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How to Import Apps:

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Intent:

The goal of this article is to familiarize the reader with how to import packages from the Xalt App Store

Background:

Built into the Xalt Mobility Platform is the ability to import packages that contain object, actions queries, launchers, etc. These packages can be imported into Xalt Cloud Server and deployed to use with a few clicks. Originally, this function was intended to moved application from development environments to QA or Production environments, but it is as equally useful to import new applications from a variety of sources.

Where to Begin:

In most cases, the App Catalog App Templates will come included with MS SQL scripts, these scripts will need to be ran on the SQL server (each App Catalog Package will come included with instructions how to execute SQL scripts on MS SQL Server, we highly recommend a Database Admin complete those steps).

Navigate to the App builder dashboard, verify that your current data source contains the database that the SQL Scripts where executed one. Skip to **"Create Import Package"** section if the contents of the SQL scripts where imported into an existing database.

If a new database was created to house the contents of the SQL Scripts, you will need to create a new Data Source

Creating Data Sources:

Navigate to your Xalt Cloud Tenant and launch the App Builder Dashboard. Click New

The screenshot shows the Xalt App Builder Dashboard. The top navigation bar includes 'Xalt', 'Home', 'Data Entry', and 'Images'. The left sidebar has links to 'Launch', 'Administrator Dashboard', 'App Builder Dashboard', 'Dashboards', 'Gadgets', and 'BI App Builder Dashboard'. The main content area is divided into four sections:

- Data Sources:** A table with columns: Description, System, Env, Primary User ID, FTP, and a 'New' button. A red circle highlights the 'New' button.
- Workbenches:** A table with columns: Name, Label, GML/Form Alias, Last Maintained On, and Last Maintained By.
- Data Objects:** A section with a 'Top Level' dropdown and various icons.
- User Profiles:** A table with columns: User ID, Name, Password Expires, and Email.

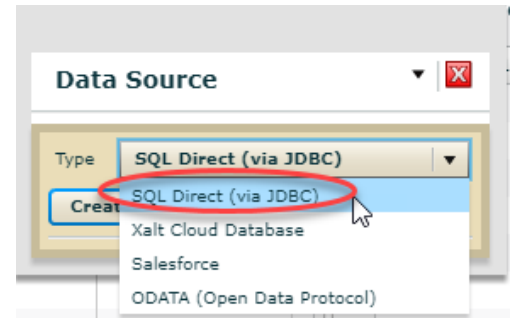
Description	System	Env	Primary User ID	FTP	
ps-demos Database	dbo	XALT	No	jdbc:sqlserver://spiop-svr.hexagonxalt.com:1433;database=ps-demos	

Name	Label	GML/Form Alias	Last Maintained On	Last Maintained By
Admin Data Entry	Data Entry		1/23/2019 10:54 AM	admin
Admin Home	Home		1/23/2019 10:54 AM	admin
Admin Images	Images		1/23/2019 10:54 AM	admin

User ID	Name	Password Expires	Email
admin	System Administrator		
catavolt	Catavolt Support		
jwilson	James Wilson		james.wilson@hexagon.com
leo.fernandes	Leo Fernandes		leo.fernandes@hexagon.com
rgouvea	Ricardo Gouvea		ricardo.gouvea@hexagon.com
smahler	Simon Mahler	3/18/2019	simon.mahler@hexagon.com
sovmiyas	Sowmiya Sugunanandham	1/23/2019	sovmiya.sugunanandham@hexagon.com



Select “SQL Direct (via JDBC)” from the Data Source type pull-down.



Next, input the MS SQL Server connection information:
Satellite Server:

1. Select the correct Satellite Server, usually there will only be a single selection option.
2. Input the MS SQL Server URL: The format for the URL is:
`dbc:sqlserver://serverip;databasename=dbname`
(It is assumed that port 1433 is used to initiate the connection)
3. Input the Schema name (usually dbo)
4. Input MS SQL Credentials that have read/write permissions to the database hosting the tables for the App Template App.
5. Input the corresponding user's password
6. Input a helpful description.
7. Click Save.
If Authentication not successful and error message will appear just beneath Save/Cancel buttons.

Once the Data Source has been created, the import package can be imported.



Creating Import Packages

To create an Import Package, navigate to the Home Workbench and select the “Import Packages” launcher, choose the New menu option.

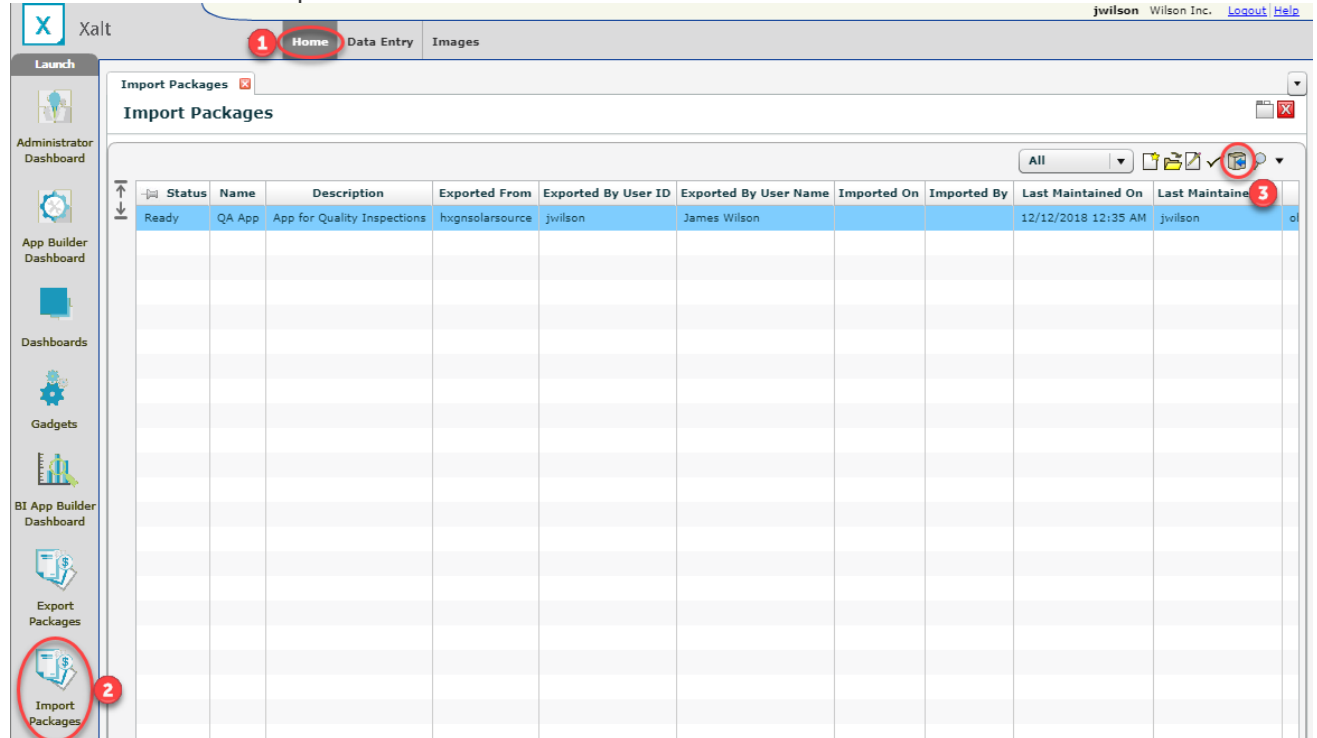


Figure 1: The Import Packages list view with the New menu option highlighted
You will be presented with the following window:

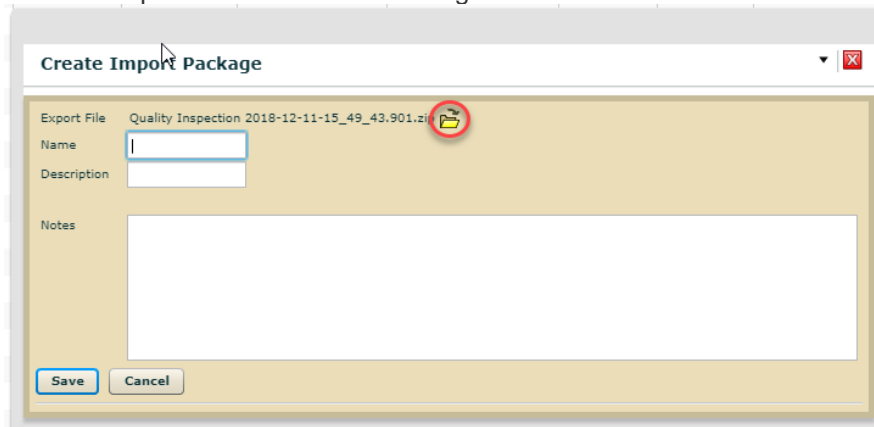


Figure 2: The Create Import Package view

In the **Export File**, you should select the ZIP file that was produced by the Export process. You may also specify a **Name**, **Description**, and **Notes** for the Import Package. If you leave them blank, they will be defaulted to the values you specified for these fields in the Export Package.



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When you press Save, the contents of the zip file will be loaded and analysed. The Import Package will be created, and you will be brought to the following screen which will summarize the objects to be imported and any issues that are currently preventing a successful import.

Import Package: QA App

Import Package

Name: QA App
Description: App for Quality Inspections
Status: Not Ready
Imported On: [icon]
Imported By: [icon]
Last Maintained On: 12/11/2018 10:58 PM
Last Maintained By: jwilson [icon]
Notes: objects for Quality Inspection workbench

Original Export Package

Name: Quality Inspection
Description: Quality Inspection
Exported From: hxgnsolarsource
Exported By User ID: jwilson
Exported By User Name: James Wilson
Exported On: 12/11/2018 3:49 PM
Notes: objects for Quality Inspection workbench

Sections

Status	Type	Objects	Skipped	Remaining Issues	Notes
Ready	Satellite Servers	0			
Not Ready	Data Sources	1		1	
Not Ready	Data Objects	55		4	
Ready	Default Properties	0			
Ready	Custom Forms	0			
Ready	Gadgets	0			
Ready	GML Images	6			
Not Ready	Images	44		12	
Ready	Security Roles	0			
Not Ready	Workbenches	1		6	
Ready	Dashboards	0			

Drilling into a Section, you can see a list of the objects (Data Objects, Data Sources, Workbenches, etc) that will be imported into the system along with the number of total and unresolved issues left. Once all issues for the object have been resolved, the Status of the object will move to Ready. There are also menu actions to Skip Import and Include in Import. Selecting one or more records and pressing the Skip Import button will resolve all issues with a Skip Object resolution and mark the object to not be imported. Selecting one or more records and pressing the Include in Import button will effectively reverse a Skip Import. The object will no longer be marked as skipped and all issues will be reset back to their original state. For Data Source and Data Object types, there is a third action called Reassign Reference. This is a special action that allows you to reassign a reference for multiple records at a time. See Other Import Menu Options for more information on this action.



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Test Home Data Entry Images

Import Packages Import Package: QA App Import Package Section: Data Sources

Import Package Section

Package: QA App
Type: Data Sources
Total Objects: 1
Objects Skipped: 0
Remaining Issues: 1
Status: Not Ready
Notes:

Objects

Status	Name	Skip Import	Issues	Remaining	Notes
Not Ready	Inspection V3		1	1	

Figure 4: The Import Package Section detail view with Resolve Common Issue button highlighted

Drilling into an Object, you can see a list of the Issues preventing the object from being imported into the system along with the current Resolution, if any. Once an Issue has been resolved, the Status of the Issue will move from Pending to Resolved, the issue may be automatically resolved at the time the ZIP file is loaded and analysed. There is also a Reset Resolution menu action. Selecting one or more records and pressing the Reset Resolution button will undo a resolution and set its status back to Pending.



Figure 5: The Import Section Object detail view with the Reset Resolution button highlighted

Drilling into the Issue will show more information about the exact problem. Detail will more fully describe the problem as well as describing each of the available Resolutions and what action will be taken. Some Resolutions such as Skip Object are self-contained, while others such as Reassign Reference require more information. For those that require more information, you will need to enter or select a value in the Resolution Object field.

Figure 6: The Import Object Issue detail view

In this case we had to select Reassign Reference and select the appropriate Satellite Server.

The screenshot shows the Xalt application interface. The top navigation bar includes 'Test', 'Home', 'Data Entry', and 'Images'. The left sidebar contains various dashboard and tool icons. The main content area is titled 'Import Object Issue' and displays the following information:

- Issues:** Inspection V3
- Type:** Value Conflict
- Number:** IMP-00100
- Description:** Data Source refers to Satellite Server 'SSCV02' that was not exported.
- Detail:** Data Source refers to Satellite Server 'SSCV02' that was not exported.
 - If you choose 'Reassign Reference', this value will be imported under the selected Satellite Server.
 - If you choose 'Skip Object', this Data Source will not be imported.
- Status:** Resolved
- Resolution:** Reassign Reference
- Resolution Object:** SS1
- Notes:**

Figure 7: After selecting the resolution, you will see the Status changes to Resolved.

You will need to go through each Section and complete the above steps until all sections are highlighted Green and Ready. Once all sections are completed, The Import Package will change form a red “Not Ready” to a Green “Ready”

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Test Home Data Entry Images

Launch

Administrator Dashboard

App Builder Dashboard

Dashboards

Gadgets

BI App Builder Dashboard

Export Packages

Import Packages

Import Packages

All

Status	Name	Description	Exported From	Exported By User ID	Exported By User Name	Imported On	Imported By	Last Maintained On	Last Maintained By
Ready	QA App	App for Quality Inspections	hxgnsolarsource	jwilson	James Wilson			12/12/2018 12:35 AM	jwilson

[illegible]

Click the Import Objects button to begin the import of the required components for the application.

NOTE: Depending the database configuration, you may **not** be asked for user credentials

Figure 10: Enter the Password for Data Sources