and outbound EDI X12 message types.



Creating a Template in iIT

A template in iIT refers to the runtime configuration that is configured and associated with an iIA.

The deployment of preconfigured template in iIT is the equivalent of configuring the *Server* and *Tools* sections in the iSM Administration Console for a deployed iIA. Templates may contain generic settings and one template can be deployed for different iIAs.

Note: Creating a template using iIT is supported in iIT Version 7.0.6 and higher.

1. Right-click anywhere inside the Integration Explorer tab, select *New* and then click *Deployment Template* from the context menu, as shown in the following image.

🔬 Integra	🔬 Integration - iWay Integration Tools					
File Edit	File Edit Navigate Search Project Run Window Help					
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🔬 Integra	tion E 🛛 🧵 iWay Explorer 🛋 Lit	orary l	Mana 🗖 🗖			
		÷ 6				
¥ 8- 144	New >		Integration Project			
\ \	Go Into	2	Project			
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i i i i i i i i i i i i i i i i i i i	Paste	8	Channel			
	Duplicate	ŵ	Process Flow			
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4	Export	C2	Example			
1	Refresh		Other Ctrl+N			
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The Template Object dialog opens, as shown in the following image.

🔌 Template Object		_		×			
Deployment Template General Properties							
Please choose a nam	ne and location for this new Deployment Template	e.					
Project Folder	/X12_usr_samples_prj/Templates		Bro	owse			
Name	X12						
Description				~			
Target Server Version							
Target Server version				*			
	Install additional Target Server Version						
	Create in current folder						
?	Finish		Canc	el			

- 2. Type a name for the new template in the Name field (for example, *X12*) and click *Finish*.
- 3. To demonstrate how templates can be configured with default values, click *Log Settings* and then click the *on/off* check box, as shown in the following image.

Deployment Template Builde	er	
	Hain Logging @ On/off Logfiles Location ☆ ☆ @ Iog Browse Time Zone ☆ ☆ @ GMT ✓ Logfile Size Limit ☆ ☆ @	
Master-Details		*
Widster-Details		

This setting indicates that logging will be enabled for every published iIA that is associated with this template.

4. Right-click the template in the Integration Explorer tab (for example, *X12*), select *Integration Tools* from the context menu and then click *Build*, as shown in the following image.

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An outline is r		Run As	>		No consoles to	display at this ti
		Debug As	>			
		Team	>			
		Compare With	>			
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		Integration Tools	>		Build	
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[□ ◆]	x12_u	sr_samples_prj/Tem	plates/>		Deploy	Ctrl+l, D
					Build	

This process builds the template.

5. Right-click the template in the Integration Explorer tab (for example, *X12*), select *Integration Tools* from the context menu and then click *Publish*, as shown in the following image.

À	Integra	ation - X12_u	usr_samples_prj/App	plication	ns/X12	2_usr_sample	es_App.iab	/X12_usr_	sampl
File	Edit	Navigate	Search Project	Run	Wind	ow Help			
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		X12 X12 Transforms			_	Build			ļ
<		mansrorms	2	>	C	omponents	Process B	lusiness Se	ervices

This process publishes the template to the runtime server.

6. Go to the iSM Administration Console and click *Management*, as shown in the following image.

iWay Service Man Server Registry Deplo	ager yments Tools		Manag	gement base	♥ Restart Lie
Application Management Deployments	Templates Template creation and management. Te deployments.	mplate - a us	er defined server	r configuration profile	to support develo
Applications	Name	Actions	Description]	
Templates	File	💿 🖫 🗙			
Events	Log	 Image: Image: Ima			
Server Management	SFTP_Template	💿 🗔 🗙			
Servers	Template Restaurant Test	💿 頃 🗙			
Users	X12	Image: A marked and and and a marked and			
Server Roles	trac dos main firewall monitor dev	Image: Second			
Test Servers		S 🗥 🔶			
Remote Servers	New Import				

Notice that the new X12 template you built and published using iIT is listed under the Templates section. This template is now available to be associated with a published iIA and ready to be deployed.

Importing an Ebix

This section describes how to import an Ebix and associate it with a channel.

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

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

🔬 Import	—	
Select		
		Ľ9
Select an import source:		
type filter text		
🗸 🧁 General		^
👰 Archive File		
😭 Existing Projects into Workspace		
🦳 File System		
Preferences		
> 🧽 iWay Integration		
> 🔁 CVS		
V 🔁 iWay Integration		
Ebix		
f(.) IFL Expression		
📩 Process Flow		
i Schema Set		
Transform		~ L
C F2. Maylen		
< Back Next > Finish	1	Cancel

2. Expand the *iWay Integration* folder, select *Ebix*, and then click *Next*.

The General Properties Page dialog opens.

3. Click the ellipsis button (...) to the right of the Import field.

The Open dialog is displayed, as shown in the following image.

🔬 Import		– 🗆 X	-			
General Properties Pa	iqe					
8 The name field is require	2					
Project Folder /X12_	_usr_samples_prj/Ebixes	Browse		_		
Import						
Name	🧳 Open					×
Description		erything > ISM_Installs > iSM706_installs	s > ebix > X12 ebixs	v ē	Search X12 ebixs	م
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	Organize 🔻 New folde	^				. ?
	💻 This PC 🔷 🔷	Name	Date modified	Туре	Size	
	E Desktop	X12_2001.ebx	7/1/2016 1:26 PM	EBX File	797 KB	
	Documents	💐 X12_2002.ebx	7/1/2016 1:26 PM	EBX File	937 KB	
	Downloads	💐 X12_2003.ebx	7/1/2016 1:26 PM	EBX File	993 KB	
	Music	X12_2040.ebx	7/1/2016 1:27 PM	EBX File	1,656 KB	
	-	X12_3010.ebx	7/1/2016 1:27 PM	EBX File	2,234 KB	
	Pictures	X12_3010VICS.ebx	7/1/2016 1:27 PM	EBX File	350 KB	
	Videos	🔍 X12_3020.ebx	7/1/2016 1:27 PM	EBX File	5,084 KB	
Target Server Version 7.0.6	🏪 Local Disk (C:)	X12_3020VICS.ebx	7/1/2016 1:27 PM	EBX File	409 KB	
Insta	RECOVERY (E:)	🌉 X12_3030.ebx	7/1/2016 1:27 PM	EBX File	9,079 KB	
	BACKUP (F:)	🌉 X12_3040.ebx	7/1/2016 1:27 PM	EBX File	11,633 KB	
_		X12_3040UCS.ebx	7/1/2016 1:27 PM	EBX File	1,649 KB	
	css (\\ibiprdc) (l:	X12_3040VICS.ebx	7/1/2016 1:27 PM	EBX File	2,125 KB	
		🔍 X12_3050.ebx	7/1/2016 1:27 PM	EBX File	15,545 KB	
	🛖 ibi (\\ibiprda) (J:	X12_3050VICS.ebx	7/1/2016 1:27 PM	EBX File	2,217 KB	
?	🛖 cor-iway-mae (\ 🗸	💐 X12_3060.ebx	7/1/2016 1:28 PM	EBX File	19,206 KB	
	File na	ame: X12_2040.ebx		~	Ebix File (*.ebx)	\sim
					Open Can	ncel

4. Select the specific Ebix file (for example, *X12_2040.ebx*) that you want to import and click *Open*.

You are returned to the General Properties Page dialog, as shown in the following image.

🔬 Import			_		×
General Properti					
Please enter a name	and description for this	imported eb	ix.		
Project Folder	/X12_usr_samples_prj/	Fhixes		Bro	wse
	//ric_doi_sampics_pij/	LUNCU			
Import	C:\Users\GF10566\Des	ktop\Everyth	ing\ISM_Installs\i	iSM706_inst	a
Name	X12_2040				
Description					~
					~
Target Server Version	7.0.6				\checkmark
	Install additional Target	Server Versio	<u>on</u>		
	Create in current fol	der			
2	< Back N	lext >	Finish	Cance	-1
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5. Click Next.

The Ebix Entries dialog opens, as shown in the following image.

🔬 Import	– 🗆 X						
Ebix Entries							
Select ebix version to view available ebix entries.							
	Transform ebix are specially designed archive files that contain ebix entries. Ebix entry represents transform configuration and dependencies used by iWay transform engine.						
Import as System Ebix							
Ebix	Ebix Entries						
X12_2040	A 810						
2040	819						
	□ 日本 820 □ 日本 821						
	822						
	823						
	B 830						
	832						
	840 843						
	844						
	845						
Description:							
Entry: 820 Run Time Mode: N/A	^						
Description:							
	*						
(?) < Back Ne	ext > Finish Cancel						
- Duck He	Cancer						

- 6. Select the X12 message type to be imported or select the *Import as System Ebix* check box to load all of the message types available in the X12 version you are working with (for example, *2040*).
- 7. Click Finish.

Your Ebix must now be associated to a channel in order to validate inbound and outbound documents during runtime based on pre-built X12 data dictionaries.

8. In the Integration Explorer tab, expand the *Channels* folder and double-click on a channel (for example, *X12ToXML_IB_QS_pflow_ackrpt_channel*).

Channel Builder opens, as shown in the following image.

Integration - X12_usr_samples_prj/Channels/X1		channel/X12ToXML_IB	_QS_pflow_ackrpt_ch	nannel.iwichannel - iWay Inte	egration Tools	_	
File Edit Navigate Search Project Run W		*1 4 5				-	
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al Integr 🛛 😈 iWay 🛋 Librar 🖓 🗖	# X12_2040.2040.820 🛞 X12_usr_	samples_App.iab	j ≘ X12ToXML_IB_Q	$S_pflow_ackrpt_channel times$			
·····	Channel Builder						
X12_usr_samples_prj Adapters	X12ToXML_IB_QS_pflow_a	X12ToXML IB Q	S_pflow_ackrpt_cha	nnel			i 🙆
Applications	ckrpt_channel				G (Special Registers) to define des	tination paths .	
ST12_usr_samples_App			ed to this channel be		o (special negisters) to define des	cination parts i	LUIALU
🤔 Components 7 Bindings		Tick the check-b	ox below to enable o	or disable dynamic routing fo	or this channel.		
lid.xml	file listener:	🗹 Dynamic Rou	ting				
X12_usr_samples_App.iia	🔯 preparse 📕	Manage channe	dependencies such	as Ebixes and Registers: Plea	ase note a resource marked "attacl	hed"	
Channels Channels C→ Emitters	route: X12tc		packaged within this				
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🗁 Listeners	🔆 emitter:	X12	n/a	register	/X12_usr_samples_prj/Reg	isters/X12	-
Cutlets		X12_4010	yes	ebix	/X12_usr_samples_prj/Ebix		88
➢ Preparsers ➢ Routes		X12_5010	yes	ebix	/X12_usr_samples_prj/Ebix	(es/X12/X1	Û
X12ToXML_IB_QS_pflow_ackrpt_						_	
XmIToX12_OB_QS_Pflow_Channel				Resource Selection	— 🗆	×	
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Flows X12toXML_pflow_QS_AckAgent_	< >			🔍 X12_2			
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🗄 Outline 🛛 🗖 🗖	🔲 Properties 🥙 Error Log 📮 Conso	le 🖾 🔛 Problems				- E -	r 📑 🔻 🗖 🗖
An outline is not available.	No consoles to display at this time.			_			
Selected Object: Channel X12ToXML	IR OS nflow ackrnt channel					_	
Selected object channel X1210XML	is_co_prov_accipc_cranici		_	?	OK Cancel		

9. Click on the selected channel that has now opened in Channel Builder and associate the Ebix that you imported.

Publishing the iIA

This section describes how to publish the iIA to the iSM design time registry using iIT.

1. Right-click the iIA that you want to publish (for example, *X12_usr_samples_App*), select *Integration Tools* from the context menu, and then click *Publish*, as shown in the following image.

 Integration - X12_usr_samp File Edit Navigate Search 			X12_usr_sam		/X12_usr_s	samples_Ap	p.iab
		· · ·		• 8		• 🖗 • 📢	• 🗧
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 Adapters Applications 			Name		Туре	Auto S	Loc
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 ※ build.xml X12_usr_sam > > Channels > > Ebixes > > X12_ > X12_ X12_2040 > X12_4010 > X12_5010 Flows 		Open With Copy Paste Duplicate Delete Move Rename	>				
> 럟聲 X12toXML_pflov > 컎량 XMLToX12_pFlov ✔ @ Registers		Import Export Refresh					
 ☑ XMLX12 ➢ Schemas ✓ ➢ Templates ✓ ➢ X12 ☑ X12.ita ➢ Transforms 		Validate Run As Debug As Team Compare Wit	> > >	s Process E	lusiness Se	ervices Libr	aries
E Outline ⊠		Replace With Integration To	ols >	s 📀 Error Publis		Console 🔀 Ctrl+l, F	
An outline is not available.	_	Properties	[INFO]1	Publis Deploy	h to	Ctrl+l, P Ctrl+l, D	nt te
			[INFO]18	Report	t		us

2. Go to the iSM Administration Console and click *Management*, as shown in the following image.

Application Management	Applications Upload/Download/Delete appl can be deployed, started, stop			ntegration solution witl
Deployments Applications	Application	Actions	Owner	Version
Templates Events	Cheesecake_file1	🗴 🗿 🕼 陰 🕥	GF10566@CSSGIDON3	08/17/16 18:34:39
Lyents	dqs_emitter_test_app	🗶 🗿 🕼 陰 🕥	adriver@PNJ-F7DJNX1	09/26/16 10:17:33
Server Management	File1	🗶 🗿 🖫 🍘 🌑	GF10566@CSSGIDON3	08/05/16 15:24:52
Servers	Schedule_Plan	🗶 🗿 🕼 🈭 🕥	GF10566@CSSGIDON3	08/16/16 15:25:48
Users	SFTP_Server_Application	🙁 😭 🕼 🍘 🕐	WIN78GB\$@win78gb	05/27/16 08:26:01
Server Roles Test Servers	SWIFT_usr_samples_App	🙁 😭 🕼 陰 💌	GF10566@CSSGIDON3	09/15/16 11:23:38
Remote Servers	TRAC_160907095	🙁 😭 🕼 🍘 💌	GF10566@CSSGIDON3	09/30/16 14:51:02
	Umpqua	🙁 😭 🕼 🍘 💌	GF10566@CSSGIDON3	09/15/16 15:29:37
	X12_usr_samples_App	🙁 😭 🕼 陰 💌	GF10566@CSSGIDON3	10/27/16 18:21:17

Notice that the iIA you published using iIT (for example, *X12_usr_samples_App*) is listed under the Applications section. The template that you created earlier (for example, *X12*) is now available to be associated with this published iIA, which can then be deployed.

Deploying the Published iIA from the iSM Administration Console

This section describes how to deploy the published iIA from the iSM Administration Console.

- 1. Go to the iSM Administration Console and click *Management*.
- 2. In the Applications section, click the *Deploy* icon in the Actions column that corresponds to the published iIA (for example, *X12_usr_samples_App*), as shown in the following image.

Application Management	Applications Upload/Download/Delete appl			ntegration solution with	ו de
Deployments	can be deployed, started, stop	oped and deleted wit	hout affecting other IIAs.		
Applications	Application	Actions	Owner	Version	
Templates Events	Cheesecake_file1	🗶 🗿 🖫 陰 🕥	GF10566@CSSGIDON3	08/17/16 18:34:39	
Events	dqs_emitter_test_app	🙁 😭 🕼 🍘 💌	adriver@PNJ-F7DJNX1	09/26/16 10:17:33	
Server Management	File1	🙁 😭 🕼 🍘 💌	GF10566@CSSGIDON3	08/05/16 15:24:52	
Servers	Schedule_Plan	🙁 😭 🕼 🍘 💌	GF10566@CSSGIDON3	08/16/16 15:25:48	
Users	SFTP_Server_Application	🙁 😭 🕼 🍘 💌	WIN78GB\$@win78gb	05/27/16 08:26:01	
Server Roles Test Servers	SWIFT_usr_samples_App	🗶 🗿 🕼 🈭 🕥	GF10566@CSSGIDON3	09/15/16 11:23:38	
Remote Servers	TRAC_160907095	1 × 10 ×	GF10566@CSSGIDON3	09/30/16 14:51:02	
	Umpqua	Deploy 💼 🗙	GF10566@CSSGIDON3	09/15/16 15:29:37	
	X12_usr_samples_App	📐 🛞 🖬 🖳 🗙	GF10566@CSSGIDON3	10/27/16 18:21:17	

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

iWay Service N	<u> </u>	Management base
Server Registry I Application Management	Deployments Tools Deployments - New Deplo Deploy an application	vyment
Deployments Applications	Deploy application X12_us Deployment Name	sr_samples_App (10/27/16 18:21:17) Use an auto-generated name below or provide a custom name.
Templates Events	Deployment Name	 X12_usr_samples_App_X12
Server Management Servers Users	Deploy As Test Server	Selecting this option makes the deployment available as a server where you may test
Server Roles Test Servers Remote Servers	Configuration Template	A 'raw' template is used by default. Template_Restaurant_Test X12
	Port	trac_dqs_main_firewall_monitor_dev Port the console will listen on 10005
	Application Description	An automatic description is generated by default.
	< Back Deploy F	Reset

3. Select the template you created earlier (for example, *X12*) to be associated with this iIA and click *Deploy*.

The iIA is now deployed and is in a stopped state by default.

4. Click the red icon in the State column.

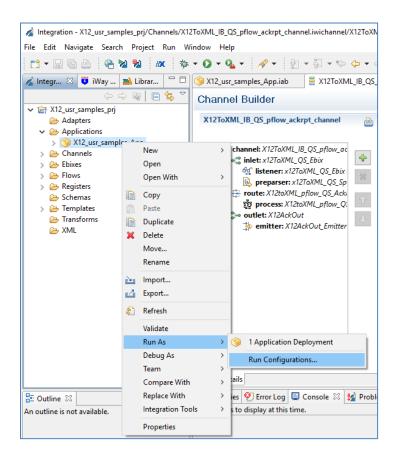
Once the iIA has started, the red icon changes to a green check mark icon in the State column, as shown in the following image.

iWay Service Ma Server Registry <u>Depl</u>				Management	base Restart		Point 7.0.6.3572 About Logout
Application Management Deployments	Deployments Monitor and manage deployed a	pplications	~				
Applications	Deployment	Actions	State	Since	Application	Template	Source
Templates	X12_usr_samples_App_X12	💿 🛸 🗙	\bigcirc	10/27/16 18:32:41	X12_usr_samples_App	X12	
Events	New						

Deploying a Published iIA From iIT

It is also possible to deploy an iIA with an associated template directly from iIT.

1. In iIT, right click on the iIA (for example, *X12_usr_samples_App*), select *Run As* from the context menu, and then click *Run Configurations*, as shown in the following image.



The Run Configurations dialog opens, as shown in the following image.

Run Configurations		
eate, manage, and run config	jurations	
} 🗎 🗙 🖻 ‡⊳ ▼	Name: New_configuration	
pe filter text	Main	
Application Deployment	Application:	
New_configuration Eclipse Application	/X12_usr_samples_prj/Applications/X12_usr_samples_App.iab	Browse
Eclipse Data Tools	Template:	
🖅 Java Applet J Java Application	/X12_usr_samples_pri/Templates/X12.iwtemplate	Browse
Ju JUnit		Refresh
🕆 JUnit Plug-in Test 😢 Maven Build		Kellesh
MWE Workflow	Server Environment:	
Mwe2 Launch OSGi Framework	URL: http://localhost:9000	\sim
OSGI Framework Process Flow	User Name: iway	
Transform Batch Test	Password: ••••	
Transform Test	Deployment Options:	
	Deployment Name: X12_usr_samples_App	
	Console Port:	
	Description:	
r matched 15 of 15 items	Apply	Revert
)	Run	Close

- 2. Select the template to be associated and the target server for deployment.
- 3. Click Apply and then Run.

Note: You can also use the iWay Software Development Kit (SDK) to configure an ANT script to deploy an iIA. For more information, see the <u>iWay Software Development Kit User's Guide</u>.

Tips and Usage Considerations

This section provides several useful tips and usage considerations when using ilAs.

Template Preserve Settings

It is possible to configure the iSM server settings in the iIA and in the template to include (for example, Data Providers). The advantage of the template is that, after being associated with an iIA, it preserves the settings after being deployed and redeployed. However, if a Data Provider is configured in the iIA and the same iIA is redeployed, then those settings will be lost.

Changing the Console Port of an iIA

The password for the iWay user must be identical in the following areas:

- 1. From the iSM Administration Console:
 - a. Go to base.
 - b. Click on Server and then Console Settings.
- 2. From the iSM Administration Console:
 - a. Go to base.
 - b. Click on *Management*, *Users*, and then *iWay*.
- 3. From the iIA:
 - a. Go to Template.
 - b. Click on Server and then Console Settings.