

Load Test Suite Guide

PV600 SV100

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Table of Contents

Administering Load Test Suite	1
Load Test Suite Solution Overview	. 2
Load Test Suite Configuration	. 3
Create Load Testing Suite User	. 3
Install OneStream Studio	. 3
PowerShell Setup	. 4
Create Folder for Test Suite	. 4
Extract MarketPlace Package	. 4
Unzip Test Scripts	4
Update PowerShell Scripts	. 5
Update Server Configuration	. 5
Update Test Sequence XML Files	. 5
Logon	6
Open Application	6
Update Metadata Files	6
Scenario Name	. 7
Update Workflow Profiles (configured based on customer setup)	7
Cube Name	. 7
Parent Workflow	. 7

Import Transformation Profile (Actual)	7
Import Data Source (Actual)	8
Workflow Profile	8
Parent Workflow Profile	
Update Scenario Mapping	8
Copy Source Files to the Application/Batch Folder	9
Import Data Sources Business Rule	
Import Application Metadata Zip Files	11
Installer Part A	11
Installer Part B	11
Update Batch Scripts	11
Update Cube Views	11
Update Data Management Sequence	
Update Data Management Step	
Test Data Management Jobs	
Pre-Built Load Test Suite Tests	14
PowerShell Scripts	14
Sequence Files	17
Using Load Test Suite	
Run Tests	

Import and Analyze Results	
View all Results	21
Optimal Display Settings	
Modifying MarketPlace Solutions	

Administering Load Test Suite

This guide describes the necessary steps to setup and use the Load Test Suite Solution.

Load Test Suite Solution Overview

The Load Test Suite Solution provides business users with an automated method to accurately test and view an application's overall system performance during data loads resulting from large numbers of simultaneous users and transactions. The Load Test Suite determines whether the application can handle peak usage periods.

Load Test Suite Configuration

The Load Test Suite requires multiple steps to configure and run and this section provides the detailed steps required for the Load Test Suite Solution.

Create Load Testing Suite User

The OneStream Load Test Suite replicates users logging onto an application through one, not multiple, system users. The default tests provided are set up to use the Test1 user.

Configure users by performing these steps:

- 1. Create a user named *Test1*.
- 2. Add Test1 to the Administrator Security Group.
- 3. Set the user's local password to 123.
- 4. Log in as *Test1* user.
- 5. Reset the Test1 password to Password1 when prompted.
- 6. Set the user's Workflow POV to match the administrator's Workflow POV.
- 7. Set the User's Cube POV to match the administrator's POV.
- 8. Log off Test1 user.

Install OneStream Studio

The Load Test Suite uses OneStream Studio's APIs during Load Testing. Ensure OneStream Studio is installed on the client's machine. This must run on a client machine and not a server, otherwise load balancing will not work properly during testing.

Test to confirm the local Studio install can access the environment being load tested.

PowerShell Setup

The Load Test scripts used in testing are Microsoft PowerShell, ensure PowerShell is setup and configured to run on the client machine being used. Find details for setting up PowerShell for OneStream integration in the PowerShell (POW) Solution located in MarketPlace.

The Elevation level for Windows may need to be adjusted, as the PowerShell tool requires "run as an administrator" accessibility.

Create Folder for Test Suite

The Load Test Suite is setup to use the *C*:*OneStream* folder on the test client machine. This folder needs to be created if it does not already exist on the client machine running the Load Testing.

Extract MarketPlace Package

The Load Test Suite Package contains several zip files. Extract the contents of the Load Test Suite Package and the sub-level zip files as well.

Unzip Test Scripts

Copy the StressTesting folder from *Supplemental Configuration.zip* and unzip it to the *C*:*OneStream* folder created in a previous step.



Update PowerShell Scripts

Each PowerShell Script (*C*:*OneStream**StressTesting**TestDefinitions**PowerShellScripts*) included in the Load Test Suite Solution needs to be updated to ensure the proper Studio client API paths are specified on line three of the script. The path will be where the OneStream Studio was installed on the client machine. By default this is:

C:\ProgramFiles (x86)\OneStreamSoftware\OneStreamStudio\OneStreamClientApi.dll

See the example below:

```
1 #Note: refer to PowerShell setup instructions in "C:\XF\DevelopmentTools\Configuration\Windows PowerShell Notes.docx"
2 #Studio Install Path
```

- 3 Add-Type -Path "C:\Program Files (x86)\OneStream Software\OneStreamStudio\OneStreamClientApi.dll" 4 #Development Maching Path
- 5 #Add-Type -Path "C:\XF\Source\Client\Windows\OneStreamClientApi\bin\Debug\OneStreamClientApi.dll"

Update Server Configuration

The default tests in the Load Test Suite are set to use two Gen/Stage/Data Management servers and one Consolidation server. Make sure the test environment has this configuration prior to running the first round of testing.

Update Test Sequence XML Files

The test sequence files included in the Load Test Suite use default values for both WebServer and Application. These files must be updated with the correct names from the test environment in order to operate correctly during Load Testing. The Load Test Suite provides an editing tool for the sequence files located in the

C:\OneStream\StressTesting\TestDefinitions\SequenceBuilderUtility folder.

LTS_ConsTopEntity.xml
 LTS_ExecuteCubeViews.xml
 LTS_LoadAndProcessLT1.xml
 LTS_LoadAndProcessLT2.xml
 LTS_LoadAndProcessLT3.xml

Once the editor is opened, browse to the sequence file that needs to be updated which is located in *C*:*OneStream**StressTesting**TestDefinitions**Sequences*.

In the editing tool, update the following actions:

Logon

In the WebServerUrl field, replace the WebServerName with the name of the current Web Server.

NOTE: Update your username and password. Refer to the previous section, Create Load Test Suite user.

\mathcal{D} C:\OneStream\StressTesting\TestDefinitions\Sequences\LTS_ConsTopEntity.xml - L	Load Tester		-		×
File Tools Help					
+ - ↑ ↓					
 Consolidate (Sequence) 	Name	Value			
Logon (Logon) Open Application (OpenApplication)	Name	Logon			
ConsolidateTopEntity (ExecuteDataManagementSequence)	Ins\Sequences\LTS_ConsTopEntity.xml - Load Tester I) ManagementSequence) INAME Value INAME Logon Type Logon Description StopIfError True CustomSubstVars WebServerUrl http://localhost:50001/OneStreamWe UserName admin Password IsAzureSSO false ClientAuthenticationType ISSO false				
Logoff (Logoff)	Description		- C ×		
	StopIfError	True			
	CustomSubstVars				
	WebServerUrl	http://localhost:50001/OneStreamWeb/			
	UserName	- [alue >gon >gon ue ttp://localhost:50001/OneStreamWeb/ dmin			
	Password				
	IsAzureSSO	false			
	ClientAuthenticationType				
	ence) Name Value Name Logon Type Logon Description StopIfError CustomSubstVars WebServerUrl http://localhost:50001/OneStreamWeb/ UserName admin Password IsAzureSSO false ClientAuthenticationType IsSSO false				

Open Application

In the ApplicationName field, replace GolfStream with the current application name.

D C:\OneStream\StressTesting\TestDefinitions\Sequences\LTS_ConsTopEntity.xml - Load Tester			-	٥	×
File Tools Help					
Consolidate (Sequence) Logon (Logon) Deen Application Consolidate/Optimation (OptimApplication) Consolidate/Optimity (ExecuteDataManagementSequence) Logoff (Logoff)	Name Name Type Description StoplfError CustomSubstVars	Value Open Application OpenApplication True			
	ApplicationName	OneStream_GolfStream_v650			

Update Metadata Files

The Load Test Suite scenario dimension needs to be updated so that it will import into the correct scenario being tested. Unzip **Installer Part B** and update **LoadTestScenarios.xml**.

Scenario Name

Replace the instance of

name="Scenarios" with name="<Your Reporting Scenario Name>"

Update Workflow Profiles (configured based on customer setup)

The Load Test Suite creates ten Workflows used for load testing during Batch Processing. To add the Workflows to the appropriate area, the LoadTester WorkflowProfiles.xml file needs to be updated, so that it will import into the correct area of the application being tested.

The Workflow Profile Access and Maintenance Security Groups are set to the values stored in the Default Workflow Template. These should be secured to the *Administrator* Security Group to prevent other users from accessing these Workflows.

For the data to load correctly, ensure that the Data Source for the Load Test Workflows uses the *Current DataKey* setting for the Scenario Dimension.

The Workflow profiles LT1 – LT10 have the Workflow Channel set to Standard by default. If using Workflow Channels in your application, ensure that the appropriate channel is set in these WF profiles.

Cube Name

Replace all instances of

cubeName="XFR_DataSources" with cubeName="<Your Cube Name>".

Parent Workflow

Replace all instances of

parentName="XFR_DataSources" with parentName="<Your Default WF Parent Node Name>".

Import Transformation Profile (Actual)

Replace all instances of

attributeValue="LTS_DataSource" with attributeValue="<Your Transformation Profile Name>".

Import Data Source (Actual)

Replace all instances of

attributeValue="LTS_Delimited_Source" with attributeValue="<Your Data Source Name>"

Workflow Profile

Update the profile name to that of your current workflow.

Replace all instances of:

name="LTS LT{1 - 10}.Import" with name="<Your Profile Name>"

name="LTS_LT{1 - 10}.Forms" with name="<Your Profile Name>"

name="LTS_LT{1 - 10}.Adj" with name="<Your Profile Name>"

Batch file name format should coincide with the naming of your profile name. Details on setting up the batch file name is located in the OneStream Design and Reference Guide within the Batch File Name Format Specification - Profile Name section.

1-LTS_LT1;Import-ActualLT1-2013M4-R.txt

Parent Workflow Profile

Replace all instances of

parentName="LTS_LT{1 - 10}" with parentName="<Your Parent Profile Name>".

Update Scenario Mapping

The load testing portion of the Load Test Suite creates multiple Scenarios, so as not to affect reporting data. In order to map these Scenarios, navigate to the *Supplemental Configuration.zip* file.

There are three options in which scenario mapping may occur.

The first option is to customize the LoadTestAnalyzer_TransformationRules_GolfStream.xml file located in the LoadTester Transformation Rules folder. Once updated, this file will need to replace the TransformationRules.xml file present in the Installer Part A.zip folder.

The second option is to customize each sample transformation rule based on your preferred cube dimensions. You may find example transformation rules within the *Sample Files.zip*. This can be completed by implementing the following steps:

- 1. Open the Transformation Rules screen and select the main reporting Scenario map.
- 2. Select in the toolbar, browse to your customized TRX file, and then click OK to import the map.

The third option is to utilize the default TRX file, which only includes the minimum Scenarios required for Load Test Suite. This can be completed by implementing the following steps:

- 1. Extract the TRX file from within the *LoadTester Transformation Rules* folder and import it into the main reporting Scenario's Transformation Rules.
- 2. Open the Transformation Rules screen and select the main reporting Scenario map.
- 3. Select in the toolbar, browse to the TRX file, and then click **OK** to import the map.

Copy Source Files to the Application/Batch Folder

Create the ActualLT1, ActualLT2, and ActualLT3 folders prior to running the batch process. See the screenshot below. Each folder represents the Load Test Scenarios that are created within the Load Test Application.

During Load Testing, OneStream replicates the Workflow Processing load through Batch Processing. To run the Batch Process, files used during a Workflow Import are placed in the Application/Batch ActualLT1 – LT3 folders on the server in the appropriately named folders. During Load Testing, the Workflow files are copied from the ActualLT1-ActualLT3 folders into the Harvest Folder from which they are pulled for the Batch Processing.

Load Test Suite Configuration

→ × ↑ 📕 « FileShare >	Applications > { Your Application	n Folder } > Batch ~	U D Sean	ch Batch	~ •
•	Name	Date modified	Туре	Size	
Quick access	V File folder (4)				
OneDrive - Onestream Softwar	e ActualIT1	5/7/2021 2·17 DM	File folder		
This DC	Actual T2	5/7/2021 2:17 PM	File folder		
in filling to	ActualLT3	5/7/2021 2:17 PM	File folder		
Network	Harvest	5/7/2021 1:31 PM	File folder		

OneStream Load Test Suite requires one file per Workflow process to be replicated during Load Testing. Multiple Workflows/Scenarios are used during Load Testing to ensure these Workflows are not loading to the same target Entities/Scenario combinations.

Import Data Sources Business Rule

To process each import file successfully, a specific data transformation business rule may be needed to effectively handle NULL or blank values. Add the appropriate *DataSources.xml* file as indicated by your technical consultant. This file is in the Parser Rules.zip folder and include in *Supplemental Configuration.zip*.

-1 RootUD4Dim		📧 🕢 1 Of 334 🕑 😕
- ⁵ RootUD5Dim	General	
- 😫 RootUD6Dim	Name	Vw
-7 RootUD7Dim	Settings	
- 😰 View	Data Type	Text
— txt Label	Position Settings	
- txt SourceID	Column Number	4
0.0 Amount	Logical Expression And Override Settings	
ITS_Logs	Logical Operator	Business Rule
XFR_CashFlow	Logical Expression	LTS_ReplaceBlankViewMemberWithYTD

Import Application Metadata Zip Files

Zip the folders (*Installer part A, Installer Part B*) and import the zip files containing the Load Test Analyzer and Load Tester Application using the Load/Extract page on the Application tab. These files contain the metadata for performing the Load Testing and also analyzing the results after the testing is complete.

Installer Part A

Installer Part A.zip file contains metadata to setup a Workflow used to import and analyze the load testing log files.

Installer Part B

Installer Part B.zip file contains metadata used to setup the load testing components in the OneStream application.

Update Batch Scripts

During load testing, OneStream replicates the workflow processing load through batch processing. The batch scripts that are called during this process copy the files that were placed in the Application/Batch ActualLT1 – LT3 folders. This copy process is pre-configured to copy text (*.txt) files. Load Test Suite is designed to work with text files but other file types may be supported in the future.

Update Cube Views

The Cube Views included in the Load Test Suite are used to simulate the users viewing data in the application. The Cube Views in the *LTS_LoadTest Group* will not have the same dimensionality as the applications being tested and will need the following updates:

- · Add valid accounts to the rows, or use shared rows/columns from an existing report
- Update the POV

NOTE: Do not change formula in the Entity POV.

- Update BRString Rule variables on the POV tab. These values are used to randomly select an Entity when running the Cube View load tests.
 - Replace [CorpEntities] with the name of the current Entity Dimension
 - Replace [GolfStream] with the name of the Top Entity Dimension Member used for reporting
 - Replace [Houston] with a valid Base Entity Member in the current Entity Dimension
- Verify that each Cube View runs correctly when ran manually The Cube Views should return a random Entity each time one is run

Update Data Management Sequence

Load testing includes running consolidations during testing. These consolidations are called from a Data Management Sequence. The Load Test Suite expects all consolidations to perform on one specific server during load testing. To ensure that all consolidations run on the correct server, the Data Management Sequence must specify the name of the consolidation server.

Select the *LTS_ConsolidateTop Sequence* from the Data Management screen. Enter the name of the consolidation server being used in the *Application Server* field.



Update Data Management Step

The *LTS_ConsolTopSpecificServer* Data Management Step contains the settings for running a consolidation. The Data Unit settings need to be updated to the correct values for the system being tested.

Cube

Set to default reporting Cube

Entity Filter

Set to Top Level Entity Parent in reporting Cube

Scenario

Reporting Scenario being consolidated

Time

Reporting Period being consolidated

🗉 General (Step)		
Name	LTS_ConsolTopSpecificServer	
Description		
Data Management Group	LTS_TestSequences	
Step Type	Calculate	
Calculation		
Calculation Type	Force Consolidate	
Data Units		
Cube	GolfStream	
Entity Filter	E#[All Orgs]	
Parent Filter		
Consolidation Filter	C#Local	
Scenario Filter	S#Actual	
Time Filter	T#2012M1	

Test Data Management Jobs

Prior to running the full Load Test Suite, manually run the four sequences in the *LTS_TestSequences Group* to ensure they work properly and no errors occur.

If errors occur, ensure folders are set up and Data Unit sections are set within the Data Management step.

Pre-Built Load Test Suite Tests

The Load Test Suite contains pre-built tests consisting of PowerShell scripts and OneStream sequence xml files. Together, these files allow the Load Test Suite to call functions within OneStream and replicate an actual user load in the system.

PowerShell Scripts

A series of pre-configured tests are included in the *PowerShellScripts* folder. PowerShell scripts are ran from the PowerShell interface on the client machine. These scripts replicate any number of users calling one to many sequence files.

- LTS_1_CubeView replicates:
 - 1. Ten users calling LTS_ExecuteCubeViews sequence
- LTS_1_LoadProc_LT1 replicates:
 - 1. One user calling LTS_LoadAndProcessLT1 sequence
- LTS_10_CubeView_LoadProc_LT1_Cons replicates:
 - 1. Ten users calling LTS_ExecuteCubeViews sequence
 - 2. One user calling LTS_LoadAndProcessLT1 sequence
 - 3. One user calling LTS_ConsTopEntity sequence
- LTS_10_CubeView_LoadProc_LT1_LT2_Cons replicates:
 - 1. Ten users calling LTS_ExecuteCubeViews sequence
 - 2. One user calling LTS_LoadAndProcessLT1 sequence
 - 3. One user calling LTS_LoadAndProcessLT2 sequence
 - 4. One user calling LTS_ConsTopEntity sequence
- LTS_10_CubeView_LoadProc_LT1_LT2_LT3_Cons replicates:

- 1. Ten users calling LTS_ExecuteCubeViews sequence
- 2. One user calling LTS_LoadAndProcessLT1 sequence
- 3. One user calling LTS_LoadAndProcessLT2 sequence
- 4. One user calling LTS_LoadAndProcessLT3 sequence
- 5. One user calling LTS_ConsTopEntity sequence
- LTS_60_CubeView_LoadProc_LT1_Cons replicates:
 - 1. Sixty users calling LTS_ExecuteCubeViews sequence
 - 2. One user calling LTS_LoadAndProcessLT1 sequence
 - 3. One user calling LTS_ConsTopEntity sequence
- LTS_60_CubeView_LoadProc_LT1_LT2_Cons replicates:
 - 1. Sixty users calling LTS_ExecuteCubeViews sequence
 - 2. One user calling LTS_LoadAndProcessLT1 sequence
 - 3. One user calling LTS_LoadAndProcessLT2 sequence
 - 4. One user calling LTS_ConsTopEntity sequence
- LTS_60_CubeView_LoadProc_LT1_LT2_LT3_Cons replicates:
 - 1. Sixty users calling LTS_ExecuteCubeViews sequence
 - 2. One user calling LTS_LoadAndProcessLT1 sequence
 - 3. One user calling LTS_LoadAndProcessLT2 sequence
 - 4. One user calling LTS_LoadAndProcessLT3 sequence
 - 5. One user calling LTS_ConsTopEntity sequence
- LTS_100_CubeView_LoadProc_LT1_Cons replicates:

- 1. One hundred users calling LTS_ExecuteCubeViews sequence
- 2. One user calling LTS_LoadAndProcessLT1 sequence
- 3. One user calling LTS_ConsTopEntity sequence
- LTS_100_CubeView_LoadProc_LT1_LT2_Cons replicates:
 - 1. One hundred users calling LTS_ExecuteCubeViews sequence
 - 2. One user calling LTS_LoadAndProcessLT1 sequence
 - 3. One user calling LTS_LoadAndProcessLT2 sequence
 - 4. One user calling LTS_ConsTopEntity sequence
- LTS_100_CubeView_LoadProc_LT1_LT2_LT3_Cons replicates:
 - 1. One hundred users calling LTS_ExecuteCubeViews sequence
 - 2. One user calling LTS_LoadAndProcessLT1 sequence
 - 3. One user calling LTS_LoadAndProcessLT2 sequence
 - 4. One user calling LTS_LoadAndProcessLT3 sequence
 - 5. One user calling LTS_ConsTopEntity sequence

Name	Date modified	Туре	Size
LTS_1_CubeView	9/19/2014 9:34 AM	Windows PowerShell Script	7 KB
LTS_1_LoadProc_LT1	9/19/2014 9:34 AM	Windows PowerShell Script	7 KB
LTS_10_CubeView_LoadProc_LT1_Cons	9/19/2014 9:34 AM	Windows PowerShell Script	7 KB
LTS_10_CubeView_LoadProc_LT1_LT2_Cons	9/19/2014 9:34 AM	Windows PowerShell Script	7 KB
LTS_10_CubeView_LoadProc_LT1_LT2_LT3_Cons	9/19/2014 9:35 AM	Windows PowerShell Script	7 KB
LTS_60_CubeView_LoadProc_LT1_Cons	9/19/2014 9:35 AM	Windows PowerShell Script	7 KB
LTS_60_CubeView_LoadProc_LT1_LT2_Cons	9/19/2014 9:35 AM	Windows PowerShell Script	7 KB
LTS_60_CubeView_LoadProc_LT1_LT2_LT3_Cons	9/19/2014 9:35 AM	Windows PowerShell Script	7 KB
LTS_100_CubeView_LoadProc_LT1_Cons	9/19/2014 9:39 AM	Windows PowerShell Script	7 KB
LTS_100_CubeView_LoadProc_LT1_LT2_Cons	9/19/2014 9:40 AM	Windows PowerShell Script	7 KB
LTS_100_CubeView_LoadProc_LT1_LT2_LT3_Cons	9/19/2014 9:40 AM	Windows PowerShell Script	7 KB

Sequence Files

Sequence files are called from PowerShell scripts and contain the commands used to execute processes within OneStream.

LTS_ConsTopEntity

Executes a top level consolidation using a Data Management Job

LTS_ExecuteCubeViews

Executes two Cube Views with a random wait time between them to simulate users viewing reports. It then loops and re-runs the process which replicates one user running four Cube Views.

LTS_LoadAndProcessLT1

Executes a Batch Load using a Data Management Job. The first Data Management Sequence called copies the Batch Files into the Batch Folder and then executes the Batch Process running four parallel file groups.

LTS_LoadAndProcessLT2

Executes a Batch Load through a Data Management Job. The first Data Management Sequence called copies the Batch Files into the Batch Folder and then executes the Batch Process running four parallel file groups.

LTS_LoadAndProcessLT3

Executes a Batch Load through a Data Management Job. The first Data Management Sequence called copies the Batch Files into the Batch Folder and then executes the Batch Process running four parallel file groups.

Using Load Test Suite

Run Tests

Once the Load Test Suite has been configured and the Data Management Jobs have been tested, the Test Suite is ready to be run within Powershell. Open each test script in Powershell ISE and click **Run Script**.

The tests (PowerShell scripts) can be retrieved from:

C:\OneStream\StressTesting\TestDefinitions\PowerShellScripts.

NOTE: PowerShell concurrent user limitation occurs when LTS_LoadAndProcess_ ActualLT1 - LT3 data management jobs and test sequences do not support concurrent users, only one user.



Import and Analyze Results

The tests will create log files in the *C*:*OneStream**StressTesting**TestLogs* folder after they run which can then be imported into the *LTS_Logs Workflow*. From the import step in the workflow, click **Load And Transform** to upload each .csv file.

OnePlace	Application	System	*			
Workflov	N		•			
LTS_Log	ys					
LTS_Res	sults1					
2016						
2016 Peri	iods			1		
201	16					
-	LTS_Logs.In	nport				
Data Sou	ind Transfo	rm	ITS Logs			
Data Sol	urce Name		LIS_LOGS	iloc		
Allow Dy	/namic Exce	l Loads	True	lies		
Load Me	ethod		Replace			
Upload I	Local File	Select Se	rver File			
File Na	me					
					01/	Care
					OK	Cance

After importing the result log files into OneStream, users can review or analyze the results from the Dashboard Analysis section of the Workflow.

Performance degradation occurs when high concurrent user tests are imported within the same workflow profile, scenario, and year for both the desktop and web clients.

Using Load Test Suite



NOTE: If test logs need to be removed or are no longer relevant, highlight the specific test log and click **clear**. This removes the test log from being available in the data load list.

View all Results

By default, the Load Test Suite Comparison tabs will display all results for the test logs imported. To view specific sequence data, select a radio button option from the Step: menu.



Optimal Display Settings

OneStream and MarketPlace solutions frequently require the display of multiple data elements for proper data entry and analysis. Therefore, the recommended screen resolution is a minimum of 1920 x 1080 for optimal rendering of forms and reports.

Modifying MarketPlace Solutions

A few cautions and disclaimers when modifying a MarketPlace Solution:

- Major changes to Business Rules or custom tables within a MarketPlace Solution will not be supported through normal channels as the resulting solution is significantly different from the core solution.
- If changes are made to any Dashboard object or Business Rule, consider renaming it or copying it to a new object first. This is important because if there is an upgrade to the MarketPlace Solution in the future and the customer applies the upgrade, this will overlay and wipe out the changes. This also applies when updating any of the standard reports and Dashboards.
- If modifications are made to a MarketPlace Solution, upgrading to later versions will be more complex depending on the degree of customization. Simple changes such as changing a logo or colors on a Dashboard do not impact upgrades significantly. Making changes to the custom database tables and Business Rules, which should be avoided, will make an upgrade even more complicated.