

# SCENARIO ANALYSIS 123 SETUP INSTRUCTIONS

PV 530 SV 100

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# **OVERVIEW**

Scenario Analysis 123 allows users to quickly create and iterate through several what-if scenarios utilizing different driver-based rules in order to efficiently analyze different outcomes. The solution allows for the creation and management of multiple rules and execution of calculation jobs across scenarios. The solution includes built-in reporting capabilities to compare results across scenarios.

# Important Usage Considerations

Following are important considerations for the implementation and usage of Scenario Analysis 123:

#### Access

Scenario Analysis 123 is not intended to be used within Workflows and must only be accessed using the OnePlace dashboard.

Limit usage of Scenario Analysis 123 to the following:

- Experienced OneStream "Power Users"
- Administrator security role
- Security group with a limited number of experienced "Power Users"

#### **Performance Impacts**

Scenario Analysis 123 is not intended for full Entity or multi-Entity hierarchy consolidations spanning multiple periods or years for multiple users. Calculation jobs created using Force Consolidate are intended for base level calculations and small consolidation hierarchies.

The single environment shares resources between the two applications. Testing Scenario Analysis 123 in a single environment that includes Development and Production applications will impact both applications. Coordinate an optimal testing window within your organization to prevent negative impact on other reporting processes performed in the Production application.

When copying base data from one scenario to another, it is important to understand how much data is being copied and whether you need to consolidate the whole Entity structure or multiple Entity structures. Multiple large consolidations in the system may impact each other depending on the environment configuration.

Refer to the consolidation schedules of your organization before using Scenario Analysis 123.

# **SETUP & INSTALLATION**

This section contains important details related to the planning, configuring, and installation of your solution. Before you install Scenario Analysis 123, familiarize yourself with these details.

See also: MarketPlace Solution Modification Considerations

### Dependencies

Component	Description
OneStream XF 5.3.0 or later	Minimum OneStream Platform version required to install this
	version of Scenario Analysis 123.
OneStream App for Windows	Scenario Analysis 123 is optimized for the OneStream App for
	Windows which has all the functionality as the browser-based
	version of OneStream XF.

# Select the Scenario Analysis 123 Development Location

Before beginning installation, decide whether to build Scenario Analysis 123 directly in the Production OneStream XF application or in a separate Development OneStream XF application. This section provides some key considerations for each option.

**Production OneStream XF Application:** The primary advantage of building Scenario Analysis 123 in a Production application is that you will not have to migrate the resulting work from a Development application. However, there are intrinsic risks when making design changes to an application that is being used in a Production capacity and this is seldom advised.

**Note**: It is strongly recommended to implement Scenario Analysis 123 in the Development environment with a fresh copy of the Production application before starting work.

**Development OneStream XF Application:** As a Best Practice, use the Development OneStream XF application to build Scenario Analysis 123.

### Create the OneStream XF Development Application

- 1. Ensure all the OneStream XF artifacts relating to Scenario Analysis 123 such as **Scenarios** are in the Production application.
- 2. Copy your Production OneStream XF application to your Development environment and rename it. This Development version will be used for your Scenario Analysis 123 project.

# **Application Server Settings**

You may need to edit the OneStream XF Application Server Configuration so users can create and change data in the additional database tables used by Scenario Analysis 123. If other MarketPlace Solutions (such as Specialty Planning) are already in the application, these adjustments may already exist.

See also: Solution Database Migration Advice

#### Configure the OneStream XF Application Server

Be sure that the security group settings include the users who will be working on and setting up Scenario Analysis 123 before proceeding.

**Note**: Group settings are applicable to all XF MarketPlace solutions; it is important to keep the group names generic.

- 1. Start the OneStream XF Server Configuration Utility as an Administrator.
- 2. Select Open Application Server Configuration File > Database
- 3. Edit the following OneStream Database Server properties:
  - Access Group for Ancillary Tables: Select a group that includes those who will access records.
  - Can Create Ancillary Tables: True
  - Can Edit Ancillary Table Data: True
  - Maintenance Group for Ancillary Tables: Select a group who will edit and maintain tables.
  - Table Creation Group for Ancillary Tables: Select a group who can create tables.

One	Stream Database Server properties:	
	\$↓   □	
>	Azure Database Connection Settings	
>	Connection String Settings	
$\sim$	General	
	Access Group for Ancillary Tables	DB_ANC_Access_Group   Read Access
	Allow Database Creation via UI	True
	Can Create Ancillary Tables	True
	Can Edit Ancillary Table Data	True
	Database Provider Type	SqlServer
	Is External Database	False
	Maintenance Group for Ancillary Tables	DB_ANC_Maintenance_Group   Read Access
	Name	OneStream Database Server
	Table Creation Group for Ancillary Tables	Everyone
	Use File Groups when Creating Databases	True
	Use Table Partitioning when Creating Databases	True

4. Restart Internet Information Server.

### **Install Scenario Analysis 123**

1. On the OneStream XF MarketPlace Dashboard, click **MarketPlace** > **Scenario Analysis 123.** 

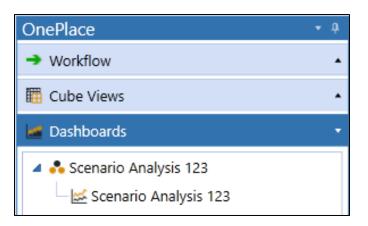


- 2. On the Scenario Analysis 123 Solution page, select the appropriate OneStream XF platform version from the **Minimum Platform Version** drop-down list.
- Select the most recent version from the Solution Version drop-down list and then click Download.
- 4. Log in to OneStream XF.
- 5. On the **Application** tab, click **Tools** > **Load/Extract**.
- 6. On the Load tab, locate the solution package using the Select File icons and click Open.
- 7. When the solution's file name appears, click **Load**.
- 8. Click **Close** to complete the installation.

# Set Up Scenario Analysis 123

The first time Scenario Analysis 123 is run, you are guided through the table setup process.

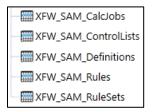
• In OneStream XF, click OnePlace > Dashboards > Scenario Analysis 123 > Scenario Analysis 123.



#### **Create Tables**

#### 1. Click Step 1: Create Tables

This step may be necessary when upgrading even if tables are already present. Scenario Analysis 123 will not drop any tables that already exist but will modify table structures and add any new ones if necessary.



2. When setup is complete, click Step 2: Launch Solution to open Scenario Analysis 123.

#### **Package Contents**

The Dashboard Maintenance Unit provides the user interface for Scenario Analysis 123 and includes the required Dashboard Groups, Components, Data Adapters, Parameters and files.

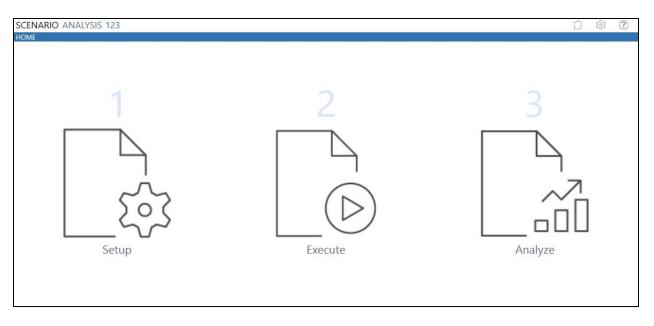
# Номе



The **Home** page contains Setup, Execute, and Analyze.

Scenario Analysis 123 is grouped into three sections:

- 1. *Setup* establishes the creation and maintenance of scenario Definitions, Rule Sets, and Rules.
- 2. *Execute* contains execution and management of Calculation Jobs for scenario Definitions.
- 3. Analyze displays charts and pivot grids to view different scenario results.



# SETTINGS

The **Settings** page contains the Global Options tab in which key properties that guide Scenario Analysis 123 administration are set as well as Uninstall options.

# **Global Options**

The **Global Options** page should be one of the first pages visited when configuring Scenario Analysis 123.

Note: All Global Options settings are retained during solution upgrades.

SCENARIO ANALYSIS 123		
SETTINGS		
Global Options		
Uninstall	Access & Manage Scenario Analysis: Admin	istrators 🔹
	Analyze Results Row Limit: 50000	

#### Access and Manage Scenario Analysis Security Role

Scenario Analysis 123 security is governed at the global level. Therefore, it is the assignment of the user group to the Security Role that determines who will be the global Scenario Analysis 123 Administrators.

#### Assign User Group to Security Role

• Click **Global Options**, select the user group from the drop-down list (the default value is **Administrators**), and click **Save**.

#### Analyze Results Row Limit

*Analyze Results Row Limit* sets the maximum number of data rows that can be used to display the charts and pivot grids on the Analyze page. The default value is 50,000 rows which can be raised or lowered to account for server and client hardware-based performance limitations.

## Uninstall

Uninstall allows the Scenario Analysis 123 User Interface or the entire solution to be uninstalled. Note that if this is performed as part of an upgrade, any modifications that were performed on standard Scenario Analysis 123 objects will be removed.

There are two Uninstall options:

- Uninstall UI removes Scenario Analysis 123, including related dashboards and business rules but leaves the database and related tables in place. For some releases, this step should be performed before accepting any new version of Scenario Analysis 123 since some of the Dashboards or other objects may have been modified.
  - **Choose this option if** you want to accept a Scenario Analysis 123 update without removing the data tables.
  - The Scenario Analysis 123 Release Notes will indicate if an overinstall is supported.
- 2. **Uninstall Full** removes all the related data tables, all data, Scenario Analysis 123 Dashboards, and Business Rules.
  - **Choose this option** to completely remove Scenario Analysis 123 or to perform an upgrade that is so significant in its changes to the data tables that this method is required.

WARNING: Uninstall procedures are irreversible.

# Setup

Setup includes the creation and maintenance of Definitions, Rule Sets, and Rules.

# Definitions

Definitions consist of a Source and Target Scenario for a Cube. Rules Sets and Rules can be created and applied to the Definition's Target Scenario.

- Name: Freeform text field to give Definition a short name.
- **Description:** Optional freeform text field containing additional definition information.
- Target Scenario: The scenario to which the rules are applied.
- Source Scenario: The scenario that will be copied to the Target Scenario.
- **Cube:** The Cube where the Source and Target Scenarios are located.
- Created By: The name of the user who created the Definition.
- **Created Date:** The date the Definition was created.

Note: Cube and Source Scenarios are displayed based on the user's security access.

-081	Defin	itions		2
Name 🌹	Description <b>T</b>	Target Scenario 🔻	Source Scenario 🔻	Cube 🕇
2020 Mar - EMEA Adjustment		2020 Mar EMEA	Plan	Finance
2020 Mar - NA Adjustment		2020 Mar NA	PlanAdj	Finance



Creating a new Definition will create a new Target Scenario by copying all Dimension Library properties and settings, including security settings, from the Source Scenario within the same Cube.

#### **Create a Definition**

**Tip**: Selecting a Scenario Type should be considered and based on business requirements. A new Scenario Type can be used if your requirements do not require all financial model rules to be attached to that Scenario Type.

- 1. On the **Setup** page, click **Create**.
- 2. In the *Create Definition* dialog **Select**:
  - **Definition Name:** Enter a display name to identify the Definition.
  - **Definition Description:** Enter an optional description for the Definition.
  - **Cube:** Select the Cube where the Source and Target Scenarios are located.
  - **Source Scenario:** Select the Source Scenario that will be copied to the Target Scenario.
  - **Target Scenario Type:** Select the new Target Scenario type (defaults to the same type as the selected Source Scenario).
  - Target Scenario Name: Enter the new Target Scenario name where the rules will be applied.
  - Target Scenario Description: Enter an optional description for the new Target Scenario.
  - **Copy All Rule Sets and Rules from Source:** Select this checkbox to copy existing Scenario Analysis Definition Rule Sets and Rules if they exist for the source scenario. This will not copy member formulas and business rules.
- 3. Click Save.

**Important!** The settings of the Source Scenario and Target Scenario must be the same. Examples: Copying from a Source Scenario using Range to a Target Scenario using Yearly or copying Source Scenario to a Target Scenario that uses Extensibility.

${\it I} {\it I}$ Create Definition	Û	□×
Definition Name:		
2020 Mar - NA Adjustment		
Definition Description:		
Adjustment for March, 2020.		
Cube:		
Finance		
Source Scenario:		
PlanAdj		•
Target Scenario Type:		
Plan		•
Target Scenario Name:		
2020 Mar NA		
Target Scenario Description:		
Standard March, 2020		
Copy All Rule Sets and Rules from So	ource:	
Create	Ca	ancel

#### **Delete a Definition**

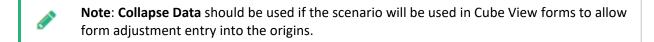
- 1. On the **Setup** page, select the Definition.
- 2. Select **Delete Row(s)**.
- 3. Click Save.

**Note**: Deleting a definition does **not** delete the Target Scenario created with the definition. If a scenario must be deleted, use the Dimension Library under Application. You must first remove that scenario with a Data Management "Clear Data" job before you can delete a scenario.

### Rule Sets

Rule Sets are a collection of Rules that can be applied to the Target Scenario definition.

- Name: Freeform text field to give Rule Set a short name.
- **Description**: Optional freeform text field containing additional Rule Set information.
- **Process Sequence**: The order in which the Rule Sets are run. Rule Sets are run in ascending order of the process sequence.
- Active: Indicates if the Rule Set should be run during Rule processing (on/off toggle).
- Collapse Data: Will collapse all data to the Import origin.



#### Add Rule Set

- 1. On the **Setup** page, select the Definition.
- 2. Select **Insert Row** on the Rule Sets table header and then double-click in the following cells to enter information:
  - Name: Enter a display name to identify the Rule Set.
  - **Description:** Enter an optional description for the Rule Set.
  - Process Sequence: Enter the sequence order for Rule Set processing.
- 3. Click Save.

#### **Copy Rule Set**

Copying Rule Set allows for a Rule Set to be copied to the same Definition or different Definition.

- 1. On the **Setup** page, select the Definition.
- 2. Select the Rule Set you want to copy.
- 3. Select Copy Set.
- 4. In the Copy Rule Set dialog box, add the new Rule Set Name, an optional Rule Set Description, and the Target Definition.
- 5. Click **Copy**.

Ø Copy Rule Set	Ô	п×
General Rules		
New Rule Set Name:		
New Rule Set		
New Rule Set Description:		
Description of new rule set.		
Target Definition:		
2020 Mar - NA Adjustment		•
Сору	Ca	ncel

#### **Delete Rule Set**

- 1. On the **Setup** page, select the Definition and Rule Set.
- 2. Select Delete Row(s).
- 3. Click Save.

### Rules

Rules are a collection of percentage values tied to a specific dimension and a time range for a given Definition Rule Set.

- Name: Freeform text field to give Rule a name
- Description: Optional freeform text field containing additional Rule information
- **Process Sequence**: The order in which the rules are run. Rules are run in ascending order of the process sequence within each Rule Set.

**Note**: Consideration is needed for processing sequencing of rules. Rules with broader to more specific Member Filters should be sequenced in ascending order.

- Active: Indicates if the Rule should be run during rule processing (on/off toggle)
- Dimensions (Entity UD8): The dimensions available where Member Filters can be applied for the Definition.
- Origin: There are three options for origin: Top, BeforeAdj, and Import.

**Note**: Each dimension field is freeform and allows for Member Filters to be applied to filter the data. Brackets are added to all Member Filters when applied to the formula as a precaution in case a dimension member has a space. Example: [New York]

See *Chapter 7: Cube Member Filters* in the OneStream XF Design and Reference Guide for complete Member Filter details.

• **Periods (P1-P24):** Time periods 1 through 24 where the rule numerical percentage values will be applied.

#### Add Rule

- 1. On the **Setup** page, select the Definition and Rule Set.
- 2. Select **Insert Row** on the Rules table header and then double-click in the following cells to enter information:
  - Name: Enter a display name to identify the Rule
  - **Description:** Enter an optional description for the Rule.
  - **Process Sequence:** Enter the sequence order for the rule processing.
  - Dimensions (Entity UD8): Enter the Member Filters for each dimension.
  - **Periods (P1-P24):** Enter the percentage values for each period. Alternatively, the percentage value can be entered in the % Value field for a percentage value to be applied to all periods.
- 3. Click Save.



The % Value field can be used to apply a percentage amount to all periods.

**Tip**: When creating a new definition, only the settings are copied from the Source Scenario to the Target Scenario. If the data needs to be copied to the Target Scenario, you can accomplish this by applying an *All* or *Root.Base* Member Filter to each dimension in a Rule. Example: A#Root.Base, A#ALL.

#### **Copy Rule**

Copying Rules allows for a Rules to be copied to the same Definition Rule Set or different Definition Rule Set.

- 1. On the **Setup** page, select the Definition and Rule Set.
- 2. Select the Rule you want to copy.
- 3. Select Copy Rule.
- 4. In the Copy Rule dialog box, add the new Rule Name, an optional Rule Description, Target Definition and Target Rule Set.
- 5. Click Copy.

Ø Copy Rule	Ô	□ ×
Online Sales		
New Rule Name:		
Online Sales Rule		
New Rule Description:		
Online sales rule description.		
Target Definition:		
2020 Mar - NA Adjustment		•
Target Rule Set:		
General Rules		•
Сору	Ca	incel

#### **Delete Rule**

- 1. On the **Setup** page, select the Definition and Rule Set.
- 2. Select the Rule.
- 3. Select Delete Row(s).
- 4. Click Save.

#### Apply Formula to Target Scenario

Once Rule Sets and Rules are created, the underlying Member Filters and percentage values can be applied to the Target Scenario member formula.



The Apply action adds the Member Filters and percentage values from each Rule to the Target Scenario member formula.

**Important!** When changing Rule Sets or Rules, you must click **Apply** in order to apply the changes to the Target Scenario member formula.

When the formula is applied the message, *Formula Generated by Scenario Analysis 123* is added to the Formula text along with the data and time stamp of update to the Target Scenario member formula under Member Properties.

Members	Dimension Properties	Grid View		
🕨 📄 Men		Member Properties	Relationship Properties	
🕨 📄 Orpl	hans	Use input view Fo	r Adj in Calculations	Faise
🔟 👉 🚞 Hier	archy	No Data Zero Viev	v For Adjustments	Periodic
	Vone	No Data Zero Viev	v For NonAdjustments	Periodic
- <b>#</b> * F	Plan	Consolidation View	N	Periodic
- <b>8</b> 8 P	PlanAdj	Formula		'FORMULA GENERATED BY SCENA

🕖 Formula Editor - [PlanAdj]	
Filter	i #   🗏 🚊   <b>▼</b> 68   ✔
► & api ► & args	1 EFormula Header

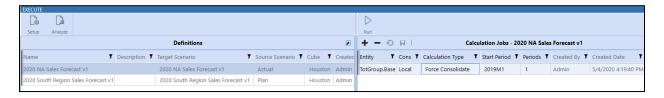
# EXECUTE

Execute

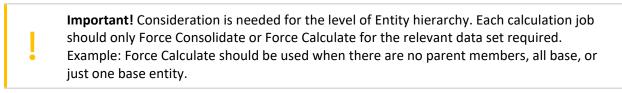
Execute includes the management and execution of Calculation Jobs for scenarios.

# **Calculation Jobs**

Allows the ability to execute either a Force Consolidate or Force Calculate data management job for a defined set of data for a given Definition scenario.



- Entity: Where a Member Filter can be applied to execute the calculation job for a specific entity.
- **Cons:** Where a Member Filter can be applied to execute the calculation job by a specific consolidation type.
- **Calculation Type:** The type of calculation, Force Consolidate or Force Calculate.



- Start Period: The starting period for the calculation job.
- **Periods:** The number of periods the calculation job should be executed.

#### Create a Calculation Job

- 1. On the **Execute** page, select the Definition.
- 2. Select **Insert Row** on the Calculation Jobs table header and then double-click in the following cells to enter information:
  - Entity: Enter the Member Filters for the Entity dimension.
  - **Cons:** Enter the consolidation type
  - **Calculation Type:** Select the calculation type of Force Consolidate or Force Calculate.
  - **Start Period:** Enter the starting period for the calculation job.
  - **Periods:** Select the number of periods the calculation job should be executed.
- 3. Click Save.



Runs the selected calculation data management job.

**Important!** Make performance considerations before executing calculation data management jobs against large metadata hierarchies.

# **ANALYZE**

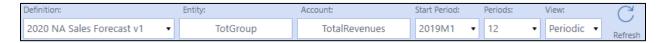


Contains charts and pivot grids to view and analyze different scenarios.

Analyze

# **Filters**

The View and Pivot results are returned when the header filters are fully specified.



### View



Provides a chart and grid for Source versus Target Scenario comparison with variance. Additional Time, Entity, and Account filters are provided.

														Û	i ©
IVZE	Definition: Plan to PlanAdj	•	intity: TotGroup	Account: Total R	Start P evenues 2020		View: Periodic	C' Refresh							
Search (All) 2020M01 2020M02 2020M03 2020M04 2020M05	22K 21.5K 21.5 20.5 K 20.5 K				$\sim$		/							Source	Target
Search (All) ENTOD1 ENTOD2	20K 19.5K 19K 18.5K 18K 17.5K			J	>	4						$\subset$			_
Search		2020M01	2020M02	2020M03	2020M04	2020/05	2020M06	2020M07	2020M08	2020M09	2020M10	2020M11	2020M12 20	221M01 20	021M02
<ul> <li>✓ (All)</li> <li>✓ OnlineSales</li> </ul>	2К												_	= v	ariance
<ul> <li>✓ (All)</li> <li>✓ OnlineSales</li> </ul>	ок	2020M02	2020M03	2020M04	2020M05	2020M06	2020M07	2020M08	2020M09	2020M10	2020M11	2020M12	2021M01 20	221M02	ariance
<ul> <li>✓ (All)</li> <li>✓ OnlineSales</li> <li>✓ Sales</li> <li>✓ Source</li> </ul>	ОК -2К	2020M02 18,000.00		2020M04 20,500.00	2020M05 18,700.00	2020M06 19,600.00	2020M07 21,300.00		2020M09 22,000.00		2020M11 18,100.00				ariance

# **Pivot**

Pivot

Provides a pivot grid where scenario data can be filtered and analyzed in greater detail.

	e		ii 1		Definition:	Entit	¢.	Account:	Start Per	iod: Periods:	View:	C					
Setup	L® Execute			le⊒i ivot	Plan to PlanAdj	-	TotGroup	Total Reve	nues 2020N	11 • 12	- Doriodic -	lefresh					
₽ 5																	
🕹 Hidden	Fields			<b></b> •			2020M01			2020M02			2020M03			2020M04	
Cons				î			Source	Target	Variance	Source	Target	Variance	Source	Target	Variance	Source	Target
Cube					✓ ENT001	OnlineSales	1,500.00	1,600.95	-100.95	1,500.00	1,560.00	-60.00	1,500.00	1,613.40	-113.40	1,500.00	
Flow			- ENTOUT	Sales	4,500.00	4,808.70	-308.70	4,500.00	4,576.50	-76.50	4,500.00	4,525.20	-25.20	4,500.00	(		
IC					ENT001 Total		6,000.00	6,409.65	-409.65	6,000.00	6,136.50	-136.50	6,000.00	6,138.60	-138.60	6,000.00	
Origin Parent				_		OnlineSales	3,000.00	3,201.90	-201.90	3,000.00	3,120.00	-120.00	3,000.00	3,226.80	-226.80	3,000.00	
Parent				•	ENT002	Sales	9,000.00	9,617.40	-617.40	9,000.00	9,153.00	-153.00	9,000.00	9,050.40	-50.40	9,000.00	1
💡 Filter Ar	rea	_	Column A	rea	ENT002 Total		12,000.00	12,819.30	-819.30	12,000.00	12,273.00	-273.00	12,000.00	12,277.20	-277.20	12,000.00	
		Tir	me	•	Grand Total		18,000.00	19,228.95	-1,228.95	18,000.00	18,409.50	-409.50	18,000.00	18,415.80	-415.80	18,000.00	
Row An	-0.0		Data Area														
Entity	-		ource														
Account			rget	_													
. leeburn			riance														
Defer La	ayout Up	pdate	Up	date													

# HELP & MISCELLANEOUS INFORMATION

?

This page contains solution documentation.

## **Display Settings**

OneStream XF and XF 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.

### Package Contents & Naming Conventions

The package file name contains multiple identifiers that correspond with the Platform. Renaming any of the elements contained in a Package is discouraged in order to preserve the integrity of the naming conventions.

Identifier	Description
SAM	Solution ID
PV5.3.0	Minimum XF Platform version required to run solution
SV100	Solution version
PackageContents	File name

#### Example Package Name: SAM\_PV5.3.0\_SV100\_PackageContents.zip

# **Solution Database Migration Advice**

A Development OneStream XF Application is the safest method for building out a solution with custom tables such as this one. The relationship between OneStream objects such as Workflow Profiles and custom solution tables is that they point to the underlying identifier numbers and not the object names as seen in the user interface. Prior to the solution configuration and to ensure the identifiers match within the Development and Production Applications, the Development Application should be a recent copy of the Production Application. Once the Development Application is created, install the solution and begin design. The following process below will help migrate the solution tables properly.

See also: Managing a OneStream Environment in the OneStream XF Design and Reference Guide

- In the Production OneStream XF application, install the solution and create the data tables. See <u>Configure the OneStream XF Application Server</u> for Database Server Connection settings and installation details.
- Data tables were created in the OneStream XF Development Application during the solution installation. Copy the data from the tables to the Production Microsoft SQL Server Database using the Microsoft SQL Migration Utility. This utility should only be run by the Microsoft SQL Administrator.

The Microsoft SQL Migration Utility and instructions on its use can be downloaded online from: <u>https://sqlazuremw.codeplex.com</u>

**Important!** This process has the potential to overwrite existing table data in the Production Application database if data already exists.

# MarketPlace Solution Modification Considerations

A few cautions and considerations regarding modification of MarketPlace Solutions:

- 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.

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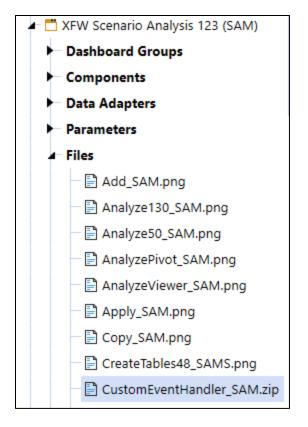
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# APPENDIX A: CUSTOM EVENT MODEL

The purpose of the Custom Event Model is to provide a method in which users can add customizations to Scenario Analysis 123 that remain in place and are bypassed during a solution upgrade. Scenario Analysis 123 supports these models via Business Rules.

# Set Up the Custom Event Model

- On the Application tab click Dashboards > Dashboard Maintenance Units > XFW Scenario Analysis 123 (SAM) > Files
- 2. In the Files folder, click CustomEventHandler\_SAM.zip.



- 3. In the General (File) pane, click Download File and save the file to an appropriate location.
- 4. On the **Application** tab, click **Tools** > **Load/Extract**.
- 5. On the Load tab, locate CustomEventHandler\_SAM.zip using the Select File icons and click Open.
- 6. When the file name appears, click **Load** to import the business rule.

### **Integrate Business Rules**

After importing the business rule, update the *SAM\_EventHandler* business rule to integrate with the *CustomEvents* business rule.

1. In the **General** section of the *SAM\_SolutionHelper* script Properties tab, add BR\CustomEvents\_ScenarioAnalysis123 to **Referenced Assemblies**.

Properties Formula					
General					
Name	SAM_SolutionHelper Dashboard Extender				
Туре					
Referenced Assemblies	BR\SAM_EventHandler; BR\CustomEvents_ScenarioAnalysis123				
Is Encrypted	True				
Gecurity					
Access Group	Everyone				
Maintenance Group	Everyone				

2. In the **General** section of the *SAM\_EventHandler* script Properties tab, add BR\CustomEvents\_ScenarioAnalysis123 to **Referenced Assemblies**.

Properties Formula				
General				
Name	SAM_EventHandler			
Туре	Dashboard Extender			
Referenced Assemblies	BR\CustomEvents_ScenarioAnalysis123			
Is Encrypted	False			
Security				
Access Group	Everyone			
Maintenance Group	Everyone			

- 3. Comment out line 42 of the *SAM\_EventHelper* business rule.
- 4. Uncomment line 43 of the *SAM\_EventHelper* business rule.

```
      41
      'Custom Event Handler Declaration

      42
      Public Property m_CustomEvents As Object = Nothing

      43
      'Public Property m_CustomEvents As New DashboardExtender.CustomEvents_ScenarioAnalysis.MainClass
```

Once the custom event integration is complete, event actions can be defined in the *CustomEvents\_ScenarioAnalysis123* script.

**Important!** These events will not be deleted or overridden when upgrading to new versions of Scenario Analysis 123. However, it is important to reapply these setup steps every time a new version is installed.

# Available Custom Events

#### **Before/After Selection Changed Events**

These events run before/after a custom control is clicked.

- SaveSettings
- CreateSolutionTables
- ValidateSetupStepsExecuted
- Uninstall
- OnTableEditorOrGridSelection
- OnComboBoxSelection
- OnButtonClick
- OnShowContentPage

#### **Before/After Save Data Events**

These events run before/after the save event for a table editor. For example, this can be used to test grid data prior to saving and potentially not allowing the data to be saved if a check fails.

• OnSaveOrUpdateTableEditor