Tonestream

API Overview Guide

8.4.1 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.

For customers in a OneStream-hosted environment, see the *Identity and Access Management Guide* for information about authentication with OneStream IdentityServer and using personal access tokens (PATs).

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.

Developer Fundamentals

VB.Net and C#

The OneStream platform is based entirely on the Microsoft .Net Framework as is the Business Rules engine. Therefore, VB.Net and C# are 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 or C# 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 and C# are a full featured programming language. In the end, these capabilities result in a more reliable Business Rule code.

NOTE: There are two broad Business Rule Classifications: Shared Business Rules and Item Specific Business Rules. Shared Business Rules can be written in either VB.NET or C#, Item Specific Business Rules can be written in VB.NET only.

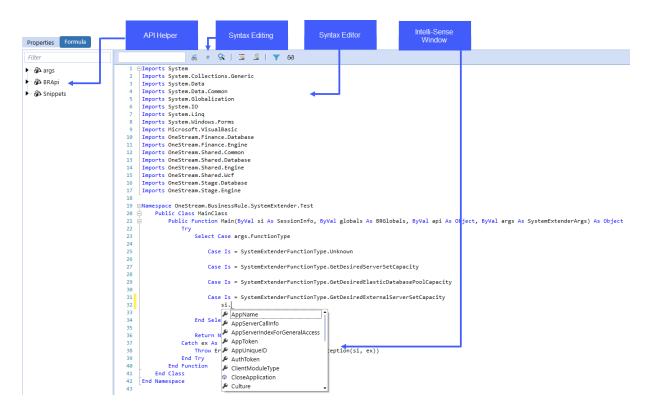
In-Solution Documentation

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

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

C#

C# (pronounced "See Sharp") is a modern, object-oriented, and type-safe programming language. This language is especially popular amongst developers as it enabled them to build many types of secure and robust applications that run in .NET. C# has its roots in the C family of languages and will be immediately familiar to C, C++, Java, and JavaScript programmers.

Microsoft C# Learning

The link below points to some resources that business users may find helpful during the C# learning process.

https://docs.microsoft.com/en-us/dotnet/csharp/

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 (for example, Parser) to tell other engines (for example, Finance) to run their own APIs (for example, 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.

API Structure and Organization

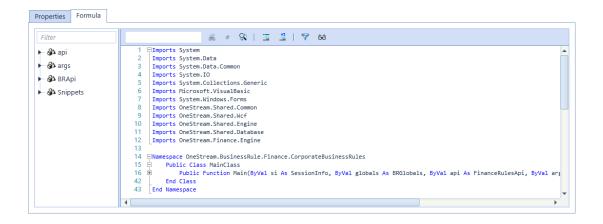
Namespaces

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
```

API Structure and Organization

```
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
{\tt One Stream. Stage. Engine. Transform Rule Cache}
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')
```

Microsoft Financial Calls

Financial calls are part of the Microsoft. Visual Basic namespace, and can be used to for calculations such as:

- Depreciation
- · Present and future values
- Interest rates
- · Rates of return
- Payments

These functions are available to anyone with access to Business Rules. They can be explored within the Business Rule syntax editor by typing Microsoft. Visual Basic. Financial then navigating through the intelli-sense popup lists.

To view all methods from the Microsoft. Visual Basic Financial class used in a Business Rule:

- 1. Navigate to the Business Rule Editor:
 - a. In the OneStream Software application, click the **Application** tab.
 - b. Under Tools, click **Business Rules**.
 - c. Expand the appropriate Business Rules category or click **Search** on the toolbar.
- 2. Click the Formula tab.
- 3. In the editor window, type Microsoft. Visualbasic. Financial.

A list of methods displays.

```
Imports OneStream.Shared.Engine
13
     Imports OneStream.Shared.Database
14
     Imports OneStream.Stage.Engine
15
     Imports OneStream.Stage.Database
     Imports OneStream.Finance.Engine
17
    Imports OneStream.Finance.Database
18
20 😑
        Public Class MainClass
21 🛱
             Public Function Main(ByVal si As SessionInfo, ByVal globals As BRGlobals, ByVal api
22
23
                    Select Case args.FunctionType
24
25
                        Case Is = ExtenderFunctionType.Unknown
26
27
                            Dim mydatacell As DataCell = BRapi.Finance.Data.GetDataCellsUsingMe
28
                            api.LogMessage(mydatacell.DataCellPk.GetMemberScript(api) + " - IsL
29
                         <u>Case Is = ExtenderFunctionType.Ex</u>ecuteDataMgmtBusinessRuleStep
                        microsoft.VisualBasic.Financial.
30
                         End Select
31
                                                       DDB
32
                                                       Equals
 33
                    Return Nothing
                                                       F۷
                 Catch ev As Excention
                                                       IPmt.
                                                       IRR
Sample
                                                        MIRR
                                                       NPer
 Dim fieldTokens As New List(Of String)
 fieldTokens.Add("xfGuid#:[Field1]::NewGuid")
                                                       NPV
 fieldTokens.Add("xfText#:[Field2]")
                                                       Pmt
 fieldTokens.Add("xfInt#:[Field3]")
```

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.

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.

Using 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.Test
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
Fed 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.

```
Case Is = SystemExtenderFunctionType.Unknown

Case Is = SystemExtenderFunctionType.GetDesiredScaleSetCapacity
    Dim systemExtenderScaleSetResult As New SystemExtenderScaleSetResult
    systemExtenderScaleSetResult.Capacity = args.ScaleSetArgs.CurrentScaleSetCapacity

If (args.ScaleSetArgs.ScaleSetMetricValues.AvgCPUUtilization > 50) Then
    systemExtenderScaleSetResult.Capacity = args.ScaleSetArgs.CurrentScaleSetCapacity + 1
End If

Return systemExtenderScaleSetResult

Case Is = SystemExtenderFunctionType.GetDesiredElasticDatabasePoolCapacity
    Dim systemExtenderSQLServerElasticPoolResult As New SystemExtenderSQLServerElasticPoolArgs.DatabaseAndEPoolDTU

If (args.SQLServerElasticPoolArgs,AzureElasticPoolDTU = args.SQLServerElasticPoolArgs.DatabaseAndEPoolDTU.AzureElasticPoolTU

If (args.SQLServerElasticPoolArgs,AzureElasticPoolLevelMetricValues.DTUConsumptionPercent > 90)
    systemExtenderSQLServerElasticPoolResult.AzureElasticPoolDTU = 1600
End If

Return systemExtenderSQLServerElasticPoolResult

Case Is = SystemExtenderSQLServerElasticPoolResult

Case Is = SystemExtenderFunctionType.GetDesiredExternalScaleSetCapacity

End Select
```

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.

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

Event Listing

Save Data Event Handler

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

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 FinalizeUpdateJournalWorkflow

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

PrepareICMatch

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

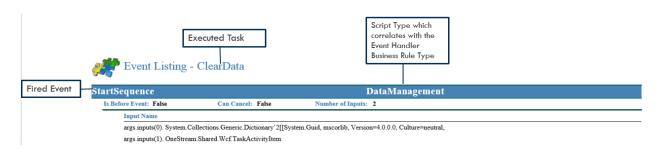
Workflow Event Handler

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.Sha	red.Wcf.WorkflowInf	ò	
args.inputs(1). OneStream.Sha	red.Common.StepClas	ssificationTypes	
args.inputs(2). OneStream.Sha	red.Common.Workflo	wStatusTypes	
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	
Is Before Event: False Input Name			
Is Before Event: False Input Name args.inputs(0). OneStream.Share	red.Wcf.WorkflowInf	6	
In Before Event: False Input Name args.inputs(0). OneStream.Sha: args.inputs(1). OneStream.Sha:	red.Wcf.WorkflowInfored.Common.StepClas	o ssificationTypes	
In Before Event: False Input Name args.inputs(0). OneStream.Sha: args.inputs(1). OneStream.Sha: args.inputs(2). OneStream.Sha:	red.Wcf.WorkflowInfored.Common.StepClas	o ssificationTypes	
Is Before Event: False Input Name args.inputs(0). OneStream.Sha: args.inputs(1). OneStream.Sha: args.inputs(2). OneStream.Sha: args.inputs(3). System.String	red.Wcf.WorkflowInfored.Common.StepClas	o ssificationTypes	
In Before Event: False Input Name args.inputs(0). OneStream.Sha: args.inputs(1). OneStream.Sha: args.inputs(2). OneStream.Sha: args.inputs(3). System.String args.inputs(4). System.String	red.Wcf.WorkflowInfored.Common.StepClas	o ssificationTypes	
In Before Event: False Input Name args.inputs(0). OneStream.Sha: 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	red.Wcf.WorkflowInfored.Common.StepClas	o ssificationTypes	
In Before Event: False Input Name args.inputs(0). OneStream.Sha: 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	red.Wcf.WorkflowInfored.Common.StepClas	o ssificationTypes wStatusTypes	
In Before Event: False Input Name args.inputs(0). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(3). System.String args.inputs(4). System.String args.inputs(4). System.String args.inputs(6). System.String args.inputs(6). System.String	red.Wcf.WorkflowInf red.Common.StepClas red.Common.Workflo	o ssificationTypes wStatusTypes DataManagement	
In Before Event: False Input Name args.inputs(0). OneStream.Sha args.inputs(2). 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 Inputs(6). System.String	red.Wcf.WorkflowInfored.Common.StepClas	o ssificationTypes swStatusTypes DataManagement	
In Before Event: False Input Name args.inputs(0). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(3). System.String args.inputs(4). System.String args.inputs(4). System.String args.inputs(6). System.String args.inputs(6). System.String	red.Wcf.WorkflowInfred.Common.StepClas red.Common.Workflo	DataManagement Number of Inputs: 2	

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.Shar	ed.Wcf.Workflo	owInfo	
args.inputs(1). OneStream.Shar			§
args.inputs(2). OneStream.Shar	ed.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.Shar	ed.Wcf.Workflo	owInfo	
args.inputs(1). OneStream.Shar			§
args.inputs(2). OneStream.Shar	ed.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	nce.Engine.Data	aMgmtStepMetadatal	info

ExecuteStep		DataManagement
Is Before Event: False	Can Cancel: False	Number of Inputs: 2
Input Name		
args.inputs(1). OneStream	n.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		
ExecuteStep		DataManagement	
Is Before Event: True	Can Cancel: False	Number of Inputs: 2	
Input Name			
args.inputs(0). OneStrea	m.Finance.Engine.DataMgmtStepMe	tadataInfo	
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	tadataInfo	
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.C	Collections.Generic.Dictionary`2[[Sys	tem.Guid, mscorlib, Version=4.0.0.0, Culture=neutral,	
args.inputs(1). OneStrea	m.Shared.Wcf.TaskActivityItem		

Import Data Connection

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	
args.inputs(2). OneStream	Shared.Common.WorkflowStatusT	ypes	
args.inputs(3). System.Str	ing		
args.inputs(4). System.Str	ing		
args.inputs(5). System.Str	ing		
args.inputs(6). System.Gu	íd		
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	nTypes	
args.inputs(2). OneStream	.Shared.Common.WorkflowStatusT	ypes	
args.inputs(3). System.Str	ing		
args.inputs(4). System.Str	ing		
args.inputs(5). System.Str	ing		
args.inputs(6). System.Gu	íd		
veCubeData		SaveData	
Is Before Event: True	Can Cancel: True	Number of Inputs: 0	
Input Name			
args.inputs(0). SAVE DA	TA EVENT IS USED FOR DEBUG	ONLY	
artLoadIntersect		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.Guid			
EndLoadIntersect			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 5
Input Name			
args.inputs(0). OneStream.Shar	ed.Wcf.LoadC1	ıbeProcessInfo	
args.inputs(1). OneStream.Share	ed.Wcf.Workfl	owUnitPk	
args.inputs(2). System.Boolean			
args.inputs(3). OneStream.Share	ed.Wcf.LoadD	ataMode	
args.inputs(4). 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.Share	ed.Common.St	epClassificationType	s
args.inputs(2). OneStream.Share	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	ed.Wcf.Workfl	owInfo	
args.inputs(1). OneStream.Shar	ed.Common.St	epClassificationType	5
args.inputs(2). OneStream.Shar	ed.Common.W	orkflowStatusTypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			

77 1 4 777 1 8 84 4		W 16		
UpdateWorkflowStatus		Workflow		
Is Before Event: False	Can Cancel: True	Number of Inputs: 7		
Input Name				
args.inputs(6). System.Guid	l .			
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.Shared.Wcf.WorkflowUnitPk				
args.inputs(2). System.Boolean				
rgs.inputs(3). OneStream.Shared.WcfLoadDataMode				
args.inputs(4). System.Guid				

Import Excel File



InitializeExcelRangeLayo	ut		Transformation				
Is Before Event: True	Can Cancel:	False	Number of Inputs: 2	·			
Input Name							
args.inputs(0). OneStream.Stage.Engine.Parser							
args.inputs(1). OneStream.Shared.Engine.StageRangeContent							
InitializeExcelRangeLayo	ut		Transformation				
Is Before Event: False	Can Cancel:	False	Number of Inputs: 2				
Input Name							
args.inputs(0). OneStream.Stage.Engine.Parser							
args.inputs(1). OneStream.Shared.Engine.StageRangeContent							
ParseSourceData			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.String							
args.inputs(2). OneStream.Shared.Common.TransformLoadMethodTypes							
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.Transformer							
args.inputs(1). System.String	5						
${\tt args.inputs}(2). \ One Stream. Shared. Common. Transform Load Method Types$							
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.Transformer							
args.inputs(1). System.String	args.inputs(1). System.String						
args.inputs(2). OneStream.Sl	${\tt args.inputs(2).}\ One Stream. Shared. Common. Transform Load Method Types$						

ProcessDerivedRules		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(3). System.Guid	ı		
ProcessTransformRules		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.S	tage.Engine.Transformer		
args.inputs(1). System.Strin	=		
args.inputs(2). OneStream.S	Shared.Common.TransformLoadM	ethodTypes	
args.inputs(3). System.Guid	•		
ProcessTransformRules		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.S	tage.Engine.Transformer		
args.inputs(1). System.Strin	g		
args.inputs(2). OneStream.S	Shared.Common.TransformLoadM	ethodTypes	
args.inputs(3). System.Guid			
DeleteData		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.S	tage.Engine.Transformer		
args.inputs(1). System.Strin	g		
args.inputs(2). OneStream.S	Shared.Common.TransformLoadM	ethodTypes	
args.inputs(3). System.Guid			
DeleteData		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.S	tage.Engine.Transformer		
args.inputs(1). System.Strin	g		

Event Listing

DeleteData		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(2). OneStream.	Shared.Common.TransformLoadM	MethodTypes	
args.inputs(3). System.Guid	ł		
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.Strir	ıg		
args.inputs(2). OneStream.	Shared.Common.TransformLoadM	MethodTypes	
args.inputs(3). System.Guid	ì		
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.Strir	ıg		
args.inputs(2). OneStream.	Shared.Common.TransformLoadN	MethodTypes	
args.inputs(3). System.Guid	i		
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.Strir	ıg		
args.inputs(2). OneStream.	Shared.Common.TransformLoadM	MethodTypes	
args.inputs(3). System.Guid	i .		
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	ed.Common.Tr	ansformLoadMethod	Types
args.inputs(3). System.Guid			
${f Summarize Transformed Data}$	ta		Transformation
Is Before Event: True	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	e.Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Shar	ed.Common.Tr	ansformLoadMethod	Types
args.inputs(3). System.Guid			
SummarizeTransformedDa	ta		Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	e.Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Share	ed.Common.Tr	ansformLoadMethod	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	e.Engine.Trans	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Share	ed.Common.Tr	ansformLoadMethod	Types
args.inputs(3). System.Guid			
CreateRuleHistory			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			

CreateRuleHistory		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Sta	ge.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Sha	ared.Common.TransformLoadl	MethodTypes	
args.inputs(3). System.Guid			
EndParseAndTransform		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Sta	ge.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Sha	ared.Common.TransformLoadl	MethodTypes	
args.inputs(3). System.Guid			
UpdateWorkflowStatus		Workflow	
Is Before Event: True	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.Sha	red.Wcf.WorkflowInfo		
args.inputs(1). OneStream.Sha	ared.Common.StepClassificatio	onTypes	
args.inputs(2). OneStream.Sha	ared.Common.WorkflowStatus	Types	
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			
	ared.Common.StepClassificatio		
	ared.Common.WorkflowStatus	Types	
args.inputs(3). System.String			
UpdateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
	Can Cancel: 11'ue	rumoes of impute.	
Input Name args.inputs(4). System.String			
args.mputs(4). bystem.oumg			

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			
FinalizeParseAndTransform	n	Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Stage	e.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Shar	ed.Common.TransformLoadN	[ethodTypes	
args.inputs(3). System.Guid			

Import Text File



ParseSourceData		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Sta	ge.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Sha	ared.Common.TransformLoadN	[ethodTypes	
args.inputs(3). System.Guid			
ProcessDerivedRules		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Sta	ge.Engine.Transformer		
args.inputs(1). System.String			
args.inputs(2). OneStream.Sha	ared.Common.TransformLoadN	fethodTypes	
args.inputs(3). System.Guid			
ProcessDerivedRules		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Sta	ge.Engine.Transformer		
args.inputs(1). System.String			
	ared.Common.TransformLoadN	fethodTypes	
args.inputs(3). System.Guid			
ProcessTransformRules		Transformation	
Is Before Event: True	Can Cancel: False	Number of Inputs: 4	
Input Name			
args.inputs(0). OneStream.Sta	ge.Engine.Transformer		
args.inputs(1). System.String			
	ared.Common.TransformLoadN	fethodTypes	
args.inputs(3). System.Guid			
ProcessTransformRules		Transformation	
ProcessTransformRules Is Before Event: False	Can Cancel: False	Transformation Number of Inputs: 4	
	Can Cancel: False		
Is Before Event: False			
Is Before Event: False Input Name	age.Engine.Transformer		
Is Before Event: False Input Name args.inputs(0). OneStream.Strargs.inputs(1). System.String	age.Engine.Transformer	Number of Inputs: 4	
Is Before Event: False Input Name args.inputs(0). OneStream.Strargs.inputs(1). System.String	age.Engine.Transformer	Number of Inputs: 4	
In Before Event: False Input Name args.inputs(0). OneStream.St. args.inputs(1). System.String args.inputs(2). OneStream.Sh	age.Engine.Transformer	Number of Inputs: 4	
In Before Event: False Input Name args.inputs(0). OneStream.St. args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid	age.Engine.Transformer	Number of Inputs: 4 MethodTypes	
In Before Event: False Input Name args.inputs(0). OneStream.Strang.string args.inputs(1). System.String args.inputs(2). OneStream.Sh args.inputs(3). System.Guid	age.Engine.Transformer : : :ared.Common.TransformLoadi	Number of Inputs: 4 MethodTypes Transformation	
In Before Event: False Input Name args.inputs(0). OneStream.Strangs.inputs(1). System.String args.inputs(2). OneStream.Sh args.inputs(3). System.Guid DeleteData In Before Event: True	age.Engine.Transformer cared.Common.TransformLoad Can Cancel: False	Number of Inputs: 4 MethodTypes Transformation	
In Before Event: False Input Name args.inputs(0). OneStream.Str args.inputs(1). System.String args.inputs(2). OneStream.Sh args.inputs(3). System.Guid DeleteData In Before Event: True Input Name	age.Engine.Transformer ared.Common.TransformLoad Can Cancel: False age.Engine.Transformer	Number of Inputs: 4 MethodTypes Transformation	
In Before Event: False Input Name args.inputs(1). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.Sting args.inputs(3). System.Guid DelecteData Is Before Event: True Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(2). OneStream.St	age.Engine.Transformer ared.Common.TransformLoad Can Cancel: False age.Engine.Transformer	Number of Inputs: 4 Method Types Transformation Number of Inputs: 4	
In Before Event: False Input Name args.inputs(1). OneStream.St args.inputs(2). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.Guid DeleteData Input Name args.inputs(0). OneStream.St args.inputs(1). System.String	age.Engine.Transformer ared.Common.TransformLoad Can Cancel: False age.Engine.Transformer	Number of Inputs: 4 Method Types Transformation Number of Inputs: 4	
In Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid DeleteData In Before Event: True Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid DeleteData	age.Engine.Transformer ared.Common.TransformLoad Can Cancel: False age.Engine.Transformer	Number of Inputs: 4 Method Types Transformation Number of Inputs: 4	
In Before Event: False Input Name args.inputs(1). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.String args.inputs(3). System.Guid DelecteData In Before Event: True Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid	age.Engine.Transformer ared.Common.TransformLoad Can Cancel: False age.Engine.Transformer	Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4 MethodTypes	
In Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(3). System.Guid DeleteData 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 DeleteData Input Name Input Name	age.Engine.Transformer ared.Common.TransformLoad Can Cancel: False age.Engine.Transformer ared.Common.TransformLoad	Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4 MethodTypes Transformation	
In Before Event: False Input Name args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.Guid DeleteData Input Name args.inputs(1). System.String args.inputs(1). System.String args.inputs(2). OneStream.St args.inputs(2). OneStream.St args.inputs(3). System.Guid DeleteData Input Name args.inputs(3). System.Guid DeleteData Input Name args.inputs(0). OneStream.St	age.Engine.Transformer can Cancel: False age.Engine.TransformLoad Can Cancel: False Can Cancel: False	Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4 MethodTypes Transformation	
Is 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 DeleteData 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.Guid DeleteData Is Before Event: False Input Name args.inputs(0). OneStream.St args.inputs(1). System.String	age.Engine.Transformer can Cancel: False age.Engine.TransformLoad Can Cancel: False Can Cancel: False	Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4	
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		In Before Event: False Input Name args.inputs(0). OneStream.8 args.inputs(1). System Strin args.inputs(2). OneStream.9 args.inputs(2). OneStream.9 args.inputs(2). OneStream.9 args.inputs(3). System.Guid Input Name args.inputs(0). OneStream.9 args.inputs(1). System.Strin args.inputs(2). OneStream.9 args.inputs(3). System.Guid CreateRuleHistory In Before Event: False Input Name args.inputs(0). OneStream.9 args.inputs(1). System.Strin args.inputs(2). OneStream.9 args.inputs(3). System.Guid Input Name args.inputs(3). System.Guid IndParseAndTransform In Before Event: False Input Name args.inputs(0). OneStream.9 Input Name args.inputs(0). OneStream.9	Can Cancel: False Stage Engine. Transformer 12 Shared. Common. TransformLoad? 13 Can Cancel: False Stage Engine. Transformer 14 Can Cancel: False Stage Engine. Transformer 15 Shared. Common. TransformLoad? 16 Can Cancel: False Stage Engine. Transformer 16 Stage Engine. Transformer 17 Shared. Common. TransformLoad? 18 Can Cancel: False Stage Engine. Transformer	Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4 MethodTypes Transformation Number of Inputs: 4 MethodTypes Transformation	
	args.inputs(3). System.Guid	In Before Event: False Input Name args.inputs(0). OneStream.5 args.inputs(2). OneStream.5 args.inputs(2). OneStream.5 args.inputs(3). System.Guid FreateRuleHistory In Before Event: True Input Name args.inputs(0). OneStream.5 args.inputs(1). System.Guid FreateRuleHistory In Before Event: False Input Name args.inputs(1). OneStream.5 args.inputs(1). System.Strin args.inputs(1). System.Guid FreateRuleHistory In Before Event: False Input Name args.inputs(1). System.Guid Ingrainputs(1). System.Guid Ingrainputs(1). System.Guid Ingrainputs(1). OneStream.5 args.inputs(0). OneStream.5 args.inputs(0). OneStream.5 args.inputs(1). System.Strin	Can Cancel: False Stage Engine. Transformer 12 Shared. Common. TransformLoad? 13 Can Cancel: False Stage Engine. Transformer 14 Can Cancel: False Stage Engine. Transformer 15 Shared. Common. Transformer 16 Stage Engine. Transformer 17 Stage Engine. Transformer 18 Stage Engine. Transformer 18 Stage Engine. Transformer	Number of Inputs: 4 Method Types Transformation Number of Inputs: 4 Method Types Transformation Number of Inputs: 4 Method Types Transformation Number of Inputs: 4	

UpdateWorkflowStatus			Workflow
Is Before Event: True	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Share	d.Wcf.Workfl	owInfo	
args.inputs(1). OneStream.Share	d.Common.Ste	epClassificationType	25
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			
UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Share	d.Wcf.Workfl	owInfo	
args.inputs(1). OneStream.Share	d.Common.Ste	epClassificationType	25
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			
FinalizeParseAndTransform	1		Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Stage	.Engine.Transi	former	
args.inputs(1). System.String			
args.inputs(2). OneStream.Share	d.Common.Tr	ansformLoadMethod	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.Sh	nared.Wcf.XFFormEx	
args.inputs(1). System.Boole	an	
args.inputs(2). System.Boole	an	
args.inputs(3). OneStream.Sh	nared.Common.WorkflowStatu	sTypes
CompleteForm		Forms
Is Before Event: False	Can Cancel: False	Number of Inputs: 4
Input Name		<u> </u>
args.inputs(0). OneStream.Sh		
args.inputs(1). System.Boole	an	
args.inputs(2). System.Boole		
args.inputs(3). OneStream.Sh	ared.Common.WorkflowStatu	sTypes
CompleteForm		Forms
Is Before Event: True	Can Cancel: False	Number of Inputs: 4
Input Name		
args.inputs(0). OneStream.Sh		
args.inputs(1). System.Boole		
args.inputs(2). System.Boole		
args.inputs(3). OneStream.Sh	nared.Common.WorkflowStatu	sTypes
CompleteForm		Forms
Is Before Event: False	Can Cancel: False	Number of Inputs: 4
Input Name		<u> </u>
args.inputs(0). OneStream.Sh	nared.Wcf.XFFormEx	
args.inputs(1). System.Boole	an	
args.inputs(2). System.Boole		
args.inputs(3). OneStream.Sh	nared.Common.WorkflowStatu	sTypes

Event Listing

StartUpdateFormWorkflow			Forms
Is Before Event: False	Can Cancel:	False	Number of Inputs: 3
Input Name			
args.inputs(0). OneStream.Share	ed.Wcf.InputF	ormsProcessInfo	
args.inputs(1). OneStream.Share	ed.Wcf.Workfl	owUnitPk	
args.inputs(2). System.Boolean			
EndUpdateFormWorkflow			Forms
Is Before Event: False	Can Cancel:	False	Number of Inputs: 3
Input Name			
args.inputs(0). OneStream.Share	-		
args.inputs(1). OneStream.Share	ed.Wcf.Workfl	owUnitPk	
args.inputs(2). System.Boolean			
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	
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.Share			
args.inputs(1). OneStream.Share			
args.inputs(2). OneStream.Share	ad.Common.W	orkflowStatusTypes	
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.Gu		
args.inputs(1). OneStream	n.Shared.Wcf.JournalEx	
SubmitJournal		Journal s
Is Before Event: False	Can Cancel: False	Number of Inputs: 2
Input Name		
args.inputs(0). System.Gu		
args.inputs(1). OneStream	a.Shared.Wcf.JournalEx	
FinalizeSubmitJournal		Journals
Is Before Event: False	Can Cancel: False	Number of Inputs: 1
Input Name		
args.inputs(0). System.Gu	nid	
ApproveJournal		Journals
Is Before Event: True	Can Cancel: False	Number of Inputs: 2
Input Name		
args.inputs(0). System.Gu		
args.inputs(1). OneStream	n.Shared.Wcf.JournalEx	
ApproveJournal		Journals
Is Before Event: False	Can Cancel: False	Number of Inputs: 2
Input Name		
args.inputs(0). System.Gu	iid	
args.inputs(1). OneStream	n.Shared.Wcf.JournalEx	
FinalizeApproveJourna	ı	Journals
Is Before Event: False	Can Cancel: False	Number of Inputs: 1
Input Name		
args.inputs(0). System.Gu	iid	

Is Before Event: True

Can Cancel: False

PostJournal

```
Input Name
                   args.inputs(0). System.Guid
                   args.inputs(1). OneStream.Shared.Wcf.JournalEx
 SaveCubeData
                                                                                                                                                                      SaveData
       Is Before Event: True
                   Input Name
                   args.inputs(0). SAVE DATA EVENT IS USED FOR DEBUG ONLY
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.StepClassificationTypes
                   args.inputs (2). \ One Stream. Shared. Common. Workflow Status Types \\
                  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.Shared.Wcf.WorkflowInfo
                  args.inputs (1). \ One Stream. Shared. Common. Step Classification Types args. The state of th
                  args.inputs(2). OneStream.Shared.Common.WorkflowStatusTypes
                   args.inputs(3). System.String
                  args.inputs(4). System.String
                  args.inputs(5). System.String
                   args.inputs(6). System.Guid
PostJournal
       Is Before Event: False
                                                                           Can Cancel: False
                                                                                                                                      Number of Inputs: 2
                   Input Name
                   args.inputs(0). System.Guid
                   args.inputs(1). OneStream.Shared.Wcf.JournalEx
FinalizePostJournal
                                                                                                                                                                    Journals
       Is Before Event: False
                                                                                                                                      Number of Inputs: 1
                   Input Name
                   args.inputs(0). System.Guid
 StartUpdateJournalWorkflow
                                                                                                                                                                    Journals
                                                                                                                                      Number of Inputs: 3
       Is Before Event: False
                   args.inputs (0). \ One Stream. Shared. Wcf. Input Journals Process Info
                   args.inputs (1). \ One Stream. Shared. Wcf. Workflow Unit Pk
                   args.inputs(2). System.Boolean
EndUpdateJournalWorkflow
                                                                                                                                                                    Journals
       Is Before Event: False
                                                                          Can Cancel: False
                                                                                                                                     Number of Inputs: 4
                   Input Name
                   args.inputs(0). OneStream.Shared.Wcf.InputJournalsProcessInfo
                   args.inputs (1). \ One Stream. Shared. Wcf. Workflow Unit Pk
                   args.inputs(2). System.Boolean
                   args.inputs(3). OneStream.Shared.Wcf.JournalsAndTemplatesForWorkflow
UpdateWorkflowStatus
                                                                                                                                                                    Workflow
       Is Before Event: True
                                                                          Can Cancel: True
                                                                                                                                   Number of Inputs: 7
                   Input Name
                   args.inputs (0). \ One Stream. Shared. Wcf. Workflow Info
                   args.inputs (1). \ One Stream. Shared. Common. Step Classification Types
                   args.inputs (2). \ One Stream. Shared. Common. Workflow Status Types
                   args.inputs(3). System.String
                   args.inputs(4). System.String
```

Journals

Number of Inputs: 2

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				
UpdateWorkflowStatus			Workflow	
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7	
Input Name				
args.inputs(0). OneStream.Sha	red.Wcf.Workfl	owInfo		
args.inputs(1). OneStream.Sha	red.Common.St	epClassificat	ionTypes	
args.inputs(2). OneStream.Sha	red.Common.W	orkflowStatu	sTypes	
args.inputs(3). System.String				
args.inputs(4). System.String				
args.inputs(5). System.String				
args.inputs(6). System.Guid				
FinalizeUpdateJournalWo	rkflow		Journals	
Is Before Event: False	Can Cancel:	False	Number of Inputs: 3	
Input Name				
args.inputs(0). OneStream.Sha	.red.Wcf.InputJo	urnalsProces	sInfo	
args.inputs(1). OneStream.Sha	red.Wcf.Workfl	owUnitPk		
args.inputs(2), System.Boolea	n			

Process Workflow

tartValidateTransform		Transformation
Is Before Event: False	Can Cancel: False	Number of Inputs: 4
Input Name		
args.inputs(0). OneStream.Shar	ed.Wcf.ValidationTransformationF	ProcessInfo
args.inputs(1). OneStream.Shar	ed.Wcf.WorkflowUnitPk	
args.inputs(2). System.Boolean		
args.inputs(3). System.Guid		
alidateDimension		Transformation
Is Before Event: True	Can Cancel: False	Number of Inputs: 5
Input Name		
args.inputs(0). OneStream.Shar	ed.Wcf.WorkflowUnitPk	
args.inputs(1). OneStream.Shar	ed.Wcf.DimensionValidationInfo	
args.inputs(2). System.String		
args.inputs(3). System.Guid		
args.inputs(4). System.Guid		
alidateDimension		Transformation
Is Before Event: False	Can Cancel: False	Number of Inputs: 5
Input Name		
args.inputs(0). OneStream.Shar	ed.Wcf.WorkflowUnitPk	
args.inputs(1). OneStream.Shar	ed.Wcf.DimensionValidationInfo	
args.inputs(1). OneStream.Shar args.inputs(2). System.String	ed.Wcf.DimensionValidationInfo	
	ed.Wcf.DimensionValidationInfo	
args.inputs(2). System.String	${f ed.Wcf.DimensionValidationInfo}$	
args.inputs(2). System.String args.inputs(3). System.Guid	ed.Wcf.DimensionValidationInfo	Transformation
args.inputs(2). System.String args.inputs(3). System.Guid args.inputs(4). System.Guid	ed.Wcf.DimensionValidationInfo Can Cancel: False	
args.inputs(2). System.String args.inputs(3). System.Guid args.inputs(4). System.Guid 'alidateDimension		Transformation
args.inputs(2). System.String args.inputs(3). System.Guid args.inputs(4). System.Guid alidateDimension In Before Event: True	Can Cancel: False	Transformation
args.inputs(2). System.String args.inputs(3). System.Guid args.inputs(4). System.Guid falidateDimension In Before Event: True Input Name args.inputs(0). OneStream.Shar	Can Cancel: False	Transformation Number of Inputs: 5
args.inputs(2). System.String args.inputs(3). System.Guid args.inputs(4). System.Guid falidateDimension Is Before Event: True Input Name args.inputs(0). OneStream.Shar	Can Cancel: False	Transformation Number of Inputs: 5
args.inputs(2). System.String args.inputs(3). System.Guid args.inputs(4). System.Guid alidateDimension In Before Event: True Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar	Can Cancel: False	Transformation Number of Inputs: 5

ValidateDimension		Transformation
Is Before Event: False	Can Cancel: False	Number of Inputs: 5
Input Name		
args.inputs(0). OneStream.S.	hared.Wcf.WorkflowUnitPk	
args.inputs(1). OneStream.S	hared.Wcf.DimensionValidationInfo	
args.inputs(2). System.String	E	
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.S	hared.Wcf.WorkflowUnitPk	
args.inputs(1). OneStream.S	hared.Wcf.DimensionValidationInfo	
args.inputs(2). System.String	1	
args.inputs(3). System.Guid		
args.inputs(4). System.Guid		
alidateDimension		Transformation
Is Before Event: False	Can Cancel: False	Number of Inputs: 5
Input Name		
args.inputs(0). OneStream.S	hared.Wcf.WorkflowUnitPk	
args.inputs(1). OneStream.S	hared.Wcf.DimensionValidationInfo	
args.inputs(2). System.String	E .	
args.inputs(3). System.Guid		
args.inputs(4). System.Guid		
alidateDimension		Transformation
Is Before Event: True	Can Cancel: False	Number of Inputs: 5
Input Name		
args.inputs(0). OneStream.S		
args.inputs(1). OneStream.S	hared.Wcf.DimensionValidationInfo	
	2	
args.inputs(2). System.String	-	
args.inputs(2). System.String args.inputs(3). System.Guid	•	
	-	
args.inputs(3). System.Guid		Transformation
args.inputs(3). System.Guid	Can Cancel: False	Transformation Number of Inputs: 5
args.inputs(3). System.Guid alidateDimension		
args.inputs(3). System.Guid alidateDimension Is Before Event: True	Can Cancel: False	
args.inputs(3). System.Guid ValidateDimension In Before Event: True Input Name args.inputs(4). System.Guid	Can Cancel: False	
args.inputs(3). System.Guid ValidateDimension In Before Event: True Input Name args.inputs(4). System.Guid	Can Cancel: False	Number of Inputs: 5
args.inputs(3). System.Guid [alidateDimension Is Before Event: True Input Name args.inputs(4). System.Guid [alidateDimension	Can Cancel: False	Number of Inputs: 5 Transformation
args.inputs(3). System.Guid alidateDimension In Before Event: True Input Name args.inputs(4). System.Guid alidateDimension In Before Event: False Input Name	Can Cancel: False	Number of Inputs: 5 Transformation
args.inputs(3). System.Guid alidateDimension In Before Event: True Input Name args.inputs(4). System.Guid alidateDimension In Before Event: False Input Name args.inputs(0). OneStream.S	Can Cancel: False Can Cancel: False	Number of Inputs: 5 Transformation
args.inputs(3). System.Guid [alidateDimension In Before Event: True Input Name args.inputs(4). System.Guid [alidateDimension In Before Event: False Input Name args.inputs(0). OneStream.S	Can Cancel: False Can Cancel: False chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation
args.inputs(3). System.Guid /alidateDimension In Before Event: True Input Name args.inputs(4). System.Guid /alidateDimension In Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S	Can Cancel: False Can Cancel: False thared.Wcf.WorkflowUnitPk thared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation
args.inputs(3). System.Guid ValidateDimension In Before Event: True Input Name args.inputs(4). System.Guid ValidateDimension In Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S args.inputs(2). System.Strin,	Can Cancel: False Can Cancel: False Can Cancel: False Chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation
AlidateDimension In Before Event: True Input Name args.inputs(4). System.Guid ValidateDimension La Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S args.inputs(2). System.Strin, args.inputs(3). System.Guid args.inputs(4). System.Guid	Can Cancel: False Can Cancel: False Can Cancel: False Chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation
AlidateDimension In Before Event: True Input Name args.inputs(4). System.Guid ValidateDimension La Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S args.inputs(2). System.Strin, args.inputs(3). System.Guid args.inputs(4). System.Guid	Can Cancel: False Can Cancel: False Can Cancel: False Chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation Number of Inputs: 5
args.inputs(3). System.Guid TalidateDimension Is Before Event: True Input Name args.inputs(4). System.Guid TalidateDimension Is Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S args.inputs(2). System.Strin, args.inputs(3). System.Guid args.inputs(4). System.Guid	Can Cancel: False Can Cancel: False Can Cancel: False chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation Number of Inputs: 5 Transformation
args.inputs(3). System.Guid /alidateDimension In Before Event: True Input Name args.inputs(4). System.Guid /alidateDimension In Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S args.inputs(2). System.Strin, args.inputs(3). System.Guid args.inputs(4). System.Guid /alidateDimension In Before Event: True Input Name	Can Cancel: False Can Cancel: False Can Cancel: False chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation Number of Inputs: 5 Transformation
args.inputs(3). System.Guid TalidateDimension In Before Event: True Input Name args.inputs(4). System.Guid TalidateDimension In Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). System.Strin args.inputs(2). System.Guid args.inputs(3). System.Guid args.inputs(4). System.Guid TalidateDimension In Before Event: True Input Name args.inputs(0). OneStream.S	Can Cancel: False Can Cancel: False Can Cancel: False Chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation Number of Inputs: 5 Transformation
args.inputs(3). System.Guid ValidateDimension Is Before Event: True Input Name args.inputs(4). System.Guid ValidateDimension Is Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). System.Strin args.inputs(2). System.Guid args.inputs(4). System.Guid ValidateDimension Is Before Event: True Input Name args.inputs(0). OneStream.S	Can Cancel: False Can Cancel: False Chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo g Can Cancel: False chared.Wcf.WorkflowUnitPk chared.Wcf.WorkflowUnitPk chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation Number of Inputs: 5 Transformation
args.inputs(3). System.Guid /alidateDimension In Before Event: True Input Name args.inputs(4). System.Guid /alidateDimension In Before Event: False Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S args.inputs(2). System.Guid args.inputs(4). System.Guid /alidateDimension In Before Event: True Input Name args.inputs(0). OneStream.S args.inputs(0). OneStream.S	Can Cancel: False Can Cancel: False Can Cancel: False Chared Wcf WorkflowUnitPk chared Wcf DimensionValidationInfo g Can Cancel: False chared Wcf WorkflowUnitPk chared Wcf WorkflowUnitPk chared Wcf DimensionValidationInfo g	Number of Inputs: 5 Transformation Number of Inputs: 5 Transformation
args.inputs(3). System.Guid /alidateDimension In Before Event: True Input Name args.inputs(4). System.Guid /alidateDimension In Before Event: Fake Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S args.inputs(2). System.Strin args.inputs(3). System.Guid args.inputs(4). System.Guid /alidateDimension In Before Event: True Input Name args.inputs(0). OneStream.S args.inputs(1). OneStream.S args.inputs(1). OneStream.S args.inputs(2). System.Strin args.inputs(2). System.Strin	Can Cancel: False Can Cancel: False Can Cancel: False Chared.Wcf.WorkflowUnitPk Can Cancel: False Can Cancel: False Chared.Wcf.WorkflowUnitPk Chared.Wcf.WorkflowUnitPk Chared.Wcf.DimensionValidationInfo	Number of Inputs: 5 Transformation Number of Inputs: 5 Transformation
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ValidateDimension Is Before Event: False Input Name args.inputs(4). System.Guid SetEventRules Is Before Event: False Input Name args.inputs(0). OneStream.Sha args.inputs(2). System Boolear args.inputs(3). System.Guid EndValidateTransform Is Before Event: False Input Name args.inputs(0). OneStream.Sha args.inputs(2). System.Guid EndValidateTransform Is Before Event: False Input Name args.inputs(2). System.Guid UpdateWorkflowStatus Is Before Event: True Input Name args.inputs(0). OneStream.Sha args.inputs(0). OneStream.Sha args.inputs(0). OneStream.Sha args.inputs(0). OneStream.Sha args.inputs(1). OneStream.Sha args.inputs(3). System.String args.inputs(4). System.String args.inputs(4). System.String	Can Cancel: False red.Wcf.WalidationTrar red.Wcf.WorkflowUnit a Can Cancel: False red.Wcf.WalidationTrar red.Wcf.WorkflowUnit a Can Cancel: True red.Wcf.WorkflowUnit a	Number of Inputs: 5 Transformation Number of Inputs: 4 Instrument of Inputs: 4 Transformation Number of Inputs: 4 Instrument of Inputs: 4 Workflow Number of Inputs: 7	
ValidateDimension Is Before Event: False Input Name args.inputs(4). System.Guid SetEventRules Is Before Event: False Input Name args.inputs(0). OneStream.Sha args.inputs(2). System.Boolear args.inputs(3). System.Guid EndValidateTransform Is Before Event: False Input Name args.inputs(0). OneStream.Sha args.inputs(1). OneStream.Sha args.inputs(2). System.Boolear args.inputs(2). System.Boolear args.inputs(3). System.Guid UpdateWorkflowStatus Is Before Event: True Input Name args.inputs(0). OneStream.Sha args.inputs(1). OneStream.Sha args.inputs(1). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(3). System.String	Can Cancel: False red.Wcf.WalidationTrar red.Wcf.WorkflowUnit a Can Cancel: False red.Wcf.WalidationTrar red.Wcf.WorkflowUnit a Can Cancel: True red.Wcf.WorkflowUnit a	Number of Inputs: 5 Transformation Number of Inputs: 4 Instrument of Inputs: 4 Transformation Number of Inputs: 4 Instrument of Inputs: 4 Workflow Number of Inputs: 7	

UpdateWorkflowStatus			Workflow
Is Before Event: False	Can Cancel:	True	Number of Inputs: 7
Input Name			
args.inputs(0). OneStream.Shar	ed.Wcf.Workflo	owInfo	
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			
FinalizeValidateTransform			Transformation
Is Before Event: False	Can Cancel:	False	Number of Inputs: 4
Input Name			
args.inputs(0). OneStream.Shar			rocessInfo
args.inputs(1). OneStream.Shar	ed.Wcf.Workflo	owUnitPk	
args.inputs(2). System.Boolean			
args.inputs(3). System.Guid			
StartValidateIntersect			Transformation
StartValidateIntersect Is Before Event: True	Can Cancel:	False	Transformation Number of Inputs: 5
Is Before Event: True Input Name			Number of Inputs: 5
Is Before Event: True Input Name args.inputs(0). OneStream.Shar	ed.Wcf.Validat	eIntersectionProcess	Number of Inputs: 5
Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar	ed.Wcf.Validat	eIntersectionProcess	Number of Inputs: 5
In Before Event: True Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(2). System.Boolean	ed.Wcf.Validat ed.Wcf.Workflo	eIntersectionProcess owUnitPk	Number of Inputs: 5
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	ed.Wcf.Validat ed.Wcf.Workflo	eIntersectionProcess owUnitPk	Number of Inputs: 5
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(4). System.Guid	ed.Wcf.Validat ed.Wcf.Workflo	eIntersectionProcess owUnitPk	Number of Inputs: 5
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	ed.Wcf.Validat ed.Wcf.Workflo	eIntersectionProcess owUnitPk	Number of Inputs: 5
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(4). System.Guid	ed.Wcf.Validat ed.Wcf.Workflo	eIntersectionProcess owUnitPk staMode	Number of Inputs: 5
In 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(4). System Guid UpdateWorkflowStatus Is Before Event: True Input Name	ed.Wcf.Validat ed.Wcf.Workflo ed.Wcf.LoadDa Can Cancel:	eIntersectionProcess owUnitPk staMode	Number of Inputs: 5 Unfo Workflow
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(4). System. Guid UpdateWorkflowStatus Is Before Event: True Input Name args.inputs(0). OneStream. Shar	ed.Wcf.Validate ed.Wcf.Workflo ed.Wcf.LoadDa Can Cancel:	eIntersectionProcess owUnitPk staMode True	Number of Inputs: 5 Unfo Workflow Number of Inputs: 7
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(4). System Guid UpdateWorkflowStatus Is Before Event: True Input Name	ed.Wcf.Validated.Wcf.Workflord.Wcf.LoadDa	eIntersectionProcess owUnitPk ttaMode True owInfo epclassificationType	Number of Inputs: 5 Unfo Workflow Number of Inputs: 7

Event Listing

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	red.Wcf.Workflo	owInfo	
args.inputs(1). OneStream.Shar			15
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			
args.inputs(6). System.Guid EndValidateIntersect			Transformation
	Can Cancel:	False	Transformation Number of Inputs: 5
EndValidateIntersect Is Before Event: False Input Name			Number of Inputs: 5
EndValidateIntersect Is Before Event: False Input Name args inputs(0). OneStream.Shar	red.Wcf.Validat	eIntersectionProcessI	Number of Inputs: 5
EndValidateIntersect Ls Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar	red.Wcf.Validat red.Wcf.Workflo	eIntersectionProcessI	Number of Inputs: 5
EndValidateIntersect Is Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(2). System Boolean	red.Wcf.Validat red.Wcf.Workflo	eIntersectionProcessI owUnitPk	Number of Inputs: 5
EndValidateIntersect In Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(2). System Boolean args.inputs(3). OneStream.Shar	red.Wcf.Validat red.Wcf.Workflo	eIntersectionProcessI owUnitPk	Number of Inputs: 5
EndValidateIntersect In Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(2). System Boolean args.inputs(3). OneStream.Shar args.inputs(4). System Guid	red.Wcf.Validat red.Wcf.Workflo	eIntersectionProcessI owUnitPk	Number of Inputs: 5 Info
EndValidateIntersect In Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(2). System Boolean args.inputs(3). OneStream.Shar	red.Wcf.Validat red.Wcf.Workflo	eIntersectionProcessI owUnitPk	Number of Inputs: 5
EndValidateIntersect In Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(1). OneStream.Shar args.inputs(2). System.Boolean args.inputs(3). OneStream.Shar args.inputs(4). System.Guid	red.Wcf.Validat red.Wcf.Workflo	eIntersectionProcessI owUnitPk staMode	Number of Inputs: 5 Info
EndValidateIntersect Is Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(2). OneStream.Shar args.inputs(2). System Boolean args.inputs(3). OneStream.Shar args.inputs(4). System.Guid UpdateWorkflowStatus Is Before Event: True Input Name	red.Wcf.Validat red.Wcf.Workflo red.Wcf.LoadDa Can Cancel:	eIntersectionProcessI owUnitPk staMode	Number of Inputs: 5 Info Workflow
EndValidateIntersect La Before Event: False Laput Name args.inputs(0). OneStream.Shar args.inputs(2). OneStream.Shar args.inputs(2). System.Boolean args.inputs(3). OneStream.Shar args.inputs(4). System.Guid UpdateWorkflowStatus La Before Event: True Laput Name args.inputs(0). OneStream.Shar	red.Wcf.Validate red.Wcf.Workfle red.Wcf.LoadDa Can Cancel:	eIntersectionProcessI owUnitPk staMode True owInfo	Number of Inputs: 5 Info Workflow Number of Inputs: 7
EndValidateIntersect In Before Event: False Input Name args.inputs(0). OneStream.Shar args.inputs(2). OneStream.Shar args.inputs(3). OneStream.Shar args.inputs(3). OneStream.Shar args.inputs(4). System.Guid UpdateWorkflowStatus In Before Event: True Input Name	red.Wcf.Validat red.Wcf.Workfle red.Wcf.LoadDa Can Cancel: red.Wcf.Workfle red.Common.Ste	eIntersectionProcessI owUnitPk attaMode True owInfo epcClassificationType	Number of Inputs: 5 Info Workflow Number of Inputs: 7

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.WorkflowInfo		
args.inputs(1). OneStream.Shar	ed.Common.StepClassifica	tionTypes	
args.inputs(2). OneStream.Shar	ed.Common.WorkflowStat	us Types	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
FinalizeValidateIntersect		Transformation	
Is Before Event: False	Can Cancel: False	Number of Inputs: 5	
Input Name			
args.inputs(0). OneStream.Shar		nProcessInfo	
args.inputs(1). OneStream.Shar	ed.Wcf.WorkflowUnitPk		
args.inputs(2). System.Boolean			
args.inputs(3). OneStream.Shar	ed.Wcf.LoadDataMode		
args.inputs(4). System.Guid			
UpdateWorkflowStatus		Workflow	
Is Before Event: True	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.WorkflowStat	usTypes	

pdateWorkflowStatus		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			
pdateWorkflowStatus		Workflow	
Is Before Event: False	Can Cancel: True	Number of Inputs: 7	
Input Name			
args.inputs(0). OneStream.Sha	red.Wcf.WorkflowInfo		
args.inputs(1). OneStream.Sha		nTvnes	
args.inputs(2). OneStream.Sha			
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid			
pdateWorkflowStatus		Workflow	
Is Before Event: True	Can Cancel: True	Number of Inputs: 7	
	Can Cancei: 1rue	Number of Inputs: /	
Input Name	and Was Warles		
args.inputs(0). OneStream.Sha		-T	
args.inputs(1). OneStream.Sha			
args.inputs(2). OneStream.Sha	red.Common.WorkflowStatus1	ypes	
args.inputs(3). System.String			
args.inputs(4). System.String			
args.inputs(5). System.String			
args.inputs(6). System.Guid		Workflow	
pdateWorkflowStatus			
	Can Cancel: True	Number of Inputs: 7	
podateWorkflowStatus La Before Event: False Laput Name args.inputs(0). OneStream.Sha		Number of Inputs: 7	
In Before Event: False Input Name args.inputs(0). OneStream.Sha	red.Wcf.WorkflowInfo	Number of Inputs: 7 Workflow	
In Before Event: False Input Name arga.inputs(0). OneStream.Sha DelateWorkflowStatus In Before Event: False		Number of Inputs: 7	
pdateWorkflowStatus Is Before Event: Fake Input Name arga.inputs(0). OneStream.Sha pdateWorkflowStatus Is Before Event: Fake Input Name	red.Wcf.WorkflowInfo Can Cancel: True	Number of Inputs: 7 Workflow Number of Inputs: 7	
Is Before Event: False Input Name args.inputs(0). OneStream.Sha pdateWorkflowStatus Is Before Event: False Input Name args.inputs(1). OneStream.Sha	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification	Number of Inputs: 7 Workflow Number of Inputs: 7	
Is Before Event: False Input Name args.inputs(0). OneStream.Sha DodateWorkflowStatus La Before Event: False Input Name args.inputs(1). OneStream.Sha args.inputs(2). OneStream.Sha	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification	Number of Inputs: 7 Workflow Number of Inputs: 7	
In Before Event: False Input Name args.inputs(0). OneStream.Sha DodateWorkflowStatus In Before Event: False Input Name args.inputs(1). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(3). System.String	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification	Number of Inputs: 7 Workflow Number of Inputs: 7	
In Before Event: False Input Name arga.inputs(0). OneStream.Sha DateWorkflowStatus In Before Event: False Input Name arga.inputs(1). OneStream.Sha arga.inputs(2). OneStream.Sha arga.inputs(3). System.String arga.inputs(4). System.String	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification	Number of Inputs: 7 Workflow Number of Inputs: 7	
In Before Event: False Input Name arga.inputs(0). OneStream.Sha Date WorkflowStatus In Before Event: False Input Name arga.inputs(1). OneStream.Sha arga.inputs(2). OneStream.Sha arga.inputs(3). System.String arga.inputs(4). System.String arga.inputs(5). System.String	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification	Number of Inputs: 7 Workflow Number of Inputs: 7	
Input Name arga.inputs(0). OneStream.Sha Input Name arga.inputs(0). OneStream.Sha Input Name Input Name arga.inputs(1). OneStream.Sha arga.inputs(2). OneStream.Sha arga.inputs(3). System.String arga.inputs(4). System.String arga.inputs(5). System.String arga.inputs(6). System.String	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification	Number of Inputs: 7 Workflow Number of Inputs: 7 nTypes Types	
pdateWorkflowStatus Is Before Event: False Input Name args.inputs(0). OneStream.Sha pdateWorkflowStatus 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.Guid	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification red.Common.WorkflowStatus I	Number of Inputs: 7 Workflow Number of Inputs: 7 nTypes Types SaveData	
Input Name arga.inputs(0). OneStream.Sha Input Name arga.inputs(0). OneStream.Sha Input Name Input Name arga.inputs(1). OneStream.Sha arga.inputs(2). OneStream.Sha arga.inputs(3). System.String arga.inputs(4). System.String arga.inputs(5). System.String arga.inputs(6). System.String	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification	Number of Inputs: 7 Workflow Number of Inputs: 7 nTypes Types	
Is Before Event: False Input Name args.inputs(0). OneStream.Sha Date WorkflowStatus 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.Guid Is Before Event: True Input Name	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification red.Common.WorkflowStatus I	Number of Inputs: 7 Workflow Number of Inputs: 7 uTypes Types SaveData Number of Inputs: 0	
Input Name args.inputs(0). OneStream.Sha Input Name args.inputs(0). OneStream.Sha Input Name args.inputs(1). OneStream.Sha Input Name args.inputs(2). 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.Guid Input Name args.inputs(0). SAVE DATA E	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification red.Common.WorkflowStatus I	Number of Inputs: 7 Workflow Number of Inputs: 7 nTypes Types SaveData Number of Inputs: 0	
podateWorkflowStatus Is Before Event: False Input Name args.inputs(0). OneStream.Sha DodateWorkflowStatus Is Before Event: False Input Name args.inputs(1). OneStream.Sha args.inputs(2). 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.Guid Executed Data Is Before Event: True Input Name args.inputs(0). SAVE DATA E artLoadIntersect	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification red.Common.WorkflowStatus I	Number of Inputs: 7 Workflow Number of Inputs: 7 uTypes Types SaveData Number of Inputs: 0	
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podateWorkflowStatus In Before Event: False Input Name args.inputs(0). OneStream.Sha DodateWorkflowStatus In Before Event: False Input Name args.inputs(1). OneStream.Sha args.inputs(2). OneStream.Sha args.inputs(3). System.String args.inputs(3). System.String args.inputs(5). System.String args.inputs(6). System.Guid In Before Event: True Input Name args.inputs(0). SAVE DATA E artLoadIntersect In Before Event: True Input Name	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification red.Common.WorkflowStatus I Can Cancel: True EVENT IS USED FOR DEBUG Can Cancel: False	Number of Inputs: 7 Workflow Number of Inputs: 7 nTypes Types SaveData Number of Inputs: 0 G ONLY Transformation Number of Inputs: 5	
pdateWorkflowStatus Is Before Event: False Input Name args.inputs(0). OneStream.Sha DateWorkflowStatus 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.Guid Is Before Event: True Input Name args.inputs(0). SAVE DATA E artLoadIntersect Is Before Event: True Input Name args.inputs(0). OneStream.Sha	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification red.Common.WorkflowStatus I Can Cancel: True EVENT IS USED FOR DEBUG Can Cancel: False red.Wcf.LoadCubeProcessInfo	Number of Inputs: 7 Workflow Number of Inputs: 7 nTypes Types SaveData Number of Inputs: 0 G ONLY Transformation Number of Inputs: 5	
pdateWorkflowStatus Is Before Event: False Input Name args.inputs(0). OneStream.Sha DateWorkflowStatus 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.Guid Input Name args.inputs(0). SAVE DATA F Before Event: True Input Name args.inputs(0). OneStream.Sha args.inputs(0). OneStream.Sha args.inputs(0). OneStream.Sha args.inputs(0). OneStream.Sha	red.Wcf.WorkflowInfo Can Cancel: True red.Common.StepClassification red.Common.WorkflowStatus 1 Can Cancel: True EVENT IS USED FOR DEBUG Can Cancel: False red.Wcf.LoadCubeProcessInfo red.Wcf.LoadCubeProcessInfo red.Wcf.WorkflowUnitPk	Number of Inputs: 7 Workflow Number of Inputs: 7 nTypes Types SaveData Number of Inputs: 0 G ONLY Transformation Number of Inputs: 5	
pdateWorkflowStatus Is Before Event: False Input Name arga.inputs(0). OneStream.Sha DateWorkflowStatus Is Before Event: False Imput Name arga.inputs(1). OneStream.Sha arga.inputs(2). OneStream.Sha arga.inputs(3). System.String arga.inputs(4). System.String arga.inputs(5). System.String arga.inputs(6). System.String arga.inputs(6). System.Guid Is Before Event: True Input Name arga.inputs(0). SAVE DATA E Before Event: True Is Defore Event: True Is Defore Event: True Is Defore Event: True Service Input Name arga.inputs(0). OneStream.Sha arga.inputs(1). OneStream.Sha arga.inputs(1). OneStream.Sha	can Cancel: True can Cancel: True red.Common.StepClassification red.Common.WorkflowStatus I Can Cancel: True EVENT IS USED FOR DEBUG Can Cancel: False red.Wcf.LoadCubeProcessInforred.Wcf.WorkflowUnitPk a	Number of Inputs: 7 Workflow Number of Inputs: 7 nTypes Types SaveData Number of Inputs: 0 G ONLY Transformation Number of Inputs: 5	
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StartLoadIntersect

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Transformation

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Finance Functions APIs

Member ID

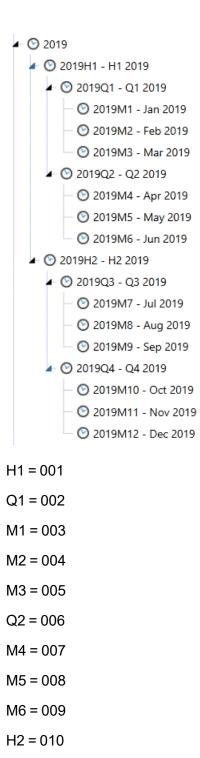
There are many functions that use MemberID as an integer to pass in as a property. These functions get the current POV of the specific Dimension member to perform a variety of tasks, such as:

- Get Current Year based on Time POV
 - Example: Api.Time.GetYearFromId(api.Pov.Time.MemberId)
- Get Text field value from Entity POV
 - Example: Api.Entity.Text(api.Pov.Entity.MemberId, 1)
- Get Account Type based on current Account POV
 - Example: Api.Account.GetAccountType(api.Pov.Account.MemberId)

When working with formulas and calculations, it is better to work with Memberld versus Member Name.

Api.Pov.Time.MemberId

Api.Pov.Time.MemberId is obtained from the Time Member Id for the current POV being executed during the calculation. The Time.MemberId is stored as an unique integer to represent a single Time member. The uniqueness is determined by the combination of the Year and Period.



Q3 = 011

M7 = 012

Member ID

```
M8 = 013
```

M9 = 014

Q4 = 015

M10 = 016

M11 = 017

M12 = 018

The Time Memberld is constructed like this: 2019003000

The api.Pov.Time.MemberId is used as a property in many functions. Here are some of the most common functions:

- · api.Time.GetYearFromId
- api.Time.GetPeriodNumFromId
- api.Time.GetNumDaysInTimePeriod
- api.Time.AddTimePeriods
- · api.Time.AddYears

Api.Pov.Time.MemberId Usage

Example using api.Pov.Time.MemberId:

```
Dim timeId As Integer = api.Pov.Time.MemberId
BRApi.ErrorLog.LogMessage(si, "TimeId = " & timeId)
```

ErrorLog result:

```
Timeld = 2018003000
```

Example using api.Pov.Time.MemberId in a working formula:

```
'Get Current Year as Integer Based on Current POV TimeId

Dim curYear As Integer = api.Time.GetYearFromId(api.Pov.Time.MemberId)

Function ITimeApi.GetYearFromId(Optional timeId As Integer) As Integer

'Execute Formula only if Current Year is Greater Than or Equal to 2018

If curYear >= 2018 Then

'Only Run for Base Entities and at Local Currency

If (Not api.Entity.HasChildren() And (api.Cons.IsLocalCurrencyforEntity())) Then

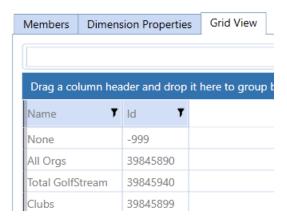
api.Data.Calculate("A#CashCalc = A#10000")

End If

End If
```

Api.Pov.Entity.MemberId

Api.Pov.Entity.MemberId is obtained from the Entity Member Id for the current Entity POV being executed during the calculation. The Entity.MemberId is stored as a unique integer to represent a single Entity member. The Entity Member Id is also found using the Grid View in the Entity Dimension Library.



Api.Pov.Entity.MemberId is used as a property in many functions. Here are some of the most common functions:

- Get Local Currency Id for current Entity POV.
 - Example: api.Entity.GetLocalCurrencyld(api.Pov.Entity.MemberId)
- Get Local Currency Cons Member Name for current Entity POV.

- Example:
 api.Entity.GetLocalCurrencyConsMember(api.Pov.Entity.MemberId).Name
- Get value in Text Field for Dimension Members prior to executing formula calculation.
 - Example: api.Entity.Text(api.Pov.Entity.MemberId, 1)
- Get Percent Consolidation for Parent Child Relationship and specific to user localization. Can also determine by Scenario Type and Time.
 - Example: api.Entity.PercentConsolidation(api.Pov.Entity.MemberId, api.Pov.Parent.MemberId, api.Pov.ScenarioTypeId, api.Pov.Time.MemberId).XFToStringForFormula
- Get Percent Ownership for Parent Child Relationship and specific to user localization. Can also determine by Scenario Type and Time.
 - Example: api.Entity.PercentOwnership(api.Pov.Entity.MemberId, api.Pov.Parent.MemberId, api.Pov.ScenarioTypeId, api.Pov.Time.MemberId).XFToStringForFormula

Api.Pov.Entity.MemberId Usage

Example using api.Pov.Entity.MemberId:

```
Dim entityId As Integer = api.Pov.Entity.MemberId
    BRApi.ErrorLog.LogMessage(si, "EntityId = " & entityId)
```

ErrorLog Result:

Entityld = 29360129

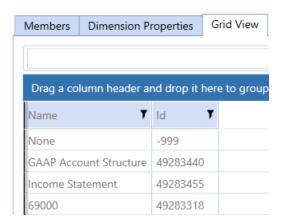
Example using api.Pov.Entity.MemberId in a working formula:

```
'Get Text Value in Entity Text 1 Field for Current Entity POV
Dim entityText As String = api.Entity.Text(api.Pov.Entity.MemberId, 1)

'Only Run For Base Entities And at Local Currency
If (Not api.Entity.HasChildren() And (api.Cons.IsLocalCurrencyforEntity())) Then
    'Execute Formula if Entity has NA in the Entity Text 1 Field
    If entityText.XFEqualsIgnoreCase("NA") Then
        api.Data.Calculate("A#CashCalc = A#10000")
    End If
Find If
```

Api.Pov.Account.MemberId

Api.Pov.Account.MemberId is obtained from the Account Member Id for the current Account POV being executed during the calculation. The Account.MemberId is stored as a unique integer to represent a single Account member. The Account Member Id is also found using the Grid View in the Account Dimension Library.



Api.Pov.Account.MemberId is used as a property in many functions. Here are some of the most common functions:

- Get Account Type based on current Account POV
 - Example: api.Account.GetAccountType(api.Pov.Account.MemberId)
- Get value in Text Field for Dimension Members prior to executing formula calculation
 - Example: api.Account.Text(api.Pov.Account.MemberId, 1)

Api.Pov.Account.MemberId Usage

Example using api.Pov.Account.MemberId:

```
Dim accountType As AccountType = api.Account.GetAccountType(api.Pov.Account.MemberId)
BRApi.ErrorLog.LogMessage(si, "AccountType = " & accountType.ToString)
```

ErrorLog Result:

AccountType = Revenue

Example using api.Pov.Account.MemberId in a working formula:

```
'Get Account Type of Account and Use Specific FX Rate Type for Specific Account Types. Used in FinanceFunctionType.FXRate or Dynamic Calc Dim accountType As String = api.Account.GetAccountType(api.Pov.Account.MemberId).ToString Dim rateType As String = "ClosingRate"

If accountType = "Asset" Then

Dim rate As Decimal = api.FxRates.GetCalculatedFxRate(rateType, api.Pov.Time.MemberId, args.FxRateArgs.SourceCurrencyId, args.FxRateArgs.DestCurrencyId) Return New FxRateResult(rate)

End If
```

Dimension Primary Key - DimPk

DimPk is known as Dimension Primary Key. This is a unique primary key that is assigned to Dimensions when they are created. It is a combination of the DimTypeId and the DimId.

DimPk is commonly used to identify which Dimension should be used when checking for members as base members or descendants in a specific Dimension. DimPk is commonly used in the following functions:

- · Get Dimension Primary Key of a Specific Dimension
 - Example: api.Dimensions.GetDim("UD1DimName").DimPk
- Check if it is a Base Member of a Specific Ancestor
 - Example: api.Members.IsBase(dimPk, ancestorMemberId, baseMemberId, dimDisplayOptions)
- Get Base Members of Parent from GetMember
 - Example: api.Members.GetBaseMembers(api.Pov.UD1Dim.DimPk, parent.MemberId, Nothing)

DimPK Usage

Example using DimPK:

```
Dim dimPK As DimPk = api.Dimensions.GetDim("CostCenters").DimPk

BRapi.ErrorLog.LogMessage(si, "DimPk for CostCenters = " & dimPK.ToString)

ErrorLog Result:

DimPk for CostCenters = DimTypeld: 9, DimId: 17
```

Example using api.Pov.UD1Dim.DimPk in a working formula:

Dimension Primary Key - DimPk

```
'Retrieve Base Members of Services in UD1 to Use in GetDataCell Loop
Dim parent As Member = api.Members.GetMember(DimType.UD1.Id, "Services")
Dim serviceNames As List(Of Member) = api.Members.GetBaseMembers(api.Pov.UD1Dim.DimPk, parent.MemberId, Nothing)

'Loop through all the Service Base Members
If Not serviceNames Is Nothing Then
For Each serviceNames As Member In serviceNames
'GetDataCell for All Service Base Members as String and Decimal
Dim serviceNameCellString As String = ("E#Houston:C#Local:S#Actual:T#2019M1:V#Periodic:A#Dept_Intersection:F#None:O#Forms:I#None:U1#" & serviceName.Name & ":
Dim serviceNameCell As Decimal = api.Data.GetDataCell(serviceNameCellString).CellAmount
Next
End If
```

Dimension Type Id

Dimension Type Id is a property of DimPk. The Dimension Type Id is a unique integer Id that is assigned to a Dimension. The DimTypeId is found in the Dim table and the DimTypeId represents each Dimension.

- Entity = 0
- Scenario = 2
- Account = 5
- Flow = 6
- UD1 = 9
- UD2 = 10
- UD3 = 11
- UD4 = 12
- UD5 = 13
- UD6 = 14
- UD7 = 15
- UD8 = 16

The DimTypeld is used in various functions. DimTypeld is most commonly used with the GetMember or GetMemberId functions where the first property in the function is DimTypeld. In this case, GetMember and GetMemberId needs to know which Dimension Id to use for the member the function is looking for.

- Get a specific Member in a specific Dimension
 - Example: api.Members.GetMember(DimType.Account.ld, "AcctMemberName")
- Get Member Id for a specific Member in a specific Dimension
 - Example: api.Members.GetMemberId(DimType.Account.Id, "AcctMemberName")

DimTypeID Usage

Example using DimTypeld:

```
Dim dimTypeId As Integer = DimType.Account.Id
    BRApi.ErrorLog.LogMessage(si, "DimTypeID for Account = " & dimTypeId.ToString)
```

ErrorLog Result:

DimTypeID for Account = 5

Example using DimType.Account.Id in a working formula:

```
'Get Cash Account Member and Store as a Variable to Pass into Api.Data.Calculate Dim acctMember As Member = api.Members.GetMember(DimType.Account.Id, "10000") api.Data.FormulaVariables.SetMemberVariable("variableAccount",acctMember) api.Data.Calculate("A#CashCalc= A$variableAccount * 100")
```

Data Unit Dimension POV

Stored calculations run based on the Data Unit POV. The Data Unit Dimension consists of Cube, Entity, Parent, Consolidation, Time, and Scenario.

Because stored calculations run off Data Unit Dimensions, these Dimensions are used as part of If Statements to execute calculations on conditions. The Data Unit Dimensions should not be used as destination data buffers, and should not be used on the left hand side of the equation in a api.Data.Calculate formula.

Account related Dimensions such as Account, Flow, and UD's are not available at run-time of the calculations. Therefore, they cannot be used in the If Statements for stored calculations. However, they are available for Dynamic Calculations.

Run for POV and Check Member Names for Data Unit Dimensions Before Executing Calculation:

- If api.Pov.Cube.Name.XFEqualsIgnoreCase("CubeName") Then
- If api.Pov.Entity.Name.XFEqualsIgnoreCase("EntityName") Then
- If api.Pov.Scenario.Name.XFEqualsIgnoreCase("ScenarioName") Then
- If api.Pov.Cons.Name.XFEqualsIgnoreCase("USD") Then

Data Unit Dimension POV Usage

Example using api.Pov.Entity.Name:

```
Dim entityPovName As String = api.Pov.Entity.Name
BRApi.ErrorLog.LogMessage(si, "Entity Pov Name = " & entityPovName)
```

ErrorLog Result:

```
Entity Pov Name = Houston Heights
```

Example using api.Pov.Entity.Name in a working formula:

```
'Only Run Calculation For Houston Heights

If api.Pov.Entity.Name.XFEqualsIgnoreCase("Houston Heights") Then
api.Data.Calculate("A#CashCalc = A#10000")

End If
```

Data Unit Dimension POV

```
'Only Run Calculation For Houston Heights
Dim entityPovName As String = api.Pov.Entity.Name

If entityPovName.XFEqualsIgnoreCase("Houston Heights") Then
    api.Data.Calculate("A#CashCalc = A#10000")
End If
```

Time Functions

The following APIs are some of the most common time functions:

- · api.Time.GetYearFromId
- api.Time.GetPeriodNumFromId
- api.Time.GetNumDaysInTimePeriod
- api.Time.AddTimePeriods
- api.Time.AddYears

Api.Time.GetYearFromId

This function gets the year from the current POV Time Id. It evaluates the year and then introduces logic to execute the formula.

```
'Get Current Year as Integer Based on Current POV TimeId

Dim curYear As Integer = api.Time.GetYearFromId(api.Pov.Time.MemberId)

Function ITimeApi.GetYearFromId(Optional timeId As Integer) As Integer

'Execute Formula only if Current Year is Greater Than or Equal to 2018

If curYear >= 2018 Then

'Only Run for Base Entities and at Local Currency

If (Not api.Entity.HasChildren() And (api.Cons.IsLocalCurrencyforEntity())) Then

api.Data.Calculate("A#CashCalc = A#10000")

End If

End If
```

Api.Time.GetPeriodNumFromId

This function gets the period number from the current POV Time Id. The period is static and is configured with either months or weeks followed by the period number. For example: M1 – M12 or W1 – W54. It evaluates the period number and then introduces logic to execute the formula.

Api.Time.GetPeriodNumFromId Usage

Example using api.Time.GetPeriodNumFromId:

```
'Get Current Period As Integer Based on Current POV TimeId

Dim curPeriod As Integer = api.Time.GetPeriodNumFromId(api.Pov.Time.MemberId)

BRApi.ErrorLog.LogMessage(si, "Period Number = " & curPeriod)
```

ErrorLog Result:

```
Period Number = 1
```

Example using api. Time. GetPeriodNumFromId in a working formula:

```
'Get Time Member Id to Get Year and Period

Dim timeId As Integer = api.Pov.Time.MemberId

'Get Current Year As Integer Based On Current POV TimeId

Dim curYear As Integer = api.Time.GetYearFromId(api.Pov.Time.MemberId)

'Get Current Period As Integer Based on Current POV TimeId

Dim curPeriod As Integer = api.Time.GetPeriodNumFromId(api.Pov.Time.MemberId)

Punction ITimeApi.GetPeriodNumFromId(Optional timeId As Integer) As Integer

'Execute Formula only if Current Year is Greater Than or Equal to 2018

'AND Current Period Number is Greater Than or Equal to 1

If curYear >= 2018 And curPeriod >= 1 Then

'Only Run for Base Entities and at Local Currency

If (Not api.Entity.HasChildren() And (api.Cons.IsLocalCurrencyforEntity())) Then

api.Data.Calculate("A#CashCalc = A#10000")

End If

End If
```

Api.Time.GetNumDaysInTimePeriod

This function gets the number of days from the current POV Time Id. The number of days are already programmed depending on the month that is selected. It evaluates the number of days for a period and then introduces logic to execute the formula.

Api.Time.GetNumDaysInTimePeriod Usage

Example using api.Time.GetNumDaysInTimePeriod:

```
'Get Current Number of Days in Time Period

Dim numDays As Integer = api.Time.GetNumDaysInTimePeriod(api.Pov.Time.MemberId)

BRApi.ErrorLog.LogMessage(si, "Number of Days in Period = " & numDays)
```

ErrorLog Result:

```
Number of Days in Period = 31
```

Example using api. Time. GetNumDaysInTimePeriod in a working formula:

```
'Get Time Member Id to Get Year and Period
Dim timeId As Integer = api.Pov.Time.MemberId
'Get Current Year As Integer Based On Current POV TimeId
Dim curYear As Integer = api.Time.GetYearFromId(api.Pov.Time.MemberId)
'Get Current Period As Integer Based on Current POV TimeId
Dim curPeriod As Integer = api.Time.GetPeriodNumFromId(api.Pov.Time.MemberId)
'Get Current Number of Days in Time Period
Dim numDays As Integer = api.Time.GetNumDaysInTimePeriod(api.Pov.Time.MemberId)
                                   Function ITimeApi.GetNumDaysInTimePeriod(Optional timeId As Integer) As Integer
'Execute Formula only if Current Year is Greater Than or Equal to 2018
'AND Current Period Number is Greater Than or Equal to 1
'AND Number of Days is Greater Than or Equal to 30 Days
If (curYear >= 2018 And curPeriod >= 1 And numDays >= 30) Then
    'Only Run for Base Entities and at Local Currency
    If (Not api.Entity.HasChildren() And (api.Cons.IsLocalCurrencyforEntity())) Then
       api.Data.Calculate("A#CashCalc = A#10000")
    End If
End If
```

Api.Time.AddTimePeriods

This function adds time periods to the current POV Time Id. It passes that data to different functions like GetPeriodNumFromId and then introduces logic to execute the formula.

Api.Time.AddTimePeriods Usage

Example using api. Time. Add Time Periods:

```
'Get Current Time Member Id, Add 2 Periods, and Ok to Span Years
'Example: Current Time Member Id = 2018003000. Add 2 Periods, Then Member Id = 2018005000

Dim addTime As Integer = api.Time.AddTimePeriods(api.Pov.Time.MemberId, 2, True)

BRApi.ErrorLog.LogMessage(si, "Add Time Periods = " & addTime)
```

ErrorLog Result:

Add Time Periods = 2018005000

Example using api. Time. Add Time Periods in a working formula:

```
'Get Time Member Id to Get Year and Period
Dim timeId As Integer = api.Pov.Time.MemberId

'Get Current Time Member Id, Add 2 Periods, and Ok to Span Years

'Example: Current Time Member Id = 2018003000. Add 2 Periods, Then Member Id = 2018005000
Dim addTime As Integer = api.Time.AddTimePeriods(api.Pov.Time.MemberId, 2, True)

□ Function ITimeApi.AddTimePeriods(timeId As Integer, numTimePeriodsToAdd As Integer, okToSpanYears As Boolean) As Integer

'Get Period from Add Time Period and Pass in GetPeriodNumFromId
Dim periodNum As Integer = api.Time.GetPeriodNumFromId(addTime)

'Execute Formula Only in Mar Period
If periodNum = 3 Then

'Only Run for Base Entities and at Local Currency
If (Not api.Entity.HasChildren() And (api.Cons.IsLocalCurrencyforEntity())) Then
api.Data.Calculate("A#CashCalc = A#10000")
End If
End If
```

Api.Time.AddYears

This function adds years to the current POV Time Id. It passes that data to different functions like GetYearFromId or GetPeriodNumFromId and then introduces logic to execute the formula.

Api.Time.AddYears Usage

Example using api. Time. Add Years:

```
'Get Current Time Member Id and Add 2 Years
'Example: Current Time Member Id = 2018003000. Add 2 Years, Then Member Id = 2020003000
Dim addYears As Integer = api.Time.AddYears(api.Pov.Time.MemberId, 2)
BRApi.ErrorLog.LogMessage(si, "Added 2 Years To Current Time POV = " & addYears)
```

ErrorLog Result:

Added 2 Years To Current Time POV = 2020003000

Example using api. Time. AddYears in a working formula:

Time Functions

```
'Get Current Time Member Id and Add 2 Years

'Example: Current Time Member Id = 2018003000. Add 2 Years, Then Member Id = 2020003000

Dim addYears As Integer = api.Time.AddYears(api.Pov.Time.MemberId, 2)

□ Function ITimeApi.AddYears(timeId As Integer, numYearsToAdd As Integer) As Integer

'Get Year from addYears and Pass it in for GetYearFromId function

Dim futureYear As Integer = api.Time.GetYearFromId(addYears)

'Execute Formula Only in Year 2020

If futureYear = 2020 Then

'Only Run for Base Entities and at Local Currency

If (Not api.Entity.HasChildren() And (api.Cons.IsLocalCurrencyforEntity())) Then

api.Data.Calculate("A#CashCalc = A#10000")

End If

End If
```

Using Member Functions for Calculations

Calculation Member functions are commonly used through the Finance Api's for accessing general information for any specified Member within a dimension. The Member functions allow a rule writer to identify members, get member information, and identify base and parent members to execute within Member Formulas and Business Rules.

The following are some of the most common Member functions for calculations:

- GetMember
- GetMemberID
- GetBaseMembers

GetMember

This function gets a specific dimension member. It is used for different functions like api.Data.FormulaVariables, GetBaseMembers function, custom member lists, and when working with Member Id within data buffers for processes like custom consolidation.

GetMember Usage

Example using GetMember:

ErrorLog Result:

Member Property Info = DimTypeld: 5, Memberld: 39845888, Name: 10000, Description: Petty Cash, Dimld: 38

Example using GetMember in a working formula:

```
'Get Cash Account Member and Store as a Variable to Pass into Api.Data.Calculate Dim acctMember As Member = api.Members.GetMember(DimType.Account.Id, "10000") api.Data.FormulaVariables.SetMemberVariable("variableAccount",acctMember) api.Data.Calculate("A#CashCalc= A$variableAccount * 100")
```

GetMemberId

This function gets a specific dimension member Id. This technique is commonly used when working with source Data Buffers where the cells for a specific member Id need to be changed.

GetMemberID Usage

Example using GetMemberId:

```
Dim getMemberId As Integer = api.Members.GetMemberId(DimType.Account.Id, "10000")
BRapi.ErrorLog.LogMessage(si, "Member Id for 10000 = " & getMemberId.ToString)
```

ErrorLog Result:

Member Id for 10000 = 39845888

Example using GetMemberId in a working formula:

```
'Get Member Id for CashCalc Account
Dim cashCalcId As Integer = api.Members.GetMemberId(DimType.Account.Id, "CashCalc")
'Create a data buffer with the cells from S#Actual:A#10000 and copy the cells to S#ActualCopy:A#CashCalc
Dim destinationInfo As ExpressionDestinationInfo = api.Data.GetExpressionDestinationInfo("S#ActualCopy")
Dim sourceDataBuffer As DataBuffer = api.Data.GetDataBuffer(DataApiScriptMethodType.Calculate, "S#Actual:A#10000", destinationInfo)
'Check that the source Data Buffer exists
If Not sourceDataBuffer Is Nothing Then
    'Create a new result data buffer for data cells
    Dim resultDataBuffer As DataBuffer = New DataBuffer()
    'Loop through source data cells from the source data buffer
    For Each sourceCell As DataBufferCell In sourceDataBuffer.DataBufferCells.Values
        'Only get source cells that have data
       If (Not sourceCell.CellStatus.IsNoData) Then
            'Copy the cell from 10000 - Petty Cash to CashCalc Account in ActualCopy Scenario
            'The source data buffer contains source data cells with 10000 - Petty Cash AccountId
            'Change the source Account Id for 10000 - Petty Cash with the CashCalc Account Id
            Dim resultCell As New DataBufferCell(sourceCell)
            resultCell.DataBufferCellPk.AccountId = cashCalcId
            resultDataBuffer.SetCell(api.DbConnApp.SI, resultCell)
    Next
    'Set Destination Data Buffer with new Data Buffer with new cells including the CashCalc AccountId
    api.Data.SetDataBuffer(resultDataBuffer, destinationInfo)
End If
```

GetBaseMembers

This function gets base members from a specific parent member. It is commonly used when working with Member Lists as part of FinanceFunctionType.MemberList, or to get base members to loop through specific dimensions for api.Data.GetDataCell.

GetBaseMembers Usage

Example using GetBaseMembers:

ErrorLog Result:

Using Member Functions for Calculations

```
List of Base Members = DimTypeld: 9, Memberld:
17825805, Name: GroundsMaint, Description: Ground
Maintenance, Dimld: 17

List of Base Members = DimTypeld: 9, Memberld:
17825797, Name: EquipMaint, Description: Equipment
Maintenance, Dimld: 17

List of Base Members = DimTypeld: 9, Memberld:
17825804, Name: GolfPros, Description: Golf Pro Staff,
Dimld: 17

List of Base Members = DimTypeld: 9, Memberld:
17825814, Name: ProShop, Description: ProShop Retail,
```

Example using GetBaseMembers in a working formula:

```
'Retrieve Base Members of Services in UD1 to Use in GetDataCell Loop
Dim parent As Member = api.Members.GetMember(DimType.UD1.Id, "Services")
Dim serviceNames As List(Of Member) = api.Members.GetBaseMembers(api.Pov.UD1Dim.DimPk, parent.MemberId, Nothing)

'Loop through all the Service Base Members
If Not serviceNames Is Nothing Then
For Each ServiceNames, Is Nothing Then
For Each ServiceName. As Member In serviceNames

'GetDataCell for All Service Base Members as String, Decimal, and for International Rule Writing
Dim serviceNameCellString As String = ("E#Houston:C#Local:S#Actual:T#2019M1:V#Periodic:A#Dept_Intersection:F#None:O#Forms:I#None:U1#" & serviceName.Name & ":U2#UD1Default:
Dim serviceNameCell As Decimal = api.Data.GetDataCell(ServiceNameCellString).CellAmount
Dim serviceNameCellText As String = serviceNameCell.ToString("G", CultureInfo.InvariantCulture)

'Check cell amount for intersection and then introduce logic based on cell amount
'Use Data Buffer logic or api.Data.Calculate with SetDataBufferVariable function when in loop
Next
For If
```

Writing Stored Calculations

When writing a Member Formula or a Business Rule for a Stored Calculation, the new calculated numbers store data for that Cube, Entity, Parent, Cons, Scenario, and Time combination. For example, a Data Unit.

Return is never seen in a Member Formula for Formula Pass. Instead of being returned, many numbers are calculated and stored. When running a Calculation, Translation, or Consolidation, it calls the Member Formula once for an entire Data Unit. OneStream does not tell with which Account, Flow, or User Defined the numbers are being saved.

Initially, this may be confusing because Member Formulas are often written in an account's Formula property, and administrators believe OneStream will only allow that specific Member Formula to write to that specific account. However, putting a Member Formula in an account's Formula property is only for organizational purposes. When OneStream calls that formula, it is currently calculating a Data Unit and will initialize the API engine with only the Data Unit Dimensions.

Basic stored formulas are commonly used via the Api.Data.Calculate api function. Api.Data.Calculate is used in three different ways:

 Api.Data.Calculate using Formula as String, Overload Functions, Eval Function, and IsDurableCalculatedData

```
api.Data.Calculate()

A 1 of 3 V Sub DataApi.Calculate(formula As String, Optional accountFilter As String, Optional flowFilter As String, Optional originFilter As String, Optional idFilter As String, Optional udFilter As String, Optional udFilter
```

Api.Data.Calculate using Formula as String and IsDurableCalculatedData

```
api.Data.Calculate()

▲ 2 of 3 ▼ ② Sub DataApi.Calculate(formula As String, isDurableCalculatedData As Boolean)
```

Api.Data.Calculate using Formula as String and Eval Function

```
api.Data.Calculate()

▲ 3 of 3 ▼ ② Sub DataApi.Calculate(formula As String, onEvalDataBuffer As EvalDataBufferDelegate, Optional userState As Object)
```

Overload Function

The most common function is Api.Data.Calculate, which sets the value of one or more dimension values (left side of formula) equal to another (right side). Final arguments (optional) are added to the formula for Overload Functions, Evals, and Durable Data.

The Api.Data.Calculate function must abide by the data explosion rules, which means that the left side and the right side of the formulas are balanced with the same dimension values on both sides. If a Member is specified for a Dimension anywhere on the right side of the equation, you must explicitly specify something for that Dimension on the left side of the equation.

This variation of the Api.Data.Calculate provides Member Filters (all optional) which can be used to filter the results before saving them to the target or destination. This function is the most powerful of the Api.Data.Calculate functions as it allows you to filter intersections. In addition, the Eval function adds the ability to filter down the number of individual data cells processed by data cell attributes such as CellAmount or CellStatus.

This function is commonly used to filter the source data buffer by base members of an Account related dimension. For example, A#Sales may be the source data buffer but the need for all products is not required for the calculation. Instead, A#Sales may need to be calculated by the base members of Clubs. By using Clubs.Base for A#Sales, the A#Sales data buffer has been reduced to only include Clubs.Base.

Api.Data.Calculate Usage

Example using Overload Function in a working formula:

```
'Add a Formula and use API.Data.Calculate with a filter on UD2 (product) so that
'A#[ClubsSalesCalc] = the A#600000 account (Operating Sales) For just the base products under UD2#Clubs
'Hint: api.Data.Calculate("A#[ClubsSalesCalc] = A#60000",,,,,,"UD2 MEMBER FILTER GOES HERE")
'Formula will run at the base and parent levels

If ((Not api.Entity.HasChildren()) And (api.Cons.IsLocalCurrencyforEntity())) Then
api.Data.Calculate("A#ClubsSalesCalc = A#60000",,,,,,,"UZ#Clubs.Base")

End If

A 1 of 3 ▼ ② Sub DataApi.Calculate(formula As String, Optional accountFilter As String, Optional idFilter As String, Optional udFilter As String, Optional udFilter
```

IsDurableCalculatedData

This variation of Api.Data.Calculate lets you define whether data is durable or not. Durable data is not cleared automatically when a Data Unit is re-calculated. It can only be cleared by calling api.Data.ClearCalculatedData with the clearDurableCalculatedData Boolean property set to True. As part of the standard Calculation sequence that runs during a Calculate or Consolidate, Durable data will be ignored from processing the clear, unless the clear is specifically defined within the Business Rule or Member Formula.

The most common reason to set the IsDurableCalculatedData to True is for seeding purposes. As part of the first seeding, the goal may be to seed from one Scenario to another just once and never seed it again. In this case, the seeded data should not be cleared at any point during the Calculate or Consolidate process. This technique is commonly used in Budget or Forecast processes where you are executing the seeding through a Dashboard. The formula may be applied as a FinanceFunctionType.CustomCalculate or a FinanceFunctionType.Calculate in a Business Rule.

IsCurableCalculatedData Usage

Example using IsDurableCalculatedData in a working formula:

```
Case Is = FinanceFunctionType.CustomCalculate

'Define a unique Function Name that will be passed into Custom Calculate process

If args.CustomCalculateArgs.FunctionName.XFEqualsIgnoreCase("CopyScenario") Then

'Declare variables that will be passed into api.Data.Calculate.

'Selected values from parameters will be passed into api.Data.Calculate formula

Dim selectedTime As String = args.CustomCalculateArgs.NameValuePairs("SelectedTime")

Dim sourceScenario As String = args.CustomCalculateArgs.NameValuePairs("SourceScenario")

Dim targetScenario As String = args.CustomCalculateArgs.NameValuePairs("TargetScenario")

'Only run for base entities and local currency

If ((Not api.Entity.HasChildren()) And (api.Cons.IslocalCurrencyforEntity())) Then

'Using api.Data.Calculate function with formula and IsDurableCalculatedData set to TRUE As Boolean.

'Can use filters as well. Use RemoveNoData function or EVAL to eliminate processing data cells with NODATA

api.Data.Calculate("S#[" & targetScenario & "]:T#[" & selectedTime & "] = RemoveNoData(S#[" & sourceScenario & "]:T#[" & selectedTime & "])", True)

End If
```

Eval Function

Eval has an advanced capability that lets you get at the individual Data Cells in any Data Unit created while processing an api.Data.Calculate script. It allows Eval() to be wrapped around a subset of the formula's math in order to evaluate the Data Buffer that was just created by running that math.

Prior to the 5.0 version and the introduction of the RemoveNoData function, Eval was commonly used to evaluate individual data cells in a source data buffer to process based on cell amount or cell status. Evaluating the number of No Data Cells for a Data Unit is an important factor for performance and calculation efficiencies.

Eval was initially an important function to evaluate individual data cells but it has been replaced with newer techniques such as GetDataBuffer and GetDataBufferUsingFormula, and looping through cells within the data buffer, as well as the Remove functions.

Eval Function Usage

Example using Eval in a working formula:

```
Private Sub OnEvalDataBuffer (ByVal api As FinanceRulesApi, ByVal evalName As String, ByVal eventArgs As EvalDataBufferEventArgs)
        'Start with and empty list of result cells.
        'Good practice - Clear out DataBufferResults before executing
        eventArgs.DataBufferResult.DataBufferCells.Clear()
        'Loop over the source cells and assign a bonus % based on level
        For Each sourceCell As DataBufferCell In eventArgs.DataBuffer1.DataBufferCells.Values
             'Only get source cells that have data and are greater than or equal to 0
            If (Not sourceCell.CellStatus.IsNoData) And (sourceCell.CellAmount >= 0.00) Then
                 'Create new data buffer cells with the filtered data cells
                Dim resultCell As New DataBufferCell(sourceCell)
                     'Condition if Level is greater than or equal to 1 and less than 2
                    If (sourceCell.CellAmount >= 1.00) And (sourceCell.CellAmount < 2.00) Then</pre>
                        'Return 10% to multiply by Salary or A#50200
                        resultCell.CellAmount = 0.10
                        'Condition if Level is greater than or equal to 2 and less than 3
                    Else If (sourceCell.CellAmount >= 2.00) And (sourceCell.CellAmount < 3.00) Then
                        'Return 20% to multiply by Salary or A#50200
                        resultCell.CellAmount = 0.20
                        'Condition if Level is greater than or equal to 3 and less than 4
                    Else If (sourceCell.CellAmount >= 3.00) And (sourceCell.CellAmount < 4.00) Then
                        'Return 30% to multiply by Salary or A#50200
                        resultCell.CellAmount = 0.30
                    Else 'All other conditions
                         'Return 5% to multiply by Salary or A#50200
                        resultCell.CellAmount = 0.05
                    'Set the final results of the data cells for the Data Buffer
                    eventArgs.DataBufferResult.SetCell(api.SI, resultcell, False)
            End If
        Next
        Catch ex As Exception
        Throw ErrorHandler.LogWrite(api.SI, New XFException(api.SI, ex))
End Sub
```

Summary

The Api.Data.Calculate is the easiest and simplest way to write a formula as a Member Formula or a Business Rule. The construction of an Api.Data.Calculate formula must be balanced on each side of the formula with the appropriate dimensions to prevent data explosion. There are three different ways to use the Api.Data.Calculate function: Formula with Overload, Formula with IsDurableCalculatedData, and Formula with Eval.

From a performance perspective:

- 1. Never use the Api.Data.Calculate in a loop when using variables.
- 2. Use Remove functions whenever possible especially for sparse data models with lots of NODATA cells.
- GetDataBuffer and GetDataBufferUsingFormula may have a better performance impact. Try replacing Api.Data.Calculate when doing math with GetDataBuffer math. In some cases, performance is better by using GetDataBuffer functions in place of Api.Data.Calculate.

Remove Functions

Remove Functions were introduced in the 5.0 release. They replaced the reasons to use the Eval function. The basic need of the Eval function was to evaluate the individual data cells within a source data buffer to apply logic for processing. In many cases, OneStream did not want to process data cells in source data buffers that had a Cell Status of NODATA or Cell Amount = 0. With the 5.0 release, functions do that without the need for writing additional logic.

The **RemoveNoData** and **RemoveZeros** functions provide the ability to not process individual data cells within a source data buffer. They wrap the Remove() around a subset of the formula to prevent processing of individual data cells from within a source data buffer. Remove functions are used in Member Formulas or Business Rules.

Remove functions are used for performance reasons. Data Units may contain a great amount of NODATA data cells or 0 value data cells. These cells could be needlessly processed during calculation execution if these functions are not used in a Api.Data.Calculate formula.

RemoveZeros

RemoveZeros is used to remove data cells with a cell amount of 0 from the source data buffer. In addition, this function removes data cells with a cell status of NODATA from the source data buffer. It is important to evaluate if the 0s are needed for the Api.Data.Calculate formula during calculation execution.

RemoveNoData

RemoveNoData removes data cells with a cell status of NODATA ONLY from the source data buffer. Unlike the RemoveZeros function, this function does not remove data cells with a cell amount of 0.

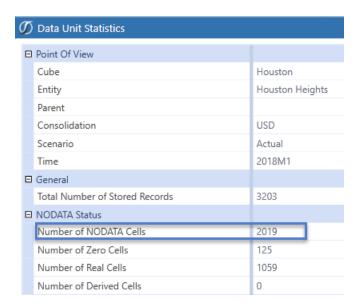
NODATA cells and 0 cells can be found using the following methods:

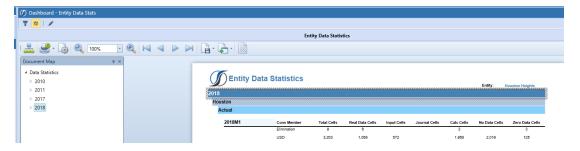
- Review the Data Unit Statistics when you right-click on a cell in Cube View.
- 2. Review the Application Analysis Dashboard and check the Entity Data Statistics Report.

This is based on the Data Unit and Entity Data Statistics. There may be many Member Formulas and Business Rules that are driving data creation. Therefore, all formulas would need to be evaluated to determine whether these Remove functions are used. The higher the percentage ratio of NODATA cells to Total Number of Stored Records, the more important it is to use these Remove functions.

Example = 3,203 Stored Records with 2,019 of those Stored Records as NODATA cells. Nearly 65% of the Data Unit has NODATA cells to process which causes extra calculation time.

The Review functions can be found in Key Functions under Snippets.





Remove Functions Usage

Example using RemoveZeros in a working formula:

```
'Declare variable To Get period number From the current time period
Dim curMonth As Integer = api.Time.GetPeriodNumFromId(api.Pov.Time.MemberId)
'Run for Entity Base Members Only
If (Not api.Entity.HasChildren()) Then
    'Check to see if current month is M1.
    'If so, pull Ending Balances From M12 prior year. We are using F#None for this exercise
    'If M2 - M12, pull Ending Balances or F#None from prior period in current year
    'Only run the calculation for Balance Sheet base accounts
    'Remove data cells with cell amount of Ø and cell status of NoData
    If curMonth = 1 Then
        api.Data.Calculate("F#BegBalCalcRemove= RemoveZeros(F#None:T#PovPriorYearM12)","A#[Balance Sheet].Base")
    Else
        api.Data.Calculate("F#BegBalCalcRemove = RemoveZeros(F#BegBalCalc:T#PovPrior1)","A#[Balance Sheet].Base")
    End If
End If
```

Example using RemoveNoData in a working formula:

```
'Declare variable to get period number from the current time period
Dim curMonth As Integer = api.Time.GetPeriodNumFromId(api.Pov.Time.MemberId)
'Run for Entity Base Members Only
If (Not api.Entity.HasChildren()) Then
    'Check to see if current month is M1.
    'If so, pull Ending Balances From M12 prior year. We are using F#None for this exercise
    'If M2 - M12, pull Ending Balances or F#None from prior period in current year
    'Only run the calculation for Balance Sheet base accounts
    'Remove data cells with cell status of NoData ONLY
    If curMonth = 1 Then
        api.Data.Calculate("F#BegBalCalcRemove= RemoveNoData(F#None:T#PovPriorYearM12)", "A#[Balance Sheet].Base")
    Else
        api.Data.Calculate("F#BegBalCalcRemove = RemoveNoData(F#BegBalCalc:T#PovPrior1)", "A#[Balance Sheet].Base")
    End If
End If
```

GetDataBuffer Functions

A Member Script may not be defined for the Api.Data.Calculate function because multiple Data Cells, which seem completely unrelated to each other, are being processed and none of the Dimension Members are constant. For those situations, use the GetDataBuffer and SetDataBuffer functions.

GetDataBuffer and SetDataBuffer are more fundamental than using an Eval function. They allow you to read numbers using a Member Script, process or modify each cell in the result, and then save the changes. Common GetDataBuffer functions include:

- GetDataBuffer
- GetDataBufferForCustomShareCalculation
- GetDataBufferForCustomElimCalculation
- GetDataBufferUsingFormula
- SetDataBuffer

When using api.Data.Calculate functions, it is important to know which Member a formula is attached to. For example, if the formula starts with Api.Data.Calculate("A#Sales1 = ..."), put the formula in the Sales1 account Member's Formula setting.

However, when using GetDataBuffer functions, the formula may not be writing to a specific Member. Every Data Cell saved is possibly written to a different dimension member. In this case, the logic can be developed in a Business Rule and could be created as a Sub routine to execute throughout Finance Business Rules.

GetDataBuffer Function

GetDataBuffer retrieves a Data Unit's values during a particular consolidation, calculation, or translation. When using GetDataBuffer, this is equivalent to the source data buffer or to the right side of the equation for Api.Data.Calculate. Depending on which GetDataBuffer function you are using, three or four properties can be used.

For the basic GetDataBuffer, three properties are used:

- ScriptMethodType As DataApiScriptMethodType
- SourceDataBufferScript As String
- ExpressionDestinationInfo As ExpressionDestinationInfo

The scriptMethodType typically uses the Calculate option for DataApiScriptMethodType.

The sourceDataBufferScript is equivalent to the right side of the equation for the Api.Data.Calculate.

The expressionDestinationInfo is equivalent to the left side of the equation for the Api.Data.Calculate. Frequently, this gets manipulated using the Dimension Id, passing in the Dimension Member Id for the data buffer primary key.

The GetDataBuffer can be used in various ways, and is not limited to the following:

- 1. Use Data Buffers to perform Data Buffer math. In some cases, this can perform better than an Api.Data.Calculate.
- 2. Use GetDataBuffer in place of Api.Data.Calculate to use in Sub routines which execute code and instructions, are stored in memory, and are used within Functions throughout Finance Business Rules.

GetDataBuffer Usage

Example using GetDataBuffer with Data Buffer Math in a working formula:

```
'Alternate way to api.Data.Calculate("A#DataBufferMath:UD2#None = A#60999:UD2#Top - A#54500:UD2#Top"). May have better performance impact.

'Run only for Local Currency and Base Entities

If ((Not api.Entity.HasChildren()) And (api.Cons.IsLocalCurrencyforEntity())) Then

'Declare Variable for Destination Buffer

Dim destinationInfo As ExpressionDestinationInfo = api.Data.GetExpressionDestinationInfo("A#DataBufferMath:UD2#None")

'Get Source Data Buffer for Net Sales

Dim netSales As DataBuffer = api.Data.GetDataBuffer(DataApiScriptMethodType.Calculate, "RemoveNoData(A#60999:UD2#Top)", destinationInfo)

'Get Source Data Buffer for Operating Expenses

Dim operatingExpenses As DataBuffer = api.Data.GetDataBuffer(DataApiScriptMethodType.Calculate, "RemoveNoData(A#54500:UD2#Top)", destinationInfo)

'Create New Data Buffer With the End Result of Net Sales - Operating Expenses

Dim dataBufferExample As DataBuffer = (netSales - operatingExpenses)

'Set the Destination Data Buffer

api.Data.SetDataBuffer(dataBufferExample, destinationInfo)

End If
```

Example using GetDataBuffer and SetDataBuffer in Business Rule Using Sub Routine in a working formula:

```
Case Is = FinanceFunctionType.Calculate
                                'Execute Sub Routine in the Function to Return Results
                              Me.CalculateBonusUsingGetDataBuffer(api)
Private Sub CalculateBonusUsingGetDataBuffer(ByVal api As FinanceRulesApi)
                               'Define Destination Data Buffer or left side of the equation 'Will copy to A#Bonus while processing the data buffer in memory
                              Dim destinationInfo As ExpressionDestinationInfo = api.Data.GetExpressionDestinationInfo("")
                                'Read the numbers for A#Salary into a source Data Buffer
                             Dim sourceDataBuffer As DataBuffer = api.Data.GetDataBuffer(DataApiScriptMethodType.Calculate, "A#Salary", destinationInfo)
                                 'Check to make sure the source Data Buffer exists
                              If Not sourceDataBuffer Is Nothing Then
                                               'Create a new data buffer for the result cells
                                            Dim resultDataBuffer As DataBuffer = New DataBuffer()
                                               'Loop over the source cells in the source Data Buffer
                                             For Each sourceCell As DataBufferCell In sourceDataBuffer.DataBufferCells.Values
                                                              'Only process cells that have data and cell amount that is greater than \ensuremath{\text{0}}
                                                            If ((Not sourceCell.CellStatus.IsNoData) And (sourceCell.CellAmount > 0.00)) Then
                                                                          'Create new data buffer cells from the filtered source cells from source Data Buffer Dim resultCell As New DataBufferCell(sourceCell)
                                                                            'Define A#Bonus as the target account to copy to
                                                                            'Multiply data cell amounts by 5%
                                                                            'Set the manipulated data cells to the data buffer % \left( 1\right) =\left( 1\right) \left( 1\right) \left(
                                                                           resultCell.DataBufferCellPk.AccountId = api.Members.GetMemberId(DimType.Account.Id, "Bonus")
                                                                           resultCell.CellAmount = sourceCell.CellAmount * 0.05
                                                                            resultDataBuffer.SetCell(api.SI, resultCell)
                                                           End If
                                            Next
                                              'Save the results to the destination data buffer
                                             api.Data.SetDataBuffer(resultDataBuffer, destinationInfo)
                                            Catch ex As Exception
                              Throw ErrorHandler.LogWrite(api.si, New XFException(api.si, ex))
              End Try
End Sub
```

Unbalanced Math Functions

Unbalanced Math Functions

Unbalanced math functions are required when performing math with two Data Buffers, where the second Data Buffer needs to specify additional dimensionality. The term Unbalanced is used because the script for the second Data Buffer can represent a different set of Dimensions from the other Data Buffer in the api.Data.Calculate text. These functions prevent data explosion. The four Unbalanced Math functions are:

- AddUnbalanced
 - Example: api.Data.Calculate("A#TargetAccount = AddUnbalanced (A#OperatingSales, A#DriverAccount:U2#Global, U2#Global)")
- SubtractUnbalanced
 - Example: api.Data.Calculate("A#TargetAccount = SubtractUnbalanced (A#OperatingSales, A#DriverAccount:U2#Global, U2#Global)")
- MultiplyUnbalanced
 - Example: api.Data.Calculate("A#TargetAccount =MultiplyUnbalanced (A#OperatingSales, A#DriverAccount:U2#Global, U2#Global)")
- DivideUnbalanced
 - Example: api.Data.Calculate("A#TargetAccount =DivideUnbalanced (A#OperatingSales, A#DriverAccount:U2#Global, U2#Global)")

When using Unbalanced Math functions, the first two parameters represent the first and second Data Buffers on which to perform the function. The third parameter represents the Members to use from the second Data Buffer when performing math with every intersection in the first Data Buffer. The math favors the intersections in the first Data Buffer without creating additional intersections.

It is important that the dimensionality of the Target (left side of the equation) matches the dimensionality of the first data buffer on the right side of the equation (argument 1).

Often, these functions would be used when one source data buffer is doing math with a specific data cell intersection. This could be a rate, driver, or some data cell input.

Unbalanced Math Functions Usage

Example using MultiplyUnbalanced in a working formula:

```
'Calculate Salary (A#50200) times Bonus Percent to create Bonus number. Use MultiplyUmbalanced formula to calculate.

'Use a Technique to Not Process No Data Cells and 0 Data Cells for Salary account

'lat property is the data buffer with the least dimensions and matches dimensions and matches dimensions and matches dimensions and matches dimensions of the data buffer with the most dimensions.

'And Property is the data buffer with the most dimensions.

'And Property is the list of account related dimensions that make it umbalanced

'Run for only Base Entities and Local Currency

If ((Not apic Intity) Amonthalero() And (apic Local SalacalCurrency) for ((Not apic Intity), MacChildren()) And (apic Local SalacalCurrency) for (Not apic LocalCurrency) for (Not apic
```

GetDataBufferUsingFormula Function

The GetDataBufferUsingFormula function uses an entire math expression to calculate a final data buffer. GetDataBufferUsingFormula can perform the same data buffer math as Api.Data.Calculate, but the result is assigned to a variable, where Api.Data.Calculate actually saves the calculated data.

GetDataBufferUsingFormula calculates multiple source data buffers first. Then, the result of the math is stored in memory using a Formula Variable. Finally, the Formula Variable is used anywhere within the Member Formula or Business Rule. This function is commonly used during rule writing for Planning Business Rules using MultiplyUnbalanced, DivideUnbalanced, Trailing functions such as trailing 12 months, and Allocations.

When using GetDataBufferUsingFormula, FilterMembers and RemoveMembers are used in conjunction to shrink down dimensional members in the source Data Buffer.

FilterMembers

FilterMembers change a data buffer and only include numbers for the specified Dimensions. The first parameter is the starting data buffer. This can be a variable name or an entire math equation in parentheses. There can be as many parameters as needed to specify Member Filters and different Member Filters can be used for multiple Dimension types. The resulting filtered data buffer will only contain numbers that match the Members in the filters.

GetDataBufferUsingFormula Usage

Example using GetDataBufferUsingFormula in a working formula:

Unbalanced Math Functions

```
'Alternate way to api.Data.Calculate("A#DataBufferMathUsingFormula:UD2#None = A#60999:UD2#Top - A#54500:UD2#Top"). May have better performance impact using 'GetDataBufferUsingFormula formula

'Standard GetDataBufferUsingFormula formula

If ((Not api.Entity.Haschildren()) And (api.Cons.IslocalCurrencyforEntity())) Then

'Get Data Buffer by using GetDataBufferUsingFormula to do the math
Dim dataBufferExample As DataBuffer = api.Data.GetDataBufferUsingFormula("RemoveNoData(A#60999:UD2#Top) - RemoveNoData(A#54500:UD2#Top)")
'Set Data Buffer variable to pass into api.Data.Calculate formula. Can be used for multiple instances of api.Data.Calculate
'Create a unique name to name the Data Buffer as a Formula Variable
api.Data.FormulaVariables.SetDataBufferVariable("dataBufferExample", dataBufferExample, False)
'Pass variable into api.Data.Calculate using a $
'Can pass this variable to other api.Data.Calculate, GetDataBufferUsingFormula, or Sub routines
api.Data.Calculate("A#DataBufferMathUsingFormula:UD2#None = $dataBufferExample")
```

Example using GetDataBufferUsingFormula with FilterMembers and MultipleUnbalanced in a working formula:

```
'Use Data Buffer Using formula to fliter specific members
'1st argument Inside () is the starting data buffer
'Accounting to add filters specific members buffer
'Can continue to add filters special by a come of the specific members (Asall, Astrolalsyp. Base))')

'Set Data Buffer Variable to pass salesExp to any other formula
'again.Cata.Formular/ariables.Settottalmuffer/variable[relastespy*, salesExp, faire)

'Use 'NutlipyUmbalenced to multiply all Exposes Accounts by a specific data cell intersection and divide by 12

'Ist argument is remaila Variable multiple(by boograph a specific data cell intersection and divide by 12

'Ist argument is the dimensions that make it unbalanced
'Ide argument is the dimensions that make it unbalanced
'Ide argument's a DataBuffer - api.Data.GetDataBuffer(Valtip)Umbalanced($salesExp, (EsGlobal.VAYTD:ARRateAccount:CHUSD:FRHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:URBHOne:
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