Adaptive Insights Connector Template and General Guidelines

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INFORMATICA CLOUD ADAPTIVE INSIGHTS CONNECTOR USER GUIDE

Chapter 1 - Introduction to Adaptive Insights Connector

Adaptive Insights Connector can be used to provide connectivity between Adaptive Insights and different ERP systems like Salesforce, Net suite, Intacct etc. This connector gives organizations the ability to streamline data and processes across information systems for operational efficiency, including the automation of training assignments and the moderation of administrative tasks.

Example use case: Data Integration between Adaptive Insights and NetSuite. Reading data from Adaptive and writing data into different ERP systems like NetSuite and viceversa.

Adaptive Insights Connector Overview (Required)

You can use Adaptive Insights Connector to Read and Write data into Adaptive Insights.

Adaptive Insights Connector Task and Object Types (Required)

You can perform Data Synchronization tasks and Mapping Configuration tasks.

The following table lists the Adaptive Insights Connector object types that you can include in Informatica Cloud tasks:

Task Type	Source	Target	Lookup	Data Preview
Data Synchronization	Yes	Yes	NA	Yes
Mapping Configuration Task	Yes	Yes	NA	Yes

Adaptive Insights Objects (Based on content)

You can work with Adaptive Insights objects in Informatica Cloud:

The following table lists the objects that Adaptive Insights Connector supports,

Object Name	Read	Insert	Update	Delete	Upsert
createAccount	NA	Yes	NA	NA	NA
createDimension	NA	Yes	NA	NA	NA
createDimensionValue	NA	Yes	NA	NA	NA
createLevel	NA	Yes	NA	NA	NA
createUser	NA	Yes	NA	NA	NA
exportAccounts	Yes	NA	NA	NA	NA
exportLevels	Yes	NA	NA	NA	NA
exportInstances	Yes	NA	NA	NA	NA

exportLocales	Yes	NA	NA	NA	NA
exportRoles	Yes	NA	NA	NA	NA
exportDimensionFamilies	Yes	NA	NA	NA	NA
exportVersions	Yes	NA	NA	NA	NA
exportCustomerLogo	Yes	NA	NA	NA	NA
exportActiveCurrencies	Yes	NA	NA	NA	NA
updateAccount	NA	NA	Yes	NA	NA
updateDimension	NA	NA	Yes	NA	NA
updateDimensions	NA	NA	Yes	NA	NA
updateDimensionValue	NA	NA	Yes	NA	NA
updateLevel	NA	NA	Yes	NA	NA
publishChanges	NA	NA	NA	NA	NA
importStandardData	NA	Yes	NA	NA	NA
importTransactions	NA	Yes	NA	NA	NA
eraseActuals	NA	NA	NA	Yes	NA
importCubeData	NA	Yes	NA	NA	NA
exportSheetData	Yes	NA	NA	NA	NA

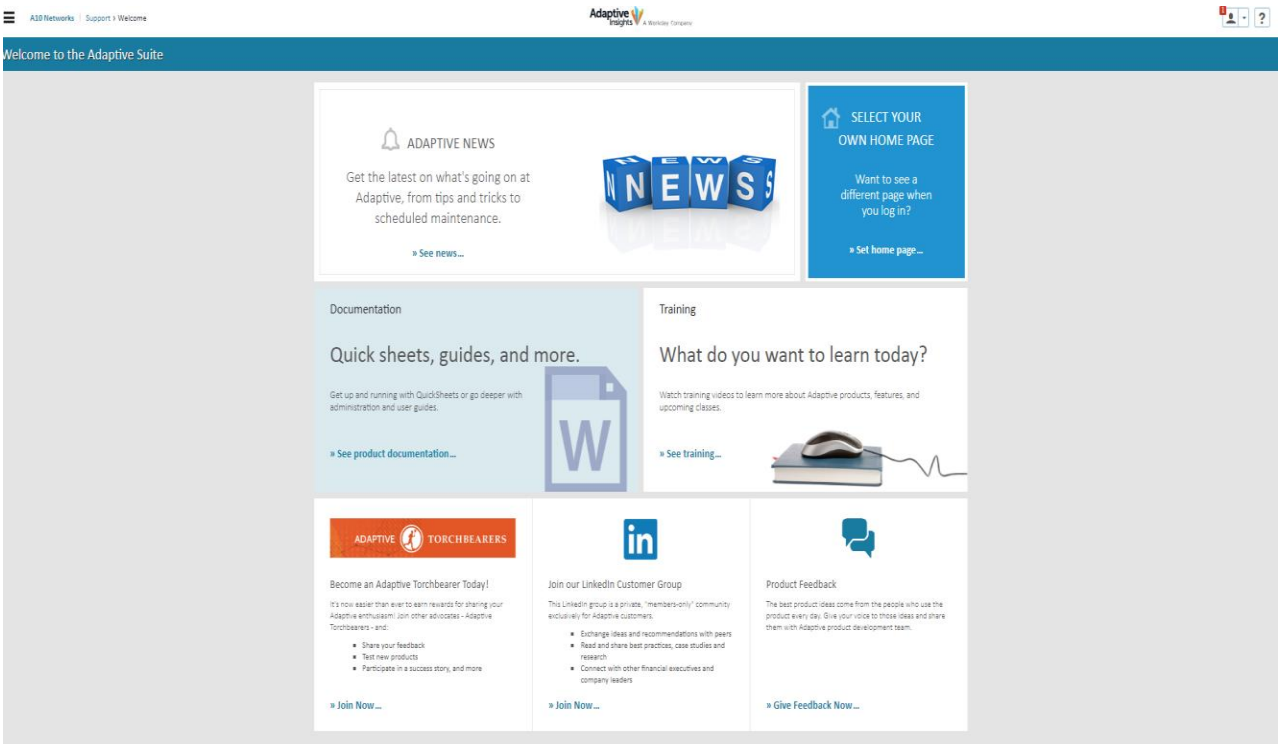
Introduction to Adaptive Insights

Adaptive Insights covers the planning, consolidation, analytics and reporting functions with its Business Planning Cloud. The Adaptive Insights Business Planning Cloud enables a comprehensive set of cloud-based software solutions supported by a powerful, in-memory technology platform that enables functional and company-wide business planning and built-in analytics at very large scale.

Administration of Adaptive Insights Connector (required)

Before you use Adaptive Insights Connector, complete the following prerequisite tasks:

1. Create Adaptive Insights account to access Adaptive Insights.
   Use user name and password as Connection properties.



Chapter 2 - Adaptive Insights Connections

Create an Adaptive Insights connection to read data from Adaptive Insights source and write data into target. You must create a connection for a Adaptive Insights object that you want to connect to. You can use Adaptive Insights connections in Data Synchronization tasks, Mapping Configuration tasks and mappings.

Adaptive Insights Connection Overview

Adaptive Insights connector has 4 connection attributes and out of which 2 are mandatory.

Create a Adaptive Insights connection to access Adaptive Insights data from Informatica Cloud. You can create a connection on the Connections page or when you create a task. After you create a connection, it becomes available to all users who have access to the organization.

Adaptive Insights Connection Properties

When you create Adaptive Insights connection, you must configure the connection properties. The following table describes the Adaptive Insights connection properties:

Connection Attributes	Description
Username	Required.
Password	Required
Locale	Not Mandatory.
Instance code	Mandatory. Default value is https://api.AdaptiveInsights.com/v1.svc
Start Date	Not Mandatory. Range attribute to get the Data
End Date	Not Mandatory. Range attribute to get the Data
Dimensions	Not Mandatory. Get the Data for a specific Dimensions.

Chapter 3 - Data Synchronization Tasks with Adaptive Insights

Adaptive Insights Sources in Data Synchronization Tasks

exportAccounts, exportLevels, exportInstances, exportLocales, exportRoles, exportDimensionFamilies, exportVersions, exportCustomerLogo, exportActiveCurrenciesa and exportSheetData

Adaptive Insights Source properties in Data Synchronization Tasks

Field	**Description**
Connection	Name of the Adaptive Insights source connection.
Source Type	Type of the Adaptive Insights source object available.
Source Object	Name of the source object
Filter	Select the filter condition
Sort	This attribute is not applicable for Adaptive Insights Connector.

exportLevels:

Fieldname	DataType	Example
sheetId	String	sheetId = 2

exportInstances:

Fieldname	DataType	Example
accessibleInstances	String	accessibleInstances = true

exportVersions:

Fieldname	DataType	Example
rootActuals	String	rootActuals= false

exportSheetData:

Fieldname	DataType	Example
Sheet Id	String	Sheet Id = 844
Version Name	String	Version Name= 2020 COP
Level Name	String	Level Name = SINGULARITY UNIVERSITY

Adaptive Insights Targets in Data synchronization Tasks

createAccount, createDimension, createDimensionValue, createLevel, createUser, updateAccount, updateDimension, updateDimensions, updateDimensionValue, updateLevel, publishChanges, importStandardData, importTransactions, eraseActuals, importCubeData

Adaptive Insights Target properties in Data Synchronization Tasks

Field	Description
Connection	Name of the Adaptive Insights target connection.
Target Type	Type of the Adaptive Insights target object available.
Target Object	Name of the target object
Operation	Select the target operation

createAccount:

Fieldname	DataType	Example
parentId	String	parentId = 4
isGroup	String	isGroup = 0
Name	String	name = Mikko
Code	String	code = 12
Description	String	description = abc
shortName	String	shortName = Mik
exchangeRateType	String	exchangeRateType = A
hasSalaryDetail	String	hasSalaryDetail = 1
dataPrivacy	String	dataPrivacy = PRIVATE

createDimension:

Fieldname	DataType	Example
Name	String	dimension_name = nov22

createDimensionValue:

Fieldname	DataType	Example
dimensionId	String	dimensionId = 1323
Name	String	name = truck

createLevel:

Fieldname	DataType	Example
Name	String	name = .net
shortName	String	shortName = .net
parentId	String	parentId = 1

createUser:

Fieldname	DataType	Example
Email	String	email = abc@gmail.com
Name	String	name = Mark

Password	String	password = mark@123
roleId	String	roleId = 1
ownedLevels	String	ownedLevels =
timeZone	String	timeZone = America/Mexico_City

updateAccount:

Fieldname	**DataType**	**Example**
Id	String	id = 3381
Name	String	name = Jack
Code	String	code = mark@123
Description	String	description = 1
shortName	String	shortName = J
exchangeRateType	String	exchangeRateType = A
hasSalaryDetail	String	hasSalaryDetail = 1
dataPrivacy	String	dataPrivacy = private

updateDimension:

Fieldname	**DataType**	**Example**
Name	String	dimension_name = nov22

updateDimensionValue:

Fieldname	**DataType**	**Example**
Id	String	id = 1323
Name	String	name = Squre

updateLevel:

Fieldname	**DataType**	**Example**
Id	String	id = 3525
Name	String	name = Few_Level
shortName	String	shortName = NewLvlName

importStandardData:

Fieldname	**DataType**	**Example**

importDataOptions planOrActuals	String	planOrActuals = Actuals
importDataOptions moveBPtr	String	moveBPtr = false
importDataOptions allowParallel	String	allowParallel = false
importDataOptions useMappings	String	useMappings = false
version name	String	name = From General Ledger
version isDefault	String	isDefault = false
Account	String	Account = 1140_CA_AllowanceDoubtfulAccts
Level	String	Level = Sales - North
Apr_2019	String	Apr_2019 = 19926101.32

importTransactions:

Fieldname	**DataType**	**Example**
importDataOptions allowParallel	String	allowParallel = false
importDataOptions useMappings	String	useMappings = false
Organization	String	Organization = Sales - North
Account	String	Account = 1140_CA_AllowanceDoubtfulAccts
Transaction Type	String	Transaction Type = Invoice
Post Date	String	Post Date = 04/02/2019
Amount	String	Amount = 1236

eraseActuals

Fieldname	**DataType**	**Example**
eraseOptions actualsVersionName	String	actualsVersionName = From General Ledger
eraseOptions accountType	String	accountType = GL
eraseOptions start	String	Start = 4/1/2019
eraseOptions end	String	end = 4/1/2019
eraseOptions includeCellNotes	String	includeCellNotes = true

importCubeData

Fieldname	**DataType**	**Example**
importDataOptions planOrActuals	String	planOrActuals = Actuals
importDataOptions allowParallel	String	allowParallel = false
importDataOptions moveBPtr	String	moveBPtr = false

version name	String	name = From General Ledger
version isDefault	String	isDefault = false
sheet name	String	name = Product Revenue
sheet isUserAssigned	String	isUserAssigned = true
ProductFurniture	String	ProductFurniture = Coffee table
CountryRegion	String	CountryRegion = Argentina
FabricationMachine	String	FabricationMachine = Do-All 15 Vertical
Customer	String	Customer = Price
Account	String	Account = Aeropostale
Level	String	Level = Corporate Plan

Data Synchronization Task Example

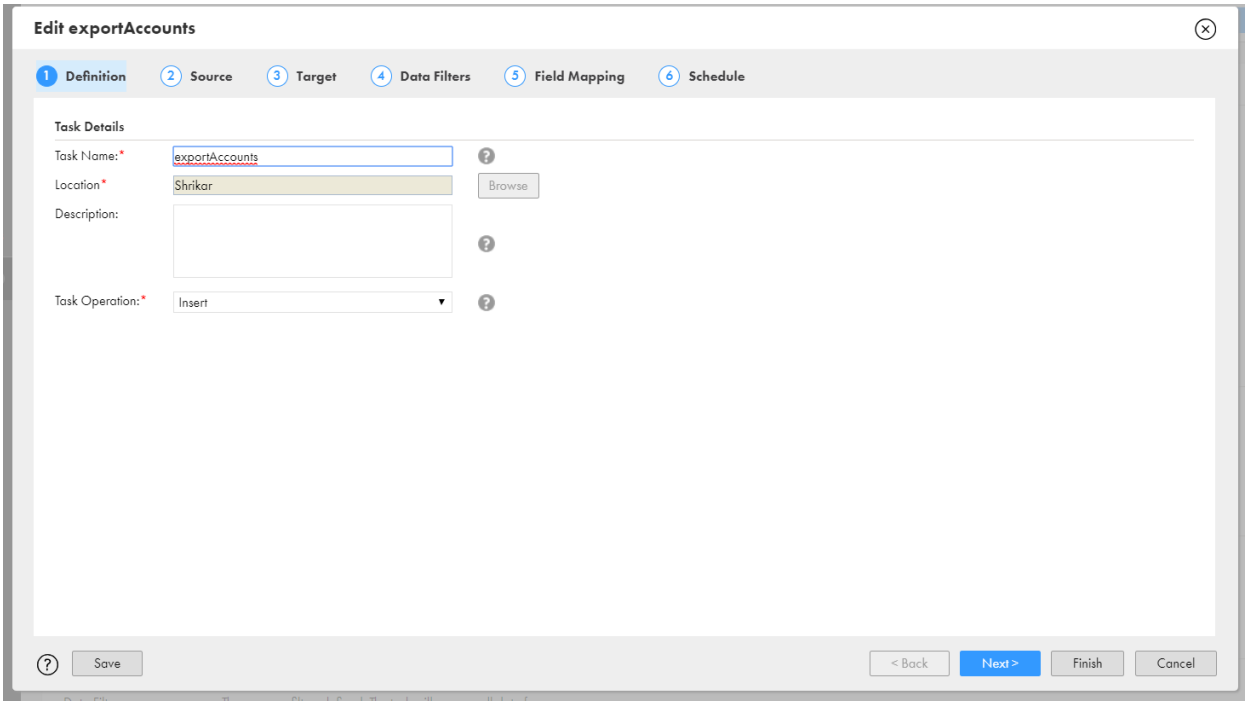
Use case:
Reading the data from adaptive insights and writing it into flat file.

1. <u>Read</u>

Perform the following steps to read data from Adaptive Insights and write data to a flat file:

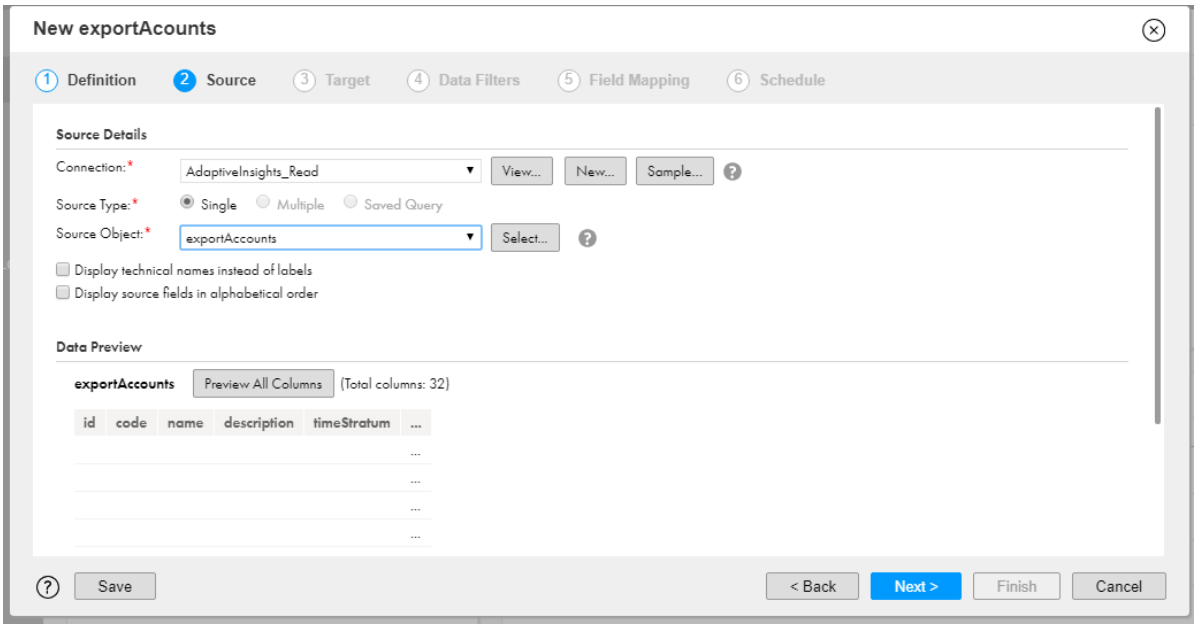
1. Log in to Informatica Intelligent Cloud Services.
2. Select **Data Integration** from the menu.
3. Click **New** > **Tasks** > **Synchronization Task** to create a synchronization task.
4. On the **Definition** tab, configure the following fields:

Field	Description
Task Name	Name of the synchronization task. For example, **exportAccounts**.
Description	Description of the synchronization task. Maximum length is 255 characters.
Task Operation	Select **Insert**.



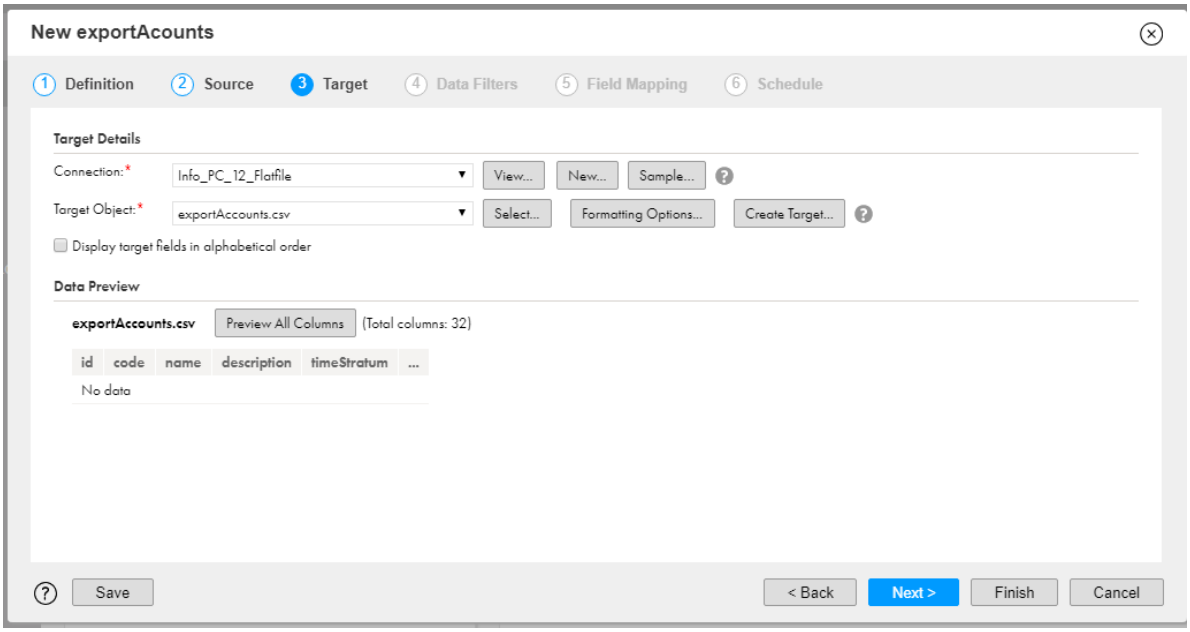
5. Click **Next**.
6. On the **Source** tab, configure the following fields:

Field	Description
Connection	Select the Adaptive Insight connection. For example, **AdaptiveInsights_Read**.
Source Type	Select Single.
Source Object	Select the source object. For example, **exportAccounts**.

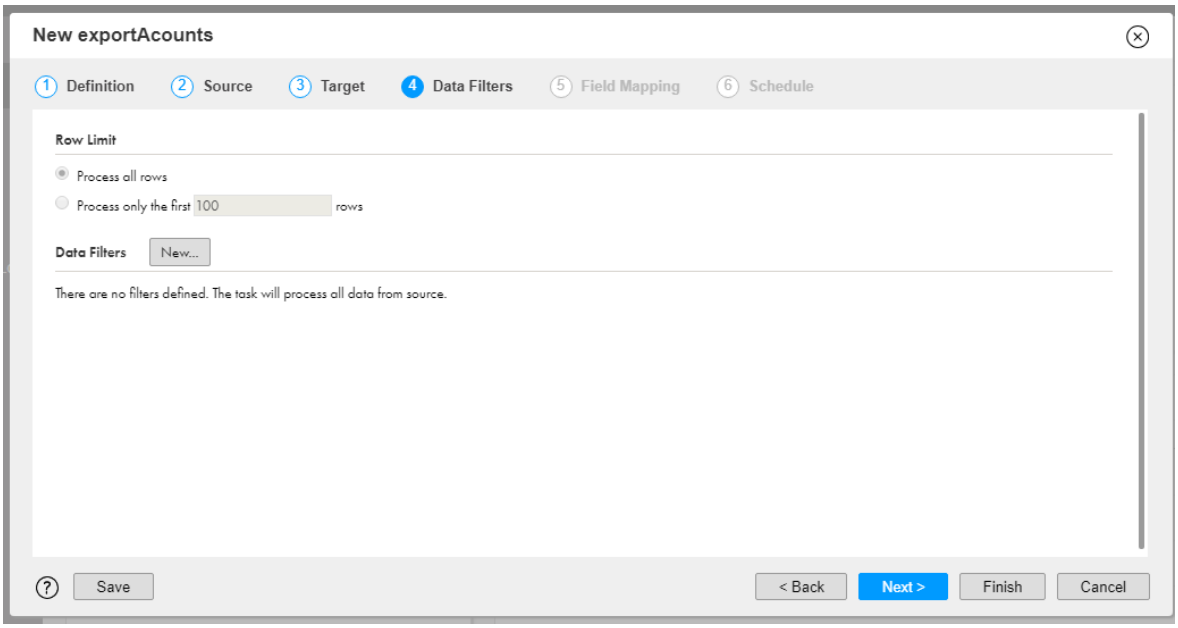


7. Click **Next**.
8. On the **Target** tab, configure the following fields:

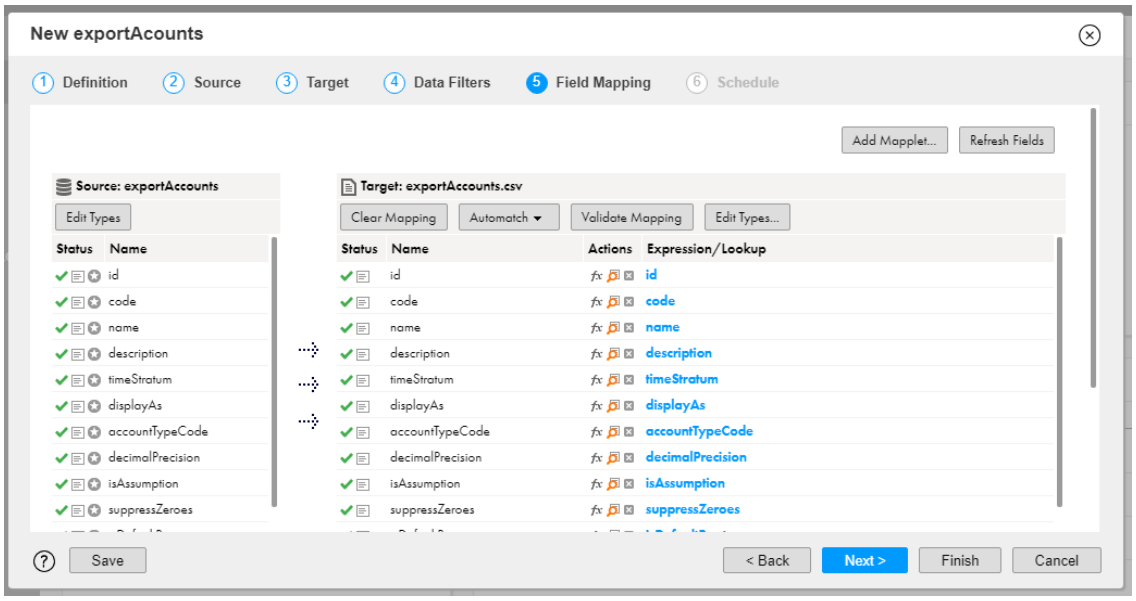
Field	Description
Connection	Select a flat file connection. For example, **Info_PC_12_Flatfile**.
Target Object	Select the target object or create a new target object. For example, **exportAccounts.csv**



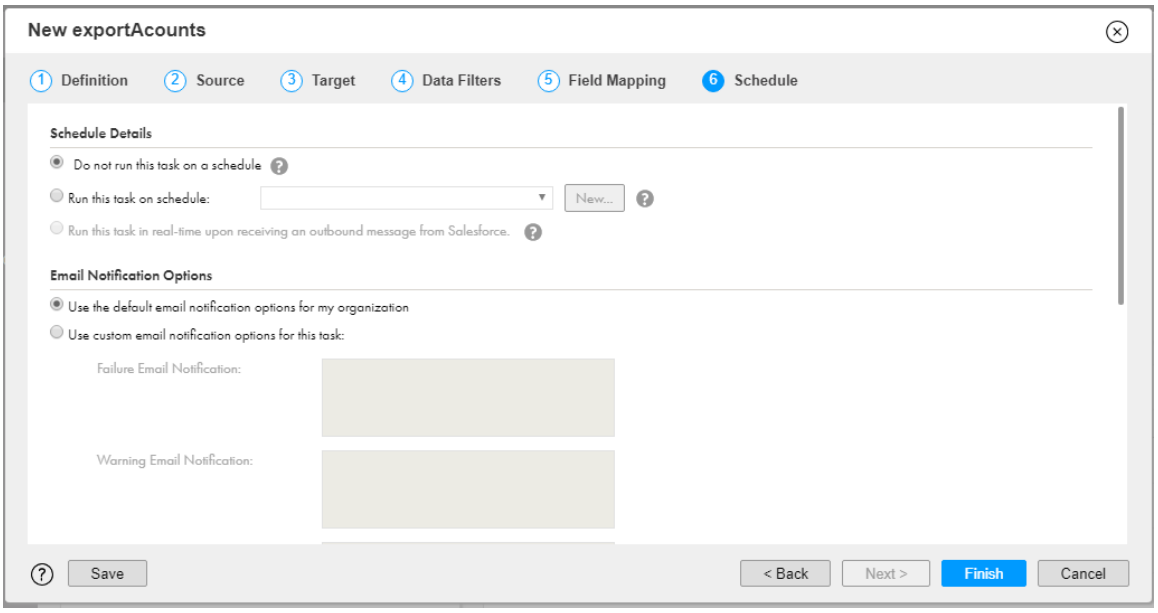
9. Click **Next**.
10. On the **Data Filters** tab, set the filter conditions. If you do not set a filter condition, all rows are processed for the task.



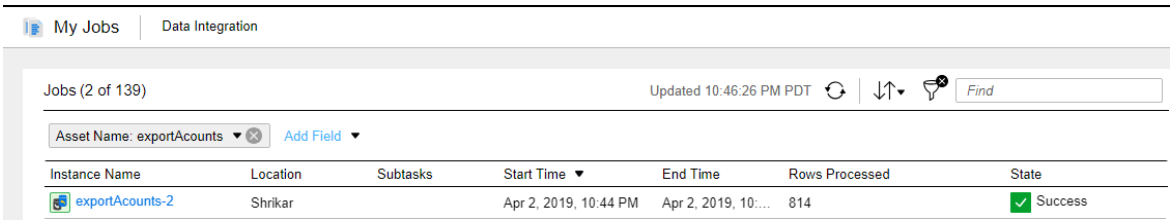
11. Click **Next**.
12. On the **Field** Mapping tab, drag and drop the required fields from the source to the target.



13. Click **Next**.
14. On the **Schedule** tab you can schedule the task for each requirement and save. You can run a synchronization task manually, or you can schedule the task to run at a specific time or at specified time intervals.



15. Click **Finish**. To run the task, click **Run**.
16. On the **Monitor** tab, you can monitor the status of the task.



Chapter 4 – Mapping and Mapping Configuration Task With Adaptive Insights

Adaptive Insights Sources in Mapping and Mapping Configuration Task

exportAccounts, exportLevels, exportInstances, exportLocales, exportRoles, exportDimensionFamilies, exportVersions, exportCustomerLogo, exportActiveCurrencies and exportSheetData.

Adaptive Insights Source properties in Mapping and Mapping Configuration Tasks

Field	Description
Connection	Name of the Adaptive Insights source connection.
Source Type	Type of the Adaptive Insights source object available.
Source Object	Name of the source object
Filter	Select the filter condition
Sort	This attribute is not applicable for Adaptive Insights Connector.

Adaptive Insights Targets in Mapping and Mapping configuration Task

createAccount, createDimension, createDimensionValue, createLevel, createUser, updateAccount, updateDimension, updateDimensions, updateDimensionValue, updateLevel, publishChanges, importStandardData, importTransactions, eraseActuals, importCubeData

Adaptive Insights Target properties in Mapping and Mapping Configuration Tasks

Field	Description

Connection	Name of the Adaptive Insights target connection.
Target Type	Type of the Adaptive Insights target object available.
Target Object	Name of the target object
Operation	Select the target operation

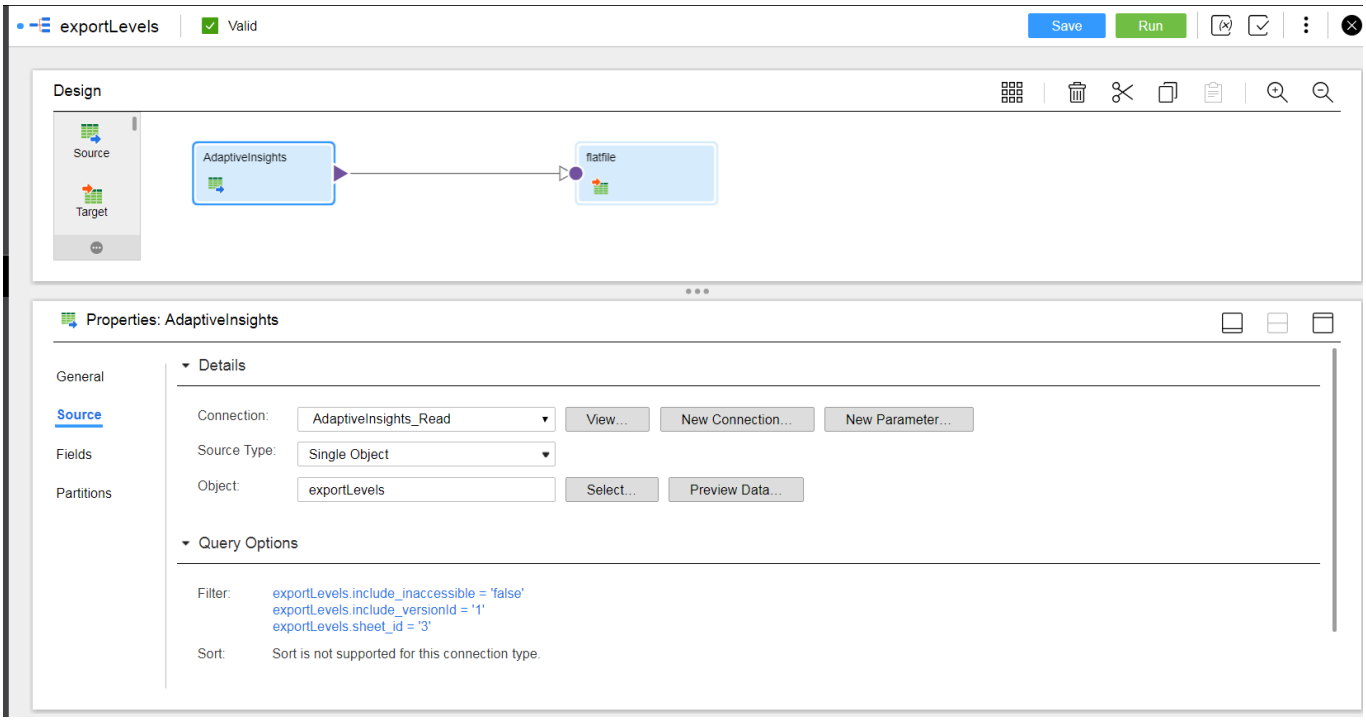
Mapping Task Example

You can create a mapping to read data from a single Adaptive Insights object and write the data to a target object. You can use the mapping to create a mapping task.

Perform the following steps to create a mapping and a mapping task:

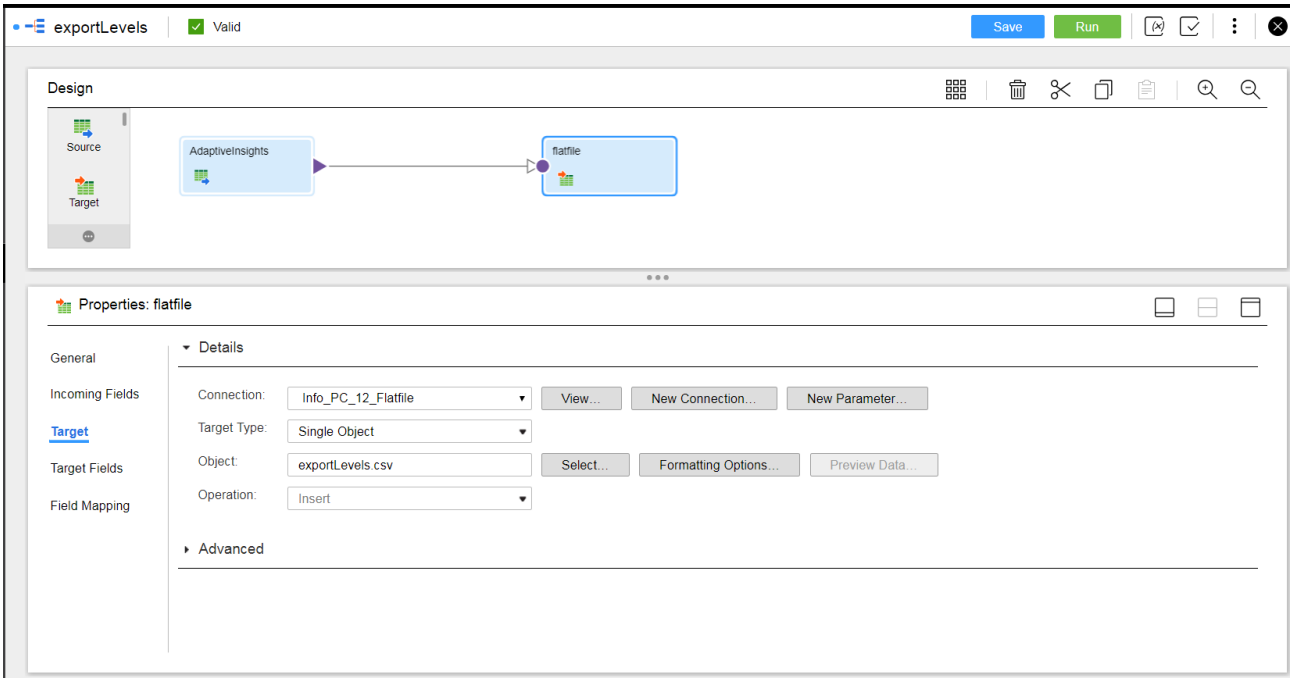
1. Select **Data Integration** from the menu. The **Data Integration** Home page appears.
2. Click **New** > **Mappings** > **Mapping**.
3. Click **Create**.
4. In the **Mapping Properties**, enter the name and description of the mapping.
5. In the **Design** section, drag a source from the palette into the editor. Select the source to view the properties.
6. In the **Source Properties**, click the **Source** tab.
7. In the **Source** tab, configure the following fields:

Field	Description
Connection	Select an Adaptive Insights connection. For example, **AdaptiveInsights_Read**.
Source Type	Select Single.
Object	Select the **exportLevels** source object.

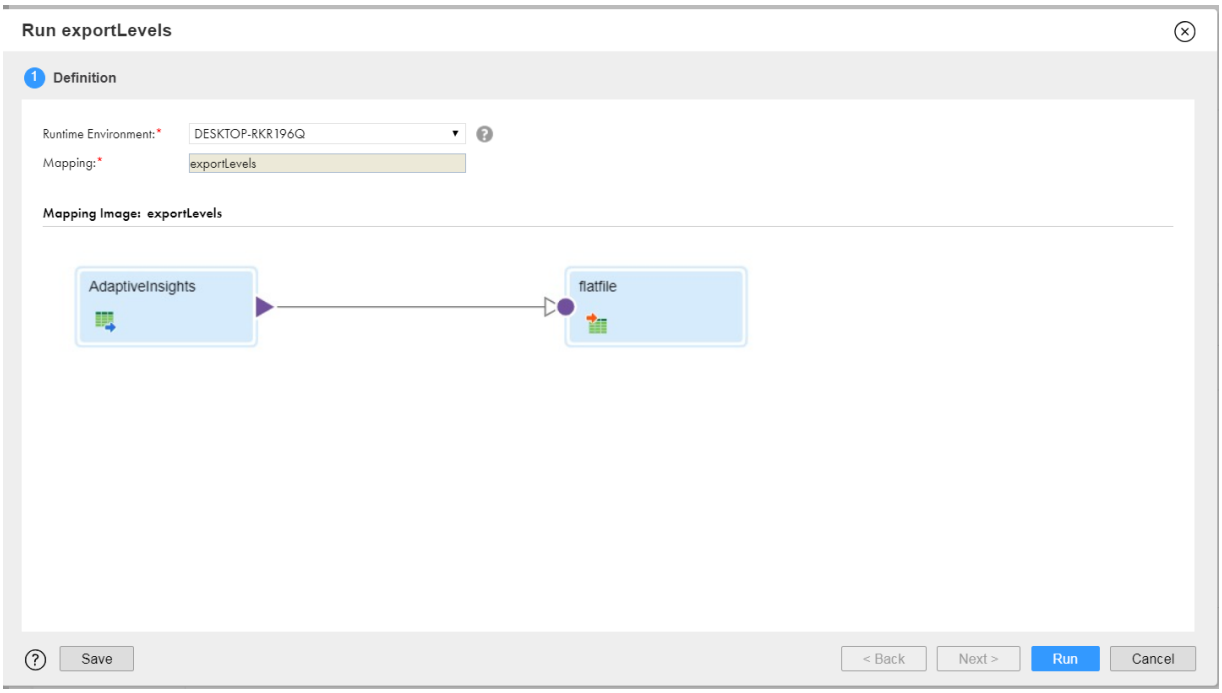


8. In the **Design** section, drag a target from the palette into the editor. Select the target to view the properties.
9. In the **Target Properties**, click the **Target** tab.
10. On the **Target** tab, configure the following fields:

Field	Description
Connection	Select a flat file connection. For example, **Info_PC_12_Flatfile**.
Target Type	Select Single.
Object	Select the **exportLevels.csv** target object.
Operation	Select Insert.

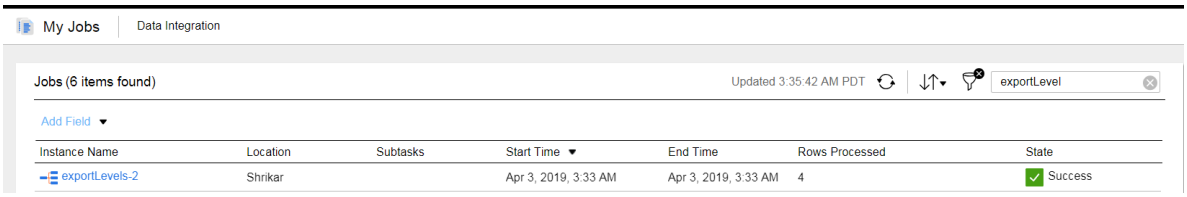


11. In the **Design** section, connect the source to the target to map the fields
12. In the **Target Properties**, click the **Field Mapping** tab to view the mapped fields of the source to the target.
13. Click **Save** and then click **Run**



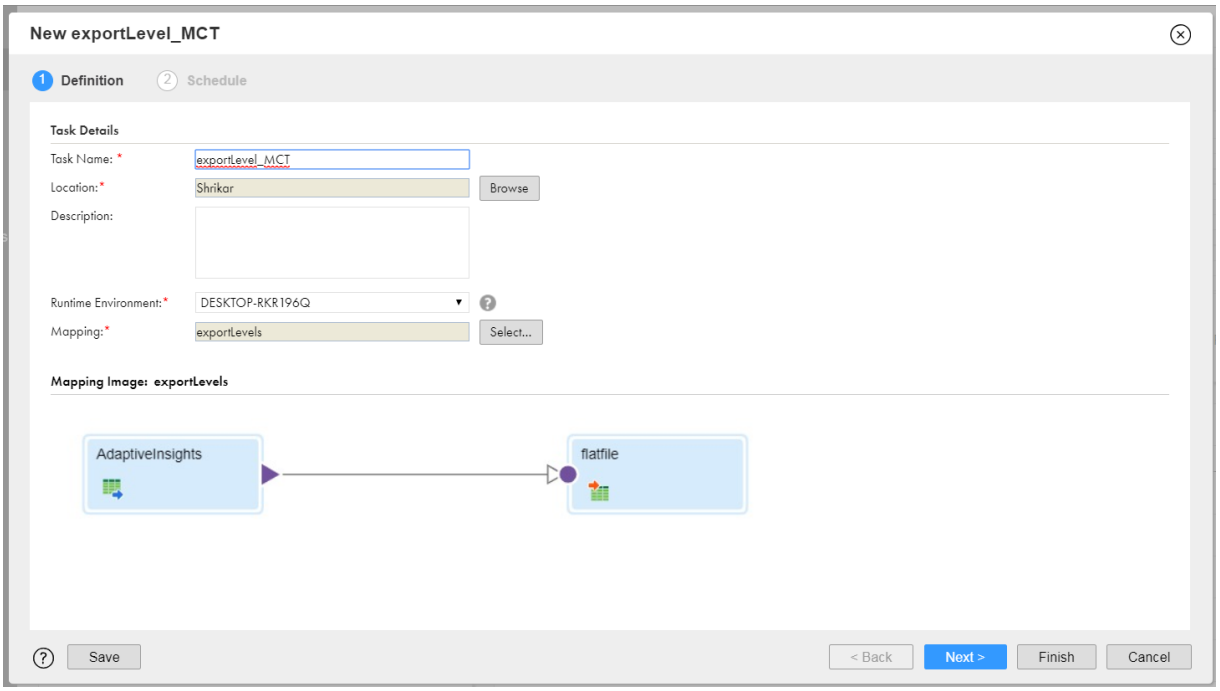
14. In **Monitor**, you can monitor the status of the mapping.

You can use the mapping to create a mapping task.



15. In the **Data Integration** Home, click **New** > **Task** > **Mapping Task**.
16. Click **Create**.
17. On the **Definition** tab, configure the following fields:

Field	Description
Task Name	Enter a name for the mapping task. For example, **exportLevel_MCT.**
Description	Enter a description for the mapping task.
Runtime Environment	Select the Runtime environment that contains the Secure Agent to run the task.
Mapping	Select the mapping.



Appendix: Data Type Reference:

Data Type Reference Overview

The following table describes the data types that Informatica Cloud supports for Adaptive Insights sources and targets:
Adaptive Insights data types:
Adaptive Insights data types appear in the Target transformations when you choose to edit metadata for the fields.

Transformation data types:
Set of data types that appear in the transformations

Adaptive Insights and Transformation Data Types

The following table lists the supporting Adaptive Insights data types and the corresponding transformation data types:

Adaptive Insights Data Type	Transformation Data Type	Description
String	String	1 to 10485760 characters

Transformation Data Types

If we need transformation data type descriptions, we can include this reused topic in all guides.

Guidelines for Informatica Intelligent Cloud Services/ Informatica Cloud Data Integration Documentation

We need to maintain and create content for legacy Informatica Cloud and Informatica Intelligent Cloud Services (IICS) aka Florence concurrently.

Product Naming Conventions

The official name for Florence is **Informatica Intelligent Cloud Services** (IICS). IICS is a parent product and includes multiple Informatica products (**Informatica Cloud**, ICRT, DQ, MDM, and so on)
The official name for the new version of Informatica Cloud is **Informatica Cloud Data Integration** when used on IICS.

Product name in legacy connector user guides: **Informatica Cloud**
Product name in Florence connector user guides: **Informatica Cloud Data Integration**
Parent product name in Florence connector user guides: **Informatica Intelligent Cloud Services**

When to use IICS and Cloud Data Integration

Use **Informatica Intelligent Cloud Services** as the product name whenever you are talking about the platform. For example, a user logs in to IICS (not Cloud Data Integration), and you create IICS users (not Cloud Data Integration users).

Use Cloud Data Integration when referring to the Integration Designer only. For example, you create mappings, mapping tasks, and task flows in Cloud Data Integration.

Tasks Naming Conventions

The following table lists tasks names for Informatica Cloud and Cloud Data Integration:

Informatica Cloud	**Cloud Data Integration**
Data Synchronization task	synchronization task
Data Replication task	replication task
Mapping Configuration task	mapping task
Data Masking task	data masking task

Note: Write task names for Cloud Data Integration in lower case unless they are used in headings, as UI labels, or in the beginning of the sentences.

Content, Procedures, Examples, and Screenshots

Make sure that all the content including examples and screenshots have been modified as per the Cloud Data Integration UI in the Florence connector guides.

STYLE COMMENTS

Wording

Connector does not require an article. For example, write “Use Marketo REST Connector…” instead of “Use the Marketo REST Connector…”
Note wording for Secure Agent and runtime environments. Always use the content references that we have set up. This terminology has been through tech review, but the development is still evolving, and the terminology might change.

RELEASE NOTES GUIDELINES

Rules and Guidelines for New Features

When you document a new feature in a release guide, ensure that the content follows the standard structure.

Rules and guidelines for all release guides

Consider the following rules and guidelines:

- Use the following lead-in sentence for each version topic: "This section describes new features in version <*version*>. "
- Alphabetize the sub-topics and sections in each functional category topic, unless you receive different guidance from product management. PM might occasionally want to highlight certain information first.
- In general, do not document new UI features. Document changed behavior, not changed appearance. For example, if there is a new dialog box for unlocking repository objects in Developer

tool, add an entry about unlocking objects in the Developer tool. The exception is if the UI for the entire tool has changed.

- Optionally, add images to show UI or other changes when you think these will benefit the user.
- Include a book reference for each feature.

Use the following syntax for the book reference: "For more information, see the *<full book name, including version number>*." Use the <cite> tag for the product name, version, number, and book name. For example, "See the *Administrator Guide*.

- Optionally, include a chapter reference for a feature.

Known Limitations

A known limitation is a limitation of the designed and implemented product. Unsupported functionality is not a limitation. The known limitations section of the release notes provides brief descriptions and workarounds to high priority and high severity product limitations.

Important: Limitations can be difficult to write. Although you might write just a few sentences, you must be fully familiar with the product and the circumstances that surround the limitation before you can convey it accurately and succinctly in the Release Note writeup. Do not rely on terminology in the bug tracking system, as much of the terminology is internal. Verify that you use terminology that is consistent with user doc and the product.

Known Limitations Criteria

Before you document a known limitation, verify that the limitation meets criteria for the release notes. Informatica includes high priority and high severity product limitations that Development is committed to fixing.

When you review known limitations that are release note candidates, consider the following criteria:

Limitation type

Known limitations must be functional limitations. Do not include enhancement requests or documentation limitations. If the nature of the limitation is functional and the type is "Documentation," look for the linked functional limitation.

Content to include

After you verify the limitation type, priority, and status, review the content of the limitation. Include the following types of errors in the known limitations:

- Product failures, such as hanging, termination, or error response to user request
- System failures, such as core dumps and crashing
- Inconsistent data or unexpected results
- Regressions

- Any other issue that might result in a call to Informatica Global Customer Support

Content to exclude

Do not include the following types of bugs in known limitations:

- Any limitation that might affect install or upgrade. For example, the installation fails with memory errors, or the upgrade fails to upgrade privileges properly. Document all install and upgrade limitations in the Installation topic of the release notes.
- PAM-related issues of supported systems. For example, do not include a limitation requesting the support of a particular version of an OS for a product.
- Corner case bugs, or bugs that are unlikely to be found by a customer. If a limitation is extremely difficult to reproduce or was possibly discovered by QA under severe stress testing, consider exclusion from the release notes.
- Requests for additional functionality. A bug that indicates a request for support of additional functionality or a feature is not considered a limitation for release notes. Key words to watch for are "support" and "should have."
- Bugs that are minor irritations. This can include misaligned user interface text, misspellings, and too many clicks or scrolls.
- Bugs that are not reproducible.

Exceptions

If you question whether to include a limitation or not, consider whether excluding the limitation from the release notes would result in a call to GCS. Note the following circumstances when we can relax the release note criteria:

- New products with a customer base that is vocal about documenting all limitations
- End-user products where limitations such as abnormal scrolling or too many clicks are higher priority
- Special requests from product management, development, or QA

Known Limitations Write-up

Write up a known limitation to describe the limitation instead of the expected behavior. Include any workaround.

A known limitation has the following elements:

Bug number

The bug number is the functional bug number in Jira. If Development linked a bug for the doc impact, do not use the documentation bug number.

Bug description

When you write a known limitation, write a short description of the bug behavior instead of the expected behavior.

- ***Change:*** The RestoreDomain command should not generate an exception if you set the -tc option.
- ***To:*** The RestoreDomain command generates an exception if you set the -tc option.

Workaround

If a limitation has a workaround, include it under the limitation. If Jira does not include a workaround, ask Dev/QA to provide one.

Do not document the following types of bugs as limitations that have the following workarounds:

Custom property

Document custom properties, called undocumented flags, as an internal KB article.

System patch

Document operating system patches in the installation section of the release notes. QA provides this information to Documentation. If the workaround is a patch that is not in the list of patches, verify with QA whether it belongs in the list. If you need to document the behavior, it might fit as a separate topic in the installation section of the release notes.

Fixed Limitations

Document fixed limitations that were reported by customers or were reported as limitations in a previous release.

When you write a fixed limitation, write a short description of the bug behavior instead of the fixed behavior.

- ***Change:*** The Column Profiling Details dialog box appears when you view the column profile for a source column in a mapping specification.
- ***To:*** The Column Profiling Details dialog box does not appear when you view the column profile for a source column in a mapping specification.

If a fixed limitation was previously documented as a known limitation, move the entry to the Fixed topic. Delete any workaround that was documented with limitation.

Fixed Limitations Criteria

Before you write a fixed limitation, verify that it meets the criteria for the release notes.

Most of the time, bugs are fixed in the code, tested, and closed. However, Dev might close a bug for multiple reasons. For example, it might be a duplicate of another bug, or it might be closed with a

workaround. When you review a closed bug, you need to read the closing comments at the end of the notes to find out why a bug was actually closed. If it is not checked in to the code, we cannot publish it as being closed.

When you review fixed limitations that are release note candidates, consider the following criteria:

Fixed release

Verify that the limitation was verified and closed in the release that you are documenting.

Note: If the limitation was linked from a previous release and this fix was merged from a previous release, do no document it again as fixed. The content reference informing customers about fixes in previous releases is sufficient.

Status

Verify that the status of the limitation is "closed." If it is "resolved," verify with Dev and QA that they will be able to close it for the release. Watch the bug for the status change.

Content to include

Include fixed limitations that meet the following conditions:

- The fix was checked in to the code.
- The bug was not opened in the current release.
- The bug was previously documented as a known limitation, or it was reported by a customer or GCS.

Content to exclude

Do not include fixed limitations that meet the following conditions:

- If a limitation is closed as a duplicate, look at the linked bug to see if it belongs with known limitations.
- If a limitation is closed as "will not fix" or "as-designed," consider documenting the issue in the Knowledge Base or user documentation. If the behavior still seems buggy, put this in a Knowledge Base article. If the workaround, or the user actions required to get the desired behavior are fairly simple, consider including it in the user docs.
- If a limitation is closed with a workaround, you can include it in a Knowledge Base article. Workarounds can include undocumented flags, registry edits, and system patches.
- If an issue was issue that is closed with a custom property, it is a candidate for the Knowledge Base. We do not expose these properties to all customers, so any documentation will be through an internal KB article. Ask Global Customer Support and QA if they want this documented.

- If a limitation is closed with a note that Documentation is adding it as a limitation in the release notes, let Development know that we cannot document anything in the release notes without Dev commitment to fix.

MESSAGE WRITING EXAMPLES

The examples in this section show messages that have been rewritten to follow the message writing guidelines.
The following table shows original and edited messages and the guidelines used for the rewrite:

Original Message	Edited Message	Guidelines for Rewrite
Attachment file {filename} not found.	Cannot find the post-session email attachment file {filename}.	- Provide as much information as possible.
Error executing stored procedure...	An error occurred while executing the stored procedure for transformation {transformationname}.	- End each message with a period. - Provide as much information as possible. - Qualify all parameters.
NULL external procedure name.	The External Procedure transformation {transformationname} failed because the name of the external procedure is null. Specify the name of the external procedure.	- Provide as much information as possible. - Qualify all parameters. - Tell where the error occurred.
Getting free block from exchange failed!!	Internal error. The Integration Service encountered a fatal error while getting a block from the buffer pool. Contact Informatica Global Customer Support.	- End each sentence with a period. - Provide as much information as possible. - Use words that the customer will understand.
ERROR: Field name used in join not found in transform definition.	Internal error. The Integration Service cannot find the port {portname} used in the join condition for the Joiner transformation {transformationname}. Contact Informatica Global Customer Support.	- Provide as much information as possible. - Tell where the error occurred. - Qualify all parameters. - Spell out words.
Pushdown optimization is not supported because you enabled row error logging. To use pushdown optimization, disable row error logging.	Pushdown optimization is skipped because session {sessionname} has row error logging enabled.	- Avoid offending the user. - Provide as much information as possible.

{transformationname} cannot be pushed to the target database because it is connected to both {targetname1} and {targetname2}. No transformation can be pushed to more than one target.	The transformation {transformationname} cannot be pushed to the target database because it is connected to multiple targets: {targetname1}, {targetname2}	- Provide as much information as possible. - Be concise and direct. - Do not start a message with a parameter.