

API Overview Guide

6.6.0 Release

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Introduction

The purpose of the API Guide is to provide detailed information about the technologies and application programming interfaces available to consultants and developers interested in extending the functionality of OneStream.

This document contains information about the technologies used in the OneStream product, naming conventions and organizational approaches used by the OneStream engineering team. It also includes detailed reference listings for API methods and events exposed by OneStream.

Development Technologies

Programming Language

The OneStream platform is based on the Microsoft .Net Framework. OneStream's underlying codebase is predominately made up of C# libraries with a few VB.Net libraries in use as well. C# and Visual Basic .NET are the two primary programming languages used to code against the .NET Framework. C# and VB.NET have very different syntax elements, but Microsoft developed these languages simultaneously as part of a common .NET Framework development platform. Both C# and VB.Net are developed, managed, and supported by the same language development team at Microsoft. They compile to the same intermediate language (*IL*) which runs against the same .NET Framework runtime libraries. Although programming syntax is different for each language, almost every command in VB has an equivalent command in C# and vice versa. Both languages reference the same underlying .NET Framework Base Classes to extend their functionality.

User Interface Technology

The OneStream user interface is based on the Windows Presentation Foundation (WPF) in order to provide a truly rich end user experience. WPF employs XAML, an XML based language, to define and link various interface elements. WPF applications can be deployed as standalone desktop programs, or hosted as an embedded object in a website. Windows 10 Store application development provides another opportunity for WPF based applications to be deployed, but as Windows only applications.

Server Technology

All OneStream code is hosted and executed with Microsoft Internet Information Services (*IIS*). This means that both the Web Server (*service code*) and Application Server (*service code*) are executed within an IIS Application Pool process host. The code is running on the application server tier hosted within the application sever IIS application pool. This is a very important concept to keep in mind because there will be times when a Business Rule must interact with different elements of the system. The context in which the Business Rule is running needs to be understood in order to establish communication and/or interact with those other system elements.

Database Technology

OneStream was designed to run on all versions of the Microsoft SQL Server relational database engine (Express, Standard, Data Center, Enterprise and Azure Database as a Service). For larger organizations, the SQL Server Enterprise edition is recommended because OneStream makes use of table partitioning. This enables maximum throughput during heavily multi-threaded operations such as data transformation and consolidation. The OneStream engineering team is committed to fully utilizing the capabilities of the most recent versions of SQL Server and to keeping the OneStream platform optimized for new versions of SQL Server as they become available.

OneStream API Details and Database Documentation

For more information on OneStream API functions and details on the OneStream Framework and Application database tables and indexes, the *OneStream API Details and Database Documentation* is available as part of the documentation. This can be found on MarketPlace under *Software Download*. Create a folder on the PC on which this will be loaded and copy the related zip file:

Right click and extract the zipped file's contents here. Double-click the file which ends in *chm* and this will launch the API Guide.

Contents are organized by the related Platform Engine (see Platform Engines). These are broken down into Classes (e.g. DataApi), Overload Lists, Methods (e.g. GetDataCell), Syntax and Parameters. The Index and Search tabs can be used to search by function name, enumerations, properties, etc.

Developer Fundamentals

VB.Net

The OneStream platform is based entirely on the Microsoft .Net Framework as is the Business Rules engine. Therefore, VB.Net is the logical choice for Business Rule syntax. At execution time, all Business Rules are compiled on demand and cached for fast and reliable execution. Writing a Business Rule in VB.Net provides the end user with many advantages over older products based on VBScript. Business Rule writers can expect exceptional code performance, better error messaging, and better error handling because VB.Net is a full featured programming language. In the end, these capabilities result in a more reliable Business Rule code.

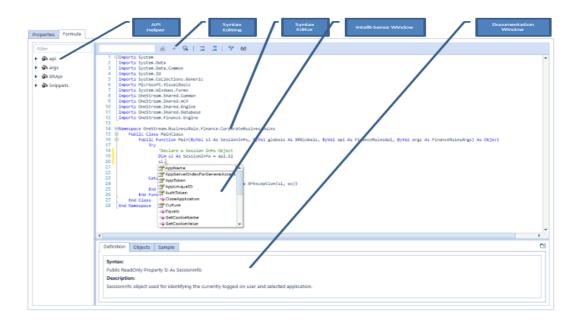
In-Solution Documentation

The Business Rule Editor includes context sensitive help for API properties and methods as well as Snippets (code examples). In-solution documentation makes the process of writing a Business Rule more efficient because both API Documentation, Objects, and Samples are presented within the Business Rule Editor window. In addition, useful coding examples accumulated by the OneStream engineering and consulting teams are also presented in context sensitive manner within the Business Rule editor. Companies and partners can author their own Snippets and include them in their application as an extension of the OneStream predefined Snippets (Snippet Editor MarketPlace Solution required).

Business Rules Editor Overview

The Business Rule editor is a powerful in-solution screen that provides integrated API context help, syntax editing with intelli-sense, and full outlining capabilities. The actual syntax content and Business Rule structure will be discussed at length in subsequent sections of this document.

The image below explains the major regions and elements of the Business Rule editor.



Helpful Resources

VB.Net is one of the most popular programming languages in use today. This language is especially popular amongst business users because the syntax is perceived to be more readable and business user friendly than other programming languages. VB.Net still shares many of the same syntax elements of older VB dialects such as VB6, VBA and VBScript. This means that users who have written Macros in Microsoft Excel or used VBScript to write Business Rules in first generation CPM solutions should feel comfortable with the core syntax elements of VB.Net. The main learning challenge business users face when migrating to VB.Net is understanding the object oriented nature of the language. In comparison to VBScript, VB.Net offers more elegant coding opportunities. Many of the statements and processes are manually created in VBScript, but in VB.Net they are encapsulated in object libraries on which users can simply call.

Microsoft VB.Net Learning

Getting comfortable with VB.Net takes a little awareness of the basic libraries and objects provided by the Microsoft .Net Framework. The link below points to some resources that business users may find helpful during the VB.Net learning process.

Microsoft Visual Basic

https://msdn.microsoft.com/en-us/library/2x7h1hfk.aspx

Platform Engines

The platform is comprised of multiple processing engines. These engines have distinct responsibilities with respect to system processing and consequently they expose different API interfaces to the Business Rules they call. This section provides a brief overview of each engine in the platform and describes the engine's core responsibilities.

Workflow Engine

The Workflow Engine is thought of as the controlling engine or the puppeteer. The main responsibility of this engine is to control and track the status of the business processes defined in the Workflow hierarchies. This engine is primarily accessed through the BRApi and can be called from other engines in order to check Workflow status during process execution. The Workflow Engine provides a very rich event model allowing each Workflow process to be evaluated and reinforced with customer specific business logic if required (see Appendix 2: Event Listing).

Stage Engine

The Stage Engine performs the task of sourcing and transforming external data into valid analytic data points. The main responsibility of this engine is to read source data (*files or systems*) and parse the information into a tabular format. This allows the data to be transformed or mapped to valid Members defined by the Finance Engine. The Stage Engine is an in-memory, multi-threaded engine that provides the opportunity to interact with source data as it is being parsed and transformed. In addition to parsing and transforming data, the Stage Engine also has a sophisticated calculation that enables data to be derived and evaluated based on incoming source data. The Stage Engine provides quality services to source data by validating, mapping, and executing Derivative Check Rules.

Finance Engine

The Finance Engine is an in-memory financial analytic engine. The main responsibility of this engine is to enrich and aggregate base data cells into consolidated multi-Dimensional information. The Finance Engine provides the opportunity to define sophisticated financial calculations through centralized Business Rules as well as member specific Business Rules (Member Formulas). It works concurrently with the Stage Engine to validate incoming intersections and works with the Data Quality Engine to execute Confirmation Rules which are used to validate analytic data values.

Data Quality Engine

The Data Quality Engine is responsible for controlling data confirmation and certification processes. This Confirmation Engine is used to define and control the sequence of data value checks required to assert the information submitted from a source system is correct. The Certification Engine is responsible for managing user certifications and determining the Workflow dependents' completion status. This engine is primarily accessed through the BRApi and may be called from other engines in order to check data quality status during process execution.

Data Management Engine

The Data Management Engine provides task automation services to the platform. This engine executes batches of commands that are organized into sequences which contain steps. Steps represent entry points or mechanisms to execute features of other engines. For example, the Clear Data Step uses the services of the Finance Engine. In addition, the Data Management Engine has the ability to execute a Business Rule Step which executes a custom Business Rule as part of a Data Management Sequence. This is an incredibly powerful capability because it provides the ability to string together any combination of predefined processing steps with custom Business Rule steps.

Presentation Engine

The Presentation Engine provides extensive data visualization services to platform. The Presentation Engine is made up of the following component engines: Cube View Engine, Dashboard Engine, Parameter Engine, Book Engine and Extensible Document Engine. The Presentation Engine is responsible for managing and delivering content to the end user as well as providing a development environment for custom user interface elements. This engine enables OneStream MarketPlace application development capabilities and continues to evolve with each product release. Like the Data Management Engine, the Presentation Engine interacts with and can call the services of all other engines in the product.

BRApi

The BRApi is common across all Business Rules, engines and APIs being run, so it is not an engine itself. A BRApi function runs outside of the other engines and can orchestrate certain functions from within other engines. In other words, a BRApi function be run from one engine (e.g. Parser) to tell other engines (e.g. Finance) to execute their own APIs (e.g. API.Data.GetDataCellUsingMemberScript). For another example, while the API.Data.GetDataCell function is available from within the Finance engine, a similar BRApi called GetDataCellUsingMemberScript can be run from any engine if given the appropriate arguments. A common use is BRApi.ErrorLog.LogMessage from any engine.

Business Rules

Anatomy of a Business Rule

This section provides a detailed explanation of the following:

- Business Rule structure and fundamentals
- · Business Rule Classifications
- Specific Business Rule Types
- · Business Rule organization
- OneStream Business Rule framework
- · Best practices for Business Rule architecture

Business Rule Definition

A Business Rule is a VB.Net Class meaning each OneStream Business Rule is an independent object encapsulating VB.Net code. A Business Rule can be as simple as a one-line call to write a log message, or it can be a full code library containing other custom VB.Net Classes, Methods and Properties.

Each OneStream Business Rule has a predefined Namespace, a Public Class and a Public Function that the OneStream platform engines invoke when the Business Rule needs to be called.

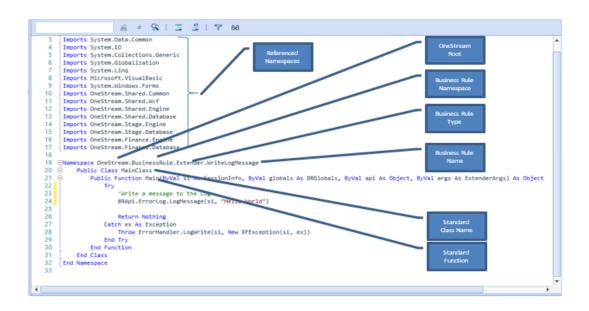
Predefined Object Names

• Namespace: OneStream.BusinessRule.<Business Rule Type>.<Unique Business Rule Name>

• Class: MainClass;

• Function: Main

Example Business Rule Structure



Function Prototypes

Each Business Rule has one standard entry point Function Title called Main. The Function definition below represents the standard prototype used by the Main Function in each OneStream Business Rule. The Main Function always has the same standard parameter layout, but the last two parameters, API and ARGS, contain different object references based on the type of Business Rule being executed.

```
Public Function Main

(

ByVal si As SessionInfo, Connection Object Required to use API

ByVal globals As BRGlobals, Global Variable Object Used to Share Values

ByVal api As Object, Specific API object (Different for each Type)

ByVal args As ExtenderArgs Specific Arguments (Different for each Type)

As Object
```

Business Rule Classifications

OneStream provides Classifications for business logic organization. At the core, all business logic is delivered and executed as compiled VB.Net code. This means no matter what type of business logic is used, there is a consistency in the syntax and compilation process. The reason for different Classifications has to do with when and how the business logic is invoked and how the Business Rule is scoped. There are two broad Business Rule Classifications: Shared Business Rules and Item Specific Business Rules. Each engine in the system may support one or both Business Rule Classifications. Whenever a processing sequence is executed within the platform, the particular engine(s) involved evaluates how/what business logic is associated with the process. This may include Shared Business Rules (Named and Event Handlers) as well as Item Specific Business Rules (Member Formulas, Logical Expressions, and Confirmation Rules).

Finance Engine Example

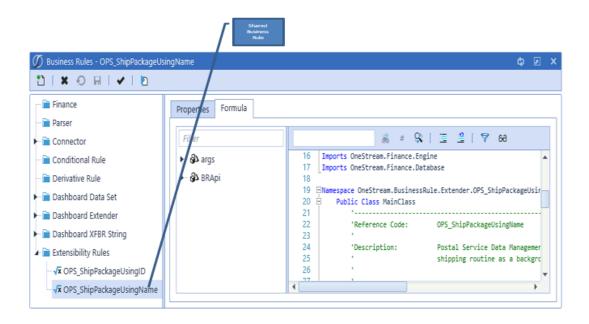
During a consolidation process, a Named Business Rule is associated with the Cube being processed. The Cube contains Member Formulas associated with some of its Dimensions. In this case, the Finance Engine compiles both the Named Business Rule and each individual Member Formula in preparation for the calculation sequence.

Stage Engine Example

A similar example applies to the Stage Engine. During a parse and transform Workflow process, a Named Business Rule is associated with the Data Source or Transformation Rules. In addition, individual Data Source Dimensions or Transformation Rules have associated Logical Expressions that are also fired. In this case, the Stage Engine compiles both Named Business Rules and each individual Logical Expression in preparation for execution during the parse and transform execution sequence.

Shared Business Rules

Shared Business Rules are reusable because the rule is written and stored centrally in the Business Rule Library. This means the same rule can be called or referenced by multiple platform components. For example, the Business Rule highlighted in the image below is a general Extensibility Rule. This rule can be executed from the Business Rule Editor, called by a Data Management Job or called by another Business Rule. Shared Business Rules are the code files seen in the tree when the OneStream Syntax Editor is open, they are organized by type, (see Business Rule Types in Chapter 4: Business Rules) and named by the user who created the rule.



Event Handler Business Rules

Event Handler Business Rules are a predefined set of Shared Business Rules and are always defined as an Extensibility Rule Type. Event Handler Rules are invoked during a processing sequence by their related platform engine in order to supplement the process. Determine/filter how/if the execution behaves for specific Workflows or the Cube POV. When an Event Handler Business Rule is called, the calling engine supplies information about the executed process providing context about the process and information about the specific sub-event executed.

Predefined Event Handler Business Rules

The list below details the specific predefined Event Handlers available in the platform. For details on the individual sub-events that fire for each Event Handler Business Rule, see *Event Listing*.

- Data Management Event Handler
- Data Quality Event Handler
- · Forms Event Handler
- Journal Event Handler
- Save Data Event Handler

- · Transformation Event Handler
- Workflow Event Handler
- · Wcf Event Handler

Item Specific Business Rules

Item Specific Business Rules are complete rules like Shared Business Rules, however they are authored and stored with the specific platform item with which the rule is associated. There are different reasons for using Item Specific Business Rules vs Shared Business Rules.

For example, when creating a one-off rule without any reusable value to other components in the system, write an Item Specific Business Rule directly on the platform component because it requires a very specific piece of business logic. Another example, which is more common when creating calculation logic for an analytic model, is to write a Member Formula that directly associates a calculation with a Dimension Member. This creates system maintenance clarity and maintainability.

Item Specific Rules, in particular Member Formulas, can have a positive performance impact because they allow calculations to be broken down into formula passes and processed in a parallel (multi-threaded) fashion. The same formulas can be written in a Shared Finance Business Rule, but the calculations will always execute in the serial manner defined in the rule.

Item Specific vs Shared Code Structure

As mentioned above, an Item Specific Business Rule and a Shared Business Rule are identical in code structure. When writing an Item Specific Business Rule, the code editor presents some hidden sections in the code window:

- · Formula Header
- Formula Footer
- Helper Function Header
- Helper Function Footer

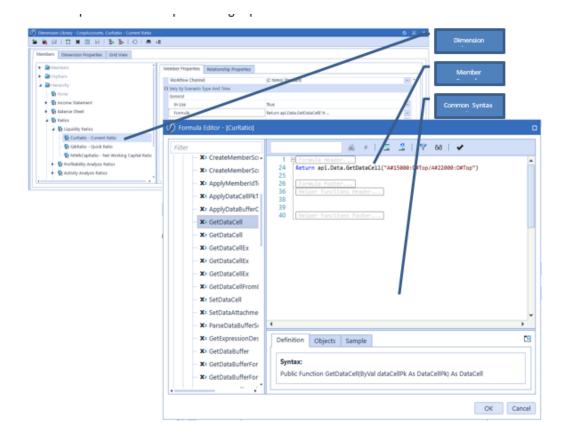
These hidden sections (i.e. Regions) keep the formula / expression as readable as possible. In a Shared Business Rule, these sections are visible which make the rule more verbose. The idea behind the Item Specific Business Rule is to create discrete code blocks that are easy to manage and have limited interdependencies. If one knows how to write a Shared Business Rule, then she/he also knows how to write an Item Specific Business Rule and vice versa.

Item Specific Rules are categorized into three types: Member Formulas, Complex Expressions, and Confirmation Rues. These relate to the platform engine with which they are associated.

Member Formulas

A Member Formula is assigned to a Dimension Member and executes within the Finance Engine during a Cube processing sequence (see the Formula Design Guide in the OneStream Design and Reference Guide for more information on processing sequences). Member Formulas provide the same level of syntax and logic capability that exist when writing a Finance Shared Business Rule, however custom consolidation, elimination, and translation logic cannot be written. Member Formulas are a great choice for writing logic limited to calculations based on a single Member and calculations that do not span Dimensions. If Member Formulas are written with these constraints in mind, then the Dimension Member and its formula can be reused in different Cubes without having dependencies on other Dimensions. This does not mean that a Member Formula cannot look at other Dimensions. Referencing Dimension Members outside of the specific Dimension where the formula exists will limit the reusability of the Dimension, or require all referenced Dimensions be used together in any new Cube.

Member Formulas are written directly on a Dimension Member within the Dimension Library. Navigate to the specific Member's *Formula* property and click the ellipsis in order to store a Member Formula. The example below is a simple working capital Member Formula.

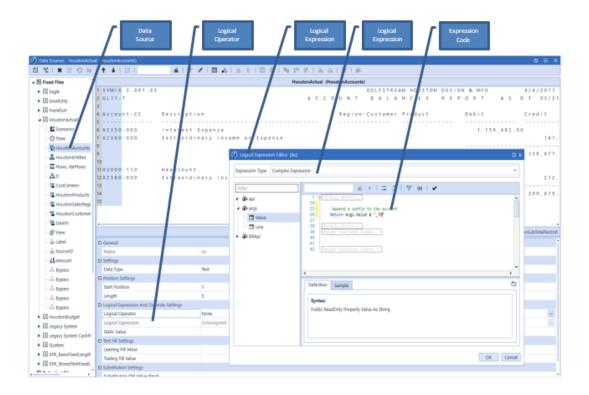


Complex Expressions

A Complex Expression is a Business Rule assigned to Data Source Dimensions, Derivative Rules, and Transformation Rules and execute within the Stage Engine during a transformation processing sequence. Complex Expressions provide the same level of syntax and logic capability that exist when writing a Stage Shared Business Rule. The primary reason for using a Complex Expression rather than a Stage Shared Business Rule is the logic being written has no reusability. Complex Expressions isolate the logic by associating it directly with a specific item.

Using Complex Expressions in a Data Source

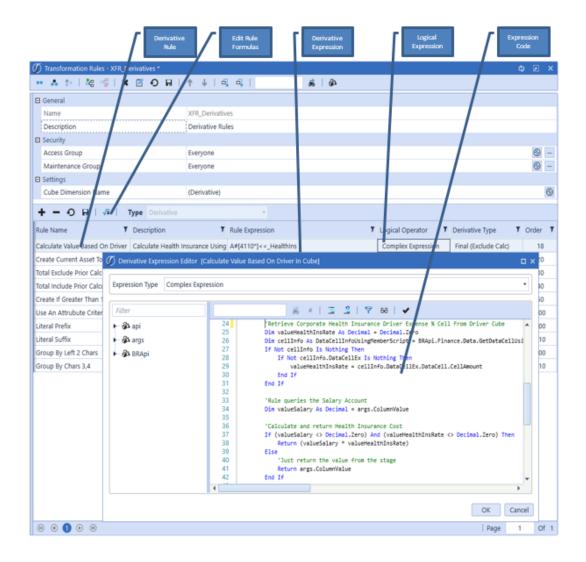
Apply Complex Expressions to a Data Source Dimension by selecting the Dimension requiring custom logic and setting the *Logical Operator*. The *Logical Operator* property opens the Logical Expression Editor dialog and allows the user to either select a *Shared Parser Business Rule* or write a *Complex Expression*. Both Shared Parser Business Rules and Parser Complex Expressions result in the exact same compiled Business Rule code. The exception is a Complex Expression is only executed for the Dimension to which it is applied and a Shared Parser Rule is shared and can be called by many Dimensions.



Using Complex Expressions in a Derivative Rule

Apply Complex Expressions to a Derivative Rule by selecting the individual Derivative Rule

requiring custom logic and setting the *Logical Operator*. Clicking the *Edit Rule Formulas* toolbar button opens the Logical Expression Editor dialog and allows the user to either select a *Shared Derivative Business Rule*, write a *Complex Expression*, or use a *Pre-Built Expression*. Both Shared Derivative Business Rules and Derivative Complex Expressions result in the exact same compiled Business Rule code. The exception is a Complex Expression is only executed for the rule to which it is applied and a Shared Derivative Rule is shared and can be called by many rules.

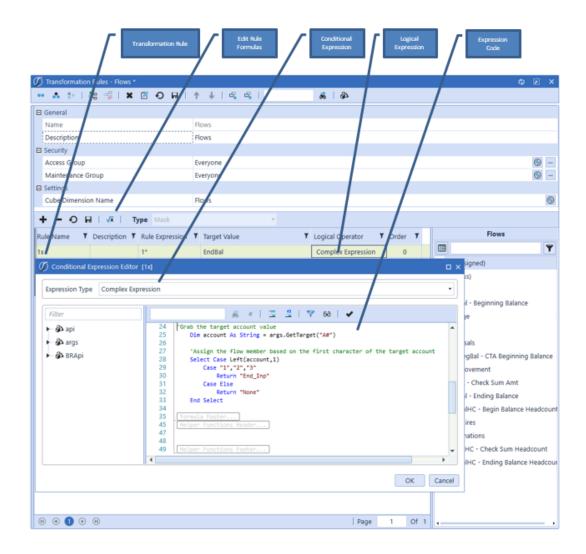


Using Complex Expressions in a Conditional Transformation Rule

Apply Complex Expressions to a Transformation Rule by selecting the individual Transformation Rule requiring conditional logic and setting the *Logical Operator*. Clicking the *Edit Rule Formulas*

toolbar button opens the Logical Expression Editor dialog and allows the user to either select a *Shared Conditional Business Rule* or write a *Complex Expression*. Both Shared Conditional Business Rules and Conditional Complex Expressions result in the exact same compiled Business Rule code. The exception is a Complex Expression is only executed for the rule to which it is applied and a Shared Conditional Rule is shared and can be called by many rules.

Note: Shared Conditional Business Rules and Complex Expressions cannot be applied to One-To-One Transformation Rule Types. One-To-One Transformation Rules are executed during the parsing process and therefore are completely processed prior to the conditional mapping process.

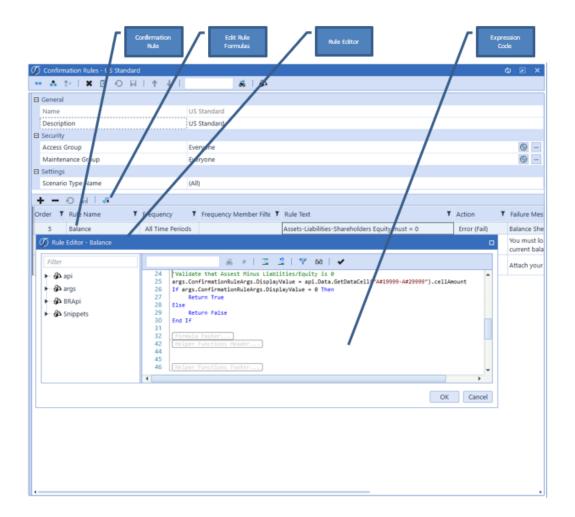


Confirmation Rules

Confirmation Rules are called by the Data Quality Engine and Finance Engine. Apply Complex Expressions to Confirmation Rules by selecting the individual Confirmation Rule and clicking the

Edit Rule Formulas toolbar button. This button opens the Rule Editor dialog and allows the user to write a Complex Expression containing the Confirmation Rule logic. A Confirmation Rule is only written on the specific rule to which it applies. Confirmation rules do not have an equivalent Shared Business Rule because each Confirmation Rule requires specific logic.

Tip: Shared Finance Business Rules can be called from a Confirmation Rule. Create standard helper functions in a Shared Finance Business Rule and call them from a specific Confirmation Rule creating some reusable logic and improving the overall Confirmation Rule infrastructure maintenance (see Business Rule Organization and Referencing in Business Rules).



Business Rule Types

Finance

Finance Business Rules are used to generate multi-Dimensional calculations. These Business Rules are written as Shared Business Rules and applied to a Cube or Member Formulas.

Invoking Engine

Finance

API Object Type

FinanceAPI

Args Object Type

FinanceRulesApi

These contain multiple child objects that are populated based on how the rule type is called.

- FinanceRulesApi.MemberListHeadersArgs
- FinanceRulesApi.MemberListArgs
- FinanceRulesApi.DataCellArgs
- FinanceRulesApi.FXRateArgs
- FinanceRulesApi.ConfirmationRuleArgs
- FinanceRulesApi.CalculateArgs
- FinanceRulesApi.DrillDownArgs

Common Usage

The list below details the common use cases that apply to Finance Business Rules:

- · Stored Calculation of a Member Value
- Dynamic Calculation of a Member Value
- Programmatic Member Filters
- Scenario Copy Logic
- Allocation Logic
- Conditional No Input Rules
- Custom Consolidation Logic (Shared Business Rule only)

- Custom Translation Logic (Shared Business Rule only)
- Custom Elimination Logic (Shared Business Rule only)
- Confirmation Rule Logic
- Custom Calculations (Done via Dashboard Parameter Components)

Parser

Parser Business Rules are used to evaluate and/or modify field values being processed by the Stage Parser Engine as it reads source data. These Business Rules are written as Shared Business Rules or Logical Expressions and applied to a Data Source Dimension.

Invoking Engine

Stage

API Object Type

ParserDimension

Args Object Type

ParserArgs

Common Usage

The list below details the common use cases that apply to Parser Business Rules.

- Custom Parsing Logic
- Field Value Concatenation
- · Field Value Bypassing
- Evaluate Field other than Current Field being Parsed

Connector

Connector Business Rules are used to communicate with, collect data from, and drill back to external systems. These Business Rules are written as Shared Business Rules and applied to a Data Source.

Invoking Engine

Stage

API Object Type

Transformer

Args Object Type

ConnectorArgs

Common Usage

The list below details the common use cases that apply to Connector Business Rules.

- Source System Connection Logic
- Source System Field List Logic
- Source System GetData Logic
- Source System DrillBack Logic

Conditional Rule

Conditional Rules *(mapping)* are used to conditionally evaluate mapping criteria during the data transformation process. These Business Rules are written as Shared Business Rules or Logical Expressions and applied to a Transformation Rule definition.

Invoking Engine

Stage

API Object Type

Transformer

Args Object Type

ConditionalRuleArgs

Common Usage

The list below details the common use cases that apply to Conditional (mapping) Business Rules.

- Evaluate Source Values and Conditional Map Target
- Evaluate Other Mapped Value and Conditional Map Target

DerivativeRule

Derivative Rules (derive data prior to mapping) are used to evaluate and/or calculate values during the data derivation process. These Business Rules are written as Shared Business Rules or Logical Expressions and applied to a Derivative Rule definition.

Invoking Engine

Stage

API Object Type

Transformer

Args Object Type

DerivativeRuleArgs

Common Usage

The list below details the common use cases that apply to Derivative (derived data) Business Rules.

- Calculate Mathematical Expressions
- Lookup Value from Transformation Cache for use in Calculations
- Lookup Value from Cube for use in Calculations
- Source System Check Rule Logic (validation rules on source data)

Cube View Extender

Cube View Extender Rules are used to apply advanced Cube View formatting to any Cube View Report. Using custom formatting allows the Cube View design to go beyond the standard Cube View formatting properties and provides flexibility for specific formatting needs. The Extender Rule is used in conjunction with the Custom Report Formatting properties on the Cube View under General Settings|Report Tab.

Invoking Engine

Presentation

API Object Type

No specific API (used General BRApi)

Args Object Type

CubeView

CubeViewExtenderFunctionType

CubeViewExtenderReport

CustomSubVars

FunctionType

Common Usage

- Display different logos on select reports based on conditional logic or security and manage their placement and size
- Customize the page number in the header or footer
 Page numbers can be on the top or bottom row of a report and the horizontal position can be specified for rows. This only applies to the top or bottom rows.
- Format individual header and footer fields
- Customize the Cube View Header
 - Control the Left, Right, Center Subtitle widths
 - Control the font size of Title and Subtitles
- · Customize the date display
- Customize bottom text alignment
- Apply Conditional Formatting
 Format cells based on their contents. Change the text color of a value in order to effectively hide the result.
- Customized Report row and column formatting such as borders, background and text colors and alignment

DashboardDataSet

DashboardDataSet Rules are used to create programmatic query results. This rule type combines multiple types of data into a single result set using the full syntax capability of VB.Net. These Business Rules are written as Shared Business Rules and applied to Dashboard Data Adapters or Dashboard Parameters.

Invoking Engine

Presentation

API Object Type

No specific API (used General BRApi)

Args Object Type

DashboardDataSetArgs

Common Usage

The list below details the common use cases that apply to DashboardDataSet Business Rules.

- Combine Different Types of Data for a Report
- Build Programmatic Data Queries (e.g., analytic plus SQL)
- · Conditionally Build Data Query Reports
- · Conditionally Build Data Query Parameters

DashboardExtender

DashboardExtender Rules are used to perform a variety of tasks associated with custom Dashboards and MarketPlace Solutions. These Business Rules can be thought of as multipurpose rules and make up the majority of the code written in a MarketPlace Solution. In addition, they are written as Shared Business Rules and applied to Application Dashboard Parameter Components (Buttons, Combo Boxes, etc.).

Invoking Engine

Presentation

API Object Type

No Specific API (uses General BRApi)

Args Object Type

DashboardExtenderArgs

Common Usage

The list below details the common use cases that apply to DashboardExtender Business Rules.

- Execute a Task when the User Clicks a Button
- Perform a Task and Show a Message to the User
- · Perform a Custom Calculation
- Upload a File from the End User's Machine
- · Automate a Workflow
- · Build a Custom Workflow
- · Create Custom Data Tables
- These rules are basically limited to the imagination of the developer

DashboardStringFunction

DashboardStringFunction (reference as XFBR) Rules are used to process conditional Dashboard Parameters. These rules inspect and alter a Dashboard Parameter value using the full syntax capabilities of VB.Net. DashboardStringFunctions are written as Shared Business Rules and called by using a XFBR(BusinessRuleName, FunctionName, UserParam=[UserValue]) specification anywhere a standard Dashboard Parameter is used.

Invoking Engine

Presentation

API Object Type

No Specific API (uses General BRApi)

Args Object TypeDashboardStringFunctionArgs

Common Usage

The list below details the common use cases that apply to DashboardStringFunction (i.e., conditional Parameters) Business Rules.

- Evaluate a Dashboard Parameter and conditionally return another Value
- Evaluate a Cube View Parameter and conditionally return another Value
- This Business Rule can be substituted anywhere a Dashboard Parameter is used in order to evaluate the Supplied Parameter value and return a different value

Extender

Extender Rules are the most generalized type of Business Rule in the platform. Use these to write a simple utility function or a specific helper function called as part of a Data Management Job. These Business Rules are written as Shared Business Rules and executed directly from the code editor, a data management job or the Finance Engine during an external Dimension request (i.e., read Dimension Members from an external list).

Invoking EngineBusiness Rule, Data Management, Finance

API Object TypeNo Specific API (uses General BRApi)

Args Object Type

ExtenderArgs

This contains multiple child objects that are populated based on how the rule type is called.

- ExtenderArgs.DataMgmtArgs
- ExtenderArgs.ExternalDimSourceArgs

Common Usage

The list below details the common use cases that apply to Extender Business Rules.

- Create a General Helper Rule for Administrators Only
- Create Data Management Business Rule Step Logic
- Create a Query to fill an External Dimension List

Business Rule Organization and Referencing

The Business Rule framework provided by OneStream organizes the Business Rules so that reuse can be maximized. There are many situations where a Business Rule writer may create a standard function that is reused in many other Business Rules. The platform provides a way for Business Rules to be linked and called from other Business Rules. In addition, the platform provides a way for external DLL's to be linked and called from a Business Rule.

This section describes how to reference a Shared Business Rule from a within a Business Rule and how to reference an external DLL from within a Business Rule.

Defining a Reference to a Shared Business Rule

When a Shared Business Rule is created, its public members can be referenced and executed by other Shared and Item Specific Business Rules.

Common reasons to create a shared or referenced Business Rule:

- · Create a list of shared constant values
- · Create a set of standard helper functions
- Centralize maintenance of shared logic

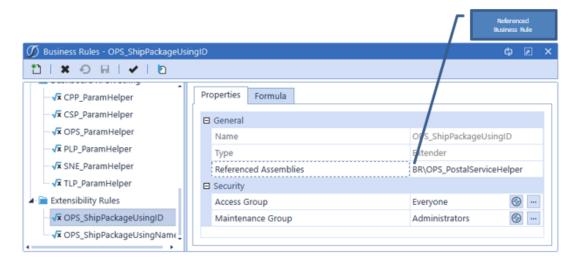
Reference Specification

This section defines the syntax required to reference a Shared Business Rule from another Shared or Item Specific Business Rule.

Shared Business Rules Referencing Other Shared Business Rules

In order to create a reference from one Shared Business Rule to another, navigate to the rule calling a Public Method of another Shared Business Rule and make a declaration in the *Referenced Assemblies* property. The syntax used to create a reference to another Shared Business Rule requires a *BR* prefix and the Business Rule name to reference.

Note: Reference more than one Business Rule by creating a comma-separated list of reference statements.



Syntax

BR\<Business Rule Name to Reference>

Example (Single Reference)

BR\OPS PostalServiceHelper

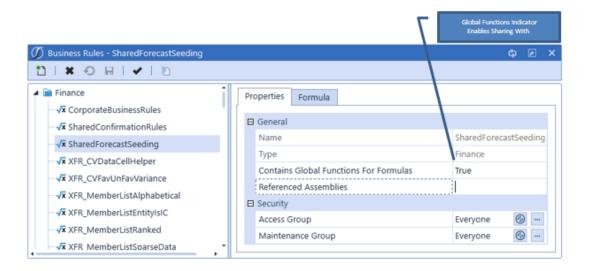
Example (Multiple References)

BR\OPS_PostalServiceHelper; BR\CPP_SolutionHelper

Item Specific Rules Referencing Shared Business Rules

Finance, Parser, ConditionalRule and DeriviativeRule Shared Business Rules all have equivalent Item Specific Business Rules. When creating a Shared Business Rule, set the *Contains Global Functions For Formulas* to *True* in order to make the Shared Business Rule available to Item Specific Business Rules. Setting this property makes the Shared Business Rule available without having to place a reference on the item using the rule. Item Specific Business Rules do not have a *Referenced Assemblies* property and therefore can only reference Shared Rules of the same engine type with the *Contains Global Functions For Formulas* property set to *True*.

In the example screenshot below, the SharedForecastSeeding Rule can be called from any other Finance Rule because its *Contains Global Functions For Formulas* property is set to *True*.



Note: When a Finance Business Rule has its *Contains Global Functions For Formulas* set to *True*, any changes made to the Business Rule causes a metadata status impact and changes the Calculation Status to *OK*, *MC*. This dependency must occur because a global rule can be used by a Member Formula calculation, and therefore can impact the status of the Finance Engine's data (analytic / Cube data).

Code Declaration

Once a reference is made to a Shared Business Rule, the Business Rule's Public Methods (Functions / Subs) can be called. In order to access the Shared Business Rule's Public Methods declare an instance of the rule in the code using the Business Rule's fully qualified Namespace. This creates an object variable that references the Shared Business Rule and calls its Public Methods.

Example Declaration

'Declaring an object variable to reference a Shared Business Rule

Dim opsHelper As New OneStream.BusinessRule.DashboardExtender.OPS_PostalServiceHelper.MainClass

Example Usage

'Executing a Function on the Reference Business Rule Object Variable

Dim desc As String opsHelper.GetFieldFromID(si, "Dashboard", "Name",
dashName, "Description")

Defining a Reference to an External .Net DLL

OneStream allows developers to build and reference their own custom Microsoft .Net DLLs from Shared Business Rules. These are written in either VB.Net or C#. Custom business logic can be encapsulated and protected within an external DLL written in Microsoft Visual Studio.

Common reasons to create a custom DLL referenced by a Business Rule:

- Protect domain specific intellectual property (hide value programming logic)
- Separate code with dependencies on other programs (system integration wrappers)
- Complex logic requiring development tools only available within Microsoft Visual Studio (Web Service Discovery and Interface Development)

DLL Installation and Configuration

This section defines the configuration steps that must be completed before an external DLL can be referenced within a Shared Business Rule. This is a three step process.

- Specify the BusinessRuleAssemblyFolder located in the Application Server configuration file. This folder should be shared by all application servers meaning the folder must be accessible by the *Account Credentials* used to configure the IIS Application Pool on the application server.
 - This setup process is a best practice, but is not required. As an alternative, reference the external DLL from a folder located on each application server and any time the DLL is updated, it needs to be copied to a standard folder on each application server.
- 2. Identify or create the external DLL to be called and copy it to the BusinessRuleAssemblyFolder. When a Business Rule is executed and an external DLL reference containing the XF\ prefix is found in the Referenced Assemblies property of the rule, the application server will look in the BusinessRuleAssemblyFolder defined in the application server configuration file in order to find the DLL to be referenced.
- Add a reference specification to the DLL in the Referenced Assemblies property of the Business Rule using it.

Reference Specification

This section defines the syntax required to reference an external DLL by setting the Shared Business Rule's *Referenced Assemblies* property. There are three methods available for referencing an external DLL.

Method 1

This method uses the XF\ prefix to create a reference to an external DLL located in the BusinessRuleAssemblyFolder folder which is specified in the application server configuration file.

Syntax

XF\<External DLL Name to Reference>

Example (Single Reference)

XF\ExternalCode.DLL

Example (Multiple References)

XF\ExternalCode1.DLL;XF\ExternalCode2.DLL

Method 2

This method uses the file system path *C:\DLLFolderName* to create a reference to an external DLL located on each application server.

Note: The same folder path and DLL must exist on all application servers. This referencing method is not a best practice for custom business logic DLLs because it creates a maintenance and update burden.

Using a file system path reference is a valid method when referencing an external DLL that already exists on an application server. The DLL exists on the application server as part of the operating system or another installed software component.

Syntax

C:\DLLFolderName\<External DLL Name to Reference>

Example (Single Reference)

C:\DLLFolderName\ExternalCode.DLL

Example (Multiple References)

C:\DLLFolderName\ExternalCode1.DLL; C:\DLLFolder\ExternalCode2.DLL

Code Declaration

Once a reference is made to an External DLL from a Shared Business Rule, the Public Methods (Functions / Subs) of that External DLL can be called. In order to access the Shared Business Rule's Public Methods, declare an Import to the Namespaces defined by the DLL, and then create an instance of the desired class to utilize in the code.

Example Import

Imports YourNamespace.SubNamespace

Example Declaration

'Declaring an object variable to reference a class on the external DLL

Dim extHelper As New YourClass

Example Usage

'Executing a Function on the external DLL

Dim desc As String extHelper. YourFunciton("SomeParameter")

Method 3

This method uses a Windows environment variable to create a reference to an external DLL. All standard Windows paths are supported and the name is determined by .NET.

Syntax

%System%\DLLName.DLL

Example

%userprofile%\documents\WindowsBase.DLL

API Structure and Organization

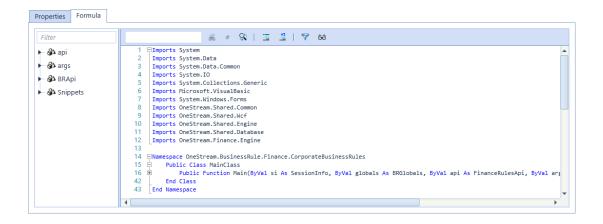
Namespaces

The Microsoft .Net Framework organizes code libraries into subject areas called Namespaces. The process begins with identifying the Namespaces (*libraries*) required for the procedure being created. Namespaces provide distinction to the objects and methods that exist in a code library. As a best practice, Namespaces typically start with the name of the company that created the code library. This prevents naming conflicts for objects that share a common name, but were created by different software providers.

In an effort to keep coding syntax as terse as possible, the .Net Framework allows the user to specify common Namespaces to use at the top of a Business Rule. These lines are preceded by the key word *Imports*. Adding Imports Statements prevents having to type an object's fully qualified name within a Namespace.

All Business Rules are prepopulated with both the commonly used Microsoft Namespaces as well as the OneStream specific Namespaces. For example, adding the statement *Imports System.Math* to a Business Rule enables access to objects in the *System.Math* Namespace. Instead of typing *System.Math.Round*(100.05,0), type *Round*(100.05,0).

The example below shows the Namespace references used in a standard Extensibility Rule.



Namespaces Defined

OneStream is a large and sophisticated software platform and consequently a great deal of effort went into organizing the code base into a hierarchical set of Namespaces. This section defines the Namespace hierarchy and explains the primary purpose of the code libraries in each Namespace. It is important to understand structure and meaning of the platform Namespaces because most API methods accept and return objects defined within specific Namespaces. By understanding the structure of the Namespace hierarchy, developers can browse for objects using intelli-sense in the syntax editor.

Namespace Hierarchy

The hierarchy below denotes the platform Namespaces and the object libraries contained within them. This hierarchy is explored from within the Business Rule syntax editor by typing *OneStream.* and navigating through the intelli-sense popup lists. This technique helps find objects to pass into an API function, objects returned from an API function, or common helper classes available in the platform.

```
OneStream (Root Namespace)
OneStream.BusinessRule
OneStream.BusinessRule.Finance
OneStream.BusinessRule.Parser
OneStream.BusinessRule.Connector
OneStream.BusinessRule.ConditionalRule
OneStream.BusinessRule.DerivativeRule
OneStream.BusinessRule.DashboardDataSet
OneStream.BusinessRule.DashboardExtender
OneStream.BusinessRule.DashboardStringFunction
OneStream.BusinessRule.Extender
OneStream.Client
OneStream.Client.SharedUI
OneStream.Client.SharedUI.FinanceMsgStrings
OneStream.Client.SharedUI.FinanceUIStrings
OneStream.Client.SharedUI.GeneralMsgStrings
```

```
OneStream.Client.SharedUI.GeneralUIStrings
OneStream.Client.SharedUI.StageMsgStrings
OneStream.Client.SharedUI.StageUIStrings
OneStream.Client.SharedUI.StringResourceFileType
OneStream.Client.SharedUI.StringResourceHelper
OneStream.Client.SharedUI.XFStrings
OneStream.Finance
OneStream.Finance.Engine
OneStream.Finance.Engine.DataApi
OneStream.Finance.Engine.EvalDataBufferDelegate
OneStream.Finance.Engine.FinanceRulesApi
OneStream.Finance.Engine.IAccountApi
OneStream.Finance.Engine.ICalcStatusApi
OneStream.Finance.Engine.IConsApi
OneStream.Finance.Engine.ICubesApi
OneStream.Finance.Engine.IDimensionsApi
OneStream.Finance.Engine.IEntityApi
OneStream.Finance.Engine.IFlowApi
OneStream.Finance.Engine.IFunctionsApi
OneStream.Finance.Engine.IFxRatesApi
OneStream.Finance.Engine.IMembersApi
OneStream.Finance.Engine.IPovApi
OneStream.Finance.Engine.IScenarioApi
OneStream.Finance.Engine.ITimeApi
OneStream.Finance.Engine.IUDApi
OneStream.Finance.Engine.IViewApi
OneStream.Finance.Engine.IWorkflowApi
OneStream.Stage
OneStream.Stage.Engine
```

```
OneStream.Stage.Engine.Parser
OneStream.Stage.Engine.ParserDimension
OneStream.Stage.Engine.TransformerDataCache
OneStream.Stage.Engine.Transformer
OneStream.Stage.Engine.TransformerDimension
OneStream.Stage.Engine.TransformRuleCache
OneStream.Shared
OneStream.Shared.Engine
OneStream.Shared.Engine.ExternalWcfClient
OneStream.Shared.Engine.TaskActivityStepWrapperItem
OneStream.Shared.Database
OneStream.Shared.Database.DbConnInfo
OneStream.Shared.Common
OneStream.Shared.Common.(Various Constants, Helper Classes & Data Transfer
Objects 'DTO' )
OneStream.Shared.Wcf
OneStream.Shared.Wcf.(Various Constants & Data Transfer Objects 'DTO')
```

In-Solution Development

In-solution development is the process of creating OneStream Business Rules to deliver domain specific solutions. This means that all Business Rules are executed within the application server process space. The code written is only executed on the application servers where OneStream is deployed.

Developing within the application server environment enables solution developers to focus on the business problem instead of common programming concerns. The platform takes care of managing connections, moving data between application tiers, and load balancing server activities.

In some cases, in-solution development is seen as a limitation because the developer is restricted to coding within the application server tier. However, in most cases the efficiency and quality gained by developing within the platform out ways any limitations imposed by coding at the application server tier.

Custom Development

Custom development refers to stand alone application development that interacts with the platform at the web server tier. OneStream provides a client tier API called from a custom developed client application. The client API is regularly used within the PowerShell script to perform automation tasks.

Client API

The OneStream Client API is intended to provide a set of methods that connect to the OneStream environment, request data via a Cube View, and execute a Data Management Sequence. At first glance, these three capabilities may seem limiting, but it is important to realize that a Data Management Sequence can contain any combination of Data Management Steps and these steps can consist of custom Business Rules. Client side developers can create Data Management Sequences that execute Business Rules to accomplish server side tasks. Developers can create sophisticated solutions that combine in-solution Business Rule logic with client side custom solution logic.

Custom Web Development

The platform has the ability to display web pages within a custom Dashboard. This allows completely custom web applications to surface within the OneStream solution. OneStream can pass information about the user's POV and Workflow as URL Parameters enabling the custom web application to act as part of an integrated solution.

With this capability, developers are free to create and incorporate any solution they can imagine.

System Tools

System Business Rules

System Extender Business Rules are used in coordination with Azure Server Sets for elastic scalability at the Azure Database and Server Sets level. Server and eDTU scaling can be accomplished manually or via System Business Rules. If System Business Rules is selected as a Scaling Type, then OneStream will call a user-defined System Extender Business Rule to determine if scaling is needed. The user is responsible for implementing the scaling function and returning the proper scaling object to OneStream. This can be accomplished by adding a System Extender Business Rule and assigning it appropriately.

Under each Case statement, these rules and related Args and BRApis can be used to check the current Server Set capacity, query metrics about a Server Set or Azure Database and impact the volume of Server Sets or level of Azure Database deployed.

Refer to the *Installation and Configuration Guide* under *Azure Database Connection Settings* and *Server Sets* for where to refer to these Business Rules. Example starting point of empty System Extender Business Rule upon creation:

```
Namespace OneStream.BusinessRule.SystemExtender.ServerSet2

Public Class MainClass

Public Function Main(ByVal si As SessionInfo, ByVal globals As BRGlobals, ByVal api As Object, ByVal args As SystemExtenderArgs) As Object

Try

Select Case args.FunctionType

Case Is = SystemExtenderFunctionType.Unknown

Case Is = SystemExtenderFunctionType.GetDesiredServerSetCapacity

Case Is = SystemExtenderFunctionType.GetDesiredElasticDatabasePoolCapacity

Case Is = SystemExtenderFunctionType.GetDesiredExternalServerSetCapacity

End Select

Return Nothing

Catch ex As Exception

Throw ErrorHandler.LogWrite(si, New XFException(si, ex))

End Try

End Function

End Class

End Namespace
```

Sample System Business Rule

Metrics data is passed to this function to help the user determine whether the server or database needs to be scaled or not. Depending on what is being scaled, different metric data is passed in. For server scaling, Environment metrics and Scale Set metrics are passed in to help determine scaling. For database scaling, Environment metrics and SQL Server Elastic Pool metrics are passed in to help determine scaling.

Database

The Database screen allows System Administrators to view all of OneStream's database tables and provides tools for managing stored data and other information.

Tables

This gives read-only access to all data tables in the database and can be used for tasks such as trying to debug issues without having access to the database, or deletion logging.

Tools

Database Tools allow System Administrators to manage the database.

Data Records

Enter a Member Filter in order to view data for the entire system.

Client API Listing

This API provides a simple set of functions that have the ability to connect to OneStream's server, authenticate, execute OneStream Data Management Sequences, and perform basic data retrieval.

Client API Object Hierarchy

- OneStreamClientAPI
 - LogonInfo
 - Type: LogonInfo
 - ° SI
- Type: SessionInfo
- Authentication
 - o Logon
 - Parameters:
 - string webServerUrl
 - string userName
 - string password
 - XFClientAuthenticationType clientAuthenticationType
 - Return Value:

0	Log	ıon	Info
0	LUU	IUII	HIIC

- Logoff
 - Parameters:
 - None
 - Return Value:
 - ∘ None
- OpenApplication
 - Parameters:
 - string application
 - Return Value:
 - ∘ LogonInfo
- LogonAndOpenApplication
 - Parameters:
 - string webServerUrl
 - o string username
 - string password
 - string application
 - $^{\circ} \ \ XFClientAuthenticationType\ clientAuthenticationType$

- Return Value:
 - LogonInfo
- EncryptPassword
 - o Parameters:
 - string clearTextPassword
 - XFClientAuthenticationType clientAuthenticationType
 - o Return Value:
 - string
- DataManagement
 - ExecuteSequence
 - Parameters:
 - string sequenceName
 - string customSubstVarsAsCommaSeparatedPairs
 - Return Value:
 - DataMgmtResult
 - ExecuteStep
 - Parameters:
 - string dataMgmtGroupName
 - string stepName

- string customSubstVarsAsCommaSeparatedPairs
- Return Value:
 - DataMgmtResult
- DataProvider
 - GetAdoDataSetForCubeViewCommand
 - Parameters:
 - string cubeViewName
 - bool dataTablePerCubeViewRow
 - CubeViewDataTableOptions
 - string resultDataTableName
 - Dictionary<string, string> customSubstVars
 - bool throwExceptionOnError
 - Return Value:
 - DataSet
 - GetAdoDataSetForSqlCommand
 - o Parameters:
 - DbLocation dbLocation
 - string xfExternalDBConnectionName
 - string sqlQuery
 - string resultDataTableName

- Dictionary<string, string> customSubstVars
- bool throwExceptionOnError
- Return Value:
 - DataSet
- GetAdoDataSetForMethodCommand
 - Parameters:
 - XFCommandMethodTypeId xfCommandMethodType
 - string methodQuery
 - string resultDataTableName
 - Dictionary<string, string> customSubstVars
 - bool throwExceptionOnError
 - Return Value:
 - DataSet

PowerShell

PowerShell is an object-oriented programming language and interactive command line shell for Microsoft Windows. It was designed to automate system tasks, such as batch processing, and create systems management tools for commonly implemented processes. PowerShell includes more than 130 standard command line tools for functions that formerly required users to create scripts in VB, VBScript or C#.

PowerShell offers a variety of ways to automate tasks which include:

Cmdlets

Very small .NET classes that appear as system commands

Scripts

Combinations of cmdlets and associated logic

Executables

Standalone tools

Instantiation of standard .NET classes

PowerShell integrates with the .NET environment and can also be embedded in other applications. Over one hundred cmdlets are included and can be used separately or combined with others to automate more complex tasks. Users can also create and share cmdlets.

PowerShell is built into Windows Operating Systems, where it is included as an optionally installed feature. In addition, the Windows Task Scheduler can be used to automate PowerShell script execution.

Using PowerShell Script Editor

To run PowerShell on Windows, Click left lower corner Windows icon start typing *PowerShell* and open to begin.

There are two programs used to interact with PowerShell.

Windows PowerShell ISE

This is the integrated scripting environment or Script Editor. The editor allows users to type PowerShell commands as well as edit and run PowerShell script files which are text files with a ps1 extension.

Windows PowerShell

This program is a command line execution tool that looks like a DOS prompt. It allows a user to run a command or a script file, but it does not perform editing/creating scripts as well.

Configuring PowerShell to use the OneStream Client API

Before PowerShell can be used to interact with the OneStream client API, three configuration steps must be completed on each machine used for PowerShell script execution. First, execute a PowerShell command enabling the execution of unsigned scripts. Second, create or alter the PowerShell execution and IDE configuration files, so the script engine understands how to use the .*Net Framework v4.0*. Finally, OneStream Studio must be installed on each machine executing PowerShell scripts.

Allowing Execution of Unsigned Scripts

The first time this runs, the following line needs to run in a PowerShell command prompt. This will allow PowerShell to run unsigned scripts created on the local computer.

set-executionpolicy remotesigned

Configuration for .Net Framework v.4.0

In order to use the *OneStreamClientApi* with PowerShell, PowerShell needs to be configured to use the *.NET Framework v4.0*. In order to do this, modify or create two configuration files if they do not already exist.

Configuration File Folder

C:\Windows\System32\WindowsPowerShell\v1.0

File 1 (Config for Execution)

powershell.exe.config

File 2 (Config for IDE)

powershell ise.exe.config

Required File Contents (Must be added to each configuration file)

Refer to the following web resources for more information on this process.

http://stackoverflow.com/questions/2094694/how-can-i-run-powershell-with-the-net-4-runtime http://tfl09.blogspot.com/2010/08/using-newer-versions-of-net-with.html.

Install OneStream Studio

The OneStream Studio product installation includes the Client API installation used by PowerShell scripts to interact with the OneStream server.

Learning PowerShell

Microsoft provides extensive resources to help IT professionals get the most out of PowerShell.

Refer to the following web resource in order to learn more about scripting with PowerShell. http://technet.microsoft.com/en-us/scriptcenter/powershell.aspx

Using OneStream's Client API in a PowerShell Script

OneStream provides a client API (OneStreamClientApi) specifically designed to enable PowerShell scripts to call a OneStream function. This API exposes functions for authentication and Data Management. Over time, OneStream expanded the number of functions exposed to this API. The client API component is installed as part of the OneStream Studio installation.

Event Listing

Event Handler Business Rules

WCF Event Handler

This allows direct interaction with the Microsoft Windows Communication Foundation which means it listens to communication between the client and the web server. The rule will intercept the communication, analyze it, and if certain criteria is met, it will run its logic. This is quite flexible and has a variety of uses such as creating, reading, deleting, and updating different types of objects in the system for users in a group or Transformation Rule changes. For example, a rule can be created to e-mail an auditor about every metadata change as it happens.

Transformation Event Handler

This can be run at various points from Import through Load. Available operations:

StartParseAndTransForm

InitializeTransFormer

ParseSourceData

LoadDataCacheFromDB

ProcessDerivativeRules

ProcessTransformationRules

DeleteData

DeleteRuleHistory

WriteTransFormedData

SummarizeTransFormedData

CreateRuleHistory

EndParseAndTransForm

FinalizeParseAndTransForm

StartRetransForm

EndRetransForm

FinalizeRetransForm

FinalizeUpdateJournalWorkflow

StartClearData EndClearData FinalizeClearData StartValidateTransForm ValidateDimension EndValidateTransForm FinalizeValidateTransForm StartValidateIntersect EndValidateIntersect FinalizeValidateIntersect LoadIntersect StartLoadIntersect EndLoadIntersect FinalizeLoadIntersect Journals Event Handler This can be run before, during, or after a Journal operation such as Submission, Approval, or Post. Available operations: SubmitJournal **ApproveJournal** RejectJournal PostJournal UnpostJournal StartUpdateJournalWorkflow EndUpdateJournalWorkflow

Save Data Event Handler

This is run in order to track all save events in an application.

Forms Event Handler

This can be run before, during, or after an operation such as Form Save. Available operations:

SaveForm

CompleteForm

RevertForm

StartUpdateFormWorkflow

EndUpdateFormWorkflow

FinalizeUpdateFormWorkflow

Data Quality Event Handler

This can be run before, during, or after data quality events like Confirmation and Certification. Available operations:

StartProcessCube

Calculate

Translate

Consolidate

EndProcessCube

FinalizeProcessCube

PreparelCMatch

StartICMatch

PrepareICMatchData

EndICMatch

StartConfirm

EndConfirm

FinalizeConfirm

SaveQuestionResponse

StartSetQuestionairreState

SaveQuestionairreState

EndSetQuestionairreState

StartSetCertifyState

SaveCertifyState

EndSetCertifyState

FinalizeSetCertifyState

Data Management Event Handler

This can be run before or after a Data Management Sequence or Step runs. Available operations:

StartSequence

ExecuteStep

EndSequence

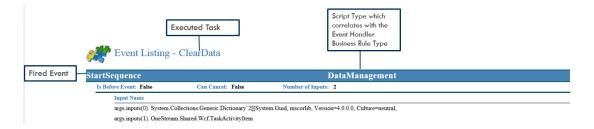
Workflow Event Handler

This can be run before or after a Workflow execution step. Available operations:

UpdateWorkflowStatus WorkflowLock WorkflowUnlock

Event Firing Sequences

OneStream fires a series of events when completing tasks via Event Handler Business Rules. The example below explains how to read the table which provides the firing sequence when running a specific task.



Clear Cube Data



UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
UpdateWorkflowStatus			Workflow
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Shar	ed.Wcf.Workfl	owInfo	
args.inputs(1). OneStream.Shar	ed.Common.St	epClassificationType	25
args.inputs(2). OneStream.Shar	ed.Common.W	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Shar			
args.inputs(1). OneStream.Shar			25
args.inputs(2). OneStream.Shar	ed.Common.W	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
ExecuteStep			DataManagement
Is Before Event: False	Can Cancel:	False	Number of Inputs: 2
Input Name			
args.inputs(0). OneStream.Fina	nce.Engine.Dat	aMgmtStepMetadata	Info

ExecuteStep		DataManagement	
Is Before Event: False	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(1). OneStrea	m.Shared.Wcf.TaskActivityItem		
EndSequence		DataManagement	
Is Before Event: False	Can Cancel: False	Number of Inputs: 2	
Input Name			

args.inputs(0). System.Collections.Generic.Dictionary 2[[System.Guid, mscorlib, Version=4.0.0.0, Culture=neutral,

 ${\tt args.inputs(1).~OneStream.Shared.Wcf.TaskActivityItem}$

Clear Stage Data



UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
UpdateWorkflowStatus			Workflow
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Sha	red.Wcf.Workflo	owInfo	
args.inputs(1). OneStream.Sha	red.Common.Ste	pClassificationType	15
args.inputs(2). OneStream.Sha	red.Common.Wo	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Sha			
args.inputs(1). OneStream.Sha			15
args.inputs(2). OneStream.Sha	red.Common.Wo	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
ExecuteStep			DataManagement
Is Before Event: False	Can Cancel:	False	Number of Inputs: 2
Input Name			
args.inputs(0). OneStream.Fina	ince.Engine.Data	aMgmtStepMetadata	Info

ExecuteStep		DataManagement
Is Before Event: False	Can Cancel: False	Number of Inputs: 2
Input Name		
args.inputs(1). OneStream	m.Shared.Wcf.TaskActivityItem	
EndSequence		DataManagement
Is Before Event: False	Can Cancel: False	Number of Inputs: 2
Input Name		

args.inputs(0). System.Collections.Generic.Dictionary 2[[System.Guid, mscorlib, Version=4.0.0.0, Culture=neutral,

 $args.inputs (1). \ One Stream. Shared. Wcf. Task Activity Item$

Execute Data Management

StartSequence		DataManagement	
Is Before Event: False	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). System.C	Collections.Generic.Dictionary`2[[Sys	tem.Guid, mscorlib, Version=4.0.0.0, Culture=neutral,	
args.inputs(1). OneStrea	m.Shared.Wcf.TaskActivityItem		
xecuteStep		DataManagement	
Is Before Event: True	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). OneStrea	m.Finance.Engine.DataMgmtStepM	etadataInfo	
args.inputs(1). OneStrea	m.Shared.Wcf.TaskActivityItem		
ExecuteStep		DataManagement	
Is Before Event: False	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). OneStrea	m.Finance.Engine.DataMgmtStepMe	etadataInfo	
args.inputs(1). OneStrea	m.Shared.Wcf.TaskActivityItem		
IndSequence		DataManagement	
Is Before Event: False	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). System.C	Collections.Generic.Dictionary`2[[Sys	tem.Guid, mscorlib, Version=4.0.0.0, Culture=neutral,	
args inputs(1) OneStrea	m Shared Wof Task Activity Item		

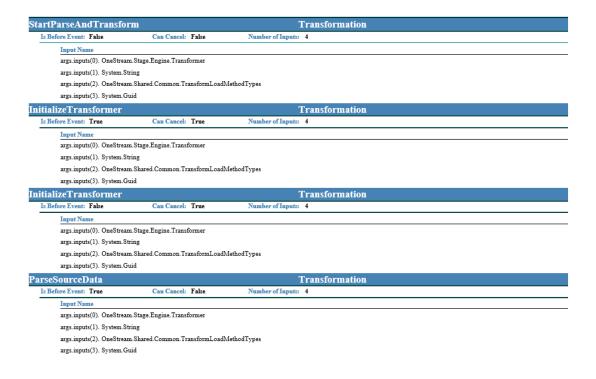
Import Data Connection

odateWorkflowStatus		Workflow	
Is Before Event: True	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream	.Shared.Wcf.WorkflowInfo		
args.inputs(1). OneStream	.Shared.Common.StepClassificatio	nTypes	
args.inputs(2). OneStream	.Shared.Common.WorkflowStatus	ypes	
args.inputs(3). System.Str	ing		
args.inputs(4). System.Str	ing		
args.inputs(5). System.Str	ing		
args.inputs(6). System.Gu	id		
dateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream	.Shared.Wcf.WorkflowInfo		
args.inputs(1). OneStream	.Shared.Common.StepClassificatio	nTypes	
args.inputs(2). OneStream	.Shared.Common.WorkflowStatus	ypes	
args.inputs(3). System.Str	ing		
args.inputs(4). System.Str	ing		
args.inputs(5). System.Str	ing		
args.inputs(6). System.Gu	id		
veCubeData		SaveData	
s Before Event: True	Can Cancel: True	Number of Inputs: 0	
Input Name			
args.inputs(0). SAVE DA	TA EVENT IS USED FOR DEBU	GONLY	
ırtLoadIntersect		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream	.Shared.Wcf.LoadCubeProcessInfo		
args.inputs(1). OneStream	.Shared.Wcf.WorkflowUnitPk		
args.inputs(2). System.Bo	olean		
args.inputs(3). OneStream	.Shared.Wcf.LoadDataMode		

StartLoadIntersect		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(4). System.Gui	d		
EndLoadIntersect		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream.	Shared.Wcf.LoadCubeProcessInfo		
args.inputs(1). OneStream.	Shared.Wcf.WorkflowUnitPk		
args.inputs(2). System.Boo	blean		
args.inputs(3). OneStream.	Shared.Wcf.LoadDataMode		
args.inputs(4). System.Gui	d		
UpdateWorkflowStatus		Workflow	
Is Before Event: True	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.	Shared.Wcf.WorkflowInfo		
args.inputs(1). OneStream.	Shared.Common.StepClassification	nTypes	
args.inputs(2). OneStream.	Shared.Common.WorkflowStatusT	Гуреѕ	
args.inputs(3). System.Stri	ng		
args.inputs(4). System.Stri	ng		
args.inputs(5). System.Stri	ng		
args.inputs(6). System.Gui	d		
UpdateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.	Shared.Wcf.WorkflowInfo		
args.inputs(1). OneStream.	Shared.Common.StepClassification	nTypes	
args.inputs(2). OneStream.	Shared.Common.WorkflowStatusT	Types	
args.inputs(3). System.Stri	ng		
args.inputs(4). System.Stri	ng		
args.inputs(5). System.Stri	ng		

UpdateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(6). System.Gu	iid		
FinalizeLoadIntersect		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream	a.Shared.Wcf.LoadCubeProcessInfo		
args.inputs(1). OneStream	a.Shared.Wcf.WorkflowUnitPk		
args.inputs(2). System.Bo	oolean		
args.inputs(3). OneStream	n.Shared.Wcf.LoadDataMode		
args.inputs(4). System.Gu	nid		

Import Excel File



InitializeExcelRangeLayout			Transformation
Is Before Event: True	Can Cancel:	False	Number of Inputs: 2
Input Name			
args.inputs(0). OneStream.Stage	Engine.Parse	r	
args.inputs(1). OneStream.Shar	ed.Engine.Stag	eRangeContent	
${\bf Initialize Excel Range Layout}$			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 2
Input Name			
args.inputs(0). OneStream.Stage	-		
args.inputs(1). OneStream.Shar	ed.Engine.Stag	eRangeContent	
ParseSourceData			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Shar	ed.Common.Tr	ransformLoadMethod	Types
args.inputs(3). System.Guid			
ProcessDerivedRules			Transformation
Is Before Event: True	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Shar	ed.Common.Tr	ransformLoadMethod	Types
args.inputs(3). System.Guid			
ProcessDerivedRules			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Shar	ed.Common.Tr	ransformLoadMethod	Types

rocessDerivedRules		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(3). System.Gu	iid		
rocessTransformRules		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	n.Stage.Engine.Transformer		
args.inputs(1). System.Stri	ing		
args.inputs(2). OneStream	n.Shared.Common.TransformLoadN	MethodTypes	
args.inputs(3). System.Gu	iid		
rocessTransformRules		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	ı.Stage.Engine.Transformer		
args.inputs(1). System.Stri	ing		
args.inputs(2). OneStream	n.Shared.Common.TransformLoadN	MethodTypes	
args.inputs(3). System.Gu	iid		
eleteData		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	ı.Stage.Engine.Transformer		
args.inputs(1). System.Stri	-		
	n.Shared.Common.TransformLoadN	MethodTypes	
args.inputs(3). System.Gu	iid		
eleteData		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	n.Stage.Engine.Transformer		
args.inputs(1). System.Stri	ing		

DeleteData		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(2). OneStream.	Shared.Common.TransformLoadN	fethodTypes	
args.inputs(3). System.Guid	d		
DeleteRuleHistory		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.	Stage.Engine.Transformer		
args.inputs(1). System.Strip	ng		
args.inputs(2). OneStream.	Shared.Common.TransformLoadN	lethodTypes	
args.inputs(3). System.Guid	d		
DeleteRuleHistory		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.	Stage.Engine.Transformer		
args.inputs(1). System.Strip	ng		
args.inputs(2). OneStream.	Shared.Common.TransformLoadN	fethodTypes	
args.inputs(3). System.Guid	d		
WriteTransformedData		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.	Stage.Engine.Transformer		
args.inputs(1). System.Strii	ng		
args.inputs(2). OneStream.	Shared.Common.TransformLoadN	fethodTypes	
args.inputs(3). System.Guid	d		
WriteTransformedData		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.	Stage.Engine.Transformer		

WriteTransformedData			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(1). System.String			
args.inputs(2). OneStream.Share	d.Common.Ti	ransformLoadMethod	Types
args.inputs(3). System.Guid			
${f Summarize Transformed Date}$	ta		Transformation
Is Before Event: True	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Share	d.Common.Ti	ransformLoadMethod	Types
args.inputs(3). System.Guid			
${f Summarize Transformed Date}$	ta		Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Share	d.Common.Ti	ransformLoadMethod	Types
args.inputs(3). System.Guid			
CreateRuleHistory			Transformation
Is Before Event: True	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Share	d.Common.Ti	ransformLoadMethod	Types
args.inputs(3). System.Guid			
CreateRuleHistory			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			

eateRuleHistory		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	.Stage.Engine.Transformer		
args.inputs(1). System.Stri	_		
args.inputs(2). OneStream	.Shared.Common.TransformLoadN	MethodTypes	
args.inputs(3). System.Gui	id		
dParseAndTransforn	1	Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
	.Stage.Engine.Transformer		
args.inputs(1). System.Stri	-		
	.Shared.Common.TransformLoadN	MethodTypes	
args.inputs(3). System.Gui	id		
dateWorkflowStatus		Workflow	
Is Before Event: True	Can Cancel: True	Number of Inputs: 7	
Input Name			
	.Shared.Wcf.WorkflowInfo		
	.Shared.Common.StepClassificatio		
	.Shared.Common.WorkflowStatus?	Types	
args.inputs(3). System.Stri	ing		
args.inputs(4). System.Stri	-		
args.inputs(5). System.Stri	-		
args.inputs(6). System.Gui	id		
dateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
	.Shared.Wcf.WorkflowInfo		
	.Shared.Common.StepClassificatio	••	
	.Shared.Common.WorkflowStatus?	Types	
args.inputs(3). System.Stri			

UpdateWorkflowStatus			Workflow	
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7	
Input Name				
args.inputs(4). System.String				
args.inputs(5). System.String				
args.inputs(6). System.Guid				
FinalizeParseAndTransforn	n		Transformation	
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4	
Input Name				
args.inputs(0). OneStream.Stage	e.Engine.Transf	ormer		
args.inputs(1). System.String				
args.inputs(2). OneStream.Shar	ed.Common.Tr.	ansformLo	adMethodTypes	
args.inputs(3). System.Guid				

Import Text File

rtParseAndTransform		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Stag	e.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Shar	ed.Common.TransformLoadM	ethodTypes	
args.inputs(3). System.Guid			
tializeTransformer		Transformation	
Is Before Event: True	Can Cancel: True	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Stag	e.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Shar	ed.Common.TransformLoadM	ethodTypes	
args.inputs(3). System.Guid			
tializeTransformer		Transformation	
Is Before Event: False	Can Cancel: True	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Stag	e.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Shar	ed.Common.TransformLoadM	ethodTypes	
args.inputs(3). System.Guid			
rseSourceData		Transformation	
rseSourceData Is Before Event: True	Can Cancel: False	Transformation Number of Inputs: 4	
rseSourceData Is Before Event: True Input Name			
rseSourceData Is Before Event: True Input Name args.inputs(0). OneStream.Stag			
rseSourceData [a Before Event: True Input Name args.inputs(0). OneStream.Stag args.inputs(1). System.String	e.Engine.Transformer	Number of Inputs: 4	
rseSourceData Is Before Event: True Input Name args.inputs(0). OneStream.Stag	e.Engine.Transformer	Number of Inputs: 4	

arseSourceData		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.	Stage.Engine.Transformer		
args.inputs(1). System.Strir	ıg		
args.inputs(2). OneStream.	Shared.Common.TransformLoadN	fethodTypes	
args.inputs(3). System.Guid	l		
rocessDerivedRules		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.	Stage Engine Transformer		
args.inputs(1). System.Strir			
	-5 Shared.Common.TransformLoadN	(athodType:	
args.inputs(3). System.Guio		remoury pes	
	•	T 6 /:	
rocessDerivedRules		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.			
args.inputs(1). System.Strir			
	Shared.Common.TransformLoadN	fethodTypes	
args.inputs(3). System.Guid	l		
rocessTransformRules		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.	Stage.Engine.Transformer		
args.inputs(1). System.Strir	ıg		
args.inputs(2). OneStream.	Shared.Common.TransformLoadN	fethodTypes	
		remour, per	
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	Can Cancel: False	Transformation Number of Inputs: 4	
rocessTransformRules In Before Event: False			
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DeleteRuleHistory		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.St	tage.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Si	hared.Common.TransformLoad?	MethodTypes	
args.inputs(3). System.Guid			
WriteTransformedData		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.St			
args.inputs(1). System.String			
	hared.Common.TransformLoadl	MethodTypes	
args.inputs(3). System.Guid			
WriteTransformedData		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.St			
args.inputs(1). System.String			
	hared.Common.TransformLoad?	MethodTypes	
args.inputs(3). System.Guid			
SummarizeTransformedI		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.S			
args.inputs(1). System.String			
args.inputs(2). OneStream.Si	hared Common TransformLoad!	MethodTypes	
	in ca. common. riminon		
args.inputs(3). System.Guid			
args.inputs(3). System.Guid			
args.inputs(3). System.Guid			
args.inputs(3). System.Guid SummarizeTransformedI		Transformation	
		Transformation Number of Inputs: 4	
SummarizeTransformedI	Data		
SummarizeTransformedL Is Before Event: False	Data Can Cancel: False		
SummarizeTransformedL In Before Event: False Input Name	Data Can Cancel: False tage Engine.Transformer		
SummarizeTransformedI In Before Event: False Input Name args.inputs(0). OneStream.String args.inputs(1). System.String	Data Can Cancel: False tage Engine.Transformer	Number of Inputs: 4	
SummarizeTransformedI In Before Event: False Input Name args.inputs(0). OneStream.String args.inputs(1). System.String	Can Cancel: False tage.Engine.Transformer	Number of Inputs: 4	
SummarizeTransformedII Is Before Event: Fake Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(2). OneStream.Sl	Can Cancel: False tage.Engine.Transformer	Number of Inputs: 4	
SummarizeTransformedII Is Before Event: Fake Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(2). OneStream.Sl args.inputs(3). System.Guid	Can Cancel: False tage.Engine.Transformer	Number of Inputs: 4	
SummarizeTransformedL Li Before Event: False Input Name args.inputs(0). OneStream.String args.inputs(2). OneStream.String args.inputs(3). System.Guid CreateRuleHistory	Oata Can Cancel: False tage.Engine.Transformer Anacel.Common.TransformLoad	Number of Inputs: 4 MethodTypes Transformation	
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SummarizeTransformedI Is Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(1). System.Striag args.inputs(2). OneStream.St args.inputs(3). System.Guid CreateRuleHistory Is Before Event: True Input Name	Can Cancel: False tage.Engine.Transformer g hared.Common.TransformLoad? Can Cancel: False tage.Engine.Transformer	Number of Inputs: 4 MethodTypes Transformation	
SummarizeTransformedI Li Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(2). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.Guid CreateRuleHistory Li Before Event: True Input Name args.inputs(0). OneStream.St args.inputs(1). System.String	Can Cancel: False tage.Engine.Transformer g hared.Common.TransformLoad? Can Cancel: False tage.Engine.Transformer	Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4	
SummarizeTransformedI Li Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(2). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.Guid CreateRuleHistory Li Before Event: True Input Name args.inputs(0). OneStream.St args.inputs(1). System.String	Can Cancel: False tage.Engine.Transformer shared.Common.TransformLoad? Can Cancel: False tage.Engine.Transformer	Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4	
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SummarizeTransformedI Is Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(2). OneStream.Sl args.inputs(3). System.Gruid CreateRuleHistory Is Before Event: True Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Gruid	Can Cancel: False tage.Engine.Transformer shared.Common.TransformLoad? Can Cancel: False tage.Engine.Transformer	Number of Inputs: 4 It is a second of the s	
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SummarizeTransformedI Is Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.Guid CreateRuleHistory Is Before Event: True Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid CreateRuleHistory Is Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(1). System.String args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid EndParseAndTransform	Can Cancel: False tage Engine. Transformer shared. Common. TransformLoadl Can Cancel: False tage. Engine. Transformer shared. Common. TransformLoadl Can Cancel: False tage. Engine. TransformLoadl age. Engine. TransformLoadl	Number of Inputs: 4 Transformation Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4	
SummarizeTransformedI Is Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.Guid CreateRuleHistory Is Before Event: True Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid CreateRuleHistory Is Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(0). OneStream.St args.inputs(0). OneStream.St args.inputs(0). System.String args.inputs(0). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid EndParseAndTransform Is Before Event: False	Can Cancel: False tage.Engine.Transformer shared.Common.TransformLoadl Can Cancel: False tage.Engine.Transformer ahared.Common.TransformLoadl Can Cancel: False tage.Engine.Transformer ahared.Common.TransformLoadl	Number of Inputs: 4 Transformation Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4	
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dateWorkflowStatus			Workflow	
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7	
Input Name				
args.inputs(0). OneStream.Shar	red.Wcf.Workflo	wInfo		
args.inputs(1). OneStream.Shar	red.Common.Ste	pClassificationTy	es	
args.inputs(2). OneStream.Shar	red.Common.Wo	rkflowStatusType	i e	
args.inputs(3). System.String				
args.inputs(4). System.String				
args.inputs(5). System.String				
args.inputs(6). System.Guid				
dateWorkflowStatus			Workflow	
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7	
Input Name				
args.inputs(0). OneStream.Shar	red.Wcf.Workflo	wInfo		
args.inputs(1). OneStream.Shar	red.Common.Ste	pClassificationTy	es	
args.inputs(2). OneStream.Shar	red.Common.Wo	rkflowStatusType		
args.inputs(3). System.String				
args.inputs(4). System.String				
args.inputs(5). System.String				
args.inputs(6). System.Guid				
nalizeParseAndTransfor	n		Transformation	
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4	
Input Name				
args.inputs(0). OneStream.Stag	e.Engine.Transf	ormer		
args.inputs(1). System.String				
args.inputs(2). OneStream.Shar	red.Common.Tra	nsformLoadMeth	dTypes	
args.inputs(3). System.Guid				

Process Form

CompleteForm		Forms	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	m.Shared.Wcf.XFFormEx		
args.inputs(1). System.B	oolean		
args.inputs(2). System.B	oolean		
args.inputs(3). OneStream	m.Shared.Common.WorkflowStatus	ypes	
CompleteForm		Forms	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	m.Shared.Wcf.XFFormEx		
args.inputs(1). System.B	oolean		
args.inputs(2). System.B	oolean		
args.inputs(3). OneStream	m.Shared.Common.WorkflowStatus	ypes	
CompleteForm		Forms	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	m.Shared.Wcf.XFFormEx		
args.inputs(1). System.B	oolean		
args.inputs(2). System.B	oolean		
args.inputs(3). OneStream	m.Shared.Common.WorkflowStatus	ypes	
CompleteForm		Forms	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream	m.Shared.Wcf.XFFormEx		
args.inputs(1). System.B	oolean		
args.inputs(2). System.B	oolean		
args.inputs(3). OneStream	m.Shared.Common.WorkflowStatus	ypes	

StartUpdateFormWorkflov	V	Forms	
Is Before Event: False	Can Cancel: False	Number of Inputs: 3	
Input Name			
args.inputs(0). OneStream.Sha	red.Wcf.InputFormsProces	sInfo	
args.inputs(1). OneStream.Shar	red.Wcf.WorkflowUnitPk		
args.inputs(2). System.Boolean	1		
EndUpdateFormWorkflow	•	Forms	
Is Before Event: False	Can Cancel: False	Number of Inputs: 3	
Input Name			
args.inputs(0). OneStream.Sha	•		
args.inputs(1). OneStream.Sha			
args.inputs(2). System.Boolean	1		
UpdateWorkflowStatus		Workflow	
Is Before Event: True	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.Sha			
args.inputs(1). OneStream.Sha	•	•	
args.inputs(2). OneStream.Sha	red.Common.WorkflowStz	atusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
UpdateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.Shar			
args.inputs(1). OneStream.Sha	-	**	
args.inputs(2). OneStream.Sha	rea.Common.WorkflowStz	nus 1 ypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			

UpdateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(6). System.Guid			

Process Journal

SubmitJournal		Journals	
Is Before Event: True	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). System.Guid			
args.inputs(1). OneStream.Shar	red.Wcf.JournalEx		
SubmitJournal		Journal s	
Is Before Event: False	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). System.Guid			
args.inputs(1). OneStream.Shar	red.Wcf.JournalEx		
FinalizeSubmitJournal		Journals	
Is Before Event: False	Can Cancel: False	Number of Inputs: 1	
Input Name			
args.inputs(0). System.Guid			
ApproveJournal		Journals	
Is Before Event: True	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). System.Guid			
args.inputs(1). OneStream.Shar	red.Wcf.JournalEx		
ApproveJournal		Journal s	
Is Before Event: False	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). System.Guid			
args.inputs(1). OneStream.Shar	red.Wcf.JournalEx		
FinalizeApproveJournal		Journals	
Is Before Event: False	Can Cancel: False	Number of Inputs: 1	
Input Name			
args.inputs(0). System.Guid			

PostJournal			Journals
Is Before Event: True	Can Cancel:	False	Number of Inputs: 2
Input Name			
args.inputs(0). System.Guid			
args.inputs(1). OneStream.Sh	ared.Wcf.Journal	Ex	
SaveCubeData			SaveData
Is Before Event: True	Can Cancel:	True	Number of Inputs: 0
Input Name			
args.inputs(0). SAVE DATA	EVENT IS USEI	FOR DEBUG ONL	LY
UpdateWorkflowStatus			Workflow
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Sh	ared.Wcf.Workfl	owInfo	
args.inputs(1). OneStream.Sh			5
args.inputs(2). OneStream.Sh	ared.Common.W	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Sh	ared.Wcf.Workfl	owInfo	
args.inputs(1). OneStream.Sh	ared.Common.Ste	epClassificationTypes	15
args.inputs(2). OneStream.Sh	ared.Common.W	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
PostJournal			Journals
PostJournal Is Before Event: False	Can Cancel:	False	Journals Number of Inputs: 2
	Can Cancel:	False	
Is Before Event: False	Can Cancel:	False	
Is Before Event: False Input Name			
In Before Event: False Input Name args.inputs(0). System.Guid			
In Before Event: False Input Name args.inputs(0). System.Guid args.inputs(1). OneStream.Shr		Ex	Number of Inputs: 2
In Before Event: False Input Name args.inputs(0). System.Guid args.inputs(1). OneStream.Shi FinalizePostJournal	ared.Wcf.Journall	Ex	Number of Inputs: 2 Journals
In Before Event: False Input Name args.inputs(0). System.Guid args.inputs(1). OneStream.Shi FinalizePostJournal In Before Event: False	ared.Wcf.Journall	Ex	Number of Inputs: 2 Journals
In Before Event: False Input Name args.inputs(0). System.Guid args.inputs(1). OneStream.Shr FinalizePostJournal In Before Event: False Input Name	ared.Wcf.Journall	Ex	Number of Inputs: 2 Journals
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In Before Event: False Input Name args.inputs(0). System.Guid args.inputs(1). OneStream.Shr FinalizePostJournal In Before Event: False Input Name args.inputs(0). System.Guid StartUpdateJournalWorks	Can Cancel:	Ex False	Number of Inputs: 2 Journals Number of Inputs: 1 Journals
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UpdateWorkflowStatus			Workflow
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
JpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Share	d.Wef.Workfl	owInfo	
args.inputs(1). OneStream.Share	d.Common.Ste	epClassificationType	5
args.inputs(2). OneStream.Share	d.Common.W	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
inalizeUpdateJournalWork	xflow		Journals
Is Before Event: False	Can Cancel:	False	Number of Inputs: 3
Input Name			
args.inputs(0). OneStream.Share	d.Wef.InputJo	urnalsProcessInfo	
args.inputs(1). OneStream.Share	d.Wef.Workfl	owUnitPk	
args.inputs(2). System.Boolean			

Process Workflow

StartValidateTransform			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Sha	red.Wcf.Validat	ionTransformationF	ProcessInfo
args.inputs(1). OneStream.Sha	red.Wcf.Workfl	owUnitPk	
args.inputs(2). System.Boolea	n		
args.inputs(3). System.Guid			
ValidateDimension			Transformation
Is Before Event: True	Can Cancel:	False	Number of Inputs: 5
Input Name			
args.inputs(0). OneStream.Sha	red.Wcf.Workfl	owUnitPk	
args.inputs(1). OneStream.Sha	red.Wcf.Dimens	sionValidationInfo	
args.inputs(2). System.String			
args.inputs(3). System.Guid			
args.inputs(4). System.Guid			
ValidateDimension			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 5
Input Name			
args.inputs(0). OneStream.Sha			
args.inputs(1). OneStream.Sha	red.Wcf.Dimens	sionValidationInfo	
args.inputs(2). System.String			
args.inputs(3). System.Guid			
args.inputs(4). System.Guid			
ValidateDimension			Transformation
Is Before Event: True	Can Cancel:	False	Number of Inputs: 5
Input Name			
args.inputs(0). OneStream.Sha			
args.inputs(1). OneStream.Sha	red.Wcf.Dimens	sionValidationInfo	
args.inputs(2). System.String			
args.inputs(3). System.Guid			
args.inputs(4). System.Guid			

ValidateDimension		Transformation
Is Before Event: False	Can Cancel: False	Number of Inputs: 5
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args.inputs(0). OneStream.Sha	red.Wcf.WorkflowUnitPk	
	red.Wcf.DimensionValidationInfo	
args.inputs(2). System.String		
args.inputs(3). System.Guid		
args.inputs(4). System.Guid		
ValidateDimension		Transformation
Is Before Event: True	Can Cancel: False	Number of Inputs: 5
Input Name		
args.inputs(0). OneStream.Sha	red.Wcf.WorkflowUnitPk	
	red.Wcf.DimensionValidationInfo	
args.inputs(2). System.String		
args.inputs(3). System.Guid		
args.inputs(4). System.Guid		
ValidateDimension		Transformation
Is Before Event: False	Can Cancel: False	Number of Inputs: 5
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	red.Wcf.DimensionValidationInfo	
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,	red.Wcf.DimensionValidationInfo	
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args.inputs(3). System.Guid		
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Is Before Event: True	Can Cancel: False	Number of Inputs: 5
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ValidateDimension Is Before Event: False	Con Consult False	Transformation Number of Inputs: 5
	Can Cancel: False	Numoer of inputs: 5
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args.inputs(3). System.Guid		
args.inputs(4). System.Guid		
ValidateDimension		Transformation
Is Before Event: True	Can Cancel: False	Number of Inputs: 5
Input Name	Can Cancer: Passe	Number of Imputs: 5
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	red.Wcf.DimensionValidationInfo	
args.inputs(2). System.String	rea. w Cr. Dimension v andationimo	
args.inputs(3). System.Guid		
args.inputs(4). System.Guid		
ValidateDimension		Transformation
Is Before Event: False	Can Cancel: False	Number of Inputs: 5
Input Name	Can Cancer Table	a transporture. Via assignation:
args.inputs(0). OneStream.Sha	red.Wcf.WorkflowUnitPk	
	red.Wcf.DimensionValidationInfo	
args.inputs(2). System.String		
args.inputs(2). System.Guid		
args.inputs(4). System.Guid		

ValidateDimension		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream.Sha	red.Wcf.WorkflowUnitPk		
args.inputs(1). OneStream.Sha	red.Wcf.DimensionValidationInfo		
args.inputs(2). System.String			
args.inputs(3). System.Guid			
args.inputs(4). System.Guid			
ValidateDimension		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream.Sha	red.Wcf.WorkflowUnitPk		
args.inputs(1). OneStream.Sha	red.Wcf.DimensionValidationInfo		
args.inputs(2). System.String			
args.inputs(3). System.Guid			
args.inputs(4). System.Guid			
ValidateDimension		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 5	
Input Name			
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args.inputs(2). System.String			
args.inputs(3). System.Guid			
args.inputs(4). System.Guid			
ValidateDimension		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream.Sha			
	red.Wcf.DimensionValidationInfo		
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arga.mputs(3). System.Guid ValidateDimension		Transformation	
	Can Cancel: False	Transformation Number of Inputs: 5	
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	ared.Wcf.DimensionValidationInfo		
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ValidateDimension		Transformation	
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args.inputs(1). OneStream.Sha	ared.Wcf.DimensionValidationInfo		
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args.inputs(1). OneStream.S	hared.Wcf.DimensionValidationInt	io .
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alidateDimension		Transformation
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pdateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.	.Shared.Wcf.WorkflowInfo		
args.inputs(1). OneStream.	.Shared.Common.StepClassification	aTypes	
args.inputs(2). OneStream.	.Shared.Common.WorkflowStatusT	ypes	
args.inputs(3). System.Stri	ing		
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inalizeValidateTransfo	rm	Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.	.Shared.Wcf.ValidationTransforma	tionProcessInfo	
args.inputs(1). OneStream.	.Shared.Wcf.WorkflowUnitPk		
args.inputs(2). System.Boo	olean		
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artValidateIntersect		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream.	.Shared.Wcf.ValidateIntersectionPr	ocessInfo	
args.inputs(1). OneStream.	.Shared.Wcf.WorkflowUnitPk		
args.inputs(2). System.Boo	olean		
args.inputs(3). OneStream.	.Shared.Wcf.LoadDataMode		
args.inputs(4). System.Gui	id		
pdateWorkflowStatus		Workflow	
Is Before Event: True	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.	.Shared.Wcf.WorkflowInfo		
args.inputs(1). OneStream.	.Shared.Common.StepClassification	nTypes	
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UpdateWorkflowStatus			Workflow
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Shar			
args.inputs(1). OneStream.Shar			
args.inputs(2). OneStream.Shar	ed.Common.W	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
EndValidateIntersect			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 5
Input Name			
args.inputs(0). OneStream.Shar			nfo
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args.inputs(2). System.Boolean			
args.inputs(3). OneStream.Share	ed.Wcf.LoadDa	itaMode	
args.inputs(4). System.Guid			
UpdateWorkflowStatus			Workflow
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Share			
args.inputs(1). OneStream.Share			
args.inputs(2). OneStream.Share	ed.Common.W	orkflowStatusTypes	

UpdateWorkflowStatus			Workflow
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Shar	ed.Wcf.Workfl	owInfo	
args.inputs(1). OneStream.Shar	ed.Common.St	epClassificationType	5
args.inputs(2). OneStream.Shar	ed.Common.W	orkflowStatusTypes	
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Is Before Event: False	Can Cancel:	False	Number of Inputs: 5
Input Name			
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args.inputs(1). OneStream.Shar	ed.Wcf.Workfl	owUnitPk	
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args.inputs(3). OneStream.Shar	ed.Wcf.LoadDa	ataMode	
args.inputs(4). System.Guid			
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Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
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args.inputs(1). OneStream.Shar			5
args.inputs(2). OneStream.Shar		1.0 0	

UpdateWorkflowStatus

Is Before Event: True	Can Cancel: True	Number of Inputs: 7
Input Name		
args.inputs(3). System.String		
args.inputs(4). System.String		
args.inputs(5). System.String		
args.inputs(6). System.Guid		
		Workflow
UpdateWorkflowStatus Is Before Event: False	Can Cancel: True	Number of Inputs: 7
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UpdateWorkflowStatus		Workflow
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	ed.Common.StepClassificationTypes	
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args.inputs(3). System.String	ypes	
args.inputs(4). System.String		
args.inputs(5). System.String		
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UpdateWorkflowStatus		Workflow
Is Before Event: False	Can Cancel: True	Number of Inputs: 7
Input Name		
args.inputs(0). OneStream.Shar	ed Wef WorkflowInfo	
UpdateWorkflowStatus		Workflow
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L	Can Cancel: True	
Is Before Event: False Input Name	Can Cancel: True	Number of Inputs: 7
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In Before Event: False Input Name args.inputs(1). OneStream.Shar args.inputs(2). OneStream.Shar args.inputs(3). System.String	red.Common.StepClassificationType	Number of Inputs: 7
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Is Before Event: False Input Name args.inputs(1). OneStream.Shar args.inputs(2). OneStream.Shar args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.Guid SaveCubeData Is Before Event: True Input Name args.inputs(0). SAVE DATA E StartLoadIntersect Is Before Event: True Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(2). System.Boolean args.inputs(3). OneStream.Shar args.inputs(3). OneStream.Shar args.inputs(4). System.Guid EndLoadIntersect	ced.Common.StepClassificationTypes ced.Common.WorkflowStatusTypes Can Cancel: True VENT IS USED FOR DEBUG ONL Can Cancel: False ced.WcfLoadCubeProcessInfo ced.WcfLoadCubeProcessInfo ced.WcfLoadDataMode	Number of Inputs: 7 SaveData Number of Inputs: 0 Y Transformation Number of Inputs: 5
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Is Before Event: False Input Name args.inputs(1). OneStream.Shar args.inputs(2). OneStream.Shar args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.String args.inputs(6). System.Guid SaveCubeData Is Before Event: True Input Name args.inputs(0). SAVE DATA E StartLoadIntersect Is Before Event: True Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(2). System.Goulean args.inputs(3). System.Goulean args.inputs(3). System.Goulean args.inputs(4). System.Guid EndLoadIntersect Is Before Event: False Input Name	cal Common. StepClassificationTypes red. Common. WorkflowStatusTypes Can Cancel: True VENT IS USED FOR DEBUG ONL Can Cancel: False red. Wcf.LoadCubeProcessInfo red. Wcf.WorkflowUnitPk red. Wcf.WorkflowUnitPk red. Wcf.LoadDataMode	Number of Inputs: 7 SaveData Number of Inputs: 0 Y Transformation Number of Inputs: 5
Is Before Event: False Input Name args.inputs(1). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.String args.inputs(6). System.Guid SaveCubeData Is Before Event: True Input Name args.inputs(0). SAVE DATA E StartLoadIntersect Is Before Event: True Input Name args.inputs(0). OneStream.Sha args.inputs(1). OneStream.Sha args.inputs(2). System Boolean args.inputs(3). OneStream.Sha args.inputs(4). System.Guid EndLoadIntersect Is Before Event: False Input Name args.inputs(0). OneStream.Sha	can Cancel: True Can Cancel: True VENT IS USED FOR DEBUG ONL Can Cancel: False red.WcfLoadCubeProcessInfo red.WcfLoadDataMode Can Cancel: False can Cancel: False can Cancel: False	Number of Inputs: 7 SaveData Number of Inputs: 0 Y Transformation Number of Inputs: 5
Is Before Event: False Input Name args.inputs(2). OneStream.Shar args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.String args.inputs(6). System.String args.inputs(6). System.String args.inputs(6). System.String args.inputs(6). System.String Input Name args.inputs(0). SAVE DATA E StartLoadIntersect Is Before Event: True Input Name args.inputs(1). OneStream.Shar args.inputs(2). System Boolean args.inputs(3). OneStream.Shar args.inputs(4). System.Guid EndLoadIntersect Is Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(1). OneStream.Shar	can Cancel: True Can Cancel: True VENT IS USED FOR DEBUG ONL Can Cancel: False red. Wcf.LoadCubeProcessInfo red. Wcf.LoadDataMode Can Cancel: False can Wcf.LoadCubeProcessInfo red. Wcf.WorkflowUnitPk	Number of Inputs: 7 SaveData Number of Inputs: 0 Y Transformation Number of Inputs: 5
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Workflow

UpdateWorkflowStatus			Workflow		
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7		
Input Name					
args.inputs(0). OneStream.Shar	red.Wcf.Workf	owInfo			
args.inputs(1). OneStream.Shar	red.Common.St	epClassificationTyp	es		
args.inputs(2). OneStream.Shar	red.Common.W	orkflowStatusTypes			
args.inputs(3). System.String					
args.inputs(4). System.String					
args.inputs(5). System.String					
args.inputs(6). System.Guid					
UpdateWorkflowStatus			Workflow		
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7		
Input Name					
args.inputs(0). OneStream.Shar	red.Wcf.Workfl	owInfo			
args.inputs(1). OneStream.Shar	red.Common.St	epClassificationTyp	es		
args.inputs(2). OneStream.Shar	red.Common.W	orkflowStatusTypes			
args.inputs(3). System.String					
args.inputs(4). System.String					
args.inputs(5). System.String					
args.inputs(6). System.Guid					
FinalizeLoadIntersect			Transformation		
Is Before Event: False	Can Cancel:	False	Number of Inputs: 5		
Input Name					
	args.inputs(0). OneStream.Shared.WcfLoadCubeProcessInfo				
args.inputs(1). OneStream.Shar	red.Wcf.Workfl	owUnitPk			
	args.inputs(2). System.Boolean				
args.inputs(3). OneStream.Sha	red.Wcf.LoadD	ataMode			
args.inputs(4). System.Guid					
StartLoadIntersect			Transformation		
Is Before Event: True	Can Cancel:	False	Number of Inputs: 5		

StartLoadIntersect		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream.Sl	hared.Wcf.LoadCubeProcessInfo		
args.inputs(1). OneStream.Sl			
args.inputs(2). System.Boole	ean		
args.inputs(3). OneStream.Sl	hared.Wcf.LoadDataMode		
args.inputs(4). System.Guid			
EndLoadIntersect		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 5	
Input Name			
	hared.Wcf.LoadCubeProcessInfo		
args.inputs(1). OneStream.Sl	hared.Wcf.WorkflowUnitPk		
args.inputs(2). System.Boole	ean		
args.inputs(3). OneStream.Sl	hared.Wcf.LoadDataMode		
args.inputs(4). System.Guid			
UpdateWorkflowStatus		Workflow	
Is Before Event: True	Can Cancel: True	Number of Inputs: 7	
	Can Canter True	rumoes of Imputs.	
Input Name args.inputs(0). OneStream.Sl	hared Wof WorkflowInfo		
	hared.Common.StepClassificationTyp	na.	
	hared.Common.WorkflowStatusType		
		•	
args.inputs(3). System.String args.inputs(4). System.String			
args.inputs(4). System.String			
args.inputs(6). System.Guid		W. 1 a	
UpdateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.Sl			
args.inputs(1). UneStream.Si	hared.Common.StepClassificationTyp	es	
args.inputs(1). OneStream.S.	hared.Common.StepClassificationTyp	es	
args.mputs(1). OneStream.S.	hared.Common.StepClassificationTy	es	
"	hared.Common.StepClassification I y		
UpdateWorkflowStatus		Workflow	
UpdateWorkflowStatus In Before Event: False	hared.Common.StepClassification I y		
UpdateWorkflowStatus Is Before Event: False Input Name	Can Cancel: True	Workflow	
UpdateWorkflowStatus Is Before Event: False Input Name args.inputs(2). OneStream.Sh.	Can Cancel: True	Workflow	
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UpdateWorkflowStatus In Before Event: False Input Name args.inputs(2). OneStream.Sh args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String	Can Cancel: True ared.Common.WorkflowStatusTypes	Workflow	
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UpdateWorkflowStatus Is Before Event: False Input Name args.inputs(2). OneStream.Sh args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.Guid	Can Cancel: True ared.Common.WorkflowStatusTypes	Workflow Number of Inputs: 7	
UpdateWorkflowStatus In Before Event: Fake Input Name args.inputs(2). OneStream.Sh args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.Guid FinalizeLoadIntersect In Before Event: Fake Input Name	Can Cancel: True tared Common.WorkflowStatusTypes Can Cancel: False	Workflow Number of Inputs: 7 Transformation	
UpdateWorkflowStatus In Before Event: Fake Input Name args.inputs(2). OneStream.Sh args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.Guid FinalizeLoadIntersect In Before Event: Fake Input Name	Can Cancel: True ared.Common.WorkflowStatusTypes	Workflow Number of Inputs: 7 Transformation	
UpdateWorkflowStatus In Before Event: Fake Input Name args.inputs(2). OneStream.Sh args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.Guid FinalizeLoadIntersect In Before Event: Fake Input Name	Can Cancel: True tared.Common.WorkflowStatusTypes Can Cancel: False tared.WcfLoadCubeProcessInfo	Workflow Number of Inputs: 7 Transformation	
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UpdateWorkflowStatus Is Before Event: False Input Name args.inputs(2). OneStream.Sh args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.Guid FinalizeLoadIntersect In Before Event: False Input Name args.inputs(0). OneStream.Sh args.inputs(1). OneStream.Sh args.inputs(1). System.Bolea args.inputs(3). System.Bolea args.inputs(4). System.Guid StartProcessCube In Before Event: False Input Name	Can Cancel: True ared.Common.WorkflowStatusTypes Can Cancel: False ared.WcfLoadCubeProcessInfo ared.WcfLoadCubeProcessInfo ared.WcfLoadCubeProcessInfo ared.WcfLoadCubeProcessInfo	Workflow Number of Inputs: 7 Transformation Number of Inputs: 5 DataQuality	
UpdateWorkflowStatus Is Before Event: False Input Name args.inputs(2). OneStream.Sh args.inputs(3). System.String args.inputs(4). System.String args.inputs(5). System.String args.inputs(6). System.Guid FinalizeLoadIntersect In Before Event: False Input Name args.inputs(0). OneStream.Sh args.inputs(1). OneStream.Sh args.inputs(1). System.Bolea args.inputs(3). System.Bolea args.inputs(4). System.Guid StartProcessCube In Before Event: False Input Name	Can Cancel: True Lared.Common.WorkflowStatusTypes Can Cancel: False Lared.WcfLoadCubeProcessInfo Lared.WcfLoadDataMode Can Cancel: False Lared.WcfLoadDataMode	Workflow Number of Inputs: 7 Transformation Number of Inputs: 5 DataQuality	
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UpdateWorkflowStatus In Before Event: False Input Name args.inputs(3). System. String args.inputs(4). System. String args.inputs(5). System. String args.inputs(6). System. String args.inputs(6). System. Guid FinalizeLoadIntersect In Before Event: False Input Name args.inputs(1). OneStream.Sh args.inputs(2). System. Boolea args.inputs(3). OneStream.Sh args.inputs(4). System. Guid StartProcessCube Input Name args.inputs(0). OneStream.Sh args.inputs(0). OneStream.Sh args.inputs(0). OneStream.Sh args.inputs(0). OneStream.Sh args.inputs(1). OneStream.Sh args.inputs(2). OneStream.Sh	Can Cancel: True ared.Common.WorkflowStatusTypes Can Cancel: False ared.WcfLoadCubeProcessInfo ared.WcfLoadDataMode Can Cancel: False ared.WcfLoadDataMode cancel: Cance	Workflow Number of Inputs: 7 Transformation Number of Inputs: 5 DataQuality Number of Inputs: 3	
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Consolidate		DataQuality
Is Before Event: False	Can Cancel: False	Number of Inputs: 3
Input Name		
args.inputs(0). OneStream.Shar	red.Wcf.WorkflowUnitPk	
args.inputs(1). OneStream.Shar	ed.Wcf.TaskActivityItem	
args.inputs(2). OneStream.Shar	red.Wcf.DataUnitInfo	
NoCalculate		DataQuality
Is Before Event: True	Can Cancel: False	Number of Inputs: 3
Input Name		
args.inputs(0). OneStream.Shar	red.Wcf.WorkflowUnitPk	
args.inputs(1). OneStream.Shar	red.Wcf.TaskActivityItem	
args.inputs(2). OneStream.Shar	red.Wcf.DataUnitInfo	
NoCalculate		DataQuality
Is Before Event: True	Can Cancel: False	Number of Inputs: 3
Input Name		<u> </u>
args.inputs(0). OneStream.Shar	ed.Wcf.WorkflowUnitPk	
args.inputs(1). OneStream.Shar		
args.inputs(2). OneStream.Shar	red.Wcf.DataUnitInfo	
EndProcessCube		DataQuality
Is Before Event: False	Can Cancel: False	Number of Inputs: 3
Input Name		
	red.Wcf.ProcessCubeProcessInfo	
args.inputs(1). OneStream.Shar		
args.inputs(2). OneStream.Shar		
UpdateWorkflowStatus		Workflow
Is Before Event: True	Can Cancel: True	Number of Inputs: 7
Input Name		•
args.inputs(0). OneStream.Shar	ed.Wcf.WorkflowInfo	
args.inputs(1). OneStream.Shar	ed.Common.StepClassificationTyp	Des .
args.inputs(2). OneStream.Shar	ed.Common.WorkflowStatusType	s
UpdateWorkflowStatus		Workflow
Is Before Event: True	Can Cancel: True	Number of Inputs: 7
Input Name		
args.inputs(3). System.String		
args.inputs(4). System.String		
args.inputs(5). System.String		
args.inputs(6). System.Guid		
UpdateWorkflowStatus		Workflow
Is Before Event: False	Can Cancel: True	Number of Inputs: 7
Input Name	177 477 17 7 4	
args.inputs(0). OneStream.Shar		
	red.Common.StepClassificationTyp	
= - ::	ed.Common.WorkflowStatusType	5
args.inputs(3). System.String		
args.inputs(4). System.String		
args.inputs(5). System.String		
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FinalizeProcessCube		DataQuality
Is Before Event: False	Can Cancel: False	Number of Inputs: 3
Input Name	1777 AD	
	ed.Wcf.ProcessCubeProcessInfo	
args.inputs(1). OneStream.Shar		
args.inputs(2). OneStream.Shar	ea.wcf.laskActivityItem	