

# TIBCO iWay<sup>®</sup> Service Manager

## Release Notes

*Version 8.0.6*

*October 2021*

*DN3502378.1021*





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# iWay Version 8 Service Pack 6 (8.0.6) Integration Release

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This document provides release information for iWay version 8 Service Pack 6 (8.0.6). It is intended for all levels of users, including system integrators, application developers, and administrators. For more information on specific features, refer to the online documentation.

**In this chapter:**

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## iWay Service Manager

iWay Service Manager (iSM) is an integration server that ensures rapid access to timely, accurate data across all systems, processes and stakeholders – with unmatched interoperability between disparate systems and data. With iSM, all aspects of your existing infrastructure – every integration, application, and development platform – work in concert with modernized architectures to rapidly develop new business applications, and create powerful, reusable business services from existing applications. This support for modern architectures ensures a highly optimized development environment and rapid creation of internally and externally consumable services.

iSM offers end-to-end integration of the widest variety of sources, including real-time, batch, streaming, big data, structured and unstructured information, cloud-based sources, social network, and machine-generated data.

## Installation Notes

This section provides installation notes for iWay 8.

- ❑ Major releases of iWay version 8 and any service pack releases require Oracle Java version 8 as the minimum run-time environment. The recommended release is Java 1.8 build 152. Java versions 9 and 10 are not supported at this time.
- ❑ Major releases of iWay version 8 and any service pack releases require Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files, which can be obtained from the Oracle Java download.
- ❑ iWay version 8 can be installed on the same environment where previous versions of iWay Service Manager (6.x and 7.x) have been installed. You must follow the proper procedure to migrate an application from a previous version to iWay version 8. iWay version 8 cannot be overlaid on top of an older version, and must be installed in parallel into an empty location (directory) on the file system.
- ❑ iWay version 8 includes online documentation, which is located on the iWay Information Center and can be accessed using the following URL:  
<http://iwayinfocenter.informationbuilders.com/technical-library.html>
- ❑ iWay version 8 does not provide a 32-bit installation, only a 64-bit installation is supported. The installation requires administrative rights for installation and runtime purposes. iWay version 8 requires full access to the sub-directories of its installation. As a result, ensure that the end-user has full access rights.
- ❑ On Windows platforms, a deployed iWay Integration Application (iIA) will create its own corresponding Windows service. This Windows service is not recreated with each iIA deployment and will retain its properties.
- ❑ The release level of iSM must match the release level of iIT. For example, if you upgrade iIT, then you must upgrade iSM to the corresponding version. iWay 8 releases no longer facilitate the use of core services, which were present in the iWay 7 framework. This is due to simplification and to ensure that the user always has matching design time and runtime environments to get the benefits of new features.

## Migration

iWay version 8 allows you to migrate iWay Integration Applications (iIAs) that were developed in iWay 7.x environments to an iWay 8 environment. When discussing migration, it is important to distinguish between *runtime* and *design time*, as described further in this section.

## Runtime

If you are not planning to make any modifications to an existing iIA, then you can simply export this iIA from your iWay 7.x runtime environment using the iSM Administration Console. You can then import the iIA into your iWay 8 runtime environment using the iSM Administration Console. This enables you to import the iIA and the corresponding deployment template. You can then deploy the iIA. The iIA will continue to run the same in your iWay 8 environment as it did in your iWay 7.x environment.

## Design Time

If you need to update an existing iIA for maintenance or review, you can do so using iWay Integration Tools (iIT). Export the corresponding Integration Project from iWay 7.x to the file system or source management repository. You can then import or check-out the Integration Project into the iIT workspace of your iWay 8 environment. When the Integration Project is imported, the components will be automatically converted into iWay 8 format. Since objects have changed between iWay 7.x and iWay 8, the best attempt has been made to convert the objects accordingly. However, you may notice that some of the iWay 7.x objects show up as Service nodes in the iWay 8 process flows. However, aside from the visuals, the migrated Integration Project is fully functional. You can then build and deploy your iIA as required.

It is recommended that you review any iIAs developed using iWay 7.x to determine if the design is utilizing all of the latest features available in later releases. It is very common to discover that some parts of the iIA (even though it will continue to function as is), might benefit from a simplification as part of the update, instead of a direct migration.

## Deprecated Components

This section provides a summary of deprecated components in iWay 8.

- ☐ MQSI components have been removed from the product and are no longer supported. If you have a requirement for continuing support for this and related components, please contact iWay Customer Support.
- ☐ SOAP over JMS/MQ has been removed from the product and is no longer supported. For alternative approaches, you may use a direct connection to the JMS/MQ components for data processing.
- ☐ WAR-based deployment has been deprecated. The ability to create WAR packages has been removed from the iSM Administration Console. You can build iSM WAR packages using the iWay Software Development Kit (SDK). If you require WAR-based deployment support, please provide your use case to iWay Customer Support.
- ☐ The Log Event Adapter for Microsoft SQL Server has been deprecated.

- ❑ The Emitter object has been deprecated in iWay Integration Tools (iIT). Emitters can be used as part of the channel itself. If you have a use case for accessing Emitters in process flows, open a case with iWay Customer Support and provide full details.
- ❑ The following product components have been deprecated and removed from distribution. There are alternatives approaches for achieving the required functionality or the components are deemed no longer viable.
  - ❑ Corba
  - ❑ Fix
  - ❑ Clarify
  - ❑ Tuxedo
  - ❑ BEA JDBC
  - ❑ BEA PS
  - ❑ IBO
  - ❑ Validation (an older implementation of the QA Service)
  - ❑ CS3
  - ❑ Lawson Preparser
  - ❑ Manugistics Preparser
  - ❑ CDF/CSV (an updated version is available for flat file processing)

## Resolved Issues

This section provides a reference to the resolved customer cases in iWay version 8.0.6, iWay version 8.0.5, iWay version 8.0.4, iWay version 8.0.3, iWay version 8.0.2, iWay Integration Tools (iIT) 8.0.1 Update 1, iWay version 8.0.1, and iWay version 8.0.



## iWay Version 8.0.6

This section provides a reference to the resolved customer cases in iWay version 8.0.6.

IRN Number	Summary
210705021	Importing process flows with long agent names causes them to be truncated and not display correctly.
210705019	Ability to copy and paste from Custom Properties of agents.
210622084	Unable to disable a subflow agent in a process flow. You can only delete a subflow, which makes debugging difficult.
210618029	JSON Path unable to count the array length.
210617094	JSON Path Builder generates the following error: <code>Could not initialize class com.jayway.jsonpath.internal.DefaultsImpl</code>
210614105	SFTP directory listing not considering values in milliseconds.
210614096	Rest Agent URL does not work correctly.
210614076	Unable to edit the Rest URL parameter name.
210603137	Vendor OptiCat .zip files (e.g., large files, 80 GB) not transferring issue using RVI connection.
210603064	RVI Failover to Backup Attachpoint does not re-establish with Gateway.
210513009	Changing the Variables agent type deletes current variables.

IRN Number	Summary
210505005	iWay Business Activity Monitor (BAM) installation is not available.
210324136	Unable to disable the grid globally, as in iIT version 7.
210324134	Align agents do not function correctly in iWay version 8.0.5.
210216134	When transforming JSON to CSV with email address, the @ character is lost from the input.
210215038	Scheduler is not working with the Calendar Provider as expected.
210121027	Agent relationships created in iWay version 7 cannot be moved and must be recreated.
210121011	iIT runs out of GDI objects and freezes.
210120062	Timeout occurs when FTP client listener connects to FTPS server.
210115019	_xquery missing from iFL expression tester and does not work in process flows.
201209031	Required property <i>JSON Literal Type</i> is missing.
201123101	SOAP connector cannot resolve WSDL during configuration with credentials.
201111081	XDSFTPDirectFileTransfer cannot deliver a file, but reports the file as delivered.
200921110	Mail attachment object server agent is not responding to the main configuration.

IRN Number	Summary
200107071	Copying agents in process flows using Ctrl + C and pasting using CTRL + V no longer works in iIT.
190402040	RDB Select with Post Execution channel does not allow encrypted passwords from a properties file.

## iWay Version 8.0.5

This section provides a reference to the resolved customer cases in iWay version 8.0.5.

IRN Number	Summary
210125110	The XDNHttpEmitAgent fails to parse a text/xml response.
210120062	Timeout when FTP client listener connects to FTPS server with SSL.
210118031*	Flow Editor only draws onComplete lines.
210115019	_xquery missing from iFL expression tester and does not appear to work in flows.
210112054	MQTT Listener Topic Multi-Level Wildcard not working.
210111040	Group actions in Variable palette object only work on HDR registers.
210106124	A missing ISM route reveals decrypted passwords.
201221043	Transform @SIMPLEREPLACE default value does not work.
201209029	Configuring and replacing arrows in iIT.

IRN Number	Summary
201207090	Copy and pasting objects in a pflow.
201207088	Moving multiple objects in a pflow.
201207078	Usability issue in Names of step.
201207034	Allow a user to double click on an iIT annotation box to edit it.
201207023	Pflow outline flashing when navigating.
201202022	Applications are not stopping when clicking the stop button or redeploying.
201112045	iIT incorrectly states Fail object not followed by End node.
201019015	_fetch function Transform lookup error.
200929048	API flows do not compile after creation.
200924041	iIT hangs when attempting to filter results within transform.
200910113	REST connection Generic does not get updated.
200904005	JSON to XML transform throwing an error.
200730108	XDTransformAgent parses XSLT output even if output format set to flat.
200406082	Preparser "Reads Excel workbook sheet to XML" issue while parsing Excel file.
200331078	Exception in XDSFTPDirListAgentXDSFTPDirListAgent.
200318079	Update iSM Salesforce Adapter to use SOAP API version 48.0 or 47.0 to match WF.

IRN Number	Summary
200107071	Copying agents in flows using Ctrl + C and pasting using Ctrl + V no longer works in iIT.
200107069	Text box floats to top left corner of flow canvas.
200120059	Test Transforms gives a license error.

**Note:** OnCompletion is the implied event type when there are no events selected as a Default Event Type from *Windows, Preferences, iWay Integration Tools, Flow*.

## iWay Version 8.0.4

This section provides a reference to the resolved customer cases in iWay version 8.0.4.

IRN Number	Summary
200212086	File size does not match error when using SFTP listener against GXS server.
191219052	XDSFTPEmitAgent causes NPE, also fails when Emit Zero Bytes is false.
191202110	Samba Dir Listing Agent exposes password in clear text in XML response.
191030097	Exception in sftp when listing a very large directory.
190927099	XSLT Transform Output encoding is broken when Flat is used.
190821082	RabbitMQ Listener works properly in 802...not in 803.
190812040	XDSFTPDirecFileTransfer agent hangs, the channel timeout expires, the flow is canceled, but the thread remains blocked.
190629001	Getting Kafka warning messages in iIT every time a Pflow is compiled and run.

IRN Number	Summary
190612137	Error opening existing 7.x.x application - Class "IWAY" is not found or is abstract.
190514020	HTTP listener allows GET http method through when listener is configured for Error.
190507134	SFTP object in process failed.
190325089	Performance issue with iWay running XSLT transforms using the Saxon engine.
190124049	iWay ETL Agent for Data Migrator exposes the password in clear text in the logs.
181210013	SFTP Block gives out error.
171130070	SOAP Channel - Secure SOAP port does not display licenses at SOAP page root.

### iWay Version 8.0.3

This section provides a reference to the resolved customer cases in iWay version 8.0.3.

IRN Number	Summary
190220106*	OEI custom version of the 310 EDI does not calculate SE01 count.
190129100	X12 IEA control number is left justified.
181204027	CSV parser does not correctly escape column separators within the quoted column value.
181120043	SWIFT MT541/543 inbound types are failing in PROD.

IRN Number	Summary
181016113	Controls Listeners Service (com.ibi.agents.XDControlAgent) does not find listeners using a wildcard suffix as indicated by the <i>Listener(s)</i> parameter.
181002093	The <code>_if()</code> function (Obtain Value Conditionally) returns unexpected false results when the condition evaluates as true.
180924016	Unable to import a JSON schema in iWay 8.
180919119	Listener based on an SQL query is limited to a single line in the Query field.
180827100	iWay SDK: BUILDAPP should create required ITA files from iwtemplate files.
180823038	Users with an Active Directory (AD) account can access the base configuration in read-only mode without monitoring rights.
180716012	New feature request to allow support for data providers in database listeners.
180606084*	Add name for managed server to the SNMP output.
180525082	Envoy must be SSL-enabled.
180520004	Transformer Group Aggregation Error.
180427038	SFTP: Intermittent error with two different SFTP servers. JSch: Invalid encoding for signature.
180321055	BUG: Transform sorting removes segment level.
171102038	NFR: Default value for the Replace function in Transformer.

**Note:** Cases denoted by an asterisk (\*) indicate that the case was resolved outside of programming by changes to the existing configuration or providing additional instructions.

## iWay Version 8.0.2

This section provides a reference to the resolved customer cases in iWay version 8.0.2.

IRN Number	Summary
23363529	iWay BAM console does not show transactions (with SQL Server).
180823031	HIPAA 999 acknowledgement file fails on error in NM1 segments.
180801063	SWIFT 2018: MT564 E2 22F bad rule.
180713031	Unable to open process flows in iIT version 8 (when migrated from iWay version 6.1).
180619004	File Agent fails to report an error (it does on the log) when failing to rename the <i>ipaytemp</i> file.
180614031	Does iWay version 7.0.6 support Excel 2013 (.xlsx) files?
180613020	iWay 8 API endpoint containing a Join object generates an error.
180607050	The XDNHttpEmitAgent fails to parse a text/XML response that is valid XML. Other tools work fine.
180530056	Process flows from a 7.0.7 project imported into 8.0.1 fail to compile.
180530056	iIT 8.0.1 - Exception - Cannot locate compiled version of process flow.
180514024	Deployment errors continue to occur (blocked or exception exploding).



IRN Number	Summary
180511066	SFTP Direct File Transfer - Timeout?
180511018	RDBMS adapter does not support data source.
180510052	NFR MQ Emit object password validation.
180510034	The MQ Emit agent in iIT is prompting for a password even though authentication is set to <i>false</i> .
180509074	Failover iSM server instance continues to process redundantly after re-syncing with the primary iSM server instance.
180507081	iIT 8.0 property description formatting is displayed incorrectly
180411032	PGP Decrypt Preparser is sending error documents through the process flow.
180410069	RVI Gateway listener special register button does not return register names.
180405031	nAS2 Listener   Async MDN Dispatch   Support for Basic Authentication.
180405030	nAS2 Emit Agent   Support for AES-256 Encryption Algorithm.
180327040	MQ fails to connect to MQ using SSL.
180313052	XML to JSON conversion needs to add an array.
180309008	How do you convert time on the server by time zone?
180308030	MQ Emitter in Iterator holding connection to queues until process is complete.

IRN Number	Summary
180302065	Since switching from TDS LDAP to AD, Magnify iWay process flows are generating HTTP errors.
180215073	Base - SOAP channel - must use the <i>blue</i> console, can't restart secure SOAP channel.
180205051	SSH Provider in Deployment Template Builder has old options for SSH Factories.
180117068	The iwsystray.exe file needs to be signed, which currently prompts for User Account Control in Windows.
171208047	How do you disable the external entity expansion feature in the server's XML parser?
171108066	XDSFTPEmitAgent: Need MFT feature as in XDNFTPEmitAgent.
171020012	Transformation Execution   Output Differences   iIT Test vs. Runtime.

### iWay Integration Tools 8.0.1 Update 1 (8.0.1.R20180719-1955)

This section provides a reference to the resolved customer cases in iWay Integration Tools (iIT) 8.0.1 Update 1 (8.0.1.R20180719-1955).

IRN Number	Summary
IIT-565 / IDEV-38	Add the ability to drag and drop an adapter from the Integration Explorer tab to the Process Flow Designer.
IIT-556 / 180604074	Upgrading IIT from version 7 to version 8.0.1.

IRN Number	Summary
IIT-550 / 180530056	Process flows from a 7.0.7 project imported into 8.0.1 fail to compile.
IIT-539	The required MQ password field setting is not honored.
IIT-532	Wrong encoding in process flow.
IDEV-37	Annotations in process flows created in version 7.0.6 are not being migrated to version 8.0.1.

## iWay Version 8.0.1

This section provides a reference to the resolved customer cases in iWay version 8.0.1.

IRN Number	Summary
180327040	MQ Listener using SSL fails to connect to MQ after Application deployment from IIT.
180308030	JMS Emitter in Iterator holds connection to queues until a process is complete
180302042	NPE when trying to SSL, enable the iSM application.
180226066	Data field beginning with an unmatched apostrophe corrupts data.
180223037	_length function generates an exception on missing SREG.
180221062	First element derived from inbound CSV is being corrupted.
180221026	What is the highest version of MQ supported by iSM 6.1.5?

IRN Number	Summary
180216022	iFL call generates an exception during startup.
180215026	Changing Content-type header does not update on second request.
180215016	iSM 8: Using _sreg parameters as query-parameters for the REST service.
180207073	iIT 8: Cannot copy pre-execution / post-execution items between objects.
180201043	com.ibi.nftp.client.XDFTPSCClient cannot be cast to com.ibi.nftp.client.XDFTPClient.
180125046	BAM Driver generates the following error: "Error in transaction, while inserting into sreg and channel info table".
171218066	LDAP NFR/Change to Support SOX External Audit Compliance.
171214056	Security Provider defined for JKS KeyStore does not work when connecting to MQ using JMS.
171208052	XDXQueryAgent does not output TREE trace in the iSM log.
171205055	SAP listener fails on receipt of document from SAP: com.sap.conn.jco.AbapException.
171130071	iIA with two SOAP listeners: One seems to be the "primary". The second listener does not work if the first listener is stopped.
171127064	LDAP Directory Provider does not support StartTLS.
171115094	Secure SOAP channel does not create WSDL?

IRN Number	Summary
171114032	Passing parameters from a channel to shutdown a process flow.
171110048	Command console display issues in the iSM Administration Console.
171110045	Creating a Secure Shell Provider requires an Authentication Realm to be created in the base configuration.
171108068	XDSFTPDirectFileTransfer missing Put File Protection: Please add.
171108034	NFR - Force a template to use the master user ID / password if not supplied in the template.
171107077	iSM 7.0.7 FTP cache does not connect to FileZilla server 0.9.60.2 when minimum TLS version is set to 2.
171102032	JMS Emitter dropping the message in base64 format.
171005039	How do I save an FTP transaction log within a process flow?
170802087	LDAP - Is there any way to add a user to an existing Active Directory group using the LDAP adapter?
170621090	BAM resubmit functionality: Queue not defined.
170519046	NFR: LDAP password management (second part of COTY case).
170419047	MQ Emitter for Clustered Queues.
161111050	BAM Correlation History query taking a lot of database resources.

IRN Number	Summary
120153539	BAM errors when numerous User Defined columns exist.

## iWay Version 8.0

This section provides a reference to the resolved customer cases in iWay version 8.0. Some of the cases listed in the following table have also been patched to the iWay version 7.x level and have been provided as updates in iWay version 7.0.7 and higher. These resolved issues are also included in any upcoming service pack releases.

IRN Number	Summary
171116029	Encountering Invalid Iteration Semantics Error Termination of Process Flow.
171114041	BAM 7.0.6 anomaly: La conversion d'un type de données varchar en type de données datetime.
171110017	Unable to execute the same web service twice.
171026024	HTTP Emit Agent does not emit document when content is stream.
171017050	HIPAA - errors seen processing 837P EDI files with new Ebix file provided in case (170927058).
171017020	Need assistance determining connection setup for a BI execution object.
171010067	FTP Agent checking more than necessary directories for an absolute file path.
171006037	HIPAA - errors seen processing 837I EDI files with old and new ebix file provided in case (170927058).

IRN Number	Summary
170920080	Add another super user / group equivalent to ism.admin.
170920062	Secure iWay Administration Console.
170920037	Adapter - got exception: java.sql.SQLRecoverableException: Closed Connection[StoredProcedure.
170915021	Transform failing to work when using the word Provisionsempfänger in a constant value.
170915006	Channel Redeployment issue.
170908058	XDFTPClientSterlingUnix - getFTPFile - double path on GET (see 170228094) ComData - Sterling Unix.
170907055	iSM 7.0.7-P2064.1537 - Error on "put protection" file rename after upload of initial file.
170907053	Since upgrading to iWay version 7.0.7, the logs are filling up with "ActiveSession" logs at the rate of one log-per-hour.
170905002	BAM - Parse And Validate Error.
170829084	Hexadecimal to Text & Vice-versa.
170825068	Transforming from XML to HTML tables only first table gets column HDR definition.
170822051	iSM 7.0.5 - FTP agent (not sure which one) - logging "INFO" when I think it should be "DEBUG".
170815027	iWay Service Manager Production License Key Request.

IRN Number	Summary
170809072	XDSQLError agent will not accept _flatof() as a value for a User Properties value.
170803013	SFTP emitter - only moves 2 GB for a 4 GB file.
170725031	ISM for MS Dynamics - Azure Bus.
170720085	The JCRAFT API In ISM 800 Needs To Be Updated From Version 0151 TO 0154.
170713046	Our ISM/iWay environment suffers from JVM problems.
170629085	iSM 7.0.7 - TLS FTP connection - No trusted certificate found.
170628033	POC support for Kafka.
170628003	SWIFT 2017 - MT535 _90a tag has incorrect ordering of tags in schema.
170612101	iSM 7.0.7 FTP Server listing filenames with directory structure as name.
170602012	FTP Dir List Agent with Creation Date and Time.
170519046	NFR for role of ism.admin LDAP group in console.
170516027	User can not log into FTP.
170515062	File Listener Improper File Reprocessing (8,000+ IDOC upload to SAP).
170511059	XDFailAgent - pflow 7.0.5+, Properties has Bypass Catch Processing, XML missing nocatch PROPERTYITEM.



IRN Number	Summary
170508097	NRF - Want NHTTP listener option to generate an event for POST request.
170419047	MQ Emitter for Clustered Queues.
170412077	iSM 7.0.7 (and before?) File Emit does not evaluate _sreg() value when setting "Append" property.
170412046	iWay Cloud Roadmap for BNS.
170412038	Nine digit issue in HWM listener.
170412006	URL encoding error in listener (or my understanding of how it works).
170411007	nHTTPEmitAgent   POST   MultiPart Data   Content-Type.
170331078	XML to JSON inconsistency handling digits as string.
170329021	iSM Decision Switch Routing Not Working.
170327016	How to pass a value from a BI Object to a WebFOCUS variable.
170324062	Need to confirm SFTP agents will work with SHA-2 (Prudential is discontinuing SHA-1 support).
170322037	IPv6 addresses don't work with BAM.
170321043	iWay is putting a double path when doing an SFTP Dir List when home folder is not root - FirstData.
170314012	Oracle Apps Procedures schemas are generated with invalid namespace.

IRN Number	Summary
170228094	XDNFTPDirectFileTransfer - Not working with ComData (problem when home DIR is not ROOT?).
170227070	Add read to EOL to NTCP listener.
170206001	IRL:Testing IRN.
170203089	XDSFTPEmitAgent not falling back to SCP like XDSFTPDirectFileTransfer does? (file is as directory?).
170202086	XDNFTPDirListAgent (ftp.theworknumber.com): Unable to setup file list; '/' is either missing...
170127045	Another FTP connection that will not work.
170127001	Support STR-Transform for XML Digital Signature.
170124088	Feature request - SFTP - Add Validate Host Keys \ Host Key Repository in service properties.
170110025	Pipe with header channel is not stripping out the header record before processing.
170103055	XDNFTPEmitAgent - Unexpected exception not triggering catch?
161220053	iWaySDK 7.0.6 won't build due to error not encountered during build in iIT or 7.0.4.
161219101	Enhancement Request: Schedule Provider Next \ Last Run showing per selected calendar time?
161209020	Microsoft Excel tool adapters.

IRN Number	Summary
161206067	Need a way to get Hex Values to be selectable when creating X12 data.
161206022	Cannot read and then delete a file in the same process flow using the Samba agent.
161107007	Temp space filling up by iWay Clob queries.
161104067	FTP Operator Delete: General failure: 451 Requested action aborted: session in inconsistent state.
161021032	Envoy startup issues - random?
160919086	RN#160919086 A Oracle SQL query that works in Oracle cannot be run by iSM SQL Object.
160810059	IRN#160810059 iwayworkdir in console resolving to "base" path instead of iIA path.
160804006	IRN#160804006 Salesforce Adapter's persistence not working as expected.
160723001	IRN#160723001 _iwexists - (anoy exist rrelated IFL) does not return true if sreg has blank value.
160720094	IRN#160720094 Error: Error doing runtime transform [xslt]: Document construction [string] failed.
160524013	IRN#160524013 xQuery in _IF   iFL Compilation Error.
160518037	IRN#160518037 TPN web page is not showing anything after signing on.

IRN Number	Summary
123623515	IRN#23623515 Force array on JSON objects.

## Known Issues and Considerations

This section describes known issues and considerations in iWay version 8.0.6.

### Connector for SharePoint Multi-Factor Authentication

As is typical with server-to-server applications, the Connector for SharePoint does not support Multi-Factor Authentication. The Security Defaults feature of Azure Active Directory enforces Multi-Factor Authentication and is therefore incompatible with the connector. Azure Active Directory Conditional Access security without Multi-Factor Authentication must be used, instead.

The following procedure describes how to disable Security Defaults in the Azure Active Directory portal:

1. Sign in to the Azure Portal from <https://aad.portal.azure.com/>.
2. From the left pane, select *Azure Active Directory* and then select *Properties*.
3. From the right pane, select *Manage Security defaults*.
4. Change the Enable Security defaults setting to *No*.
5. Click *Save*.

### Upgrading iWay Integration Tools

**Important:** The Eclipse auto upgrade function does not work when upgrading iWay Integration Tools (iIT) from Version 8.0.5 to Version 8.0.6. In order to upgrade iIT from Version 8.0.5 to Version 8.0.6, you must install Version 8.0.6 and import your Version 8.0.5 configuration.

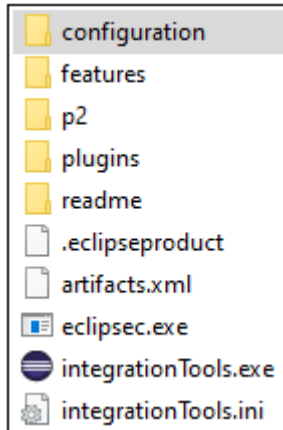
### Git Support in iWay Integration Tools

iWay Integration Tools (iIT) enables you to install and integrate the Git open source distributed version control system. Due to a bug in the Git plugin for Eclipse, after installing iIT, you must perform the following steps to enable integration with Git:

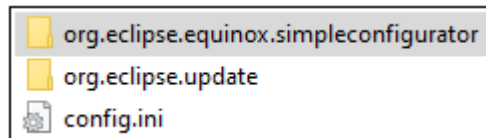
1. Close iWay Integration Tools (iIT).
2. Navigate to the location on your file system where iIT is installed. For example:

`C:\iIT_806`

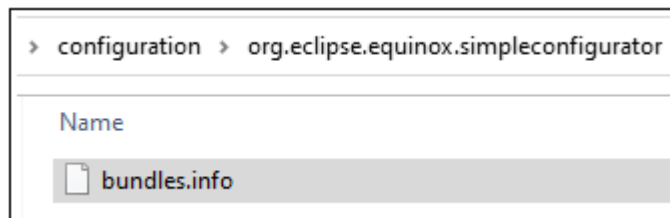
3. Open the *configuration* subfolder, as shown in the following image.



4. Open the *org.eclipse.equinox.simpleconfigurator* subfolder, as shown in the following image.



The *org.eclipse.equinox.simpleconfigurator* subfolder contains the *bundles.info* file, as shown in the following image.



5. Edit the *bundles.info* file using a text editor (for example, Notepad).
6. Search for the following line in the *bundles.info* file:

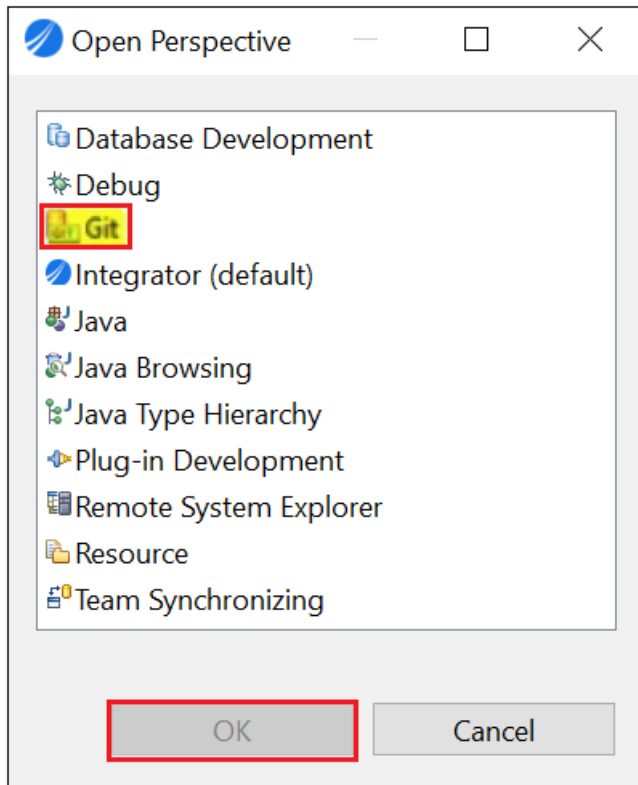
```
org.slf4j.api,1.7.2.v20121108-1250,plugins/  
org.slf4j.api_1.7.2.v20121108-1250.jar,4,false
```

7. Delete this line.
8. Save the *bundles.info* file.
9. Open iIT.

10. Click the *Open Perspective* icon on the toolbar, as shown in the following image.

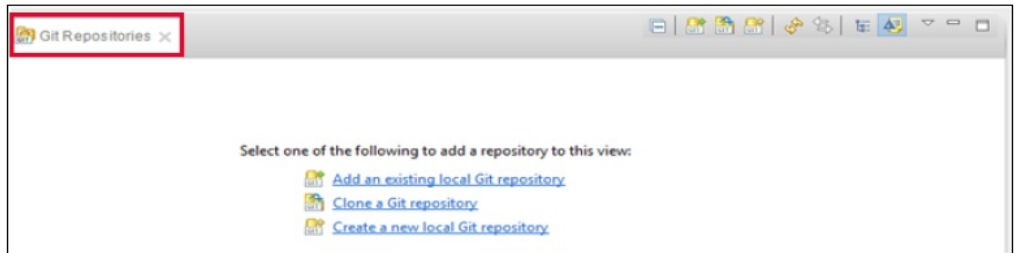


The Open Perspective dialog box opens, as shown in the following image.



11. Select *Git* from the list of available perspectives, and then click *OK*.

You are returned to iIT, where the Git perspective is now implemented, from which you can select and work with your Git repositories, as shown in the following image.



## iWay Application Adapters

This section describes known issues and considerations for iWay Application Adapters in iWay.

### Deprecated

- ❑ The Microsoft Dynamics CRM 2011 (MS CRM 2011) adapter is deprecated and will be removed in the next release of iWay 8, as the underlying application has been removed from extended support by Microsoft. Event functionality has also been deprecated as this ability has been removed by Microsoft. If you have a requirement for continuing support for this adapter and related components, please contact *Information Builders Customer Support*.
- ❑ Microsoft Exchange supports Exchange Web Services at the Exchange 2010 level. This adapter is deprecated and will be removed in the next release of iWay 8, as the underlying application has been removed from extended support by Microsoft. The Exchange Web Services API .jar file is no longer available from Microsoft, but can be found on GitHub. If you have a requirement for continuing support for this adapter at the Exchange 2010 support level and related components, please contact *Information Builders Customer Support*.

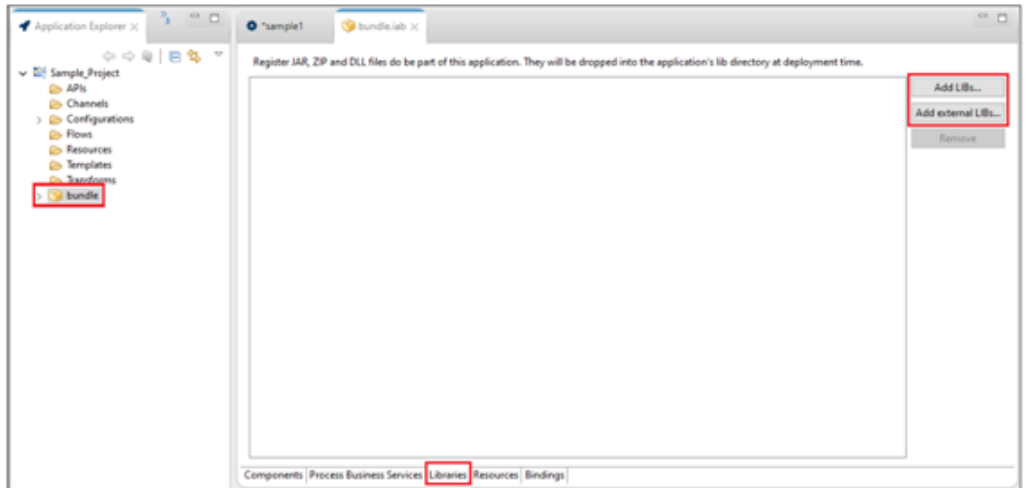
### Updated Adapter Configuration Process

iWay 8 now uses the concept of Application Projects as separate containers for adapter instances. Adapters are no longer installed as system-wide instances, rather Application Projects and their dependencies are designed in isolation and packaged together and deployed to the runtime. This provides improved isolation of applications and efficient use and allocation of system resources.

Applications can be tested and run from the design-time area without deployment during development, so iterative development can take place.

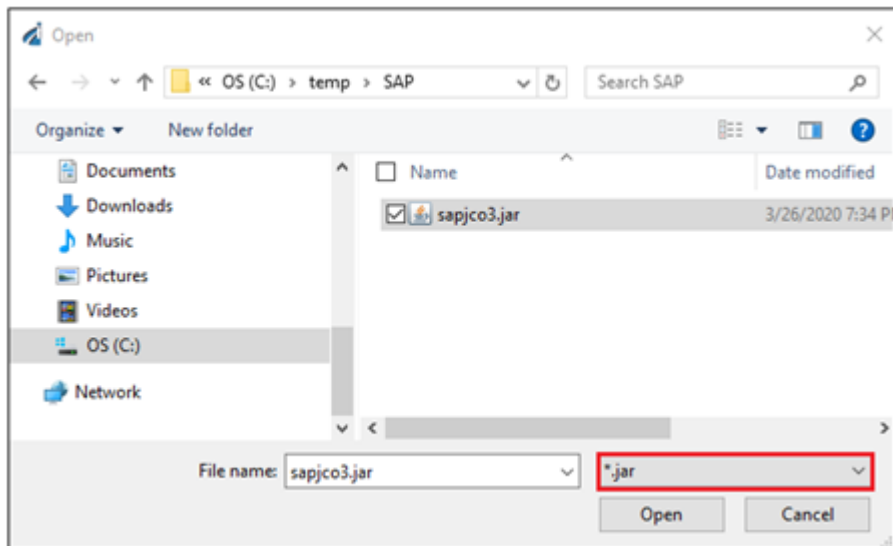
To configure an adapter in iWay Integration Tools (iIT):

1. Create a new Application Project for an adapter to be used.
2. Double-click the *bundle* object in the Application Project hierarchy (Application Explorer tab), and then click the *Libraries* tab in the right pane, as shown in the following image.



3. Click **Add external LIBs** to locate and select the third-party resource (.jar, .dll, .zip) that may be needed from your file system.

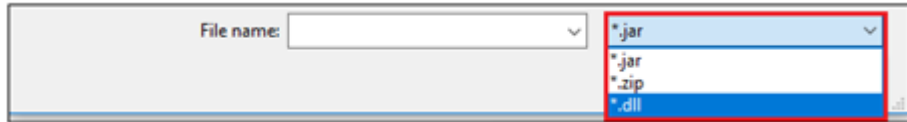
The Open dialog is displayed, as shown in the following image.



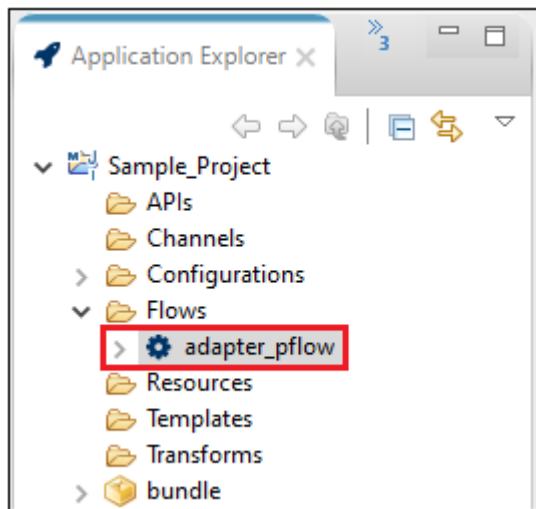


For example, for SAP ERP on Windows, you must add the *sapjco3.jar* and *sapjco3.dll* files to the Libraries tab, which will add these files to the Application Project's \lib folder during deployment.

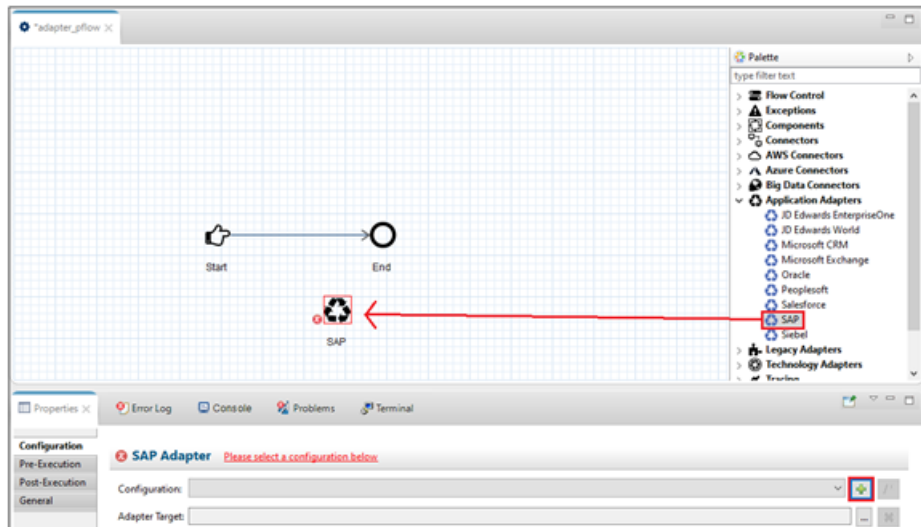
**Note:** The file type drop-down list in the Open dialog defaults to *.jar*. When adding dependencies that incorporate dynamic-link libraries (such as Windows *.dll* files), expand the file type drop-down list and select *.dll* or *.zip*, according to the appropriate type you require, as shown in the following image.



4. Create a new process flow in your Application Project (Flows subfolder), as shown in the following image.

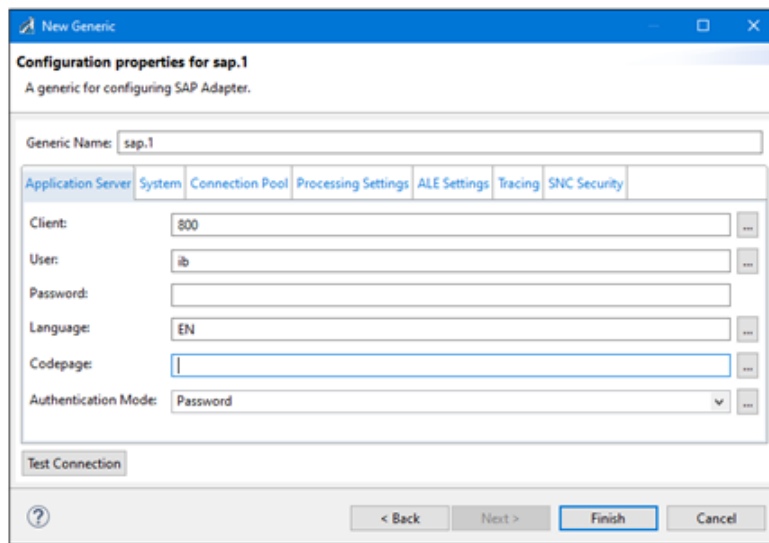


5. In the process flow, drag an Application Adapter (or Technology Adapter) onto the process flow canvas, as shown in the following image.

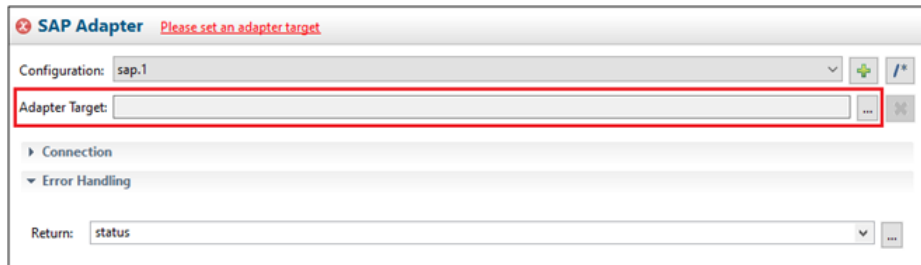


When the adapter object is added to the process flow canvas, the adapter configuration properties open with the name of the adapter as the header (for example, SAP Adapter).

6. Click the *green plus sign icon* (Create a configuration) to the right of the Configuration field. The New Generic dialog opens, as shown in the following image.



7. Enter the required connection information and login credentials for the system you are connecting to (for example, SAP ERP).
8. Click *Test Connection* to validate, and then click *Finish*.
9. Set an adapter target to use and explore based on the system you have connected (for example, SAP ERP). Click the *ellipsis* button (...) to the right of the Adapter Target field, as shown in the following image.

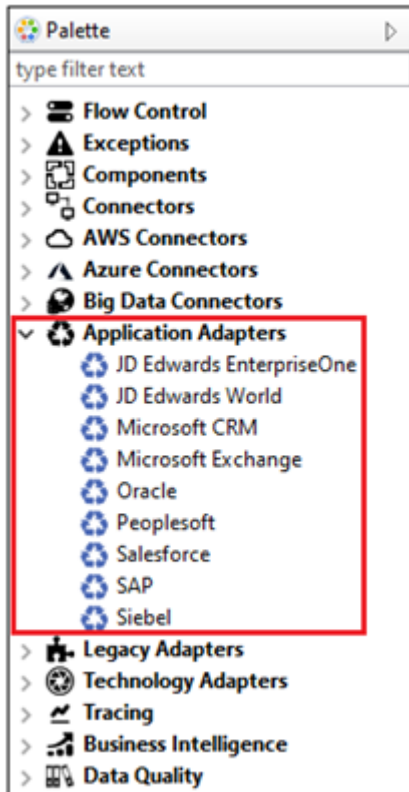


10. Select an available remote object (function or module) to be invoked on the target host.
11. Once your adapter target configuration is completed, return to the process flow.

For more information about testing, running, and deploying process flows and applications, see the *iWay Integration Tools* documentation.

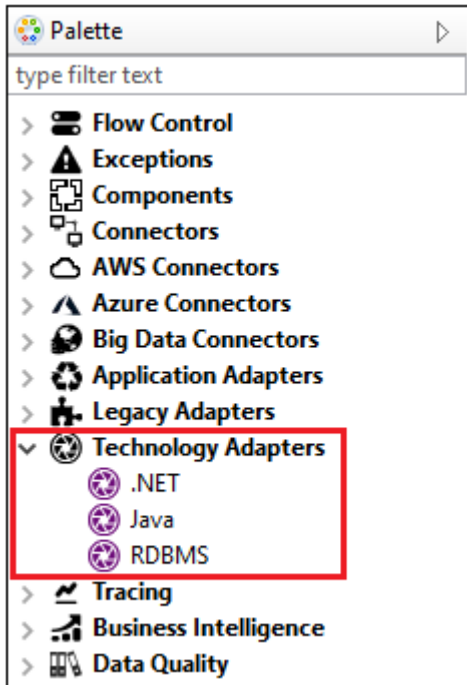
## Available Application Adapters

The following *Application Adapters* are available from the Palette in iWay Integration Tools (iIT), which you can add to process flows in your Application Project.



## Available Technology Adapters

The following *Technology Adapters* are available from the Palette in iWay Integration Tools (iIT), which you can add to process flows in your Application Project.



## Event Handling

Adapter-specific Ports and Channels are deprecated in iWay 8 and have been removed from the product. For the following adapters, events are captured by using event listeners in the adapter configuration. They are added using Channels in the Application Project that trigger a process flow. Create a Channel and select one of the following adapters as a listener:

- ☐ ConnectDirect
- ☐ SAP (SAP ERP)
- ☐ LDAP
- ☐ MSMQ

For the following adapters, use an RDBMS, HTTP, or SOAP Listener in the channel to capture application events:

- ☐ JD Edwards EnterpriseOne
- ☐ JD Edwards World
- ☐ Siebel
- ☐ Salesforce
- ☐ PeopleSoft
- ☐ Oracle (Oracle Applications)
- ☐ RDBMS

### **iWay Business Activity Monitor**

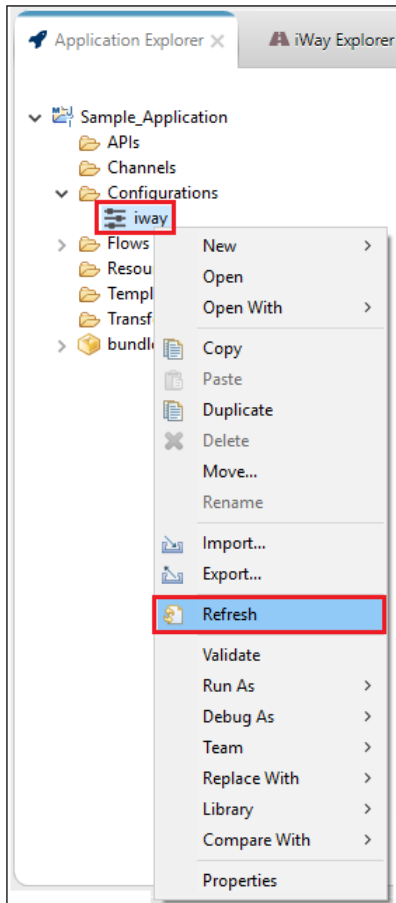
iWay Business Activity Monitor (BAM) requires the creation of a new database. An existing iWay BAM database (created in iWay version 7.x) can be archived for future access through standard database utilities. There are known issues with the resubmit functionality of iWay BAM in iWay version 8.0, due to repackaging into the application structure. For more information or if you have any questions, contact iWay Customer Support.

### **Process Flow Test-Run (z/OS)**

On z/OS platforms, a *test run* for a process flow from iWay Integration Tools (iIT) can be performed only against the local configuration or a remote configuration. The *test run* against a test server is not supported at this time.

## Updating the iWay Configuration File Metadata

Metadata for the iWay configuration file, which contains definitions for generics/configurations, can be updated to the latest iWay version using the *Refresh* option. Doing so will bring in the options for newer components that are available in the latest iWay version. To update your metadata using iWay Integration Tools (iIT), expand the *Configurations* subfolder in your application project, right-click the iWay configuration file (*iway* node), and select *Refresh* from the context menu, as shown in the following image.



If you create a new configuration from within a process flow, then this step is not required. In this case, metadata for the iWay configuration file will be refreshed automatically for any components that are used.

### WebFOCUS Support

Due to WebFOCUS security model changes, including internal API changes, you must disable the new WebFOCUS security model to enable existing iWay applications to run against WebFOCUS. This will be addressed in a future iWay release, where the new WebFOCUS security model will be supported.

☐ **iWay WF Object.**

- ☐ Fully supports WebFOCUS version 80xx with no additional configuration required.
- ☐ If you are using this object with WebFOCUS version 82xx, Application Folders are supported, but not Virtual folders.

☐ **ReportCaster Object.**

- ☐ Fully supports WebFOCUS version 80xx with no additional configuration required.
- ☐ If you are using this object with WebFOCUS version 82xx, you must uncheck the *Cross Site Request Forgery Protection* setting in the WebFOCUS Administration Console.

☐ **ETL Object.** Supports WebFOCUS version 80xx and version 82xx.

### Key Features

This section provides a summary of key features available in iWay Service Manager (ISM) and iWay Integration Tools (iIT) in version 8.0.6.

### Connector for SMB/SAMBA

iIT version 8.0.6 introduces the Connector for SMB/SAMBA, which enables an application (or the user of an application) to access files on a remote server. Thus, a client application can open, read, move, create, and update files on the remote server.

Connections used by all operations in this connector are defined by a connection configuration. In this sense, and according to iIT internal rules, there are three possible connection configurations:

- ☐ **Samba Source.** Defines a connection for operations that only access a single file and the file is considered a source or object of the operation (e.g., `exist()`, `size()`, and so on).
- ☐ **Samba Target.** Defines a connection that only accesses a single file and the file is the target of the operation.
- ☐ **Samba Source-Target.** Defines a pair of connections for operations that use an operation source file and an operation target file.



Using these three connection configurations helps differentiate between operation parameters.

The Connector for SMB/SAMBA supports the following agents/operations:

- ☐ **List.** Lists the content of an SMB accessible folder.
- ☐ **Copy File.** Copies a source SMB accessible file to a SMB accessible target location.
- ☐ **Move File.** Moves a file to another SMB accessible location.
- ☐ **Create Folder (mkdir).** Create a folder in a SMB accessible location.
- ☐ **Append Content of a File to Another File.** Appends the content of an SMB accessible file (source) to another SMB accessible SMB file (target).
- ☐ **Prepend Content of a File to Another File.** Prepends the content of an SMB accessible file (source) to another SMB accessible SMB file (target).
- ☐ **Delete File/Folder.** Deletes a file or folder.
- ☐ **File/Folder Exists.** Determines if a file or folder exists.
- ☐ **File Size.** Retrieves the files size in a variable whose name is described by the user.
- ☐ **Upload.** Uploads (writes) file content to a SMB accessible location.
- ☐ **Read SMB File Content.** Reads the content of a SMB accessible file.
- ☐ **Rename File/Folder.** Renames an accessible SMB file or a folder.

## Connector for Azure Service Bus Messaging

iIT version 8.0.6 introduces the Connector for Azure Service Bus Messaging, which enables integration scenarios to Azure Service Bus which is a cloud-hosted messaging service between applications and services. Support for queues, topics and event hubs is provided, with messages being sent / received. The native protocol used is AMQP 1.0.

The Connector for Azure Service Bus Messaging supports the following actions:

- ☐ **Abandon.** Abandons a message stored in the current receiver (equivalent to a NACK operation). This operation can be used only from inside a flow that also includes a Message Listener Source operation.
- ☐ **Complete.** Completes a message received from within a flow with a Message Listener operation in the current source. This is equivalent to an Acknowledge operation.
- ☐ **Dead Letter.** Moves a message received by the Azure Service Bus listener to the dead letter sub-queue.

- ❑ **Get Session.** Retrieves the state of a session in a queue or subscription.
- ❑ **Peek.** Reads a message from a queue or subscription without changing the state of the receiver or the message source.
- ❑ **Receive.** Receives a message from a specific queue or subscription. In this version of the connector, only Immediate Receive Mode (RECEIVEANDDELETE) is supported.
- ❑ **Receive Batch.** Receives a maximum of *maxMessageCount* messages from a specific queue or subscription. In this version of the connector, only Immediate Receive Mode (RECEIVEANDDELETE) is supported.
- ❑ **Send.** Sends a message to a queue or topic.
- ❑ **Send Batch of Messages.** Sends a list of messages to a queue or topic.
- ❑ **Set Session State.** Sets the state of a session in a queue or subscription.

### Connector for Azure Data Lake Storage

iIT version 8.0.6 introduces the Connector for Azure Data Lake Storage, which enables you to build a process flow to integrate with Azure Data Lake Storage, allowing you to easily manage large amounts of data. Azure Data Lake Storage supports multiple file formats:

- ❑ Avro
- ❑ Binary
- ❑ Delimited Text
- ❑ Excel
- ❑ JSON
- ❑ ORC
- ❑ Parquet
- ❑ XML

The Connector for Azure Data Lake Storage supports the following *file system* actions:

- ❑ **Create.** Creates a file system on the storage account.
- ❑ **Delete.** Deletes a file system on the storage account.
- ❑ **List.** Lists all the file systems on the storage account.

The Connector for Azure Data Lake Storage supports the following *path* actions:

- ❑ **Create/Rename.** Creates or renames a file or directory path on the provided file system.
- ❑ **Delete.** Deletes a path.
- ❑ **Get Properties.** Retrieves the properties of a path.
- ❑ **Lease.** Creates and manages a lease to restrict write and delete access to the path.
- ❑ **List.** Lists all the paths of a file system.
- ❑ **Read.** Reads the contents of a file.
- ❑ **Update.** Uploads data to append to a file, flushes (writes) previously uploaded data to a file, sets properties for a file or directory, or sets access control for a file or directory.

## Connector for Salesforce (Event Handling)

iIT version 8.0.5 provided the Connector for Salesforce, enabling you to connect to Salesforce and work with Salesforce REST APIs to perform management-related tasks. iIT version 8.0.6 introduces event handling capabilities using the Connector for Salesforce.

Salesforce Event Listeners are used to receive Salesforce events through the Streaming API, which enables streaming of events using Push Technology and those events received at real time via subscription mechanism.

There are two types of Salesforce Event Listeners:

- ❑ Subscribe Channel Listener
- ❑ Replay Channel Listener

Both listeners can subscribe to a published streaming channel or topic, and retrieve new events that occur after you subscribe. The Salesforce Replay Channel Listener differs from Salesforce Subscribe Channel Listener in that the former can also retrieve previous stored events (Salesforce stores events for 24 hours), subscribers can choose which events to receive by using replay options, while the latter cannot.

Salesforce Event Listeners support the following type of events:

### ❑ Platform Event

A Salesforce Platform event is used to deliver secure and scalable custom notifications from Salesforce to external systems. A Platform event is also used to communicate within Salesforce and also between Lightning applications.

The generation of Platform event follows this sequence:

- ☐ Defining your custom Platform event.
- ☐ Publishing the Platform event.
- ☐ Subscribing to the Platform event notifications.

### ☐ **PushTopic Event**

A PushTopic event is a notification that Salesforce sends when a change to a Salesforce record occurs as part of a create, update, delete, or undelete operation. The notification is based on an SOQL query that you define.

Use PushTopic events to:

- ☐ Receive notifications of Salesforce record changes, including create, update, delete, and undelete operations.
- ☐ Capture changes for the fields and records that match a SOQL query.
- ☐ Receive change notifications for only the records a user has access to based on sharing rules.
- ☐ Limit the stream of events to only those events that match a subscription filter.

### ☐ **Generic Event**

Generic events are custom events that contain arbitrary payloads. With a generic event, you cannot define the schema of the event. Use generic events to send custom notifications that are not tied to Salesforce data changes.

To use generic events, you need:

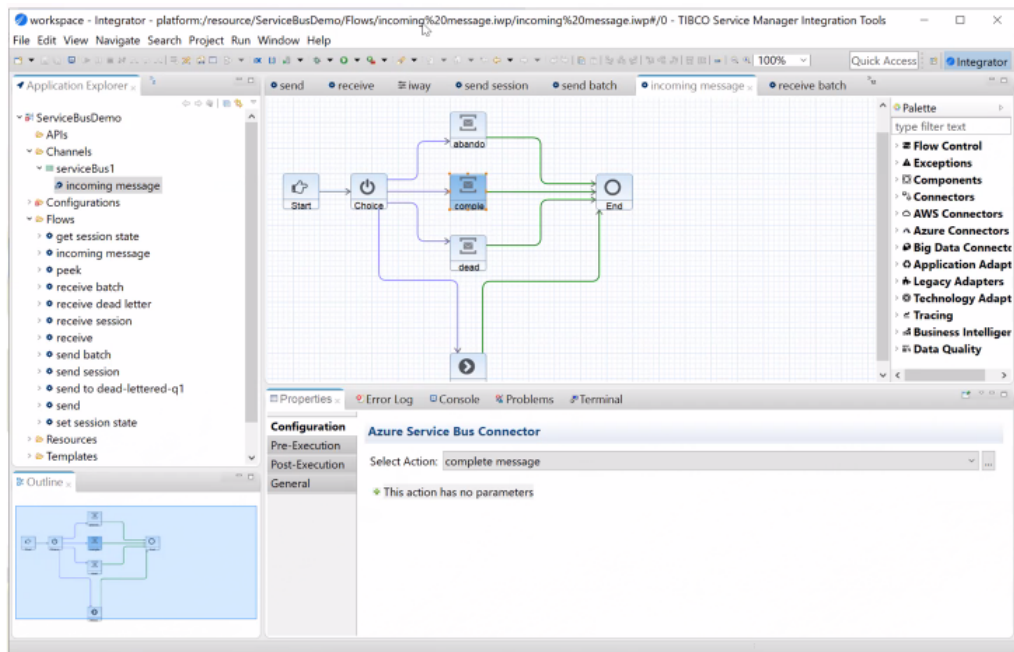
- ☐ A Streaming Channel that defines the channel, with a name that is case-sensitive.
- ☐ One or more clients subscribed to the channel.
- ☐ The Streaming Channel Push REST API resource to monitor and invoke push events on the channel.

### ☐ **Change Data Capture Event**

A Change Data Capture event, or change event, is a notification that Salesforce sends when a change to a Salesforce record occurs as part of a create, update, delete, or undelete operation. The notification includes all new and changed fields, and header fields that contain information about the change. Change events are available for all custom objects and a subset of standard objects.

## Updated Integration Tools Canvas

iIT version 8.0.6 features an updated canvas for improved functionality and usability.



Enhancements include:

- ☐ Improved object alignment when designing process flows.
- ☐ Support for large object descriptions.
- ☐ Object search.
- ☐ Resolved GDI memory leak issue from earlier versions.

## Customer Support

Do you have questions about iWay version 8.0.6?

Join the Focal Point community. Focal Point is our online developer center and more than a message board. It is an interactive network of more than 3,000 developers from almost every profession and industry, collaborating on solutions and sharing tips and techniques, <http://forums.informationbuilders.com/eve/forums>.

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through <https://techsupport.informationbuilders.com>. You can connect to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

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