REFERENCE POSTER

NI TestStand™ API

NI TestStand provides a comprehensive ActiveX Automation server application programming interface (API) for building sophisticated test management systems and other sequencing applications. Use the TestStand API to read and write data from TestStand properties, including TestStand sequences and steps, or to create, edit, run, and debug sequences. You can access the TestStand API from any programming environment that supports access to ActiveX servers.

Refer to the *NI TestStand Help* for a complete description of all TestStand API classes, properties, methods, and events.

Note Some properties and methods from previous versions of TestStand are obsolete and not listed on this poster.

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Engine Classes

Use the Engine class to create and access objects of other classes, control executions, launch built-in dialog boxes, implement a Tools menu, find files and directories, and invoke various utilities. Use the StationOptions class to set preferences for TestStand. Use the UIMessage class to pass information about the state of the engine and the current executions to the TestStand User Interface or TestStand Sequence Editor. Use objects of the WatchExpression class to monitor the values of properties and variables using expressions.

AdditionalResults
AdditionalResult

Properties
AreElementsIncompatibleWithType (Read Only)
CheckedState
Condition
Elements (Read Only)
Flags
Kind (Read Only)
IsAnyType
Name
ParameterObject (Read Only)
ParentAdditionalResult (Read Only)
Type
UnmappedAdditionalResults (Read Only)
ValueToLog

Methods
This class has no methods.

EditTimeMenuItems
EditTimeMenuItem

Properties
CommandArguments
CommandInitialDirectory
CommandPath
Editable
EditsSelectedFile
EnabledExpression
HiddenExpression
ItemTextExpression
SeparatorBefore
SequenceFilePath
SequenceName
SubMenuItems (Read Only)
Type

Methods
This class has no methods.

Engine

Properties
ApplicationIsEditor
ApplicationLicense (Read Only)
AppMainHwnd
BuildVersion (Read Only)
ComputerName (Read Only)
ConfigFile (Read Only)
CurrentUser
CurrentWorkspaceFile
DefaultAdapter
DefaultAdapterIndex
DotNetCLRVersion (Read Only)
DotNetGarbageCollectionInterval
ExternalReportViewers (Read Only)
FileDialogDirHistoryList
Globals (Read Only)
GlobalsFile (Read Only)
Images (Read Only)
IsRemote
IsUIMessageQueueEmpty (Read Only)
LargeImageList (Read Only)
LastWorkspacePath
LicenseType (Read Only)
MajorVersion (Read Only)
MasterEngine
MinorVersion (Read Only)
NumAdapters (Read Only)
NumImages (Read Only)
OutputMessagesEnabled
PersistBreakpoints
PersistConfigFile
PersistWatchExpressions
RevisionVersion (Read Only)
SearchDirectories (Read Only)
SecondsAtStartIn1970UniversalCoordinatedTime (Read Only)
SecondsSince1970UniversalCoordinatedTime (Read Only)
SecondsSinceStart (Read Only)
SmallImageList (Read Only)
StationOptions (Read Only)
TemporaryGlobals (Read Only)
UIMessagePollingEnabled
UndoLimit
UniqueEngineId (Read Only)
UsersFile (Read Only)
Utility (Read Only)
VersionString (Read Only)
WatchExpressionsEnabled

Methods
AbortAll
AcquireLicense
AddImage
BreakAll
CallFrontEndCallbackEx
CanCreateStep
CheckExpression
CheckExprSyntax
ClearFilePasswordCache
CommitGlobalsToDisk
CopyPropertyObject
CreateNewUniqueStepIds
CreateTempFile
CurrentUserHasPrivilege
DelocalizeExpression
DisplayAdapterConfigDialog
DisplayBreakpointDialog
DisplayBrowseExprDialogEx
DisplayBrowsePropertyObjectDialog
DisplayConfigureTypePalettesDialog
DisplayEditBreakAndWatchDialog
DisplayEditPathsInFilesDialog
DisplayEditUserDialog
DisplayExpressionEditOptionsDialog
DisplayExternalViewerDialog
DisplayFileDialog
DisplayHelpFile
DisplayHelpTopic
DisplayLockUnlockDialog
DisplayLoginDialog

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DisplayLoopOnStepsDialog
DisplayMessageBox
DisplayNewUserDialog
DisplayOptionsDialog
DisplayPasswordProtectTypeDefinitionsDialog
DisplayPreconditionBuilderDialog
DisplayPreconditionDialog
DisplayRunTimeErrorDialogEx
DisplaySearchDirDialog
DisplaySeqFilePropDialog
DisplaySequenceFileCallbacksDialog
DisplaySequencePropDialog
DisplayStepPropDialog
DisplayStepTypeMenuEditorEx
DisplayToolMenuDialog
DisplayUnlockTypeDefinitionsDialog
DisplayWorkspaceBrowserDialog
DoDotNetGarbageCollection
FindFile
FindPath
GetAdapter
GetAdapterByKeyName
GetEditTimeToolMenuItems
GetErrorString
GetFileInformation
GetImageIndex
GetImageName
GetInsertStepMenuStructure
GetInsertVariableMenuStructure
GetInternalOption
GetLicenseDescription
GetLocalizedDecimalPoint
GetLocationForNextDialog
GetProductRegistrationInfo
GetResourceString
GetResourceSymbols
GetRunTimeToolMenuItems
GetSequenceFileEx
GetStationModelSequenceFile
GetSyncManager
GetTemplatesFile
GetTestStandPath
GetTypeDefinition
GetTypeNames
GetTypePaletteFileList
GetTypes
GetTypeUsageLocations
GetUIMessage
GetUser
GetUserGroup
GetWatchExpressions
GetWatchExpressionsChangeCount
IsCurrentSequenceFileVersion
LaunchExternalViewer
LoadTypePaletteFilesEx
LocalizeExpression
NewDataType
NewEditArgs
NewEditContext
NewEvaluationTypes
NewExecution
NewExpression
NewHierarchicalExecution
NewInteractiveArgs
NewLocations
NewOutputMessage
NewOutputMessages
NewPropertyObject
NewPropertyObjectFile
NewPropertyObjectType
NewResultLog
NewResultLogger
NewSequence
NewSequenceFile
NewStep
NewStepType
NewTypeUsageList
NewUndoItemCreator
NewUndoStack
NewUser
NewWorkspaceFile
NotifyEndOfModalDialog
NotifyStartOfModalDialogEx
OpenWorkspaceFile
ParseLookupString
PostUIMessage
ReadPropertyObjectFile
RegisterModalWindow
RegisterUIMessage
RegisterUIMessageCallback
ReleaseLicense
ReleaseSequenceFileEx
ReloadGlobals
ReloadStringResourceFiles
ResetTypeInstances
SaveAllModifiedSeqFiles
SearchFiles
SerializeObjects
SetConfigDirectory
SetInternalOption
SetLocationForNextDialog
SetProductRegistrationInfo
SetTypePaletteFileList
ShouldAutoLaunchExternalReportViewer
ShutDown
TerminateAll
UnloadAllModules
UnloadTypePaletteFiles
UnregisterModalWindow
UnserializeObjects
UnserializeObjectsAndTypes
UserNameExists
WriteToolMenuToDisk

Event
UIMessageEvent

Evaluation Types

Properties
AllowedArrayRepresentations
AllowedRepresentations
ArrayOfNamedTypes
NamedTypes
PropertyValueTypeFlags

Methods
This class has no methods.

Expression

Properties
NumTokens (Read Only)
Text

Methods
Evaluate
GetConstantValue
GetToken
Tokenize
Validate
ValidateEvaluationType

ExternalReportViewers
ExternalReportViewer

Properties
Arguments
AutoLaunch
Format
Path

Methods
This class has no methods.

Images

Properties
Count (Read Only)
Item (Read Only)

Method
FindImage

OutputMessages
OutputMessage

PropertyObject
OutputMessage

Properties
Category
ExecutionLocations
FileLocations
IconName
Id (Read Only)
Message
Severity
TextColor
TimeInSeconds
TimeStamp

Methods
AsPropertyObject
Post

RunTimeMenuItems
RunTimeMenuItem

Properties
EditsSelectedFile (Read Only)
ItemEnabled (Read Only)
SeparatorBefore (Read Only)
SubMenuItems (Read Only)
Text (Read Only)

Method
InvokeItem

SearchDirectories
SearchDirectory

Properties
Disabled
ExcludeFileExtension
ExcludeHiddenSubdirectories
FileExtensionRestrictions
Path
SearchSubdirectories
Type (Read Only)

Methods
This class has no methods.

SelectedBreakpointItem

Properties
SequenceFile (Read Only)
SequenceName (Read Only)
StepGroup (Read Only)
StepId (Read Only)

Method
IsEndSelected

StationOptions

Properties
AllowAllUsersAccessFromRemoteMachine
AllowAutomaticTypeConflictResolution
AllowCancellingPreloadExpression
AllowOtherModels
AllowSequenceCallsFromRemoteMachine
AlwaysGotoCleanupOnFailure
AutoLoginSystemUser
BreakOnSequenceFailure
BreakOnStepFailure
BreakpointsEnabled
CheckOutFilesWhenEdited

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CheckOutOnlySelectedFiles
DebugOptions
DefaultCPUAffinityForThreads
DefaultFileWritingFormat
DisableResults
EnableUserPrivilegeChecking
ExecutionMask
FileModificationIndicatorPolicy
InteractiveBranchMode
InteractiveExePropagateStatus
Language
PreloadProgressDelay
PromptToFindFiles
PromptWhenAddingFilesToSC
RecognizeMBChars
ReloadDocsWhenOpeningWorkspace
ReloadWorkspaceAtStartup
RequireUserLogin
RTEOption
SeqFileVersionAutoIncrementOpt
ShowEngineTrayIconOnRemoteStations
ShowHiddenProperties
SpecifyStepsByUniqueIdInExpressions
StationID
StationModelSequenceFilePath
SystemDefaultSourceCodeControlProvider
TracingEnabled
TypeVersionAutoIncrementOpt
TypeVersionAutoIncrementPromptOpt
UIMessageDelay
UIMessageMinDelay
UseDialogForCheckOut
UseLocalizedDecimalPoint
UserFilePath
UseStationModel

Methods
GetLanguages
GetTimeLimit
GetTimeLimitAction
GetTimeLimitEnabled
SetTimeLimit
SetTimeLimitAction
SetTimeLimitEnabled

StepAdditionalResults

Properties
CustomResults (Read Only)
ParameterResults (Read Only)

Methods
This class has no methods.

TypeUsageList

Properties
ChangeCount (Read Only)
NumTypes (Read Only)

Methods
AddUsedTypes
CreateAndInsertNewTypeFromExisting
GetIsTypeAttachedToFile
GetTypeDefinition
GetTypeIndex
InsertType
MoveType
RemoveType
SetIsTypeAttachedToFile
Union
ValidateNewTypeName

UIMessage

PropertyObject
UIMessage

Properties
ActiveXData (Read Only)
Event (Read Only)
Execution (Read Only)
IsSynchronous (Read Only)
NumericData (Read Only)
StringData (Read Only)
Thread (Read Only)

Methods
Acknowledge
AsPropertyObject

Utility

Properties
Escape
Unescape

Methods
This class has no methods.

WatchExpressions
WatchExpression

Properties
BreakpointType
ClientSequenceFile
ExecutionScope
Expression
NumericFormat
SequenceFileScope
SequenceScope
UniqueWatchId (Read Only)
UseScopingContext

Methods
BreakpointTriggered
DisplayConfigurationDialog
Evaluate
GetScopingContext

Legend

Object	A programmable software component that represents an instance of a class. You interact with the object using the methods, properties, and events the class defines.
Property	A value that stores and maintains a setting or attribute of an object.
(Read Only)	Properties you can read but not change.
Method	Performs an operation or function on an object.
Event	Method an object invokes to inform a client application of a status or state change.
Collection	An object that contains zero or more objects of the same class.
Collection Class **Class**	Denotes a class that has a corresponding collection class. The top (lighter) text represents the collection. The lower (darker) text represents the type of object the collection contains. Collection class properties and methods are not listed on this poster.
PropertyObject InteractiveContext	Denotes inheritance or the classes from which the class can inherit.
- - - - - - -	Indicates a grouping of classes commonly used together.

Execution Classes

An execution is an object TestStand creates to contain all the information it uses to run the sequences and subsequences it calls. Use objects of this class to control and get information about executions. Use objects of the Report class to modify, save, load, retrieve, and view reports.

Threads are elements of an Execution. Each thread maintains a call stack that contains a SequenceContext object for each active sequence invocation. The SequenceContext class contains complete information about an execution at a particular point during the execution.

EditArgs

PropertyObject
EditArgs

Properties
This class has no properties.

Methods
AddSelectedPropertyObject
AddSelectedSequence
AddSelectedStep
AsPropertyObject
ClearSelectedPropertyObjects
ClearSelectedSequences
ClearSelectedSteps
SetSelectedExecution
SetSelectedPropertyObjectFile
SetSelectedSequenceFile
SetSelectedStepGroup

Execution

PropertyObject
Execution

Properties
BreakOnEntry (Read Only)
ClientFile
DisableResults
DiscardResults
DisplayName (Read Only)
ErrorObject (Read Only)
ForegroundThread
ForegroundThreadIndex
Id (Read Only)
InInteractiveMode (Read Only)
MaximumResultsPerPostResultsCallback
ModelSequenceFilePath (Read Only)
NumThreads (Read Only)
OverrideNonTerminatableThreads
PostResultsCallbackInterval
PostResultsCallbackMask
PostResultsCallbackOptions
PostResultsCallback_PostFlushMask
PostResultsCallback_PreFlushMask
Report (Read Only)
Reports (Read Only)
ResultObject (Read Only)
ResultStatus
RTEOptionForThisExecution
RunTimeVariables (Read Only)
SecondsAtStart (Read Only)
SecondsExecuting (Read Only)
SecondsSuspended (Read Only)
SequenceFilePath (Read Only)
StandardResultsEnabled
StartCount (Read Only)
TerminateNonTerminatableThreadsPrompt
ThreadIds (Read Only)
TimeResultsEnabled
TracingDisabled
TypeMask

Methods
Abort
AddExtraResult
AddPostStepCustomUIMessage
AsPropertyObject
Break
CancelTermination
ClearExtraResultList
ClearSequenceDefaultValues
ClearTemporaryBreakpoints
DeleteExtraResult
EnableCallback
GetFileGlobals
GetModelSequenceFile
GetSequenceDefaultValues
GetSequenceFile
GetStates
GetTerminationMonitorStatus
GetThread
InitTerminationMonitor
IsCallbackEnabled
NewSequenceDefaultValues
NewThread
RemovePostStepCustomUIMessage
RestartEx
RestartWithNewArguments
Resume
SetSequenceDefaultValues
StepInto
StepOut
StepOver
Terminate
TerminateInteractiveExecution
WaitForEndEx

InteractiveArgs

PropertyObject
InteractiveArgs

Properties
LoopCount
NumSteps (Read Only)
Sequence
StepGroup
StopExpression

Methods
AddStepIndex
AsPropertyObject
ClearStepList
ContainsStep
GetStepIndex

InteractiveContext

PropertyObject
InteractiveContext

Properties
InteractiveArgs (Read Only)
IsRootExecution (Read Only)
SavedNextStepIndex (Read Only)
SavedPreviousStepIndex (Read Only)
SavedStepIndex (Read Only)

Method
AsPropertyObject

Reports
Report

PropertyObject
Report

Properties
All (Read Only)
Format
Id (Read Only)
IsEmpty (Read Only)
LatestAppendIndex (Read Only)

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Location
ReportSection
ResetCount (Read Only)
StyleSheetPath
SuspendReportRefresh

Methods
Append
AsPropertyObject
GetSection
GetTempFile
LaunchViewer
Load
NewReportSection
RefreshDisplay
Reset
Save
SetTempFileDirectoryEx

ReportSections
ReportSection

PropertyObject
ReportSection

Properties
Body
Footer
Header
Id (Read Only)
IsEmpty (Read Only)
ReportSubsections

Method
GetAllText

SequenceContext

PropertyObject
SequenceContext

Properties
ApplicationIsEditor (Read Only)
Caller (Read Only)
CallerDiscardsResults (Read Only)
CallingStep (Read Only)
CallStackDepth (Read Only)
CallStackName (Read Only)
CanTrace (Read Only)
Engine (Read Only)
ErrorReported
Execution (Read Only)
FileGlobals (Read Only)
GotoCleanup
Id (Read Only)
InInteractiveMode (Read Only)
InteractiveContext (Read Only)
IsProcessModel (Read Only)
Locals (Read Only)
LoopIndex
LoopNumFailed
LoopNumIterations
LoopNumPassed
Main (Read Only)
NextStep (Read Only)
NextStepIndex
NumStepsExecuted
Parameters (Read Only)
PreviousStep (Read Only)
PreviousStepIndex
ProcessModelClient
Report (Read Only)
Root (Read Only)
SelectedExecution (Read Only)
SelectedFile (Read Only)
SelectedPropertyObjectFile (Read Only)
SelectedPropertyObjects (Read Only)
SelectedSequences (Read Only)
SelectedStepGroup
SelectedSteps (Read Only)
Sequence (Read Only)
SequenceErrorCode
SequenceErrorMessage
SequenceErrorOccurred
SequenceFailed
SequenceFile (Read Only)
SequenceIndex (Read Only)
StationGlobals (Read Only)
Step (Read Only)
StepGroup
StepGroupStartedInteractiveExe (Read Only)
StepIndex
Thread (Read Only)
Tracing

Methods
AsPropertyObject
GetMultipleValues
GetRunTimeErrorMessageEx
GetRunTimeErrorWinHelpInfo
IsInteractiveStep
IsStepExcludedFromExecution
NewExecution
SetMultipleValues

Thread

PropertyObject
Thread

Properties
Batch (Read Only)
CallStackSize (Read Only)
DisplayName (Read Only)
Execution (Read Only)
ExternallySuspended
Id (Read Only)
RunTimeVariables (Read Only)
TerminationOption
UniqueThreadId (Read Only)

Methods
AddToBatch
AsPropertyObject
ClearCurrentRTE
ClearTemporaryBreakpoint
DoInteractiveExecution
FlushPostResults
GetSequenceContext
PostUIMessageEx
Resume
SetBatchRTEOption
SetStepInto
SetStepOut
SetStepOver
WaitForEnd

Editing Classes

Use the editing-related classes to implement an undo/redo and a goto location feature in a user interface.

Locations
Location

Properties
AttributesPath
BaseAttributesPath
ContextID
Element
ExecutionDisplayName
ExecutionId
FileDisplayName
FileId
FilePath
Kind
PropertyPath
PropertyPathWithNames
SelLength
SelStart
SequenceName
StepGroup
StepId
StepIndex
StepName
ThreadDisplayName
ThreadId
TypeCategory
TypeName

Methods
This class has no methods.

UndoItemCreator

Property
HaveEditsBeenMade (Read Only)

Methods
BeginBatchEdit

Continued, next column

BeginEditEx
CreateAndPostUndoItem
EndBatchEdit
EndEdit

UndoItems
UndoItem2

Properties
LookupStrings (Read Only)
TopObjects (Read Only)

Methods
This class has no methods.

NOTE The UndoItem2 class also inherits the properties and methods of the UndoItem class. Refer to the *NI TestStand Help* for more information about the properties and methods of the UndoItem class.

UndoStack

Properties
CanRedo (Read Only)
CanUndo (Read Only)
RedoItems (Read Only)
UndoItems (Read Only)

Methods
AggregateTopUndoItems
Clear
GetRedoDescription
GetUndoDescription
Push
Redo
Undo

PropertyObject Classes

Use the PropertyObject class to manipulate and access the values of variables and custom step properties. Use the `AsPropertyObject` method on a class that derives from the PropertyObject class to obtain the PropertyObject interface for that class. Typically, you use the PropertyObject class to get or set the values of custom step properties, sequence local variables, sequence file global variables, and station global variables.

Use the PropertyObjectType class to get type information for a PropertyObject. Use the ArrayDimensions class to obtain and set array bounds information for a PropertyObject.

ArrayDimensions

Properties
DisplayString (Read Only)
LowerBoundsString (Read Only)
UpperBoundsString (Read Only)

Methods
GetDimensionSize
GetLowerBounds
GetUpperBounds
SetBounds
SetBoundsByStrings

PropertyObject

Properties
ArrayElementPrototype
Attributes (Read Only)
CanAddSubProperty (Read Only)
Comment
HasAttributes (Read Only)
HasTypeAttributes (Read Only)
IsModifiedType
IsRootTypeDefinition (Read Only)
IsTypeDefinition (Read Only)
Name
NumericFormat
Parent (Read Only)
Type (Read Only)
TypeAttributes (Read Only)
TypeCategory (Read Only)
TypeDefinitionLocked (Read Only)
TypeLastModified (Read Only)
TypeMinimumTestStandVersion
TypeVersion

Methods
ClearTypeDefinitionPasswordHistory
Clone
ContainsTypeInstance
CreateReportSection
DeleteElements
DeleteNthSubProperty
DeleteSubProperty
DisplayArrayBoundsDialog
DisplayAttributesDialog
DisplayEditNumericFormatDialog
DisplayFlagsDialog
DisplayPropertiesDialog
EvaluateEx
Exists
GetArrayIndex
GetArrayOffset
GetDisplayNames
GetFlags
GetFormattedValue
GetInstanceDefaultFlags

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GetInstanceOverrideFlags
GetLocation
GetNthSubProperty
GetNthSubPropertyName
GetNumElements
GetNumSubProperties
GetPropertyObject
GetPropertyObjectByOffset
GetPropertyObjectElements
GetStructureChangeCount
GetSubProperties
GetSubPropertyIndex
GetTypeDefinition
GetTypeDefinitionProtection
GetTypeFlags
GetValBinary
GetValBoolean
GetValBooleanByOffset
GetValIDispatch
GetValIDispatchByOffset
GetValInteger64
GetValInteger64ByOffset
GetValInterface
GetValInterfaceByOffset
GetValNumber
GetValNumberByOffset
GetValString
GetValStringByOffset
GetValUnsignedInteger64
GetValUnsignedInteger64ByOffset
GetValVariant
GetValVariantByOffset
GetXML
InsertElements
InsertSubProperty
IsAliasObject
IsEqualTo
LockTypeDefinition
NewSubProperty
ReadEx
Search
Serialize
SetFlags
SetInstanceDefaultFlags
SetInstanceOverrideFlags
SetNthSubPropertyName
SetNumElements
SetPropertyObject
SetPropertyObjectByOffset
SetSubPropertyIndex
SetTypeDefinitionProtection
SetTypeFlags
SetValBinary
SetValBoolean
SetValBooleanByOffset
SetValIDispatch
SetValIDispatchByOffset

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SetValInteger64
SetValInteger64ByOffset
SetValInterface
SetValInterfaceByOffset
SetValNumber
SetValNumberByOffset
SetValString
SetValStringByOffset
SetValUnsignedInteger64
SetValUnsignedInteger64ByOffset
SetValVariant
SetValVariantByOffset
SetXML
UnlockTypeDefinition
UnserializeEx
ValidateNewElementName
ValidateNewName
ValidateNewSubPropertyName
Write

PropertyObjectType

Properties
ArrayDimensions (Read Only)
DisplayString (Read Only)
ElementType (Read Only)
IsObject (Read Only)
Representation (Read Only)
TypeName (Read Only)
ValueType (Read Only)

Method
IsEqualTo

File Classes

Use the PropertyObjectFile class to read and write PropertyObjects to disk. All TestStand files, including sequence files, type palette files, workspace files, configuration files, the users file, and the globals file, are stored as PropertyObjectFiles.

Objects of the SequenceFile class represent a sequence file that can contain sequences, and objects of the Sequence class represent a sequence that can contain steps. Objects of the WorkspaceFile class represent workspace files that can contain projects. Objects of the WorkspaceObject class represent nodes for workspace and project files on the Workspace pane. Objects of the User class represent the data and privileges TestStand associates with a TestStand user or user group. The UsersFile class represents the files that contain a list of TestStand users and user profiles.

ResultLogger objects write TestStand results to a file. Use a ResultLog object to read the results from the file.

CodeTemplates
CodeTemplate

Properties
Description (Read Only)
Name (Read Only)
Type (Read Only)

Methods
This class has no methods.

FileInformation

Properties
FileExists (Read Only)
FileWritingFormat (Read Only)
IsCustomFile (Read Only)
IsCVIDll (Read Only)
IsDotNetAssembly (Read Only)
IsPropertyObjectFile (Read Only)
IsSequenceFile (Read Only)
PropertyObjectFileType (Read Only)

Methods
GetFileFormatVersion
GetFileVersion

InputStream

Properties
IsEndofStream (Read Only)
Length (Read Only)
Offset
Path (Read Only)

Method
ReadBytes

PropertyObjectFile

PropertyObject
PropertyObjectFile

Properties
ChangeCount
Comment
ContentType
Data
DisplayName
EditPrivilege
FileSection
FileType (Read Only)
FileTypeDescription
FileWritingFormat
Id (Read Only)
IsDiskFileModified (ReadOnly)
IsDiskFileReadOnly (Read Only)
IsModified (Read Only)
IsModifiedByUser (Read Only)
Locked (Read Only)
OpenStatus
Path
Protection
Requirements (Read Only)
TypeUsageList (Read Only)
Version

Methods
AsPropertyObject
CheckForModifiedTypes
HandleTypeConflicts
IncChangeCount
Lock
ReadFile
SaveFileIfModified
Unlock
WriteFile

ResultLog

PropertyObject
ResultLog

Properties
ClosedWhenWritten (Read Only)
OnTheFly (Read Only)
Path (Read Only)
SecondsAtStartIn1970UniversalCoordinatedTime (Read Only)
UniqueId (Read Only)

Methods
Close
GetReportPaths
Open
ReadNextRecord
SetReportPaths

ResultLogger

PropertyObject
ResultLogger

Property
Path
RecordFilesWritten

Methods
Close
ContinueInNewFile
DeferrableRename
Flush
GetFilesWritten
LogBatchDone
LogBatchStart
LogBegin
LogEnd
LogOnTheFlyStepResults
LogPostBatch
LogPostUUT
LogPreBatch
LogPreUUT
LogUUTDone
LogUUTStart
Open

Sequence

PropertyObject
Sequence

Properties
AllowInteractiveExecutionOfEntryPoint
CopyStepsOnOverride
DisableResults
EntryPointCheckToSaveTitledSeqFiles
EntryPointEnabledExpression
EntryPointIgnoreClient
EntryPointInitiallyHidden
EntryPointMenuHint
EntryPointNameExpression
FailureAction
HasMismatchedBlocks (Read Only)
Id (ReadOnly)
Locals (Read Only)
Name
OptimizeNonReentrantCalls
Parameters (Read Only)
Requirements (Read Only)
SequenceFile (Read Only)
SequenceIndex (Read Only)
ShowEntryPointForAllWindows
ShowEntryPointForEditorOnly
ShowEntryPointForExeWindow
ShowEntryPointForFileWindow
Type

Methods
AsPropertyObject
CreateNewUniqueStepIds
DeleteStep
EvalEntryPointEnabledExpressionEx
EvalEntryPointNameExpressionEx
GetBreakOnEndSettings
GetEffectiveType
GetEntryPointMenuFromHint
GetNumSteps
GetStep
GetStepByName
GetStepByUniqueId
GetStepIndex
InsertStep
LoadModules
RemoveStep
SetBreakOnEndSettings
StepNameExists
UnloadModules

SequenceFile

PropertyObject
SequenceFile

Properties
BatchSyncOption
CanUnload (Read Only)
ChangeCount (Read Only)
FileGlobalsDefaultValues (Read Only)
FileGlobalsScope
HasModel (Read Only)
Id (Read Only)
IsExecuting (Read Only)
ModelOption
ModelPath
ModuleLoadOption
ModuleUnloadOption
NumSequences (Read Only)
Path
SequenceFileType
UnloadCallbackEnabled

Methods
AddLoadReference
AsPropertyObject
AsPropertyObjectFile
CreateCallbackOverrideSequence
DeleteSequence
GetModelAbsolutePath
GetModelCallbackNames
GetModelSequenceFile
GetReservedCallbackNames
GetSequence
GetSequenceByName
GetSequenceIndex
InsertSequenceEx

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LoadModules
NewEditContext
RemoveSequence
Save
SequenceNameExists
UnloadModules

User

PropertyObject
User

Properties
FullName
LoginName
Members (Read Only)
Password
Privileges (Read Only)

Methods
AsPropertyObject
HasPrivilege
ValidatePassword

UsersFile

PropertyObject
UsersFile

Properties
UserGroupList
UserList

Methods
AsPropertyObjectFile
ReloadFromDisk

WorkspaceFile

PropertyObject
WorkspaceFile

Properties
IsConnectedToSCProvider (Read Only)
OptionsFile (Read Only)
ProviderName
RootWorkspaceObject (Read Only)

Methods
AsPropertyObjectFile
DisplayAddFileToWorkspaceDialog
FindWorkspaceObject
RunSourceControlProvider
SaveWorkspaceAndProjectFiles

WorkspaceObject

PropertyObject
WorkspaceObject

Properties
CodeModuleSeqFilePath
DisplayName
FileExists (Read Only)
IsCodeModule (Read Only)
LastSourceControlMessages (Read Only)
NumContainedObjects (Read Only)
ObjectType (Read Only)
Path
ProjectFile (Read Only)
SourceControlStatus (Read Only)

Methods
AsPropertyObject
CanDoSourceControlCommand
DoSourceControlCommand
GetAbsolutePath
GetContainedObject
GetParentContainer
InsertCodeModules
InsertObject
NewFile
NewFolder
RemoveObject
UpdateStatus

Step Classes

Objects of the StepType class represent step types in TestStand files, and objects of the Step class represent steps in TestStand sequences. Every step is an instance of a step type. A StepType object defines default properties and values as well as standard behaviors for each step of that type. A Step object defines the code module to call, required preconditions, looping and switching requirements, and failure and error handling instructions.

Step

PropertyObject
Step

Properties
AdapterKeyName (Read Only)
AdditionalResults (Read Only)
AdditionalResultsHints (Read Only)
BatchSyncOption
BlockEndIndex
BlockFlags
BlockLevel
BlockLevelsUnmatched
BlockNextIndex
BlockParentIndex
BlockPreviousIndex
BlockStartIndex
CancelCurrentExecution
CancelCurrentModuleExecution
CancelStepCallback
CanCreateCode (Read Only)
CanEditCode (Read Only)
CanSpecifyModule (Read Only)
CausedSequenceFailure
CurrentLoopResult
CustomActionExpression
CustomFalseAction
CustomFalseActionTargetByExpr
CustomTrueAction
CustomTrueActionTargetByExpr
EditAsReadOnly
EvalPrecondForInteractiveExecution
FailAction
FailActionTargetByExpr
IconName
IgnoreRTE
IsSequenceCall (Read Only)
LargeIcon (Read Only)
LargeIconIndex (Read Only)
LastStepResult
LoopIncExpression
LoopInitExpression
LoopStatusExpression
LoopType
LoopWhileExpression
Module (Read Only)
ModuleLoadOption
ModuleUnloadOption
MutexNameOrRefExpr
Name
PassAction
PassActionTargetByExpr
PostExpression
Precondition
PreExpression
RecordLoopIterationResults
Requirements (Read Only)
ResultRecordingOption
ResultStatus
Sequence (Read Only)
SmallIcon (Read Only)
SmallIconIndex (Read Only)
StatusExpression
StepFailCausesSequenceFail
StepGroup (Read Only)
StepIndex (Read Only)
StepType (Read Only)
SwitchExecConnectionLifetime
SwitchExecEnabled
SwitchExecMulticonnectMode
SwitchExecOperation
SwitchExecOperationOrder
SwitchExecRoutesToConnect
SwitchExecRoutesToDisconnect
SwitchExecVirtualDevice
SwitchExecWaitForDebounce
UniqueStepId (Read Only)
UseMutex
WindowActivation

Methods
AsPropertyObject
CanChangeAdapter
CanChangeStepType
CanExecuteSubstep
ChangeAdapter
ChangeStepType
CreateCode
CreateNewUniqueStepId
DisplayAdditionalResultsDialog
EditCode

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ExecuteSubstep
GetBreakSettings
GetDescriptionEx
GetEditSubstepMenuStructure
GetResultStatusDisplayString
GetRunModeEx
GetStepSettingsString
LoadModule
LogAdditionalResult
SetBreakSettings
SetRunModeEx
SpecifyModule
UnloadModule

StepType

PropertyObject
StepType

Properties
AdditionalResultsHints (Read Only)
AppliesToBlockStructure
BatchSyncOption
BlockEndTypes
BlockStartTypes
CanEncapsulate
CanSpecifyModule (Read Only)
CodeTemplates (Read Only)
CustomActionExpression
CustomFalseAction
CustomFalseActionTargetByExpr
CustomTrueAction
CustomTrueActionTargetByExpr
DefaultNameExpr
DescriptionExpr
DesignatedAdapter (Read Only)
DimmablePropertyKeyNames (Read Only)
EvalPrecondForInteractiveExecution
FailAction
FailActionTargetByExpr
IconName
IgnoreRTE
LoopIncExpression
LoopInitExpression
LoopStatusExpression
LoopType
LoopWhileExpression
MenuGroupName
MenuIcon (Read Only)
MenuIconIndex (Read Only)
MenuItemNameExpr
Module (Read Only)
ModuleLoadOption
ModuleUnloadOption
MutexNameOrRefExpr
Name
NumSubsteps (Read Only)
PassAction
PassActionTargetByExpr
PostExpression
Precondition
PreExpression
RecordLoopIterationResults
ResultRecordingOption
RunMode
StatusExpression
StepFailCausesSequenceFail
SwitchExecConnectionLifetime
SwitchExecEnabled
SwitchExecMulticonnectMode
SwitchExecOperation
SwitchExecOperationOrder
SwitchExecRoutesToConnect
SwitchExecRoutesToDisconnect
SwitchExecVirtualDevice
SwitchExecWaitForDebounce
UseMutex
WindowActivation

Methods
AddSubstep
AsPropertyObject
ChangeDesignatedAdapter
CreateCombinedStepType
DimProperty
GetDefaultName
GetDimmablePropertyDisplayName
GetSubstep
IsPropertyDimmed
RemoveSubstep
SpecifyModule
SwapSubsteps

Analyzer Classes

Use the AnalysisContext class in an analysis module to access information about the current object being analyzed or about the current analysis transition. An object of the AnalysisMessage class represents a message an analysis module creates while performing an analysis. Use objects of the AnalysisUtilities class in an analysis module to perform common analysis functions.

Use the objects of the RuleConfiguration class to access the configuration information of a rule. Use the objects of the RuleConfigurationContext class in a rule configuration module to access the rule configuration data. Use objects of the RuleSettingValues class to obtain rule setting values.

AnalysisContext

Properties
AnalysisId (Read Only)
EditContext (Read Only)
Engine (Read Only)
File (Read Only)
Object (Read Only)
StopRequested (Read Only)
Transition (Read Only)
Utilities (Read Only)

Methods
GetRuleAnalysisData
GetRuleConfiguration
NewMessage
ReportMessage
StopAnalysis

AnalysisMessage

Properties
Locations (Read Only)
RuleId
Text

Methods
This class has no methods.

AnalysisUtilities

Property
AutomaticPropertyCheckingEnabled

Methods
ValidateExpression
ValidatePath
ValidateRemoteHost

RuleConfiguration

Properties
ConfigurationData (Read Only)
Description
Enabled
RuleId (Read Only)
RuleSettingValues (Read Only)
Severity

Methods
This class has no methods.

RuleConfigurationContext

Properties
Engine (Read Only)
IsModified
RuleConfiguration (Read Only)

Methods
This class has no methods.

RuleSettingValues

Properties
This class has no properties.

Methods
GetBooleanValue
GetNumberValue
GetStringValue

Search Classes

Use the search-related classes to search files and property objects in TestStand. When you call the `PropertyObject.Search` or `Engine.SearchFiles` methods, TestStand returns a SearchResults object, which contains a list of SearchMatch objects. Use the SearchMatch class to identify the type and location of a match and to perform Replace operations.

SearchMatch

Properties
FileDisplayName (Read Only)
FileId (Read Only)
FilePath (Read Only)
MatchedText (Read Only)
MatchIsValid (Read Only)
PropertyValueAsString (Read Only)
PropertyValueType (Read Only)
TypeCategoryOfMatch (Read Only)
UserData

Methods
GetLocation
GetPropertyPath
UpdateForReplace
UpdateForReplaceValue

SearchResults

Properties
NumMatches (Read Only)
NumWarnings (Read Only)
StatusMessage (Read Only)

Methods
Cancel
GetMatch
GetWarning
IsComplete

Adapter Classes

The adapter-specific and module-specific classes derive from the Adapter and Module base classes. Use the Adapter base class to configure and obtain information about the module adapters. Use the Module base class to specify and obtain information about code modules that steps or step type substeps execute.

Adapter

PropertyObject
Adapter

Properties
DisplayName (Read Only)
Hidden
IconName (Read Only)
IsConfigurable (Read Only)
KeyName (Read Only)
LargeIcon (Read Only)
LargeIconIndex (Read Only)
ShowArgsInStepDescription
SmallIcon (Read Only)
SmallIconIndex (Read Only)

Methods
AsPropertyObject
Configure

Module

PropertyObject
Module

Properties
Adapter (Read Only)
CanCreateCode (Read Only)
CanEditCode (Read Only)
CanSpecify (Read Only)
IsPrototypeIncompatible (Read Only)
Step (Read Only)
UnmappedArgumentValues (Read Only)

Methods
AsPropertyObject
CreateCode
EditCode
GetDescription
GetLastLoadWarnings
Load
LoadPrototype
Specify
Unload

UnmappedArgumentValues
UnmappedArgumentValue

PropertyObject
UnmappedArgumentValue

Properties
Name (Read Only)
TypeName (Read Only)
UnmappedArgumentValues (Read Only)
ValueExpr (Read Only)

Methods
This class has no methods.

Common C Adapter Classes

The module and parameter classes for the LabWindows™/CVI™ and C/C++ DLL Adapters derive from the CommonCAdapter and CommonCModule classes. Use these classes to set and get information about the C-style adapters, code modules, and parameters.

CommonCAdapter

PropertyObject
Adapter
CommonCAdapter

Property
DefaultStructPacking

Methods
AsAdapter
GetAllowStructPassing
GetDllFunctions
GetExcludeFromStruct
GetStructMemberArrayStorage
GetStructMemberStorage
GetStructMemberStringBufferSize
GetStructMemberType
GetStructNames
GetStructPacking
SetAllowStructPassing
SetExcludeFromStruct
SetStructMemberArrayStorage
SetStructMemberStorage
SetStructMemberStringBufferSize
SetStructMemberType
SetStructPacking

CommonCModule

PropertyObject
Module
CommonCModule

Properties
CodeTemplateName
FunctionCall (Read Only)
FunctionName
ModulePath
ProjectFilePath
SourceFilePath
WorkspaceFilePath

Methods
AcceptFunctionCall
AsModule
LoadPrototypeFromCodeTemplate
UpdatePrototypeFromSource
VerifyPrototype
VerifyPrototypeFromSource

CommonCParameter

PropertyObject
CommonCParameter

Properties
ArrayDimensions
DisplayValueExpr (Read Only)
EnumTypeName (Read Only)
Flags
ParameterName
Pass
PassArrayElementBy
ResultAction
StringBufferSizeExpr
StructType
UnknownInfo
UserData (Read Only)
ValidEvaluationTypes (Read Only)
ValueExpr
ValueExprIsIgnored (Read Only)
ValueExprIsOptional (Read Only)
Methods
AsPropertyObject
GetArrayDimensionSizeExpr
GetDescription
GetEnumValues
SetArrayDimensionSizeExpr

Methods
This class has no methods.

CVIAdapter

PropertyObject
Adapter
CommonCAdapter
CVIAdapter

Properties
CodeTemplatePolicy
ExecuteStepsInExternalInstance
ExecutionServerProjectPathName

Methods
AsAdapter
AsCommonCAdapter
NewModule

CVIArguments
CVIArgument

Property
Value

Methods
This class has no methods.

CVIModule

PropertyObject
Module
CommonCModule
CVIModule

Properties
AlwaysRunInProcess
ModuleType
Parameters (ReadOnly)

Methods
AsCommonCModule
Execute

CVIParameters
CVIParameter

PropertyObject
CommonCParameter
CVIParameter

Properties
Category
Type

Method
AsCommonCParameter

DllAdapter

PropertyObject
Adapter
CommonCAdapter
DllAdapter

Properties
VisualStudioDTEVersionForDebugging
VisualStudioDTEVersionForEditing

Methods
AsAdapter
AsCommonCAdapter
NewModule

DllArguments
DllArgument

Properties
ImaginaryPartValue
Value

Methods
This class has no methods.

DllFunctions
DllFunction

Properties
DisplayName (Read Only)
HasParameterInformation (Read Only)
HelpContext (Read Only)
HelpFilePath (Read Only)
ParameterTypeWarnings (Read Only)
SymbolName (Read Only)
UniqueDisplayName (Read Only)

Methods
This class has no methods.

DllModule

PropertyObject
Module
CommonCModule
DllModule

Properties
CodeCreationTarget
Parameters (Read Only)

Methods
AsCommonCModule
Execute

DllParameters
DllParameter

PropertyObject
CommonCParameter
DllParameter

Properties
Category
ImaginaryPartValueExpr
TSObjectParameterType
Type

Method
AsCommonCParameter

Adapter-Specific Classes

The adapter-specific classes include classes that represent module adapters, code modules that adapters call, and parameters that code modules require. Use the adapter-specific classes to configure and obtain adapter-specific information about the module adapter. Use the module-specific classes to specify and obtain adapter-specific information about the code module that steps or step type substeps execute. Use the parameter-specific classes to specify the type, direction, and expression value of a parameter. Refer to the *NI TestStand Help* for more information about how to best use LabVIEW features in a TestStand system.

ActiveXAdapter

PropertyObject
Adapter
ActiveXAdapter

Properties
Servers (Read Only)
ShowActiveXControlsWhenSpecifyingModule
UnloadUnusedActiveXServersAfterExec
UseLateBinding

Methods
AsAdapter
UpdateAutomationIDs

ActiveXCoClasses
ActiveXCoClass

Properties
Documentation (Read Only)
HelpContext (Read Only)
HelpFilePath (Read Only)
Id (Read Only)
Interfaces (Read Only)
Name (Read Only)
TypeFlags (Read Only)

Method
GetInterfaceImplementationTypeFlags

ActiveXInterfaces
ActiveXInterface

Properties
DispatchMembers (Read Only)
Documentation (Read Only)
ForTypedefOnly (Read Only)
HelpContext (Read Only)
HelpFilePath (Read Only)
Id (Read Only)
Name (Read Only)
TypeFlags (Read Only)
VTableMembers (Read Only)

Methods
This class has no methods.

ActiveXMembers
ActiveXMember

Properties
DispatchId (Read Only)
Documentation (Read Only)
FunctionFlags (Read Only)
HelpContext (Read Only)
HelpFilePath (Read Only)
MemberType (Read Only)
Name (Read Only)
ParameterTypeWarnings (Read Only)
VTableOffset (Read Only)

Methods
This class has no methods.

ActiveXModule

PropertyObject
Module
ActiveXModule

Properties
ActiveXReferenceExpr
CoClassName
CreateOption
FilePath
InterfaceName
MemberName
MemberType
Parameters (Read Only)
RemoteHost
ServerId
SpecifyHostByExpression
UseStepLoadOptions

Methods
AsModule
ReloadServer

ActiveXParameters
ActiveXParameter

PropertyObject
ActiveXParameter

Properties
DefaultValue (Read Only)
Direction (Read Only)
DisplayType (Read Only)
EnumTypeName (Read Only)
IsOptional (Read Only)
ParameterName (Read Only)
Type (Read Only)
UseDefault
UserData (Read Only)
ValidEvaluationTypes (Read Only)
ValueExpr
ValueExprIsIgnored (Read Only)
ValueExprIsOptional (Read Only)

Methods
AsPropertyObject
GetEnumValues

ActiveXServers
ActiveXServer

Properties
CoClasses (Read Only)
DisplayName (Read Only)
HelpContext (Read Only)
HelpFilePath (Read Only)
Id (Read Only)
Interfaces (Read Only)
LibraryFlags (Read Only)
LocaleId (Read Only)
MajorVersion (Read Only)
MinorVersion (Read Only)
Name (Read Only)
Path (Read Only)
VersionString (Read Only)

Method
LoadTypeLibrary

DotNetAdapter

PropertyObject
Adapter
DotNetAdapter

Properties
VisualStudioDTEVersionForDebugging
VisualStudioDTEVersionForEditing

Methods
AsAdapter
CacheAssemblyInfo
GetClassNames
GetExcludeFromStructure
GetGACAssemblyStrongNames
GetMemberNames
GetStructureMemberLabel
GetStructurePassingEnabled
IsClassValid
NewModule
SetExcludeFromStructure
SetStructureMemberLabel
SetStructurePassingEnabled

DotNetModuleArguments
DotNetArguments
DotNetArgument

Properties
Elements (ReadOnly)
ParameterName (ReadOnly)
Value

Methods
This class has no methods.

DotNetCalls
DotNetCall

Properties
CallIndex (Read Only)
ClassHelpString (Read Only)
ClassName (Read Only)
ClassNameForNextCall (Read Only)
IsPrototypeIncompatible (Read Only)
MemberFlags (Read Only)
MemberHelpString (Read Only)
MemberName (Read Only)
MemberType (Read Only)
Parameters (Read Only)
Signature (Read Only)
UnmappedArgumentValues (Read Only)

Methods
CreateCode
EditCode
GetAssembly
GetAssemblyForNextCall
IsCallValid
LoadPrototypeFromSignature
ReloadPrototype
SetIncompleteSignature

DotNetModule

PropertyObject
Module
DotNetModule

Properties
AssemblyWarnings (Read Only)
Calls (Read Only)
ClassHelpString (Read Only)
ClassName
IsStruct
ProjectFilePath
SolutionFilePath
SourceFilePath
UseStepLoadOptions

Methods
AsModule
DisplayCreateCustomDataTypeDialog
Execute
GetAssembly
NewModuleArguments
SetAssembly

DotNetParameters
DotNetParameter

PropertyObject
DotNetParameter

Properties
ArrayDimensionsEx (Read Only)

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DefaultValue (Read Only)
Direction (Read Only)
DisplayType (Read Only)
DisposeObject
Elements (Read Only)
Flags (Read Only)
HelpString (Read Only)
ParameterName (Read Only)
Type (Read Only)
TypeName (Read Only)
UseDefaultValue
UserData (Read Only)
ValidEvaluationTypes (Read Only)
ValueExpr
ValueExprIsIgnored (Read Only)
ValueExprIsOptional (Read Only)

Methods
AsPropertyObject
DeleteArrayElement
DisplayCreateCustomDataTypeDialog
GetEnumValues
InsertArrayElement
IsStructMappingInvalid

HTBasicAdapter

PropertyObject
Adapter
HTBasicAdapter

Properties
DefaultWorkingDirectory
DevelopmentServerPath
RunTimeServerPath
SpecWorkingDirectoryPath
UseDevelopmentServer

Method
AsAdapter

HTBasicModule

PropertyObject
Module
HTBasicModule

Properties
ShowHTBasicApp
SubroutineFilePath
SubroutineName
WorkingDirectory
WorkingDirectorySpecifiedPath

Method
AsModule

LabVIEWAdapter

PropertyObject
Adapter
LabVIEWAdapter

Properties
AdditionalThreadsInheritCallingThreadsCPUAffinity
AutoDeploySharedVariables
AutoUndeploySharedVariables
CodeTemplatePolicy
CurrentLabVIEWServerVersion (Read Only)
IsCurrentLabVIEWServerAnEditor (Read Only)
NumberOfThreadsUsedWhenExecutingVIsWithRTE
ReserveLoadedVIsForExec
UseMultipleThreadsWhenExecutingVIsWithRTE
UUTIterationNumberExpression
UUTSerialNumberExpression

Methods
AsAdapter
CheckRemoteSystemStatus
DeployProjectLibrary
DisplayHelpForNodeProperty
FileExistsInLLB
GetClassesForNodeLibrary
GetClusterMemberIsBinaryString
GetClusterMemberLabel
GetClusterPassingEnabled
GetExcludeFromCluster
GetExpressVIMenuStructure
GetMemberNames
GetNodeLibraries
GetPropertiesForLabVIEWClass
GetPropertiesForNodeClass
GetServerInfo
GetVINamespace
GetVIVersion
Initialize
IsExpressVI
NewModule
SetClusterMemberIsBinaryString
SetClusterMemberLabel
SetClusterPassingEnabled
SetExcludeFromCluster
SetServerInfo

LabVIEWArguments
LabVIEWArgument

Properties
ComplexImaginaryPart (Read Only)
ComplexRealPart (Read Only)
Elements (Read Only)
ParameterName (Read Only)
Value

Methods
This class has no methods.

LabVIEWModule

PropertyObject
Module
LabVIEWModule

Properties
CallName
CallType
ClassPath
ExpressVIName (Read Only)
HelpContext (Read Only)
HelpFilePath (Read Only)
HelpPicture (Read Only)
HelpPictureRects (Read Only)
Namespace
NodeClassDataName
NodeIgnoresInternalErrors
NodeLibraryGenericTypeName
NodeLibraryName
NodeOperationMode
NodeProperties (Read Only)
NodeUsesDataValueReference
Parameters (Read Only)
ProjectPath
RemoteConnectionTimeout
RemoteHost
RemotePortNumber
RemoteProjectPath
RemoteVIPath
SpecifyHostByExpression
VIAttached (Read Only)
VICallOptions
VIDescription (Read Only)
VIPath
VIType

Methods
AsModule
ConvertExpressVIToStandardVI
ConvertToStandardVI
CreateProject
DisplayParameterMappingDialog
DisplaySelectClassFromProjectDialog
DisplaySelectClassMemberFromProjectDialog
DisplaySelectMemberFromClassDialog
DisplaySelectVIFromProjectDialog
EditClass
EditProject
Execute
ExportVI
FindClassUrlUsingClassPath
FindVIUrlUsingVIPath
GetClassAbsolutePath
GetProjectUrlPathsForClasses
GetProjectUrlPathsForVIs
GetVIAbsolutePath
ImportVI
IsProjectValid
LoadVIInfo

LabVIEWParameters
LabVIEWParameter

PropertyObject
LabVIEWParameter

Properties
ArrayDimensions (Read Only)
ArrayElementPrototype (Read Only)
Category (Read Only)
ComplexImaginaryPartElement (Read Only)
ComplexRealPartElement (Read Only)
DefaultValue (Read Only)
Direction (Read Only)
DisplayType (Read Only)
Elements (Read Only)
IsNodeUsingDefault
ParameterCaption (Read Only)
ParameterName (Read Only)
PartiallySpecified (Read Only)
PassAsBinaryString
Type (Read Only)
TypeDisplayString (Read Only)
UseDefaultValue
UserData (Read Only)
ValidEvaluationTypes (Read Only)
ValueExpr
ValueExprIsIgnored (Read Only)
ValueExprIsOptional (Read Only)
WireRequirement (Read Only)

Methods
AsPropertyObject
CreateDefaultArrayElements
DeleteArrayElement
DeleteArrayElements
DisplayCreateCustomDataTypeDialog
ExprClusterTypeMismatch
GetArrayIndex
GetDefaultArrayDimensionSize
GetEnumValues
InsertArrayElement
IsClusterMappingInvalid
UpdateClusterMapping

LabVIEWParameterElements
LabVIEWParameterElement

PropertyObject
LabVIEWParameterElement

Properties
ArrayDimensions (Read Only)
ArrayElementPrototype (Read Only)
Category (Read Only)
ComplexImaginaryPartElement (Read Only)
ComplexRealPartElement (Read Only)
DefaultValue (Read Only)
Direction (Read Only)

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DisplayType (Read Only)
ElementCaption (Read Only)
ElementName (Read Only)
Elements (Read Only)
IndexString (Read Only)
IsNodeUsingDefault
PartiallySpecified (Read Only)
PassAsBinaryString
Type (Read Only)
TypeDisplayString (Read Only)
UseDefaultValue
UserData (Read Only)
ValidEvaluationTypes (Read Only)
ValueExpr
ValueExprIsIgnored (Read Only)
ValueExprIsOptional (Read Only)
WireRequirement (Read Only)

Methods
AsPropertyObject
CreateDefaultArrayElements
DeleteArrayElement
DeleteArrayElements
DisplayCreateCustomDataTypeDialog
ExprClusterTypeMismatch
GetArrayIndex
GetDefaultArrayDimensionSize
GetEnumValues
InsertArrayElement
IsClusterMappingInvalid
UpdateClusterMapping

LabVIEWNodeProperties
LabVIEWNodeProperty

PropertyObject
LabVIEWNodeProperty

Properties
DataName
Direction
LongName
UniqueID

Methods
AsPropertyObject

SequenceAdapter

PropertyObject
Adapter
SequenceAdapter

Properties
This class has no properties.

Methods
AsAdapter
GetSequenceFile

SequenceCallModule

PropertyObject
Module
SequenceCallModule

Properties
CPUAffinityForNewThreadOption
CustomCPUAffinityForNewThread
IgnoreTermination
InitiallySuspended
MultithreadingAndRemoteExecOption
NewExecutionBreakOnEntryExpr
NewExecutionModelOption
NewExecutionModelPath
NewExecutionTypeMask
NewExecutionTypeMaskExpr
NewExecutionWaitForCompletion
NewThreadOptions
ParameterPrototype (Read Only)
Parameters (Read Only)
RemoteHost
SequenceFilePath
SequenceName
SpecifyByExpression
SpecifyHostByExpression
StoreActiveXReferenceExpr
TraceSetting
UseCurrentFile
UseSequenceParameterPrototype

Methods
AsModule
LoadPrototypeFromSequence

SequenceCallParameters
SequenceCallParameter

PropertyObject
SequenceCallParameter

Properties
ArgumentObject (Read Only)
Name (Read Only)
PassByReference (Read Only)
PropertyObjectType (Read Only)
TypeDisplayString (Read Only)
UseDefaultValue
UserData (Read Only)
ValidEvaluationTypes (Read Only)
ValueExpr

Methods
This class has no methods.