



Source Management (Version Control) Installation and Configuration Guide

Version 8.0 and Higher

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Preface

This documentation describes how to install and configure source management (version control) for iWay Integration Tools (iIT). It is intended for developers, application and enterprise architects, business analysts, and system administrators who want to integrate new XML-based applications seamlessly with existing enterprise transactions, procedures, and application packages.

How This Manual Is Organized

This manual includes the following chapters:

	Chapter/Appendix	Contents
1	Installing and Configuring a Source Management (Version Control) Repository for iWay Integration Tools	Describes how to install and configure a source management (version control) repository for iWay Integration Tools (iIT).

Documentation Conventions

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

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

Convention	Description
• •	Indicates that there are (or could be) intervening or additional commands.
•	

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

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

Help Us to Serve You Better

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

The following tables list the environment information our consultants require.

	-
Platform	
Operating System	
OS Version	
JVM Vendor	
JVM Version	

The following table lists the deployment information our consultants require.

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

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

iWay Adapter	
iWay Release Level	
iWay Patch	

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

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

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

- □ Input documents (XML instance, XML schema, non-XML documents)
- ❑ Transformation files
- Error screen shots
- **G** Error output files
- □ Trace files
- □ Service Manager package to reproduce problem

u Custom functions and agents in use

- Diagnostic Zip
- Transaction log

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

User Feedback

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

Thank you, in advance, for your comments.

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Chapter

Installing and Configuring a Source Management (Version Control) Repository for iWay Integration Tools

This section describes how to install and configure a source management (version control) repository for iWay Integration Tools (iIT). For demonstration purposes, Apache Subversion (SVN) is used.

However, you can also configure other source management (version control) repositories that are supported by iIT (for example, Team Foundation Server, ClearCase, and others).

In this chapter:

- Source Management Overview
- Installing Apache Subversion
- Understanding the Physical Structure of Components in an Integration Project
- Configuring and Working With Apache Subversion
- Common Commands Used With Apache Subversion
- Handling Conflict States
- SVN Best Practices

Source Management Overview

Source management (version control) support in iWay Integration Tools (iIT) is provided by the Eclipse Team API. The Team API allows vendors to implement support for their repositories and workflows using the Eclipse extension mechanism. Through this mechanism, vendors can create sets of plugins to support their product. Implementing source management is vital for any enterprise-level development project, as it strengthens code management, enables teamwork and collaboration on multiple levels, and provides the ability to revert changes.

This document describes how to use Apache Subversion (SVN) as a sample repository with iIT. Since the source management support is implemented through the generic Eclipse Team API interface, the interactions and functionality with other source management (version control) repositories is similar to how these are documented for SVN.

About Apache Subversion

Apache Subversion (SVN) is an open source version control system that is designed to help you keep track of a collection of files and folders. Any time you change, add, or delete a file or folder that you manage with SVN, you commit these changes to your SVN repository, which creates a new revision in your repository reflecting these changes. You can always go back, view, and retrieve the contents of previous revisions. You can easily integrate iWay Integration Tools (iIT) with SVN to have the control of your files and make any collaborative development environment secure.

Installing Apache Subversion

This section describes how to install Apache Subversion (SVN) for iWay Integration Tools (iIT).

Procedure: How to Install Apache Subversion

1. Open iIT, click *Help* in the menu bar, and then select *Install New Software* from the context menu, as shown in the following image.



The Install dialog opens showing the Available Software pane, as shown in the following image.

🤞 Install				o x
Available Software				
Select a site or enter the loca	tion of a site.			
Work with: ⁽¹⁾ type or select a	site		~	Add
Find m	ore software by v	working with the "	Available Software S	<u>ites"</u> preferences.
type filter text				
Name				Version
(i) There is no site sel	ected.			
<				>
Select All Deselect	All			
Details				
				A
Show only the latest version	is of available so	ftware Hid	e items that are alrea	ady installed
Group items by category		What	t is <u>already installed</u>	?
Show only software applica	ble to target env	ironment		
Contact all update sites dur	ing install to find	required software	É	
?	< Back	Next >	Finish	Cancel

2. Click Add.

The Add Repository dialog opens, as shown in the following image.

i Add Ro	epository	×
Name:	SVN Plugin	Local
Location:	https://dl.bintray.com/subclipse/archive/release/1.12.x/	Archive
?	ОК	Cancel

- 3. In the Name field, specify a name (for example, SVN Plugin) to identify the plugin.
- 4. In the Location field, specify the URL from where SVN can be installed. For example:

https://dl.bintray.com/subclipse/archive/release/1.12.x/

Note: The location URL referenced in step 4 is just one of many supported source management plugins that can be used with iIT. For example, the SVN plugin can also be obtained from the Tigris organization at:

http://subclipse.tigris.org/update_1.8.x/

It is recommended for users to contact their source management provider to obtain the correct version of the Eclipse plugin to be used. Keep in mind that iWay Integration Tools (iIT) version 7.x is based on the Eclipse 3.7 (Indigo) release, while iIT version 8.x is based on the Eclipse 4.7 (Neon) release. As a result, the version and location of the plugin might be different.

5. Click OK.

You are returned to the Install dialog (Available Software) pane, as shown in the following image.

🦂 Install						- 🗆	×
Available S Check the ite	Software ems that you wis	h to install.					
Work with:	SVN Plugin - ht Find m	tps://dl.bintray.c ore software by	com/subclip working wit	ose/archive h the <u>"Ava</u>	/release/1.1 ~	Ado <u>e Sites"</u> pref	I Ferences.
Name > ₩ 000 Su > ₩ 000 SV	bclipse NKit					Version	1
< Select All Details	Deselect	All 9 iten	ns selected				>
 ✓ Show only t ✓ Group item ☐ Show only s ✓ Contact all 	the latest version s by category software applica update sites dur	ns of available so ble to target env ing install to find	oftware vironment d required s	Hide ite What is <u>a</u> oftware	ms that are al already installe	ready instal ed?	led
?		< Back	Next		Finish	Can	cel

6. Ensure that Subclipse and SVNKit are selected and then click Next.

The Install Details pane opens, which provides details (components) of the installation, as shown in the following image.

💰 Install			l X
Install Details Review the items to be insta	lled.	ç	
Name		Version	Id
CollabNet Merge Clie	ent	4.1.0	com.colla
JNA Library		4.1.0.v06022015_1911	net.java.d
Subclipse (Required)		1.10.13	org.tigris.
Subclipse Integration	for Mylyn 3.x (Optional)	3.0.0	org.tigris.
Subversion Client Ad	apter (Required)	1.10.3	org.tigris.
🚯 Subversion JavaHL N	ative Library Adapter	1.9.3	org.tigris.
Subversion Revision	Graph	1.1.1	org.tigris.
🚯 SVNKit Client Adapte	r (Not required)	1.8.9	org.tigris.
SVNKit Library		1.8.12.r10533_v2016	org.tmate
<			>
Size: 22,177 KB			
The CollabNet Merge client environment.	provides powerful Subversion m	erge capabilities within the Ec	lipse 🗘
			More

7. Click Next.

The Review Licenses pane opens, as shown in the following image.

🚀 İnstall	— (D) X)				
Review Licenses Licenses must be reviewed and accepted before the software can be installed.					
Licenses:	License text:				
Copyright (c) 2008 Timothy Wall, All Rights Reserved Eclipse Public License - v 1.0 Subclipse Software User Agreement Subclipse Software User Agreement The TMate Open Source License	Copyright (c) 2008 Timothy Wall, All Rights Reserved This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULA PURPOSE. See the GNU Lesser General Public License for more details. I accept the terms of the license agreements I do not accept the terms of the license agreements				
(?) < Back	Next > Finish Cancel				

8. Select I accept the terms of the license agreement and then click Finish.

The Installing Software dialog opens and displays the progress of the SVN installation, as shown in the following image.

💰 Installing Software					×
Installing Software					
1 operation remaining.					
Always run in background					
	Run in Background	Cancel	[)etails >>	

You may see a warning message (dialog) displayed during the SVN installation process, as shown in the following image.



9. If you see this warning message displayed, then click *OK* to continue.

After the SVN installation has completed, you are prompted to restart iIT, as shown in the following image.



10. Click Yes.

After iIT has restarted, you can check to confirm that the SVN plugin has been installed successfully.

11. Click the *Perspective* icon, which is located on the upper-right of the iIT workbench, as shown in the following image.

Quick Access	iWay Integrator 🔝 SV	/N Repository Exploring
	Open Perspective	- 0

The Open Perspective dialog opens, as shown in the following image.

🔏 Open Perspective			23
CVS Repository Exploring Database Debug Database Development Debug Vay Integrator (default) Java Java Java Browsing Java Type Hierarchy Planning Plug-in Development Resource SVN Repository Exploring Team Synchronizing X XML			
	ОК	Cance	el 📄

12. Select SVN Repository Exploring and then click OK.

The perspective in iIT changes, which now shows the SVN Repositories tab and SVN Annotate tab, as shown in the following image.



You have now successfully installed Apache Subversion (SVN) for iWay Integration Tools (iIT).

Understanding the Physical Structure of Components in an Integration Project

To successfully work with a source management (version control) repository in iWay Integration Tools (iIT), it is important to understand how iWay components are structured in an Integration Project. The standard view provided by the Application Explorer tab hides most of the metadata and derived files from view. This is similar to how the Package Explorer for Java projects does not show a Java package as a folder hierarchy.

If required, you can easily view the physical structure of iWay components using the Navigator tab. In iIT, click *Window* from the menu bar, select *Show View* from the context menu, and then click *Other*, as shown in the following image.

Window Help		_		
New Window Editor Appearance	> >		\$* • O • 9 <u></u> • ⇒	∻ • ½ • ⋛ • '
Show View	>	1	Application Explorer	
Navigation	>		Complex Properties Console	Alt+Shift+Q, C
Preferences		9 A	Error Log iWay Explorer	Alt+Shift+Q, L
		Â	Library Manager	
		8	Outline	Alt+Shift+Q, O
		2	Problems	
			Other	Alt+Shift+Q, Q

The Show View dialog opens, as shown in the following image.

V P	5 General	~
-	Bookmarks	
	A Classic Search	
	E Console	
	👰 Error Log	
	Internal Web Browser	
	🔠 Markers	
	🔁 Navigator	
	E Outline	
	😳 Palette	
	Problems	
	Progress	
	Project Explorer	
	Properties	
	🔗 Search	~

Expand the General folder, select Navigator, and then click OK.

The Navigator tab is now displayed, as shown in the following image.



The following image shows a process flow selected in the Application Explorer tab view.



The following image shows the same process flow selected in the Navigator tab view.



Note: These are examples. The actual physical structures might be different between major iWay releases.

The process flow is contained in a folder of additional metadata and derived files. It is important to share all but the derived files in the source management (version control) repository. The derived files in this case are *.compiledFlow* and *.image*.

The Ignored Resources list is configured automatically to match the iWay application. You can modify the list by accessing *Window*, *Preferences*, *Team*, and then *Ignored Resources* as shown in the following image.

A Preferences		– 🗆 🗙
type filter text	Ignored Resources	⇔ • ⇔ • •
> General > Ant > Data Management	Use this page to specify a list of resource name patterns to exclude from version control. Ignore Patterns:	
 > Data Management > Help > Install/Update > Way Integration Tools > Java > Model Validation > Mylyn > Plug-in Development > Run/Debug > Team > CVS File Content Ignored Resources Models > SVN Validation > XML > Xtend/Xpand 	Ignore Patterns:	Add Pattern Remove
	Restore D	efaults Apply
?	OK	Cancel

Note: The image shows selected files that are ignored by default.

Configuring and Working With Apache Subversion

This section describes how to configure and work with Apache Subversion (SVN) using iWay Integration Tools (iIT).

Adding Repositories

You can add new SVN repository locations to manage your projects as required.

To add a new SVN repository location:

1. Right-click anywhere in the SVN Repositories tab, select *New* from the context menu, and then click *Repository Location*, as shown in the following image.

File Edit	Navigate S	Search Proje	ect Run	Window Help
👸 SVN Re	positories 🗙	🔊 SVN	l Annotate	2
		New	► SUN	Repository Location
	æ.	Refresh		

The Add SVN Repository dialog opens, as shown in the following image.

dd a	a new SVN Repository
Add	a new SVN Repository to the SVN Repositories view
Loc	ation
Url:	http://localhost/svn/repository
	Tired of typing in long URL's? Your repository provider might provide a plug-in that would allow you to select your repository from a list.
	Click here to see the list of available providers.
ç	Free Subversion Repository Hosting from CloudForge Sign-up for CloudForge and get free Subversion repository hosting with unlimited users and repositories, plus free agile tracker tools.

- 2. Type the URL for your SVN repository in the Url field.
- 3. Click Finish.

The SVN repository location appears as a node in the SVN Repositories tab, as shown in the following image.



Checkout Projects From SVN

If you have a project synchronized in the SVN repository and want to add It to iWay Integration Tools (iIT), perform the following steps:

- 1. Ensure that you have switched to the Integration perspective in iIT.
- 2. Right-click in the Application Explorer tab and select *Import* from the context menu, as shown in the following image.



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



3. Expand SVN, select Checkout Projects from SVN, and then click Next.

The Checkout from SVN dialog opens showing the Select/Create Location pane, as shown in the following image.



4. Click Use existing repository location and select the URL for SVN repository that you previously added.

Note: If you have not previously added a SVN repository location or want to add a new SVN repository location, then you can do so from this dialog by using the *Create a new repository location* option.

5. Click Next.

om SVN			
ler to be checked out f	rom SVN.		SVN
ocalhost/svn/repo			
)	Finish	
	er to be checked out f	er to be checked out from SVN.	er to be checked out from SVN.

The Select Folder pane opens, as shown in the following image.

6. Select the folder(s) to be checked out from the SVN repository.

Here you can select a specific folder or select the root SVN repository location to check out all of the folders in the SVN repository.

7. Click Next.

The Check Out As pane opens, as shown in the following image.

Checkout from SVN	
Check Out As Select the method of check out and the revision to check out.	SVN
Choose how to check out folder repo	
Oheck out as a project configured using the New Project Wizard	
Check out as a project in the workspace	
Project Name: repo	
Ignore externals	
Allow unversioned obstructions	
Sack Next > Finish	Cancel

8. Select your check out options.

Determine if you want to check out the selected folder as:

□ A new project configured using the New Project Wizard.

□ An existing project in the workspace.

Note: If you want to check out the selected folder with a specific version of the project, then deselect the *Check out HEAD revision* option and specify a revision number.

9. Click Finish.

Integration - iWay Integration Tools File Edit Navigate Search Project Run Window Help 版 恭 • 🔘 • 💁 M 🕺 B F 🔏 Integration Explorer 🖾 🧧 iWay Explorer 🔜 Library Manager V ÷. 42 A ▲ MyProject Adapters Applications Channels ▲ C→ Inlets RNIP_ExtraccionDatosAlterna_IN 2536 3/23/17 8:12 PM edue Listeners RNIP_StateDBExtract_LS 2536 3/23/17 8:12 PM edugarte ⊿ C→ Outlets Ξ b additional default.outlet 2536 3/23/17 8:12 PM edugarte A Cr Routes RNIP_ExtraccionDatosAlterna_RT 2536 3/23/17 8:12 PM edu RNIP_ExtraccionDatosAlterna_v7_CH 2536 3/23/17 8:12 PM edu Ebixes Flows Registers Schemas Can Templates 🕞 Transforms 4 ш

Your checked out project displays in iIT, as shown in the following image.

Understanding the Features of an SVN Project

- **Users:** You can identify which user has made a change on a file and on what date/time.
- **State:** Files may have some states that indicate:
 - **New File:** If you add any new files, then they are identified with a question mark (?) icon.
 - **Synchronized File:** All synchronized files are identified with an orange icon.
 - Not Synchronized File: If files are not synchronized with the SVN repository, then they are identified with an asterisk (*) icon.

Ignored Files: If files are ignored by the SVN repository, then they do not have any icon.

Synchronizing With the Repository

The *Synchronize with Repository* option compares all files against the SVN repository, which enables you to check changes between local and remote files.

Right-click, select *Team* from the context menu, and then *Synchronize with Repository*, as shown in the following image.



The perspective will change (a Synchronize tab is shown). You will see the modified files locally and the incoming and outgoing changes. In addition, any conflicts will be shown.

- □ A File icon with a *blue arrow* pointing *left* indicates that changes are incoming to the project.
- A File icon with a *black arrow* pointing *right*, indicates a change is outgoing to the SVN repository.
- A File icon with a *black arrow* pointing *right* and a *plus sign character* (+), indicates a new file is outgoing to the SVN repository.
- A File icon with a *double red arrow* indicates a conflict between the local and remote repository.

□ A File icon with a *red arrow* pointing *left* or *right* indicates that a file has been deleted on the local or remote repository.

For example:



A summary of changes can be found on the lower-right corner, as shown in the following image.



Show the History

To view a history of changes (e.g. for a file) with revision numbers and comments, right-click the file, select *Team* from the context menu, and then *Show History*, as shown in the following image.

	New Go Into Open in New Window		Synchronize with Repository Commit Update to HEAD Update to Version
	Copy Paste Duplicate Delete Move Rename	¥	Create Patch Apply Patch Branch/Tag Merge Switch to another Branch/Tag/Revision
22	Import Export Refresh	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Show History Show Tree Conflicts Show Properties Show Revision Properties
	Validate Run As Debug As Team		Show Revision Graph Add to Version Control Add to svn:ignore Set Property
	Compare With Replace With Restore from Local History Source		Revert Edit conflicts Edit property conflicts Mark Resolved
<u>\$.</u>	Remove from Context Ctrl+Alt+Shift+Down	Ē	Copy Export

The History tab opens and provides a table with the following columns:

- Revision
- Date
- Author
- Comment

Show Tree Conflicts

If you have a file that is in conflict, you can review the details by right-clicking the file, selecting *Team* from the context menu, and then *Show Tree Conflicts*, as shown in the following image.

	New Go Into Open in New Window		Synchronize with Repository Commit Update to HEAD Update to Version
自自	Copy Paste		Create Patch Apply Patch
*	Duplicate Delete Move Rename	¥	Branch/Tag Merge Switch to another Branch/Tag/Revision
	Import	a	Show History
1	Expert	Ĕ	Show Tree Conflicts
2	Refresh		Show Properties Show Revision Properties
	Run As Debug As		Add to Version Control Add to svn:ignore
	Team 🕨		Set Property
	Compare With Replace With Restore from Local History		Revert Edit conflicts Edit property conflicts Mark Resolved
0	Properties Remove from Context Ctrl+Alt+Shift+Down	Ð	Copy Export

Common Commands Used With Apache Subversion

This section describes the commands that are used most often with Apache Subversion (SVN).

Update

You can update your local project to the latest version or to a selected version in the SVN repository. A version is a state in the repository that has a sequence number, which increases every time a change is made in the SVN repository with a commit operation.

To update to HEAD, which updates the SVN repository to the latest version available:

·	New	•	To: Navigator B' History To	
	Go Into		/KNIP_estable/Flows/KNIP_fold	
	Open in New Window		Synchronize with Repository	
	Сору		Commit	
馆	Paste	L	Update to HEAD	
8	Duplicate	2 - E	Update to Version	
*	Delete		Create Patch	
	Move		Apply Patch	
	Rename		Branch/Tag	
		3	Merge	
è	Import		Switch to another Branch/Tag/Revision	
4	Export			
	Build Project	6	Show History	
19	Refresh	L,	Show Tree Conflicts	
*	Close Project	0	Show Properties	
	Close Unrelated Projects	0	Show Revision Properties	
	cross official control costs	6	Show Revision Graph	
	Validate		Add to Version Control	
	Run As	+	Add to syncianore	
	Debug As	+	Set Property	
	Team	+	See openym	
	Compare With	•	Revert	
	Replace With	•	Edit conflicts	
	Restore from Local History		Edit property conflicts	
	Maven	۱.	Mark Resolved	
	Source	• 🕞	Copy	
	Configure	•	Export	

Right-click your project, select *Team* from the context menu, and then *Update to HEAD*, as shown in the following image.

The SVN repository is updated to the latest available version.

To update to Version, which updates the SVN repository to a specific version:

1. Right-click your project, select *Team* from the context menu, and then *Update* to *Version*, as shown in the following image.

	New Colleto	′ -	/RNIP_estable/Flows/RNIP_fold		
	Open in New Window	-	Synchronize with Repository		
D	Copy		Undate to HEAD		
TEN	Paste		Update to Version		
	Dupicate		Create Patch		
×	Velete		Apply Patch		
	Rename		Branch/Tag		
2	Import	Y	Merge Switch to another Branch/Tag/Revision		
	Build Project Refresh Close Project Close Unrelated Projects	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Show History Show Tree Conflicts Show Properties Show Revision Properties		
	Validate Run As Debug As	•	Add to Version Control Add to svn:ignore Set Property		
	leam		Revert		
	Compare With	•	Edit conflicts		
	Replace With	,	Edit property conflicts		
	Kestore from Local History Maven		Mark Resolved		

The Update dialog opens showing the Update Resources pane, as shown in the following image.

Jpdate Resources	
Update the working copy.	5
Lodate to HEAD revision	
levision: 3000 Select	
Depth: Working copy	
Change working copy to specified depth	
Ignore externals	
Allow unversioned obstructions	
Conflict handling:	
Text files:	
Prompt me for each conflict and let me decide	
Mark conflicts, let me resolve them later	
Binary files:	
Prompt me for each conflict and let me decide	
Mark conflicts, let me resolve them later	
Resolve the conflict by using my version of the file	
\bigcirc Resolve the conflict by using the incoming version of the file	
Property conflicts:	
Prompt me for each conflict and let me decide	
Mark conflicts, let me resolve them later	
Tree conflicts:	
Prompt me for each conflict and let me decide	
Mark conflicts, let me resolve them later	

- 2. Select the Update to HEAD revision checkbox.
- 3. Specify a revision number in the Revision field (manually or by using the Select button).
- 4. Click OK.

The SVN repository is updated to the specified version (revision).

Adding Files to the Repository

To commit a change made to a file and create a version in the SVN repository:

1. Right-click a file that you want to add, select *Team* from the context menu, and then *Add* to *Version Control*, as shown in the following image.



A blue icon is appended next to the file name, as shown in the following image.



2. Right-click the file, select *Team* from the context menu, and then *Commit*, as shown in the following image.

🖉 Integration Explorer 门 😈	Way Explorer 📸 Library Manager	000 84	🗢 🗖 🖞 US_Evel_Approach_Adapter25QL
Beantford code code cody_example coty_example coty_example	ie]	E	Support of Factory
Adepters Applications Applications Applications Br Charmels Br Charmels Br Registers Applications Tomplates Tomplates My US_Exel_Shadowl Reg US_Exel_Shadowl	Nerv Open Open With Copy Pacte Pacte Duplicate Delete Nove	· · · · · · · · · · · · · · · · · · ·	Update to Venion Create Patch Apply Patch Bosch/Tag Merge Switch to another Branch/Tag/Revision Show History Show Tree Cenflicts Show Properties
304. do commiturel interface Gds Ropt-Onte	in Impert. i Export. Refresh Validate	10 20	Show Revision Properties Show Revision Graph Show Annotation Show Local History Add to Version Control Add to survigeore
는 Outline II 가운 xml	Num AS Defining As Tearm Compare With Replace With Source Integration Tools		Set Property Revert Edit conflicts Edit property conflicts Mark Resulted Lock Unlact

Coronit		- O - X -
Commit to: http://158.69.55.145/svn/repo/Coty/trunk/code/XML Enter a comment for the commit operation.		M
Exmaple commit		*
<chaose a="" converses<="" entered="" previously="" td=""><td></td><td></td></chaose>		
Configure Comment Templeters.		
Charges	1	🗒 Keep locks / 🧱 🗄 😵 🚳
※ coty, svn/XML ※ 通 do_conveiturel		
		OK Cancel

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

3. Enter a descriptive comment and then click OK.

An orange icon is appended next to the file name, as shown in the following image.



Adding Files to SVN-Ignore

You may want to add only some files to the SVN repository and not others. For example, the files you want to add are required for testing purposes.

To flag files (or folders containing files) so they can be ignored by SVN during a commit operation:

1. Right-click a file or folder that you want to be ignored by SVN, select *Team* from the context menu, and then *Add* to *svnignore*, as shown in the following image.

løproach	_Adapter25QL 4 9/23/16 8:40 AM froche	-	Commit Update to HEAD Update to Version Create Patch
	New Copy Paste Duplicate Delete Import Export Refresh Close Project Close Unrelated Projects	* 8284	Apply Patch Enanch/Tag Merge Switch to another Branch/Tag/Revision Show History Show History Show Tree Conflicts Show Revision Properties Show Revision Graph Add to Version Control Add to presignore
	Validate Team Compare With Replace With Restore from Local History Properties Remove from Context Ctill-Alt-Shift-Down T	0 0	Revet Edit conflicts Edit property conflicts Mark Resolved Copy Export Configure Branches/Tags

Add test_process_flow_result to svnignore
Select what to add to the svnignore properties(s):
Resource(s) by name
Examples: file1.so, file2.so, .rcfile, bin
Wildcard extension
Examples: *.so, *.rcfile, bin
Custom pattern
The wildcard characters "*" and "?" are permitted.
test_process_flow_result
OK Cancel

The Add to svnignore dialog opens, as shown in the following image.

2. Select the Resource(s) by name option and then click OK.

The file or folder you selected will be ignored by SVN.

Reverting Changes

You may modify files locally and then need to revert these changes to match the current state in the repository.

To revert a change:

1. Change the perspective by right-clicking, selecting *Team* from the context menu, and then *Synchronize with Repository*, as shown in the following image.



The perspective will change (a Synchronize tab is shown), as shown in the following image.



2. Right-click the change you want to revert, select *Team* from the context menu, and then click *Revert*, as shown in the following image



The Revert dialog opens and lists the change(s) that will be reverted, as shown in the following image.

Revert Local changes will be removed.	
Changes	
RNIP_estable/Flows/RNIP_fold	ler_Bloques_12_A_17/RNIP_folder_Altas/RNIP_Pflow_Alta_Bloque12.iwp
No. We use in the Automotion	2.100
State 1 and 1 a	z.1WP
State in a 1 non-sea noder.	z.iwp

3. Click OK to confirm.

The confirmed change(s) are removed from the Synchronize perspective.

Handling Conflict States

Sometimes a file can be in a state of conflict and cannot be committed to the SVN repository. These conflicts can be categorized as follows:

- File Conflicts
- Tree Conflicts

File Conflicts

Two or more users modify the same line in a file and attempt to commit. SVN cannot detect the differences between them. Instead, work on a file that has not been updated.

When file conflicts exist, a file is created with the following characteristics:

```
<<<<<< Filename
Your changes
======
Code merged from repository
>>>>> Revision
```

Mark it in iIT and then proceed to resolve the conflict. Perform the following steps:

1. Right-click the file in question, select *Compare With* from the context menu, and then click *Base Revision*.

The Structure Compare dialog opens.

Compare the contents of the file between the Workspace pane on the left and the BASE pane on the right. Make any appropriate changes within these two panes to ensure conflicts are solved.

You can also copy changes between the Workspace pane on the left and the BASE pane on the right, and navigate within all conflicts one by one.

- 3. After you have resolved all conflicts, save the file and update by right-clicking and selecting *Update* from the context menu.
- 4. To override the file, right-click the file and select *Override and Update* from the context menu.

The Override and Update prompt displays, as shown in the following image.

💰 Over	ride and Update		×
?	This action will remove your local chang local changes and replace them with the	es. Are you sure that you v file from the repository?	vant to revert your
		Yes	No

5. Click Yes.

The local file will be overwritten with the version in the repository.

6. To push a local file, mark it as merged (*Mark as Merged*), make a commit, then update to head and commit the local file.

Tree Conflicts

Tree conflicts are caused when a user deletes, modifies, moves, or renames a file or folder that has already been deleted, modified, moved, or deleted by another user.

To resolve this conflict, decide which side takes priority over the files. Apply modifications from the repository or apply modifications on the local workspace.

To apply changes from the local workspace, identify the file, mark it as merged (*Mark as Merged*), and make a commit. To apply changes from iIT, right-click the file and select *Override and Update* from the context menu.

SVN Best Practices

Here are several best practices that are recommended when using SVN:

Synchronizing Projects

Always make a sync with the repository to ensure your local changes are compared with current repository files.

I Team Update to Head

Before making a new commit, you must have the latest version of the SVN repository, so make an update to Head.

Use Caution When Committing Changes

In the Team Synchronizing perspective, review all of the files you want to commit and check their states. Sometimes if you modify any component of a process flow, an XML file may change, and SVN will prompt you to commit that change. In this case, revert the change before a commit.

Do Not Close iIT When Committing Changes

Sometimes committing a change may take additional time to complete, so please be patient. Closing iIT during a commit may corrupt some files.

Resolve Conflicts First

Resolve any existing conflicts prior to committing changes.

Add Descriptions

Ensure that you add a description to every commit, since providing this information will help to rollback any changes safely in the future.

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