



WATS Client API Help

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Virinco.WATS.Teststand

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WATS Client API Help Documentation

Welcome to the WATS Client API Help. The WATS Client API is divided into 3 APIs, each serving different needs. To learn more, view how-to articles or videos, visit support.virinco.com.

TDM Interface

Use the TDM Interface to programmatically create and submit WATS Reports. Both UUT (test report) and UUR (repair report) is supported.

MES Interface

Use the MES Interface to query for unit or product information, software packages, workflow, and assets.

TestStand support

The TestStand support API is primarily used from TestStand for simplified interface between the WATS's .Net APIs (TDM and MES) and TestStand.

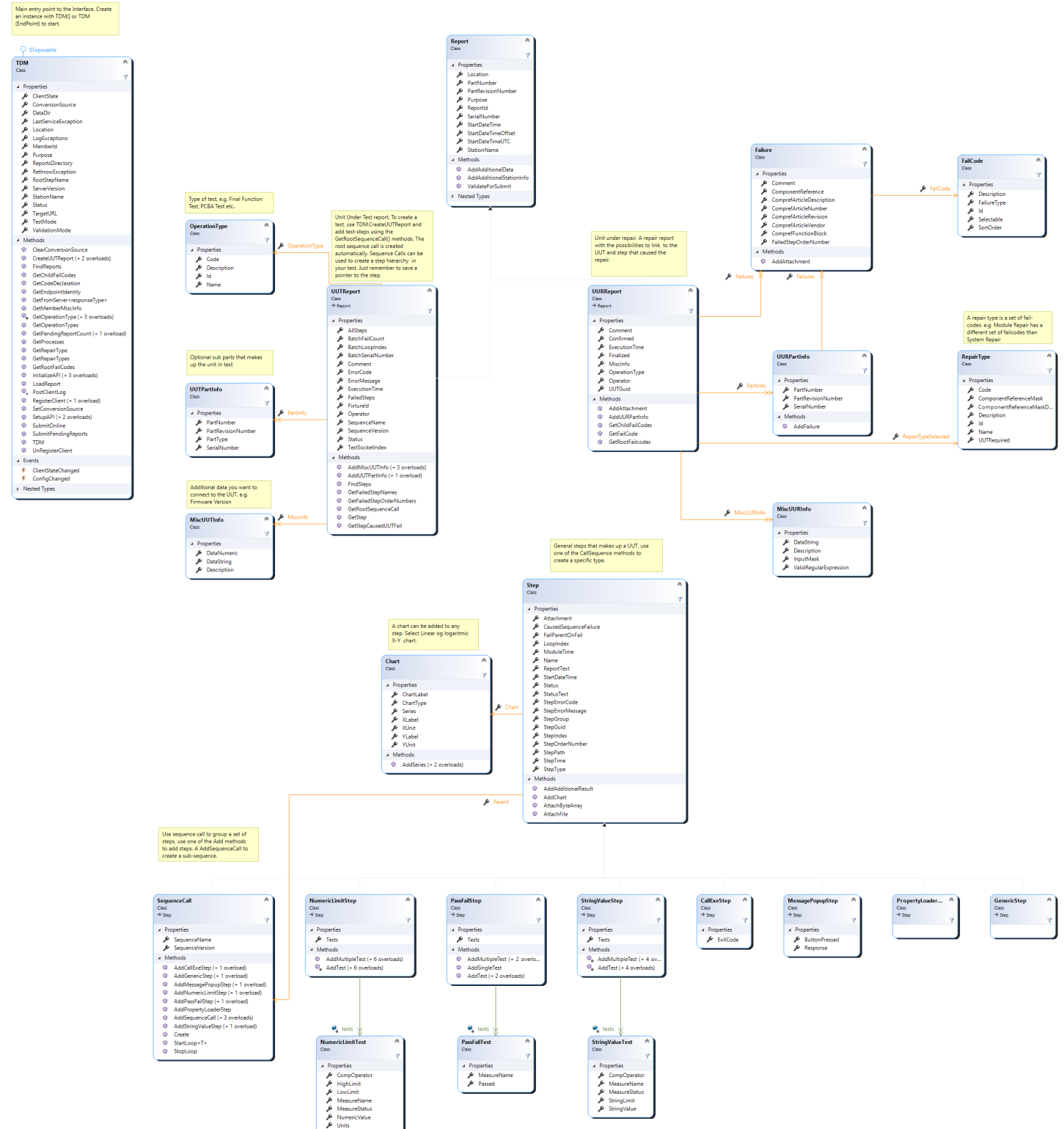
TDM Interface

Welcome to WATS TDM (Test Data Management) Interface for .NET.

WATS TDM Interface is a toolset that enables you to record test data into WATS. You write your tests in .NET using C#, VB or any .NET compliant language.

The interface provides an object model that easily lets you record test result in a hierarchical structure, supporting test-step types like numeric limit measurement, string measurement, and pass/fail measurements. After recording a test, you may submit the test directly to your WATS, or if you are not connected - save the test locally for later transmission to server.

After installing WATS TDM Interface, you simply reference the Virinco.WATS.Interface.TDM.dll, normally located in C:\Program Files\Virinco\WATS\ folder. Then you make an instance of the TDM class, working from here in this object model:



Namespace Virinco.WATS.Interface

Classes

[AdditionalData](#)

An additional data can represent any kind of data, formatted as xml node.

[AdditionalResult](#)

Reserved for use with TestStand. Does not show up in analysis. An additional result can represent any kind of data as XML. Only data formatted the way TestStand does is shown in UUT report.

[Asset](#)

Represents an asset to track the use of.

[AssetStatistics](#)

Statistics about an asset from the point in time when the report was submitted to WATS. Only available when getting the report from the server with [LoadReport\(String\)](#).

[Attachment](#)

An attachment (file) to any step type can be added

[CallExeStep](#)

Represent a call to external program.

[Chart](#)

A chart step represents graph of numeric series.

[ChartSerie](#)

Return a XY plot serie of a graph

[ConversionSource](#)

A class holding reference to the sourcefile and converter parameters for the current conversion operation.

[ExampleReport](#)

Used to generates advanced example UUR and UUT objects.

[FailCode](#)

Repair failcodes, defined in WATS

[FailCodes](#)

[Failure](#)

This class represent a failure found and can be connected to an UUR report or a UURPartInfo (subpart)

[GenericStep](#)

This steptype supports steps that is not a test Depending on the Step

[MessagePopupStep](#)

Represent a popup message box to user.

[MiscUURInfo](#)

Misc information attached to an UUR

Misc information attached to an UUT.

MiscUURInfoCollection

MiscUUTInfo

Represents information that can be connected to a UUT. An example could be firmware version.

NumericLimitStep

A numeric limit step will contain one or more [NumericLimitTest](#).

An example of a numeric limit test is to test that the input voltage is within limits. If there are multiple tests to a step use one of the overloads of [AddMultipleTest\(Double, CompOperatorType, Double, Double, String, String\)](#).

```
uut.RootSequenceCall.AddNumericLimitStep("NumTest").AddTest(231, CompOperatorType.GELE, 235, 233, "V");
```

NumericLimitTest

A numeric test in a NumericLimitStep.

OperationType

This class represents a type of test defined in WATS

PassFailStep

A pass fail step will contain one or more [PassFailTest](#). If there are multiple tests to a step use one of the overloads of [AddMultipleTest\(Boolean, String\)](#). `uut.RootSequenceCall.AddPassFailStep("PassFailTest").AddTest(false);`

PassFailTest

A pass fail test in a PassFailStep.

PropertyLoaderStep

Teststand property loader

RepairType

A repair type is a set of fail-codes. e.g. Module Repair has a different set of failcodes than System Repair

Report

Common properties to a UUT or UUR report, cannot be used directly

ReportValidationResult

WATSReport validation result item. An IEnumerable list of ReportValidationResult is found in the Error property of the WATSReportValidationException.

SequenceCall

Step

Steps are the content of a UUT report. WATS support

StringValueStep

A string value step will contain one or more [StringValueTest](#). If there are multiple tests to a step use one of the overloads of [AddMultipleTest\(CompOperatorType, String, String, String\)](#).

```
uut.RootSequenceCall.AddStringValueStep("StringTest").AddTest(CompOperatorType.GELE, "value", "limit");
```

StringValueTest

A string value test in a StringValueStep.

TDM

Library toolkit to create test in WATS

[TDM.ClientStateChangedEventArgs](#)

[TDM.ConfigChangedEventArgs](#)

[TDM.StatusChangedEventArgs](#)

[UURAttachment](#)

An attachment (file) to a UUR report or failure

[UURPartInfo](#)

Sub part information

[UURReport](#)

A unit under repair report (UUR)

[UUTPartInfo](#)

Sub part information

[UUTReport](#)

A unit under test report (UUT) contains calls and datastructures to build up a test report you can submit to WATS use [CreateUUTReport\(String, String, String, String, OperationType, String, String\)](#) to create an instance.

[WATSReportValidationException](#)

Exception class thrown from WATSReport.ValidateForSubmit if one or more Errors was found.

Interfaces

[IReportConverter](#)

Interface used for converting files into WATS Reports using WATS TDM API.

[IReportConverter_v2](#)

New version of the converter interface Use Default constructor to retrieve default ConverterParameters

Enums

[APIStatusType](#)

Status of API

[ChartType](#)

Chart type

[CompOperatorType](#)

Comparison operator

[ConversionSource.PostProcessAction](#)

[FailureTypeEnum](#)

Failure type used in WATS reporting

[GenericStepTypes](#)

Generic step types (without testdata) will generate icons

Report.ReportTransferStatusEnum

Represents a report's transfer status. The report file extension reflects the report's current transfer status.

StepGroupEnum

Step Groups

StepStatusType

Step / Measure status

SubmitMethod

Method for delivering reports.

TDM.InitializationMode

Initialization mode

TestModeType

Sets or gets API test mode

UUTStatusType

UUT status

ValidationModeType

Defines how the API will respond to errors. Main cases are:

- Property length Violations
- Invalid xml characters
- Missing properties Invalid XML Characters are defined with this regular expression: `[(?<![\uD800-\uDBFF])[\uDC00-\uDFFF]|\uD800-\uDBFF|[\x00-\x08\x0B\x0C\x0E-\x1F\x7F-\x9F\uFEFF\uFFFE\uFFFF]`

Delegates

TDM.ClientStateChangedEventHandler

TDM.ConfigChangedEventHandler

TDM.StatusChangedEventHandler

Class AdditionalData

An additional data can represent any kind of data, formatted as xml node.

Inheritance

System.Object
AdditionalData

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class AdditionalData
```

Properties

Contents

Contents

Declaration

```
public XElement Contents { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Xml.Linq.XElement	

Name

Element Name

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class AdditionalResult

Reserved for use with TestStand. Does not show up in analysis. An additional result can represent any kind of data as XML. Only data formatted the way TestStand does is shown in UUT report.

Inheritance

System.Object
AdditionalResult

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class AdditionalResult
```

Properties

Contents

Contents

Declaration

```
public XElement Contents { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Xml.Linq.XElement	

Name

Element Name

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Enum APIStatusType

Status of API

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum APIStatusType : short
```

Fields

NAME	DESCRIPTION
Disposing	The API is disposing - stop any processing immediately.
Error	There is an error condition, see the application eventlog for details.
NotActivated	The client is not activated for use with configured server
NotInstalled	The API is not setup properly, run the installer
NotRegistered	The client is not registered with any server.
Offline	Currently offline from WATS
Online	Online contact with WATS server ok
Unknown	Un-initialized, call initialize to set

Class Asset

Represents an asset to track the use of.

Inheritance

System.Object
Asset

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Asset
```

Properties

AssetSerialNumber

Serial number of the asset.

Declaration

```
public string AssetSerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UsageCount

How much the asset was used.

Declaration

```
public int UsageCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

UsageCountFormat

The number format for the usage count. See [NumericValueFormat](#) for more info.

Declaration

```
public string UsageCountFormat { get; set; }
```


Property Value

TYPE	DESCRIPTION
System.String	

Class AssetStatistics

Statistics about an asset from the point in time when the report was submitted to WATS. Only available when getting the report from the server with [LoadReport\(String\)](#).

Inheritance

System.Object
AssetStatistics

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class AssetStatistics
```

Properties

AssetSerialNumber

Serial number of the asset.

Declaration

```
public string AssetSerialNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CalibrationDaysOverdue

How many days the asset is overdue a calibration when being used in the test according to the asset's calibration interval, or `null` if the asset does not have a calibration interval or did not exists when the report was submitted. Is negative if the interval has not been exceeded (flip the sign to get days remaining).

Declaration

```
public decimal? CalibrationDaysOverdue { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

DaysSinceCalibration

How many days since the asset had been calibrated when being used in the test, or `null` if the asset had never been calibrated or

did not exists when the report was submitted.

Declaration

```
public decimal? DaysSinceCalibration { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

DaysSinceMaintenance

How many days since the asset had been maintenance when being used in the test, or `null` if the asset had never been calibrated or did not exists when the report was submitted.

Declaration

```
public decimal? DaysSinceMaintenance { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

MaintenanceDaysOverdue

How many days the asset is overdue a maintenance when being used in the test according to the asset's maintenance interval, or `null` if the asset does not have a maintenance interval or did not exists when the report was submitted. Is negative if the interval has not been exceeded (flip the sign to get days remaining).

Declaration

```
public decimal? MaintenanceDaysOverdue { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

Message

Message from statistics calculation. Usually set if something went wrong, like the asset not existing.

Declaration

```
public string Message { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunningCount

The asset's running count after being used in the test, or `null` if the asset did not exists when the report was submitted.

Declaration

```
public int? RunningCount { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

RunningCountExceeded

How much the asset's running count exceeded the limit by after being used in the test, or `null` if the asset does not have a running count limit or did not exists when the report was submitted. Is negative if the count had not exceeded the limit (flip the sign to get remaining).

Declaration

```
public int? RunningCountExceeded { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

TotalCount

The asset's total count after being used in the test, or `null` if the asset did not exists when the report was submitted.

Declaration

```
public int? TotalCount { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

TotalCountExceeded

How much the asset's total count exceeded the limit by after being used in the test, or `null` if the asset does not have a total count limit or did not exists when the report was submitted. Is negative if the count had not exceeded the limit (flip the sign to get remaining).

Declaration

```
public int? TotalCountExceeded { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

Class Attachment

An attachment (file) to any step type can be added

Inheritance

System.Object
Attachment

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Attachment
```

Properties

Data

Returns attachment data as byte array

Declaration

```
public byte[] Data { get; }
```

Property Value

TYPE	DESCRIPTION
System.Byte[]	

FileName

Original filename (if set)

Declaration

```
public string FileName { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MimeType

MIME type of the attachment

Declaration

```
public string MimeType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

SaveDataToFile(String)

Save attachment as file

Declaration

```
public void SaveDataToFile(string fileName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	fileName	

Class CallExeStep

Represent a call to external program.

Inheritance

System.Object

[Step](#)

CallExeStep

Inherited Members

[Step.StepGuid](#)

[Step.Parent](#)

[Step.StepPath](#)

[Step.StepType](#)

[Step.StepOrderNumber](#)

[Step.StepIndex](#)

[Step.Name](#)

[Step.FailParentOnFail](#)

[Step.CausedSequenceFailure](#)

[Step.Status](#)

[Step.StatusText](#)

[Step.ReportText](#)

[Step.StepTime](#)

[Step.StepTimeFormat](#)

[Step.ModuleTime](#)

[Step.ModuleTimeFormat](#)

[Step.StartDateTime](#)

[Step.StepGroup](#)

[Step.StepErrorMessage](#)

[Step.StepErrorCode](#)

[Step.StepErrorCodeFormat](#)

[Step.AddChart\(ChartType, String, String, String, String, String, String\)](#)

[Step.Chart](#)

[Step.AttachFile\(String, Boolean\)](#)

[Step.Attachment](#)

[Step.AddAdditionalResult\(String, XElement\)](#)

[Step.AdditionalResult](#)

[Step.AttachByteArray\(String, Byte\[\], String\)](#)

[Step.LoopIndex](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: [Virinco.WATS.Interface.TDM.dll](#)

Syntax

```
public class CallExeStep : Step
```

Properties

ExitCode

Exit code of the executable.

Declaration

```
public double ExitCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

ExitCodeFormat

The number format for the exit code. See [NumericValueFormat](#) for more info.

Declaration

```
public string ExitCodeFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

RemoveStepData()

Declaration

```
protected override void RemoveStepData()
```

Overrides

[Step.RemoveStepData\(\)](#)

Class Chart

A chart step represents graph of numeric series.

Inheritance

System.Object
Chart

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Chart
```

Properties

ChartLabel

Chart label

Declaration

```
public string ChartLabel { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ChartType

Chart type

Declaration

```
public ChartType ChartType { get; }
```

Property Value

TYPE	DESCRIPTION
ChartType	

Series

Returns Chart series

Declaration

```
public ChartSerie[] Series { get; }
```

Property Value

TYPE	DESCRIPTION
ChartSerie[]	

XLabel

XLabel

Declaration

```
public string XLabel { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

XUnit

XUnit

Declaration

```
public string XUnit { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

YLabel

YLabel

Declaration

```
public string YLabel { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

YUnit

YUnit

Declaration

```
public string YUnit { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

AddSeries(String, Double[])

Adds a series to the graph, using x values 0,1,2..N-1

Declaration

```
public void AddSeries(string seriesName, double[] yValues)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	seriesName	
System.Double[]	yValues	

AddSeries(String, Double[], Double[])

Adds a series to the graph, specifying data in two double arrays

Declaration

```
public void AddSeries(string seriesName, double[] xValues, double[] yValues)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	seriesName	
System.Double[]	xValues	
System.Double[]	yValues	

AddSeries(String, Double[,])

Adds a plot series to the graph

Declaration

```
public void AddSeries(string seriesName, double[, ] dataValues)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	seriesName	
System.Double[,]	dataValues	

Class ChartSerie

Return a XY plot serie of a graph

Inheritance

System.Object
ChartSerie

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ChartSerie
```

Properties

PlotName

Name of plot serie

Declaration

```
public string PlotName { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

GetValues(out Double[], out Double[])

Gets the X and Y values of a plot serie

Declaration

```
public void GetValues(out double[] xValues, out double[] yValues)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double[]	xValues	
System.Double[]	yValues	

Enum ChartType

Chart type

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum ChartType : short
```

Fields

NAME	DESCRIPTION
Line	Normal, linear X-Y graph
LineLogX	Use logarithmic scaling on X-Axis
LineLogXY	Use logarithmic scaling on both axis
LineLogY	Use logarithmic scaling on Y-Axis

Enum CompOperatorType

Comparition operator

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum CompOperatorType : short
```

Fields

NAME	DESCRIPTION
CASESENSIT	Case Sensitive
EQ	EQ (==)
GE	GE (>=)
GELE	GELE (>= AND <=)
GELT	GELT(>= AND <)
GT	GT (>)
GTLE	GTLE (> AND <=)
GTLT	GTLT (> AND <)
IGNORECASE	Ignore Case
LE	LE (<=)
LEGE	LEGE (<= OR >=)
LEGT	LEGT(<= OR >)
LOG	No Comparison

NAME	DESCRIPTION
LT	LT (<)
LTGE	LTGE (< OR >=)
LTGT	LTGT (< OR >)
NE	NE (!=)

Class ConversionSource

A class holding reference to the sourcefile and converter parameters for the current conversion operation.

Inheritance

System.Object
ConversionSource

Implements

System.IDisposable

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ConversionSource : IDisposable
```

Fields

CompletedFolder

Declaration

```
public const string CompletedFolder = "Done"
```

Field Value

TYPE	DESCRIPTION
System.String	

ErrorFolder

Declaration

```
public const string ErrorFolder = "Error"
```

Field Value

TYPE	DESCRIPTION
System.String	

Properties

ConversionLog

A stream used for reporting conversion information and progress.

Declaration

```
public Stream ConversionLog { get; }
```


Property Value

TYPE	DESCRIPTION
System.IO.Stream	

ConversionSourceRelativePath

Relative uri to the source "root" folder for the current conversion operation. This property is only valid when the API is accessed in a converter activated from WATS Client Service.

Declaration

```
public Uri ConversionSourceRelativePath { get; }
```

Property Value

TYPE	DESCRIPTION
System.Uri	

ConversionSourceRoot

Uri to the source "root" folder for the current conversion operation. This property is only valid when the API is accessed in a converter activated from WATS Client Service.

Declaration

```
public Uri ConversionSourceRoot { get; }
```

Property Value

TYPE	DESCRIPTION
System.Uri	

ErrorLog

A stream used for reporting errors during conversion operation.

Declaration

```
public Stream ErrorLog { get; }
```

Property Value

TYPE	DESCRIPTION
System.IO.Stream	

SourceFile

Reference to the source file for the current conversion operation. This property is only valid when the API is accessed in a converter activated from WATS Client Service.

Declaration

```
public FileInfo SourceFile { get; }
```

Property Value

TYPE	DESCRIPTION
System.IO.FileInfo	

SourceFilter

Filter to match files to in the [ConversionSourceRoot](#) folder. The [SourceFile](#) matches this filter. This property is only valid when the API is accessed in a converter activated from WATS Client Service.

Declaration

```
public string SourceFilter { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SourcePostProcessAction

Action for what will be done with the [SourceFile](#) after successful conversion.

Declaration

```
public ConversionSource.PostProcessAction SourcePostProcessAction { get; }
```

Property Value

TYPE	DESCRIPTION
ConversionSource.PostProcessAction	

Methods

Dispose()

Declaration

```
public void Dispose()
```

LogErrorMessage(String)

Declaration

```
public void LogErrorMessage(string ErrorMessage)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	ErrorMessage	

LogException(Exception, String)

Declaration

```
public void LogException(Exception e, string message)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Exception	e	
System.String	message	

Implements

System.IDisposable

Enum ConversionSource.PostProcessAction

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum PostProcessAction
```

Fields

NAME	DESCRIPTION
Archive	
Delete	
Move	

Class ExampleReport

Used to generates advanced example UUR and UUT objects.

Inheritance

System.Object
ExampleReport

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ExampleReport
```

Methods

GenerateExampleUUR()

Generates an advanced UUR report. *NOT YET IMPLEMENTED*

Declaration

```
public UURReport GenerateExampleUUR()
```

Returns

TYPE	DESCRIPTION
UURReport	

GenerateExampleUUT(TDM)

Generates an advanced UUT report.

Declaration

```
public UUTReport GenerateExampleUUT(TDM api)
```

Parameters

TYPE	NAME	DESCRIPTION
TDM	api	

Returns

TYPE	DESCRIPTION
UUTReport	

Class FailCode

Repair failcodes, defined in WATS

Inheritance

System.Object
FailCode

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class FailCode
```

Properties

Description

Failcode description

Declaration

```
public string Description { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FailureType

For WATS reporting purposes, use this enum

Declaration

```
public FailureTypeEnum FailureType { get; }
```

Property Value

TYPE	DESCRIPTION
FailureTypeEnum	

Id

Unique failcode ID

Declaration

```
public Guid Id { get; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Selectable

True if this is a selectable failcode, False if it is a failcode category

Declaration

```
public bool Selectable { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

SortOrder

Sorting order

Declaration

```
public int SortOrder { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Class FailCodes

Inheritance

System.Object

FailCodes

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class FailCodes
```

Methods

GetChildFailCodes(FailCode)

Get child failcodes of a failcode

Declaration

```
public FailCode[] GetChildFailCodes(FailCode failCode)
```

Parameters

TYPE	NAME	DESCRIPTION
FailCode	failCode	

Returns

TYPE	DESCRIPTION
FailCode[]	

GetRootFailCodes(RepairType)

Returns an array of failcodes on the root level

Declaration

```
public FailCode[] GetRootFailCodes(RepairType repairType)
```

Parameters

TYPE	NAME	DESCRIPTION
RepairType	repairType	

Returns

TYPE	DESCRIPTION
FailCode[]	

Class Failure

This class represent a failure found and can be connected to an UUR report or a UURPartInfo (subpart)

Inheritance

System.Object
Failure

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Failure
```

Properties

Attachments

Get files attached to this failure.

Declaration

```
public UURAttachment[] Attachments { get; }
```

Property Value

TYPE	DESCRIPTION
UURAttachment[]	

Comment

Comment to the failure

Declaration

```
public string Comment { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ComponentReference

Reference to failed component; e.g. R12

Declaration

```
public string ComponentReference { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ComprefArticleDescription

Component reference article description

Declaration

```
public string ComprefArticleDescription { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ComprefArticleNumber

Article number of a component

Declaration

```
public string ComprefArticleNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ComprefArticleRevision

Article revision of a component

Declaration

```
public string ComprefArticleRevision { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ComprefArticleVendor

Component vendor

Declaration

```
public string ComprefArticleVendor { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ComprefunctionBlock

Component functional block (area)

Declaration

```
public string ComprefunctionBlock { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FailCode

A valid fail code

Declaration

```
public FailCode FailCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
FailCode	

FailedStepOrderNumber

It is possible to link the failure to the UUT test step. Put UUT step order in here.

Declaration

```
public int FailedStepOrderNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Methods

AddAttachment(Byte[], String, String)

Adds a picture to a failure

Declaration

```
[Obsolete("Use AttachByteArray instead.")]  
public void AddAttachment(byte[] image, string fileName, string contentType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Byte[]	image	Byte array with pickture

TYPE	NAME	DESCRIPTION
System.String	fileName	Filename of picture
System.String	contentType	Mime type of attached picture

AttachByteArray(String, Byte[], String)

Attaches a byte array to the failure.

Declaration

```
public UURAttachment AttachByteArray(string label, byte[] content, string mimeType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	label	Will be showed in WATS as a label to the attachment
System.Byte[]	content	Byte array (binary data) to be attached
System.String	mimeType	Will decide how the browser opens the attachement. see: http://en.wikipedia.org/wiki/Internet_media_type for details If blank, mimeType application/octet-stream will be used

Returns

TYPE	DESCRIPTION
UURAttachment	

AttachFile(String, Boolean)

Attaches a file to the failure.

Declaration

```
public UURAttachment AttachFile(string fileName, bool deleteAfterAttach)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	fileName	Full path and name of file
System.Boolean	deleteAfterAttach	If true, the file is deleted after being attached

Returns

TYPE	DESCRIPTION
UURAttachment	

Enum FailureTypeEnum

Failure type used in WATS reporting

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum FailureTypeEnum
```

Fields

NAME	DESCRIPTION
Component	Component failure
Default	Common failure
NoFailureFound	No failure found
Process	Process failure
Scrapped	Unit scrapped

Class GenericStep

This steptype supports steps that is not a test Depending on the Step

Inheritance

System.Object

[Step](#)

GenericStep

Inherited Members

[Step.StepGuid](#)

[Step.Parent](#)

[Step.StepPath](#)

[Step.StepType](#)

[Step.StepOrderNumber](#)

[Step.StepIndex](#)

[Step.Name](#)

[Step.FailParentOnFail](#)

[Step.CausedSequenceFailure](#)

[Step.Status](#)

[Step.StatusText](#)

[Step.ReportText](#)

[Step.StepTime](#)

[Step.StepTimeFormat](#)

[Step.ModuleTime](#)

[Step.ModuleTimeFormat](#)

[Step.StartDateTime](#)

[Step.StepGroup](#)

[Step.StepErrorMessage](#)

[Step.StepErrorCode](#)

[Step.StepErrorCodeFormat](#)

[Step.AddChart\(ChartType, String, String, String, String, String\)](#)

[Step.Chart](#)

[Step.AttachFile\(String, Boolean\)](#)

[Step.Attachment](#)

[Step.AddAdditionalResult\(String, XElement\)](#)

[Step.AdditionalResult](#)

[Step.AttachByteArray\(String, Byte\[\], String\)](#)

[Step.LoopIndex](#)

[Step.RemoveStepData\(\)](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class GenericStep : Step
```


Enum GenericStepTypes

Generic step types (without testdata) will generate icons

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum GenericStepTypes : short
```

Fields

NAME	DESCRIPTION
Action	Generic icon
AutoSchedule	Generic icon
BatchSpecification	Generic icon
BatchSynchronization	Generic icon
Break	Generic icon
Case	Generic icon
CheckRemoteSystemStatus	Generic icon
CloseDatabase	Generic icon
CloseSQLStatement	Generic icon
Continue	Generic icon
DataOperation	Generic icon
DoWhile	Generic icon
Else	Generic icon

NAME	DESCRIPTION
Elself	Generic icon
End	Generic icon
For	Generic icon
ForEach	Generic icon
FTPFiles	Generic icon
Goto	Generic icon
If	Generic icon
IVIDmm	Generic icon
IVIFgen	Generic icon
IVIPowerSupply	Generic icon
IVIScope	Generic icon
IVITools	Generic icon
Label	Inserts a label with StepName
Lock	Generic icon
Notification	Generic icon
OpenDatabase	Generic icon

NAME	DESCRIPTION
OpenSQLStatement	Generic icon
Queue	Generic icon
Rendezvous	Generic icon
RunVIAynchronously	Generic icon
Select	Generic icon
Semaphore	Generic icon
Switch	Generic icon
ThreadPriority	Generic icon
UseAutoScheduledResource	Generic icon
Wait	Generic icon
While	Generic icon

Interface IReportConverter

Interface used for converting files into WATS Reports using WATS TDM API.

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public interface IReportConverter
```

Remarks

Previously defined method Interface.Report ImportReport(TDM, System.IO.FileInfo) is now removed from this interface.

Methods

CleanUp()

Clean up after import. e.g. delete linked or "external" import files etc. Called on the same instance, but after submission and without a valid TDM API

Declaration

```
void CleanUp()
```

ImportReport(TDM, Stream)

Called from WATS Client Service when incoming files matches configured converter filters Use constructor ReportConverter(IDictionary(string string) args)

Declaration

```
Report ImportReport(TDM api, Stream file)
```

Parameters

TYPE	NAME	DESCRIPTION
TDM	api	Initialized WATS TDM API Instance
System.IO.Stream	file	An exclusively locked file stream, opened readonly and ready for use

Returns

TYPE	DESCRIPTION
Report	If return value contains an instance to a Report, the calling client will (auto-)submit the report. If null is returned the implementation is responsible for report submission

Interface IReportConverter_v2

New version of the converter interface Use Default constructor to retrieve default ConverterParameters

Inherited Members

[IReportConverter.ImportReport\(TDM, Stream\)](#)
[IReportConverter.CleanUp\(\)](#)

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public interface IReportConverter_v2 : IReportConverter
```

Properties

ConverterParameters

Exposes Default parmeters to the converter. Will be used by the client configurator.

Declaration

```
Dictionary<string, string> ConverterParameters { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, System.String>	

Class MessagePopupStep

Represent a popup message box to user.

Inheritance

System.Object

[Step](#)

MessagePopupStep

Inherited Members

[Step.StepGuid](#)

[Step.Parent](#)

[Step.StepPath](#)

[Step.StepType](#)

[Step.StepOrderNumber](#)

[Step.StepIndex](#)

[Step.Name](#)

[Step.FailParentOnFail](#)

[Step.CausedSequenceFailure](#)

[Step.Status](#)

[Step.StatusText](#)

[Step.ReportText](#)

[Step.StepTime](#)

[Step.StepTimeFormat](#)

[Step.ModuleTime](#)

[Step.ModuleTimeFormat](#)

[Step.StartDateTime](#)

[Step.StepGroup](#)

[Step.StepErrorMessage](#)

[Step.StepErrorCode](#)

[Step.StepErrorCodeFormat](#)

[Step.AddChart\(ChartType, String, String, String, String, String, String\)](#)

[Step.Chart](#)

[Step.AttachFile\(String, Boolean\)](#)

[Step.Attachment](#)

[Step.AddAdditionalResult\(String, XElement\)](#)

[Step.AdditionalResult](#)

[Step.AttachByteArray\(String, Byte\[\], String\)](#)

[Step.LoopIndex](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: [Virinco.WATS.Interface.TDM.dll](#)

Syntax

```
public class MessagePopupStep : Step
```

Properties

ButtonFormat

The number format for the button. See [NumericValueFormat](#) for more info.

Declaration

```
public string ButtonFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ButtonPressed

The index of the button pressed in the popup.

Declaration

```
public short ButtonPressed { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

Response

The response text of the popup.

Declaration

```
public string Response { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

RemoveStepData()

Declaration

```
protected override void RemoveStepData()
```

Overrides

[Step.RemoveStepData\(\)](#)

Class MiscUURInfo

Misc information attached to an UUR

Inheritance

System.Object
MiscUURInfo

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class MiscUURInfo
```

Properties

DataStream

The string value of the info, e.g. 1.15.3

Declaration

```
public string DataString { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Description

The information description, e.g. SWVer1

Declaration

```
public string Description { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

InputMask

GUI mask

Declaration

```
public string InputMask { get; }
```


Property Value

TYPE	DESCRIPTION
System.String	

ValidRegularExpression

A regular expression will be validated

Declaration

```
public string ValidRegularExpression { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class MiscUURInfoColletion

Inheritance

System.Object
MiscUURInfoColletion

Implements

System.Collections.Generic.IEnumerable<MiscUURInfo>
System.Collections.IEnumerable

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class MiscUURInfoColletion : IEnumerable<MiscUURInfo>, IEnumerable
```

Constructors

MiscUURInfoColletion(IEnumerable<MiscUURInfo>)

Declaration

```
public MiscUURInfoColletion(IEnumerable<MiscUURInfo> value)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.IEnumerable< MiscUURInfo >	value	

Properties

Item[Int32]

Collection property accessor for UUR MiscInfo using ordinal index field.

Declaration

```
public string this[int fieldIndex] { get; set; }
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	fieldIndex	UUR MiscInfo field ordinal index

Property Value

TYPE	DESCRIPTION
System.String	Sets or gets the value for the given repair miscinfo field

Item[String]

Collection property accessor for UUR MiscInfo using description field. FieldName must be unique in the repair definition, or this indexer will fail

Declaration

```
public string this[string fieldName] { get; set; }
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	fieldName	UUR MiscInfo Description field name

Property Value

TYPE	DESCRIPTION
System.String	Sets or gets the value for the given repair miscinfo field

Methods

GetEnumerator()

Declaration

```
public IEnumerable<MiscUURInfo> GetEnumerator()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.IEnumerator< MiscUURInfo >	

Explicit Interface Implementations

IEnumerable.GetEnumerator()

Declaration

```
IEnumerator IEnumerable.GetEnumerator()
```

Returns

TYPE	DESCRIPTION
System.Collections.IEnumerator	

Implements

System.Collections.Generic.IEnumerable<T>
System.Collections.IEnumerable

Class MiscUUTInfo

Represents information that can be connected to a UUT. An example could be firmware version.

Inheritance

System.Object
MiscUUTInfo

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class MiscUUTInfo
```

Properties

DataNumeric

The numeric value.

Declaration

```
public short DataNumeric { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

DataNumericFormat

The number format for the numeric data. See [NumericValueFormat](#) for more info.

Declaration

```
public string DataNumericFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DataString

The text value, e.g. 1.15.3.

Declaration

```
public string DataString { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Description

The information description, e.g. SWVer1. Try to keep it short, as it will use space in the WATS database.

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class NumericLimitStep

A numeric limit step will contain one or more [NumericLimitTest](#).

An example of a numeric limit test is to test that the input voltage is within limits. If there are multiple tests to a step use one of the overloads of [AddMultipleTest\(Double, CompOperatorType, Double, Double, String, String\)](#).

```
uut.RootSequenceCall.AddNumericLimitStep("NumTest").AddTest(231, CompOperatorType.GELE, 235, 233, "V");
```

Inheritance

System.Object

[Step](#)

NumericLimitStep

Inherited Members

[Step.StepGuid](#)

[Step.Parent](#)

[Step.StepPath](#)

[Step.StepType](#)

[Step.StepOrderNumber](#)

[Step.StepIndex](#)

[Step.Name](#)

[Step.FailParentOnFail](#)

[Step.CausedSequenceFailure](#)

[Step.StatusText](#)

[Step.ReportText](#)

[Step.StepTime](#)

[Step.StepTimeFormat](#)

[Step.ModuleTime](#)

[Step.ModuleTimeFormat](#)

[Step.StartDateTime](#)

[Step.StepGroup](#)

[Step.StepErrorMessage](#)

[Step.StepErrorCode](#)

[Step.StepErrorCodeFormat](#)

[Step.AddChart\(ChartType, String, String, String, String, String\)](#)

[Step.Chart](#)

[Step.AttachFile\(String, Boolean\)](#)

[Step.Attachment](#)

[Step.AddAdditionalResult\(String, XElement\)](#)

[Step.AdditionalResult](#)

[Step.AttachByteArray\(String, Byte\[\], String\)](#)

[Step.LoopIndex](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: [Virinco.WATS.Interface.TDM.dll](#)

Syntax

```
public class NumericLimitStep : Step
```

Properties

Status

Step status

Declaration

```
public override StepStatusType Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
StepStatusType	

Overrides

[Step.Status](#)

Tests

Returns one or more tests belonging to this step (Single/Multiple)

Declaration

```
public NumericLimitTest[] Tests { get; }
```

Property Value

TYPE	DESCRIPTION
NumericLimitTest[]	

Methods

AddMultipleTest(Double, String, String)

Adds a multiple numeric limit test without limits, no comparison is done, just log - with validation.

Declaration

```
public NumericLimitTest AddMultipleTest(double numericValue, string units, string measureName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
System.String	units	Measure units.
System.String	measureName	Name of test.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddMultipleTest(Double, String, String, StepStatusType)

Adds a multiple numeric limit test without limits, no comparison is done, just log - without validation. Status will be applied to the step, the test will have Passed or Failed.

Declaration

```
public NumericLimitTest AddMultipleTest(double numericValue, string units, string measureName, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
System.String	units	Measure units.
System.String	measureName	Name of test.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddMultipleTest(Double, CompOperatorType, Double, Double, String, String)

Adds a multiple numeric limit test with two limits - with validation.

Declaration

```
public NumericLimitTest AddMultipleTest(double numericValue, CompOperatorType compOperator, double lowLimit, double highLimit, string units, string measureName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.

TYPE	NAME	DESCRIPTION
System.Double	lowLimit	Lower test limit.
System.Double	highLimit	Upper test limit.
System.String	units	Measure units.
System.String	measureName	Name of test.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddMultipleTest(Double, CompOperatorType, Double, Double, String, String, StepStatusType)

Adds a multiple numeric limit test with two limits - without validation. Status will be applied to the step, the test will have Passed or Failed.

Declaration

```
public NumericLimitTest AddMultipleTest(double numericValue, CompOperatorType compOperator, double lowLimit, double highLimit, string units, string measureName, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.Double	lowLimit	Lower test limit.
System.Double	highLimit	Upper test limit.
System.String	units	Measure units.
System.String	measureName	Name of test.

TYPE	NAME	DESCRIPTION
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddMultipleTest(Double, CompOperatorType, Double, String, String)

Adds a multiple numeric limit test with one limit - with validation.

Declaration

```
public NumericLimitTest AddMultipleTest(double numericValue, CompOperatorType compOperator, double limit,
string units, string measureName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.Double	limit	Test limit.
System.String	units	Measure units.
System.String	measureName	Name of test.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddMultipleTest(Double, CompOperatorType, Double, String, String, StepStatusType)

Adds a multiple numeric limit test with one limit - without validation. Status will be applied to the step, the test will have Passed or Failed.

Declaration

```
public NumericLimitTest AddMultipleTest(double numericValue, CompOperatorType compOperator, double limit,
string units, string measureName, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.Double	limit	Test limit.
System.String	units	Measure units.
System.String	measureName	Name of test.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddTest(Double, String)

Adds a numeric limit test without limits, no comparison is done, just log - with validation.

Declaration

<pre>public NumericLimitTest AddTest(double numericValue, string units)</pre>

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
System.String	units	Measure units.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddTest(Double, String, StepStatusType)

Adds a numeric limit test without limits, no comparison is done, just log - without validation.

Declaration

```
public NumericLimitTest AddTest(double numericValue, string units, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
System.String	units	Measure units.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddTest(Double, CompOperatorType, Double, Double, String)

Adds a numeric limit test with two limits - with validation.

Declaration

```
public NumericLimitTest AddTest(double numericValue, CompOperatorType compOperator, double lowLimit, double highLimit, string units)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.Double	lowLimit	Lower test limit.
System.Double	highLimit	Upper test limit.
System.String	units	Measure units.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddTest(Double, CompOperatorType, Double, Double, String, StepStatusType)

Adds a numeric limit test with two limits - without Validation.

Declaration

```
public NumericLimitTest AddTest(double numericValue, CompOperatorType compOperator, double lowLimit, double highLimit, string units, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.Double	lowLimit	Lower test limit.
System.Double	highLimit	Upper test limit.
System.String	units	Measure units.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddTest(Double, CompOperatorType, Double, String)

Adds a numeric limit test with one limit - with validation.

Declaration

```
public NumericLimitTest AddTest(double numericValue, CompOperatorType compOperator, double limit, string units)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.Double	limit	Test limit.
System.String	units	Measure units.

Returns

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

AddTest(Double, CompOperatorType, Double, String, StepStatusType)

Adds a numeric limit test with one limit - without validation.

Declaration

```
public NumericLimitTest AddTest(double numericValue, CompOperatorType compOperator, double limit, string units, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	numericValue	Measured value.
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.Double	limit	Test limit.
System.String	units	Measure units.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
NumericLimitTest	Returns a reference to the test.

RemoveStepData()

Declaration

```
protected override void RemoveStepData()
```

Overrides

[Step.RemoveStepData\(\)](#)

Class NumericLimitTest

A numeric test in a NumericLimitStep.

Inheritance

System.Object
NumericLimitTest

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class NumericLimitTest
```

Properties

CompOperator

Comparison operator, see remarks for valid compare types.

Declaration

```
public CompOperatorType CompOperator { get; set; }
```

Property Value

TYPE	DESCRIPTION
CompOperatorType	

Remarks

- [EQ](#) - Equal
- [NE](#) - Not equal
- [GT](#) - Greater than
- [LT](#) - Less than
- [GE](#) - Greater than or equal
- [LE](#) - Less than or equal
- [GTLT](#) - Between, exclusive
- [GELE](#) - Between, inclusive
- [GELT](#) - Between, inclusive low, exclusive high
- [GTLE](#) - Between, exclusive low, inclusive high

[LTGT](#) - Not between, exclusive

[LEGE](#) - Not between, inclusive

[LEGT](#) - Not between, inclusive low, exclusive high

[LTGE](#) - Not between, exclusive low, inclusive high

[LOG](#) - No comparison

HighLimit

Comparision limit (High).

Declaration

```
public double HighLimit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

HighLimitFormat

The number format for the high limit. See [NumericValueFormat](#) for more info.

Declaration

```
public string HighLimitFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LowLimit

Comparision limit (Low)

Declaration

```
public double LowLimit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

LowLimitFormat

The number format for the low limit. See [NumericValueFormat](#) for more info.

Declaration

```
public string LowLimitFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MeasureName

Measure name (used for multiple values)

Declaration

```
public string MeasureName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MeasureStatus

Measure status enum (used for multiple tests).

Declaration

```
public StepStatusType MeasureStatus { get; set; }
```

Property Value

TYPE	DESCRIPTION
StepStatusType	

NumericValue

Measured value.

Declaration

```
public double NumericValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

NumericValueFormat

The number format for the numeric value. Uses C printf style number format. Example: Integer: %i, Hexadecimal: %#x, With 3 decimals: %.3f

Declaration

```
public string NumericValueFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TYPE	DESCRIPTION

Units

Numeric result unit

Declaration

```
public string Units { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class OperationType

This class represents a type of test defined in WATS

Inheritance

System.Object
OperationType

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class OperationType
```

Properties

Code

Code for operation type

Declaration

```
public string Code { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Description

Description of operation type

Declaration

```
public string Description { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Id

Operation type identifier

Declaration

```
public Guid Id { get; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Name

Name of operation type e.g. PCBA test

Declaration

```
public string Name { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class PassFailStep

A pass fail step will contain one or more [PassFailTest](#). If there are multiple tests to a step use one of the overloads of [AddMultipleTest\(Boolean, String\)](#). uut.RootSequenceCall.AddPassFailStep("PassFailTest").AddTest(false);

Inheritance

System.Object

[Step](#)

PassFailStep

Inherited Members

[Step.StepGuid](#)

[Step.Parent](#)

[Step.StepPath](#)

[Step.StepType](#)

[Step.StepOrderNumber](#)

[Step.StepIndex](#)

[Step.Name](#)

[Step.FailParentOnFail](#)

[Step.CausedSequenceFailure](#)

[Step.StatusText](#)

[Step.ReportText](#)

[Step.StepTime](#)

[Step.StepTimeFormat](#)

[Step.ModuleTime](#)

[Step.ModuleTimeFormat](#)

[Step.StartDateTime](#)

[Step.StepGroup](#)

[Step.StepErrorMessage](#)

[Step.StepErrorCode](#)

[Step.StepErrorCodeFormat](#)

[Step.AddChart\(ChartType, String, String, String, String, String, String\)](#)

[Step.Chart](#)

[Step.AttachFile\(String, Boolean\)](#)

[Step.Attachment](#)

[Step.AddAdditionalResult\(String, XElement\)](#)

[Step.AdditionalResult](#)

[Step.AttachByteArray\(String, Byte\[\], String\)](#)

[Step.LoopIndex](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class PassFailStep : Step
```

Properties

Status

Step status

Declaration

```
public override StepStatusType Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
StepStatusType	

Overrides

[Step.Status](#)

Tests

Returns one or more tests belonging to this step (Single/Multiple)

Declaration

```
public PassFailTest[] Tests { get; }
```

Property Value

TYPE	DESCRIPTION
PassFailTest[]	

Methods

AddMultipleTest(Boolean, String)

Adds a multiple pass fail test - with validation.

Declaration

```
public PassFailTest AddMultipleTest(bool passed, string measureName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	passed	Measure value.
System.String	measureName	Name of test.

Returns

TYPE	DESCRIPTION
PassFailTest	Returns a reference to the test.

AddMultipleTest(Boolean, String, StepStatusType)

Adds a multiple pass fail test - without validation. Status will be applied to the step, the test will have Passed or Failed.

Declaration

```
public PassFailTest AddMultipleTest(bool passed, string measureName, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	passed	Measured value.
System.String	measureName	Name of test.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
PassFailTest	Returns a reference to the test.

AddSingleTest()

Declaration

```
public PassFailTest AddSingleTest()
```

Returns

TYPE	DESCRIPTION
PassFailTest	

AddTest()

Declaration

```
[Obsolete]  
public PassFailTest AddTest()
```

Returns

TYPE	DESCRIPTION
PassFailTest	

AddTest(Boolean)

Adds a pass fail test - with validation.

Declaration

```
public PassFailTest AddTest(bool passed)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	passed	Measured value.

Returns

TYPE	DESCRIPTION
PassFailTest	Returns a reference to the test.

AddTest(Boolean, StepStatusType)

Adds a pass fail test - without validation.

Declaration

```
public PassFailTest AddTest(bool passed, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	passed	Measured value.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
PassFailTest	Returns a reference to the test.

RemoveStepData()

Declaration

```
protected override void RemoveStepData()
```

Overrides

[Step.RemoveStepData\(\)](#)

Class PassFailTest

A pass fail test in a PassFailStep.

Inheritance

System.Object
PassFailTest

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class PassFailTest
```

Properties

MeasureName

Measure name (used for multiple values).

Declaration

```
public string MeasureName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Passed

Measure status (used for multiple values)

Declaration

```
public bool Passed { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Class PropertyLoaderStep

Teststand property loader

Inheritance

System.Object

[Step](#)

PropertyLoaderStep

Inherited Members

[Step.StepGuid](#)

[Step.Parent](#)

[Step.StepPath](#)

[Step.StepType](#)

[Step.StepOrderNumber](#)

[Step.StepIndex](#)

[Step.Name](#)

[Step.FailParentOnFail](#)

[Step.CausedSequenceFailure](#)

[Step.Status](#)

[Step.StatusText](#)

[Step.ReportText](#)

[Step.StepTime](#)

[Step.StepTimeFormat](#)

[Step.ModuleTime](#)

[Step.ModuleTimeFormat](#)

[Step.StartDateTime](#)

[Step.StepGroup](#)

[Step.StepErrorMessage](#)

[Step.StepErrorCode](#)

[Step.StepErrorCodeFormat](#)

[Step.AddChart\(ChartType, String, String, String, String, String\)](#)

[Step.Chart](#)

[Step.AttachFile\(String, Boolean\)](#)

[Step.Attachment](#)

[Step.AddAdditionalResult\(String, XElement\)](#)

[Step.AdditionalResult](#)

[Step.AttachByteArray\(String, Byte\[\], String\)](#)

[Step.LoopIndex](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: [Virinco.WATS.Interface.TDM.dll](#)

Syntax

```
public class PropertyLoaderStep : Step
```

Properties

PropertiesApplied

Declaration

```
public short PropertiesApplied { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

PropertiesRead

Declaration

```
public short PropertiesRead { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

Methods

RemoveStepData()

Declaration

```
protected override void RemoveStepData()
```

Overrides

[Step.RemoveStepData\(\)](#)

Class RepairType

A repair type is a set of fail-codes. e.g. Module Repair has a different set of failcodes than System Repair

Inheritance

System.Object
RepairType

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class RepairType
```

Properties

Code

Declaration

```
public short Code { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

Remarks

Code of repair type

ComponentReferenceMask

A regular expression that validates a valid component reference

Declaration

```
public string ComponentReferenceMask { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ComponentReferenceMaskDescription

Description of a ComponentReferenceMask

Declaration

```
public string ComponentReferenceMaskDescription { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Description

Declaration

```
public string Description { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Remarks

Description of repair type

Id

Repair type identifier

Declaration

```
public Guid Id { get; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Name

Declaration

```
public string Name { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Remarks

Name of repair type

UUTRequired

True if repair type requires an UUT Id

Declaration

```
public bool UUTRequired { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Class Report

Common properties to a UUT or UUR report, cannot be used directly

Inheritance

System.Object

Report

[UURReport](#)

[UUTReport](#)

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Report
```

Fields

api

Internal data

Declaration

```
protected TDM api
```

Field Value

TYPE	DESCRIPTION
TDM	

reportRow

Internal data

Declaration

```
protected WATSReport reportRow
```

Field Value

TYPE	DESCRIPTION
Virinco.WATS.Schemas.WRML.WATSReport	

Properties

Location

Location of the station, initialized from api to client setup values

Declaration

```
public string Location { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartNumber

Part number of the product

Declaration

```
public string PartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartRevisionNumber

Hardware revision of the product

Declaration

```
public string PartRevisionNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Purpose

Purpose of the station, initialized from api to client setup values

Declaration

```
public string Purpose { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReportId

Unique Global Identifier of Report (GUID) Normal operation is that this is generated automatically when report is created. ReportId can be set manually if you need to replace a report with a new one.

Declaration

```
public Guid ReportId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

SerialNumber

Serial number of unit. Unique combined with PartNumber

Declaration

<pre>public string SerialNumber { get; set; }</pre>

Property Value

TYPE	DESCRIPTION
System.String	

StartDateTime

Local execution date/time.

Declaration

<pre>public DateTime StartDateTime { get; set; }</pre>
--

Property Value

TYPE	DESCRIPTION
System.DateTime	

StartDateTimeOffset

Sets Start Date/Time with offset. If you need different timezone than the client - use this instead of StartDateTime/StartDateTimeUTC

Declaration

<pre>public DateTimeOffset StartDateTimeOffset { get; set; }</pre>
--

Property Value

TYPE	DESCRIPTION
System.DateTimeOffset	

StartDateTimeUTC

UTC execution date/time.

Declaration

<pre>public DateTime StartDateTimeUTC { get; set; }</pre>

Property Value

TYPE	DESCRIPTION
System.DateTime	

StationName

Station name. NB This property is initiated from TDM.Station name when report is created. Can be modified here.

Declaration

```
public string StationName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

AddAdditionalData(String, XElement)

Reserved for use with TestStand. Does not show up in analysis. Additional data can represent any kind of data as XML. Only data formatted the way TestStand does is shown in UUT report.

Declaration

```
public AdditionalData AddAdditionalData(string name, XElement contents)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	name	Name of additional data.
System.Xml.Linq.XElement	contents	The xml data.

Returns

TYPE	DESCRIPTION
AdditionalData	

AddAdditionalStationInfo(XElement)

Reserved for use with TestStand. Does not show up in analysis. Additional station info can represent any kind of data as XML. Only data formatted the way TestStand does is shown in UUT report.

Declaration

```
public AdditionalData AddAdditionalStationInfo(XElement contents)
```

Parameters

TYPE	NAME	DESCRIPTION

TYPE	NAME	DESCRIPTION
System.Xml.Linq.XElement	contents	The station info.

Returns

TYPE	DESCRIPTION
AdditionalData	

Load(TDM, WATSReport)

Load a report from WRML

Declaration

<code>public static Report Load(TDM apiRef, WATSReport wr)</code>

Parameters

TYPE	NAME	DESCRIPTION
TDM	apiRef	
Virinco.WATS.Schemas.WRML.WATSReport	wr	

Returns

TYPE	DESCRIPTION
Report	

ValidateForSubmit()

Validates required reportdata. Exception is thrown if invalid or missing data is found.

Declaration

<code>public void ValidateForSubmit()</code>
--

ValidateReport()

Validate and correct field sizes, truncate if neccessary. Validate and correct local vs. utc date if mismatch or missing.

Declaration

<code>public bool ValidateReport()</code>

Returns

TYPE	DESCRIPTION
System.Boolean	Returns true!

Enum Report.ReportTransferStatusEnum

Represents a report's transfer status. The report file extension reflects the report's current transfer status.

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum ReportTransferStatusEnum
```

Fields

NAME	DESCRIPTION
Error	An error occured during transfer
InMemory	Not submitted
InvalidReport	Not possible to send to server
Queued	Ready for transferring
Transferring	In processs of being transferred

Class ReportValidationResult

WATSReport validation result item. An IEnumerable list of ReportValidationResult is found in the Error property of the WATSReportValidationException.

Inheritance

System.Object
ReportValidationResult

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ReportValidationResult
```

Properties

Field

Field/Property name causing the validation error

Declaration

```
public string Field { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Message

Validation error description

Declaration

```
public string Message { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReportId

Report Id (Guid) of the report causing the validation error

Declaration

```
public Guid ReportId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Table

Table name causing the validation error

Declaration

```
public string Table { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class SequenceCall

Inheritance

System.Object

[Step](#)

SequenceCall

Inherited Members

[Step.StepGuid](#)

[Step.Parent](#)

[Step.StepPath](#)

[Step.StepType](#)

[Step.StepOrderNumber](#)

[Step.StepIndex](#)

[Step.Name](#)

[Step.FailParentOnFail](#)

[Step.CausedSequenceFailure](#)

[Step.Status](#)

[Step.StatusText](#)

[Step.ReportText](#)

[Step.StepTime](#)

[Step.StepTimeFormat](#)

[Step.ModuleTime](#)

[Step.ModuleTimeFormat](#)

[Step.StartDateTime](#)

[Step.StepGroup](#)

[Step.StepErrorMessage](#)

[Step.StepErrorCode](#)

[Step.StepErrorCodeFormat](#)

[Step.AddChart\(ChartType, String, String, String, String, String\)](#)

[Step.Chart](#)

[Step.AttachFile\(String, Boolean\)](#)

[Step.Attachment](#)

[Step.AddAdditionalResult\(String, XElement\)](#)

[Step.AdditionalResult](#)

[Step.AttachByteArray\(String, Byte\[\], String\)](#)

[Step.LoopIndex](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: [Virinco.WATS.Interface.TDM.dll](#)

Syntax

```
public class SequenceCall : Step
```

Properties

[SequenceName](#)

Sequence name - name of test program

Declaration

```
public string SequenceName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceVersion

Version of sequence

Declaration

```
public string SequenceVersion { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

AddCallExeStep(String, Double)

Adds a call to external program with exitCode

Declaration

```
public CallExeStep AddCallExeStep(string stepName, double exitCode)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	
System.Double	exitCode	

Returns

TYPE	DESCRIPTION
CallExeStep	

AddCallExeStep(String, Double, Int16)

Only for loops Adds a call to external program with exitCode

Declaration

```
public CallExeStep AddCallExeStep(string stepName, double exitCode, short index)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	
System.Double	exitCode	
System.Int16	index	Iteration index of the loop

Returns

TYPE	DESCRIPTION
CallExeStep	

AddGenericStep(GenericStepTypes, String)

Adds a generic step, see GenericStepTypes

Declaration

```
public GenericStep AddGenericStep(GenericStepTypes stepType, string stepName)
```

Parameters

TYPE	NAME	DESCRIPTION
GenericStepTypes	stepType	
System.String	stepName	

Returns

TYPE	DESCRIPTION
GenericStep	

AddGenericStep(GenericStepTypes, String, Int16)

Only for loops Adds a generic step, see GenericStepTypes

Declaration

```
public GenericStep AddGenericStep(GenericStepTypes stepType, string stepName, short index)
```

Parameters

TYPE	NAME	DESCRIPTION
GenericStepTypes	stepType	
System.String	stepName	
System.Int16	index	Iteration index of the loop

Returns

TYPE	DESCRIPTION
GenericStep	

AddMessagePopupStep(String, Int16, String)

Adds the result of a message popop.

Declaration

```
public MessagePopupStep AddMessagePopupStep(string stepName, short buttonPressed, string response)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Step name
System.Int16	buttonPressed	The button (numeric value) that was pressed
System.String	response	Response from the popup

Returns

TYPE	DESCRIPTION
MessagePopupStep	

AddMessagePopupStep(String, Int16, String, Int16)

Only for loops Adds the result of a message popop.

Declaration

```
public MessagePopupStep AddMessagePopupStep(string stepName, short buttonPressed, string response, short index)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Step name
System.Int16	buttonPressed	The button (numeric value) that was pressed
System.String	response	Response from the popup
System.Int16	index	Iteration index of the loop

Returns

TYPE	DESCRIPTION
MessagePopupStep	

AddNumericLimitStep(String)

Add a Numeric limit test, can contain a single test or multiple (named) tests

Declaration

<pre>public NumericLimitStep AddNumericLimitStep(string stepName)</pre>

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Name of step

Returns

TYPE	DESCRIPTION
NumericLimitStep	

AddNumericLimitStep(String, Int16)

Only for loop Add a Numeric limit test, can contain a single test or multiple (named) tests

Declaration

<pre>public NumericLimitStep AddNumericLimitStep(string stepName, short index)</pre>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Step name
System.Int16	index	Iteration index of the loop

Returns

TYPE	DESCRIPTION
NumericLimitStep	

AddPassFailStep(String)

Adds a Pass/Fail (boolean) step, can contain a single test or multiple (named) tests

Declaration

<pre>public PassFailStep AddPassFailStep(string stepName)</pre>

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Step name

Returns

TYPE	DESCRIPTION
PassFailStep	

AddPassFailStep(String, Int16)

Only for loop Add a Pass/Fail (boolean) test, can contain a single test or multiple (named) tests

Declaration

<pre>public PassFailStep AddPassFailStep(string stepName, short index)</pre>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Step name
System.Int16	index	Iteration index of the loop

Returns

TYPE	DESCRIPTION
PassFailStep	

AddPropertyLoaderStep(String, Int16, Int16)

Adds a Teststand Description loader step

Declaration

<pre>public PropertyLoaderStep AddPropertyLoaderStep(string stepName, short numPropApplied, short numPropRead)</pre>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	
System.Int16	numPropApplied	
System.Int16	numPropRead	

Returns

TYPE	DESCRIPTION
PropertyLoaderStep	

AddSequenceCall(String)

Adds a new sequencecall.

Declaration

```
public SequenceCall AddSequenceCall(string stepName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Name of sequence

Returns

TYPE	DESCRIPTION
SequenceCall	new sequencecall, use this to add sub-steps

AddSequenceCall(String, Int16)

Only for loop Adds a new sequencecall.

Declaration

```
public SequenceCall AddSequenceCall(string stepName, short index)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Name of sequence
System.Int16	index	Iteration index of the loop

Returns

TYPE	DESCRIPTION
SequenceCall	new sequencecall, use this to add sub-steps

AddSequenceCall(String, String, String)

Adds a new sequence call

Declaration

```
public SequenceCall AddSequenceCall(string stepName, string sequenceName, string sequenceVersion)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Name of sequence step
System.String	sequenceName	Alternate name of sequence
System.String	sequenceVersion	Alternate sequence version

Returns

TYPE	DESCRIPTION
SequenceCall	

AddSequenceCall(String, String, String, Int16)

Only for loop Adds a new sequence call

Declaration

```
public SequenceCall AddSequenceCall(string stepName, string sequenceName, string sequenceVersion, short index)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Name of sequence step
System.String	sequenceName	Alternate name of sequence
System.String	sequenceVersion	Alternate sequence version
System.Int16	index	Iteration index of the loop

Returns

TYPE	DESCRIPTION
SequenceCall	

AddStringValueStep(String)

Adds a string value step, can contain a single test or multiple (named) tests

Declaration

```
public StringValueStep AddStringValueStep(string stepName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	

Returns

TYPE	DESCRIPTION
StringValueStep	

AddStringValueStep(String, Int16)

Only for loop Add a String value test, can contain a single test or multiple (named) tests

Declaration

<pre>public StringValueStep AddStringValueStep(string stepName, short index)</pre>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Step name
System.Int16	index	Iteration index of the loop

Returns

TYPE	DESCRIPTION
StringValueStep	

Create(Step, Int32, String, String, String, String, String, String, String, DateTime, Int32, String, Double, Double)

Internal function

Declaration

<pre>public static SequenceCall Create(Step ParentStep, int stepIndex, string stepGroup, string stepType, string stepName, string sequenceName, string sequenceFile, string sequenceFileVersion, string stepStatusText, DateTime startDateTime, int errorCode, string errorMessage, double stepTime, double moduleTime)</pre>

Parameters

TYPE	NAME	DESCRIPTION
Step	ParentStep	
System.Int32	stepIndex	
System.String	stepGroup	
System.String	stepType	

TYPE	NAME	DESCRIPTION
System.String	stepName	
System.String	sequenceName	
System.String	sequenceFile	
System.String	sequenceFileVersion	
System.String	stepStatusText	
System.DateTime	startDateTime	
System.Int32	errorCode	
System.String	errorMessage	
System.Double	stepTime	
System.Double	moduleTime	

Returns

TYPE	DESCRIPTION
SequenceCall	

RemoveStepData()

Declaration

```
protected override void RemoveStepData()
```

Overrides

[Step.RemoveStepData\(\)](#)

StartLoop<T>(String, Nullable<Int16>, Nullable<Int16>, Nullable<Int16>, Nullable<Int16>)

Start a loop of a specified step type. Each Step added between calling StartLoop and StopLoop is added to the loop.

If no steps will be added to the loop, all parameters should be set.

In Active mode: iterations, passed, failed and endingIndex will be set be set based on steps in the loop.

In Import mode: iterations, passed, failed and endingIndex must be set.

Valid step types are: SequenceCall, NumericLimitStep, StringValueStep, PassFailStep, CallExeStep, MessagePopupStep and GenericStep

Declaration

```
public T StartLoop<T>(string stepName, short? iterations = null, short? passed = null, short? failed = null, short? endingIndex = null)
    where T : Step
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Name of the loop. All steps in the loop must have same name.
System.Nullable<System.Int16>	iterations	Number of iterations contained in the loop. In Active mode will be set to the amount of steps the loop contains.
System.Nullable<System.Int16>	passed	Number of passed loop iterations.
System.Nullable<System.Int16>	failed	Number of failed loop iterations.
System.Nullable<System.Int16>	endingIndex	Index of the last loop iteration.

Returns

TYPE	DESCRIPTION
T	The summary step of the loop. If StartLoop has already been called, returns null.

Type Parameters

NAME	DESCRIPTION
T	

Exceptions

TYPE	CONDITION
System.ArgumentException	Is thrown when T is invalid.

StopLoop()

Stops and finalizes the current loop.

Declaration

```
public void StopLoop()
```

Class Step

Steps are the content of a UUT report. WATS support

Inheritance

System.Object

Step

[CallExeStep](#)

[GenericStep](#)

[MessagePopupStep](#)

[NumericLimitStep](#)

[PassFailStep](#)

[PropertyLoaderStep](#)

[SequenceCall](#)

[StringValueStep](#)

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Step
```

Properties

AdditionalResult

Declaration

```
public AdditionalResult AdditionalResult { get; }
```

Property Value

TYPE	DESCRIPTION
AdditionalResult	

Attachment

Gets an attachment

Declaration

```
public Attachment Attachment { get; }
```

Property Value

TYPE	DESCRIPTION
Attachment	

CausedSequenceFailure

Indicates that this step caused the sequence to fail.

Declaration

```
public bool CausedSequenceFailure { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Chart

Get chart if present

Declaration

```
public Chart Chart { get; }
```

Property Value

TYPE	DESCRIPTION
Chart	

FailParentOnFail

Normally, a failed step will propagate up to parent step. To prevent this, set this property to false

Declaration

```
public bool FailParentOnFail { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

LoopIndex

Get/Set loop index of the step

Declaration

```
public short LoopIndex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

ModuleTime

Step module-execution time (in seconds)

Declaration

```
public double ModuleTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

ModuleTimeFormat

The number format for the step module-execution time. See [NumericValueFormat](#) for more info.

Declaration

```
public string ModuleTimeFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Name

Name of step

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Parent

Parent Step

Declaration

```
public SequenceCall Parent { get; }
```

Property Value

TYPE	DESCRIPTION
SequenceCall	

ReportText

Report text

Declaration

```
public string ReportText { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartDateTime

Step’s start date/time

Declaration

```
public DateTime StartDateTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

Status

Step status

Declaration

```
public virtual StepStatusType Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
StepStatusType	

StatusText

Step status

Declaration

```
public string StatusText { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StepErrorCode

Error code connected to step

Declaration

```
public int StepErrorCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

StepErrorCodeFormat

The number format for the step error code. See [NumericValueFormat](#) for more info.

Declaration

```
public string StepErrorCodeFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StepErrorMessage

Error message connected to step

Declaration

```
public string StepErrorMessage { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StepGroup

Main step group (Setup, Main, Cleanup)

Declaration

```
public StepGroupEnum StepGroup { get; set; }
```

Property Value

TYPE	DESCRIPTION
StepGroupEnum	

StepGuid

Set/Get unique identifier of a step (Teststand TSGuid, optional)

Declaration

```
public string StepGuid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StepIndex

Step position within a sequence

Declaration

```
public short StepIndex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

StepOrderNumber

Global step order number

Declaration

```
public int StepOrderNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

StepPath

Returns full path of a step. The path is built from names of all parent steps separated by /. Main Sequence Callback is omitted

Declaration

```
public string StepPath { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StepTime

Step execution time (in seconds)

Declaration

```
public double StepTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

StepTimeFormat

The number format for the step execution time. See [NumericValueFormat](#) for more info.

Declaration

```
public string StepTimeFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StepType

Returns step type

Declaration

```
public string StepType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

AddAdditionalResult(String, XElement)

Reserved for use with TestStand. Does not show up in analysis. An additional result can represent any kind of data as XML. Only data formatted the way TestStand does is shown in UUT report.

Declaration

```
public AdditionalResult AddAdditionalResult(string Name, XElement contents)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Name	
System.Xml.Linq.XElement	contents	

Returns

TYPE	DESCRIPTION
AdditionalResult	

AddChart(ChartType, String, String, String, String, String)

Adds a chart to a step

Declaration

```
public Chart AddChart(ChartType chartType, string chartLabel, string xLabel, string xUnit, string yLabel, string yUnit)
```

Parameters

TYPE	NAME	DESCRIPTION
ChartType	chartType	Linear or logarithmic can be selected

TYPE	NAME	DESCRIPTION
System.String	chartLabel	Chart label
System.String	xLabel	X-Label
System.String	xUnit	X-Unit
System.String	yLabel	Y-Label
System.String	yUnit	Y-Unit

Returns

TYPE	DESCRIPTION
Chart	

AttachByteArray(String, Byte[], String)

Attaches a byte array to a step

Declaration

<code>public Attachment AttachByteArray(string label, byte[] content, string mimeType)</code>

Parameters

TYPE	NAME	DESCRIPTION
System.String	label	Will be showed in WATS as a label to the attachment
System.Byte[]	content	Byte array (binary data) to be attached
System.String	mimeType	Will decide how the browser opens the attachement. see: http://en.wikipedia.org/wiki/Internet_media_type for details If blank, mimeType application/octet-stream will be used

Returns

TYPE	DESCRIPTION
Attachment	

Remarks

File size is limited to 100KB

AttachFile(String, Boolean)

Attaches a file to a step.

Declaration

```
public Attachment AttachFile(string fileName, bool deleteAfterAttach)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	fileName	Full path and name of file
System.Boolean	deleteAfterAttach	If true, the file is deleted after being attached

Returns

TYPE	DESCRIPTION
Attachment	

Remarks

File size is limited to 100KB

RemoveStepData()

Override to implement removing data when step is set to skipped status. Remember to call base!

Declaration

```
protected virtual void RemoveStepData()
```

Enum StepGroupEnum

Step Groups

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum StepGroupEnum : short
```

Fields

NAME	DESCRIPTION
Cleanup	Cleanup phase of test
Main	Main phase of test
Setup	Setup phase of test

Enum StepStatusType

Step / Measure status

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum StepStatusType : short
```

Fields

NAME	DESCRIPTION
Done	Step done without any result
Error	There was an error in the step
Failed	Step Failed
Passed	Successful operation
Skipped	Step skipped
Terminated	Step terminated

Class StringValueStep

A string value step will contain one or more [StringValueTest](#). If there are multiple tests to a step use one of the overloads of [AddMultipleTest\(CompOperatorType, String, String, String\)](#).

```
uut.RootSequenceCall.AddStringValueStep("StringTest").AddTest(CompOperatorType.GELE, "value", "limit");
```

Inheritance

System.Object

[Step](#)

StringValueStep

Inherited Members

[Step.StepGuid](#)

[Step.Parent](#)

[Step.StepPath](#)

[Step.StepType](#)

[Step.StepOrderNumber](#)

[Step.StepIndex](#)

[Step.Name](#)

[Step.FailParentOnFail](#)

[Step.CausedSequenceFailure](#)

[Step.StatusText](#)

[Step.ReportText](#)

[Step.StepTime](#)

[Step.StepTimeFormat](#)

[Step.ModuleTime](#)

[Step.ModuleTimeFormat](#)

[Step.StartDateTime](#)

[Step.StepGroup](#)

[Step.StepErrorMessage](#)

[Step.StepErrorCode](#)

[Step.StepErrorCodeFormat](#)

[Step.AddChart\(ChartType, String, String, String, String, String\)](#)

[Step.Chart](#)

[Step.AttachFile\(String, Boolean\)](#)

[Step.Attachment](#)

[Step.AddAdditionalResult\(String, XElement\)](#)

[Step.AdditionalResult](#)

[Step.AttachByteArray\(String, Byte\[\], String\)](#)

[Step.LoopIndex](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class StringValueStep : Step
```

Properties

Status

Step status

Declaration

```
public override StepStatusType Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
StepStatusType	

Overrides

[Step.Status](#)

Tests

Returns one or more tests belonging to this step (Single/Multiple)

Declaration

```
public StringValueTest[] Tests { get; }
```

Property Value

TYPE	DESCRIPTION
StringValueTest[]	

Methods

AddMultipleTest(String, String)

Adds a multiple string value test without limit, no comparison is done, just log - with validation.

Declaration

```
public StringValueTest AddMultipleTest(string stringValue, string measureName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stringValue	Measured value.
System.String	measureName	Name of test.

Returns

TYPE	DESCRIPTION
StringValueTest	Returns a reference to the test.

AddMultipleTest(String, String, StepStatusType)

Adds a multiple string value test without limit, no comparison is done, just log - without validation.

Declaration

```
public StringValueTest AddMultipleTest(string stringValue, string measureName, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stringValue	Measured value.
System.String	measureName	Name of test.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
StringValueTest	Returns a reference to the test.

AddMultipleTest(CompOperatorType, String, String, String)

Adds a multiple string value test with limit - with validation.

Declaration

```
public StringValueTest AddMultipleTest(CompOperatorType compOperator, string stringValue, string stringLimit, string measureName)
```

Parameters

TYPE	NAME	DESCRIPTION
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.String	stringValue	Measured value.
System.String	stringLimit	Test limit.
System.String	measureName	Name of test.

Returns

TYPE	DESCRIPTION
StringValueTest	Returns a reference to the test.

AddMultipleTest(CompOperatorType, String, String, String, StepStatusType)

Adds a multiple string value test with limit - without validation. Status will be applied to the step, the test will have Passed or Failed.

Declaration

```
public StringValueTest AddMultipleTest(CompOperatorType compOperator, string stringValue, string stringLimit, string measureName, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.String	stringValue	Measured value.
System.String	stringLimit	Test limit.
System.String	measureName	Name of test.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
StringValueTest	Returns a reference to the test.

AddTest(String)

Adds a string value test without limit, no comparison is done, just log - with validation.

Declaration

```
public StringValueTest AddTest(string stringValue)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stringValue	Measured value.

Returns

TYPE	DESCRIPTION
StringValueTest	Returns a reference to the test.

AddTest(String, StepStatusType)

Adds a string value test without limit, no comparison is done, just log - without validation.

Declaration

```
public StringValueTest AddTest(string stringValue, StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stringValue	Measured value.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
StringValueTest	Returns a reference to the test.

AddTest(CompOperatorType, String, String)

Adds a string value test - with validation.

Declaration

```
public StringValueTest AddTest(CompOperatorType compOperator, string stringValue, string stringLimit)
```

Parameters

TYPE	NAME	DESCRIPTION
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.String	stringValue	Measured value.
System.String	stringLimit	Test limit.

Returns

TYPE	DESCRIPTION
StringValueTest	Returns a reference to the test.

AddTest(CompOperatorType, String, String, StepStatusType)

Adds a string value test - without validation.

Declaration

```
public StringValueTest AddTest(CompOperatorType compOperator, string stringValue, string stringLimit,
StepStatusType status)
```

Parameters

TYPE	NAME	DESCRIPTION
CompOperatorType	compOperator	Type of comparison. See CompOperator for valid values.
System.String	stringValue	Measured value.
System.String	stringLimit	Test limit.
StepStatusType	status	Status to set without validation.

Returns

TYPE	DESCRIPTION
StringValueTest	Returns a reference to the test.

RemoveStepData()

Declaration

```
protected override void RemoveStepData()
```

Overrides

[Step.RemoveStepData\(\)](#)

Class StringValueTest

A string value test in a StringValueStep.

Inheritance

System.Object
StringValueTest

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class StringValueTest
```

Properties

CompOperator

Comparison operator, see remarks for valid compare types.

Declaration

```
public CompOperatorType CompOperator { get; set; }
```

Property Value

TYPE	DESCRIPTION
CompOperatorType	

Remarks

- [EQ](#) - Equal
- [NE](#) - Not equal
- [CASESENSIT](#) - Case sensitiv equal
- [IGNORECASE](#) - Case insensitiv equal
- [LOG](#) - No comparison

MeasureName

Measure name (used for multiple values).

Declaration

```
public string MeasureName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MeasureStatus

Measure status enum (used for multiple values)

Declaration

```
public StepStatusType MeasureStatus { get; set; }
```

Property Value

TYPE	DESCRIPTION
StepStatusType	

StringLimit

If compOperator is EQ, String value is compared

Declaration

```
public string StringLimit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StringValue

Measure string value

Declaration

```
public string StringValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Enum SubmitMethod

Method for delivering reports.

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum SubmitMethod : short
```

Fields

NAME	DESCRIPTION
Automatic	Submit online (synchronous) if possible (API is connected), otherwise save report to queue.
Offline	Save report to queue. Client Service will process the reports asynchronously. If used in Lightweight mode (sandboxed), the application must call SubmitPendingReports() to process the reports.
Online	Always submit online (synchronous), throws exception if API is not connected

Class TDM

Library toolkit to create test in WATS

Inheritance

System.Object
TDM

Implements

System.IDisposable

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class TDM : IDisposable
```

Constructors

TDM()

Initializes API in Active Testmode

Declaration

```
public TDM()
```

Fields

proxy

Declaration

```
protected ServiceProxy proxy
```

Field Value

TYPE	DESCRIPTION
Virinco.WATS.REST.ServiceProxy	

Properties

ClientState

Returns current ClientState. API must be initialized before reading this value.

Declaration

```
public ClientStateType ClientState { get; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.Interface.ClientStateType	

ConversionSource

reference to the sourcefile and conversion parameters for the current conversion operation. This property is only valid when the api is accessed in a converter activated from WATS Client Service.

Declaration

<code>public ConversionSource ConversionSource { get; }</code>
--

Property Value

TYPE	DESCRIPTION
ConversionSource	

DataDir

Disk location for storage of pending reports

Declaration

<code>public string DataDir { get; }</code>

Property Value

TYPE	DESCRIPTION
System.String	

LastServiceException

Returns the last exception from transfer service

Declaration

<code>public Exception LastServiceException { get; set; }</code>
--

Property Value

TYPE	DESCRIPTION
System.Exception	

Location

Test station location

Declaration

<code>public string Location { get; }</code>
--

Property Value

TYPE	DESCRIPTION
System.String	

TYPE	DESCRIPTION

LogExceptions

Property to set if any Exception should be written to eventlog

Declaration

```
public bool LogExceptions { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

MemberId

Guid identifying Station

Declaration

```
[Obsolete("MemberId should not be depended on. Starting from WATS Version 5.0 the client is identified by primary network adapter's MAC Address.", false)]
public Guid MemberId { get; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Remarks

Automatically generated and saved on workstation on first time connection

Purpose

Purpose of test machine

Declaration

```
public string Purpose { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReportsDirectory

Directory for queued reports, create if neccessary

Declaration

```
public string ReportsDirectory { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RethrowException

Specifies if API should raise Exceptions after logging to EventLog

Declaration

```
public bool RethrowException { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

RootStepName

Name of main sequence (root step)

Declaration

```
public string RootStepName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ServerVersion

Declaration

```
public Version ServerVersion { get; }
```

Property Value

TYPE	DESCRIPTION
System.Version	

StationName

Name of test machine

Declaration

```
public string StationName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Statistics

Statistics object containing client test statistics

Statistics object containing client test statistics

Declaration

```
public StatisticsReader Statistics { get; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.Interface.Statistics.StatisticsReader	

Status

Returns current API status

Declaration

```
public APIStatusType Status { get; }
```

Property Value

TYPE	DESCRIPTION
APIStatusType	

TargetURL

Target WATS Service URL Points to WATS Root address, REST Api can be found under /api, datacenter under /wats-dc, wats web application on root

Declaration

```
public string TargetURL { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TestMode

Sets API recording mode: Active (Default) or Import Determines if API is used to record live test data (Active) or historical processed data (Import). Checking of results and time recording are disable if mode is set to Import

Declaration

```
public TestModeType TestMode { get; set; }
```

Property Value

TYPE	DESCRIPTION
TestModeType	

ValidationMode

Validation mode will decide how the API will react to errors. Default value is [ThrowExceptions](#)

Declaration

```
public ValidationModeType ValidationMode { get; set; }
```

Property Value

TYPE	DESCRIPTION
ValidationModeType	

Methods

ClearConversionSource()

Called from WATS Client Service when a file has been processed to clear the reference to the sourcefile and the converter.

Declaration

```
public void ClearConversionSource()
```

ConnectServer(Boolean, TimeSpan)

Connect to configured server

Declaration

```
public bool ConnectServer(bool UpdateMetadata, TimeSpan Timeout)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	UpdateMetadata	Download metadata (Processes and codes) from configured server
System.TimeSpan	Timeout	Server connect timeout in seconds

Returns

TYPE	DESCRIPTION
System.Boolean	Returns false if configured server could not be reached

CreateUURReport(String, RepairType, OperationType, String, String, String)

Creates a UUR without UUT

Declaration

```
public UURReport CreateUURReport(string operatorName, RepairType repairType, OperationType optype, string serialNumber, string partNumber, string revisionNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	operatorName	Name of operator

TYPE	NAME	DESCRIPTION
RepairType	repairType	Use one of the repair types
OperationType	optype	
System.String	serialNumber	
System.String	partNumber	
System.String	revisionNumber	

Returns

TYPE	DESCRIPTION
UURReport	

CreateUURReport(String, RepairType, UUTReport)

Creates a new Repair report

Declaration

```
public UURReport CreateUURReport(string operatorName, RepairType repairType, UUTReport uutReport)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	operatorName	
RepairType	repairType	
UUTReport	uutReport	

Returns

TYPE	DESCRIPTION
UURReport	

CreateUUTReport(String, String, String, String, Guid, String, String)

Creates a new UUT report given operation type as a guid

Declaration

```
public UUTReport CreateUUTReport(string operatorName, string partNumber, string revision, string serialNumber, Guid operationType, string sequenceFileName, string sequenceFileVersion)
```

Parameters

TYPE	NAME	DESCRIPTION

TYPE	NAME	DESCRIPTION
System.String	operatorName	Name of operator
System.String	partNumber	Part number
System.String	revision	Revision
System.String	serialNumber	Serial number
System.Guid	operationType	Id of operation type (Guid)
System.String	sequenceFileName	Sequence name
System.String	sequenceFileVersion	Version of Sequence (e.g.1.0.0.1)

Returns

TYPE	DESCRIPTION
UUTReport	

CreateUUTReport(String, String, String, String, String, String, String)

Creates a new UUT report given operation type as code

Declaration

```
public UUTReport CreateUUTReport(string operatorName, string partNumber, string revision, string serialNumber, string operationType, string sequenceFileName, string sequenceFileVersion)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	operatorName	
System.String	partNumber	
System.String	revision	
System.String	serialNumber	
System.String	operationType	
System.String	sequenceFileName	

TYPE	NAME	DESCRIPTION
System.String	sequenceFileVersion	

Returns

TYPE	DESCRIPTION
UUTReport	

CreateUUTReport(String, String, String, String, OperationType, String, String)

Creates a UUT with most common information

Declaration

```
public UUTReport CreateUUTReport(string operatorName, string partNumber, string revision, string serialNumber,
OperationType operationType, string sequenceFileName, string sequenceFileVersion)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	operatorName	ATE Operator name
System.String	partNumber	Product part number
System.String	revision	Product revision number
System.String	serialNumber	Serial number, unique within a part number
OperationType	operationType	Type of test
System.String	sequenceFileName	Name of sequence file (test program)
System.String	sequenceFileVersion	Version of sequence file (test program)

Returns

TYPE	DESCRIPTION
UUTReport	new UUT report

Dispose()

Cleanup

Declaration

```
public void Dispose()
```

FindReportHeaders(String, Int32, Int32, String, String, String)

Find WATS reports by filter, see rest API documentation on WATS server for more information (Report -> Query/Header).

Declaration

```
public ReportHeader[] FindReportHeaders(string filter, int top, int skip = 0, string orderby = "start desc",  
string select = "", string expand = "")
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	filter	OData filter, returns reports that matches the filter.
System.Int32	top	Amount of results to return, from the top based on orderby.
System.Int32	skip	Skips results from the top, use to create paging.
System.String	orderby	Specify order of results, including ascending or descending. Use comma to order by more than one property (first order by property1, then order reports with same property1 value by property2).
System.String	select	Comma separated list of properties to return, the rest will be default values (null, Datetime.MinValue, Guid.Empty, 0, etc.).
System.String	expand	Which sub items to include, like misc info or sub units. NB! Only works for WATS 2022.2.

Returns

TYPE	DESCRIPTION
ReportHeader[]	

FindReports(String, Int32, String)

Finds WATS reports given filter, for doc, see watsserver/swagger

Declaration

```
[Obsolete("Deprecated, use FindReportHeaders instead.")]  
public WatsReportHeader[] FindReports(string filter, int top, string orderby = "Start.UTC desc")
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	filter	see watsserver/swagger Report/Query

TYPE	NAME	DESCRIPTION
System.Int32	top	If > 0, return top first
System.String	orderby	Field to sort on, default is Start_UTC desc

Returns

TYPE	DESCRIPTION
WatsReportHeader []	Array of report headers WatsReportHeader

GetAsWRML(Report)

Declaration

protected WATSReport GetAsWRML(Report report)

Parameters

TYPE	NAME	DESCRIPTION
Report	report	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Schemas.WRML.WATSReport	

GetChildFailCodes(FailCode)

Returns a list of child failcodes given a root failcode

Declaration

public FailCode[] GetChildFailCodes(FailCode FailCode)
--

Parameters

TYPE	NAME	DESCRIPTION
FailCode	FailCode	

Returns

TYPE	DESCRIPTION
FailCode []	

GetClientUpdateUri(Int32)

Declaration

protected Uri GetClientUpdateUri(int timeout)

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	timeout	Channel's OperationTimeout in milliseconds

Returns

TYPE	DESCRIPTION
System.Uri	

GetCodeDeclaration(RepairType)

Generates C# constants to use for operation types, failcodes given repair type

Declaration

```
public string GetCodeDeclaration(RepairType repairType)
```

Parameters

TYPE	NAME	DESCRIPTION
RepairType	repairType	

Returns

TYPE	DESCRIPTION
System.String	

GetEndpointIdentity(String)

This metod is obsolete in this version of the api

Declaration

```
[Obsolete("This metod is obsolete in this version of the api", true)]  
public static string GetEndpointIdentity(string address)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	address	

Returns

TYPE	DESCRIPTION
System.String	

GetFromServer<responseType>(String)

Get result from rest call to server

Declaration

```
public responseType GetFromServer<responseType>(string query)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	query	

Returns

TYPE	DESCRIPTION
responseType	

Type Parameters

NAME	DESCRIPTION
responseType	

GetMemberMiscInfo()

Declaration

```
public static XElement GetMemberMiscInfo()
```

Returns

TYPE	DESCRIPTION
System.Xml.Linq.XElement	

GetOperationType(Guid)

Get operation type given the GUID

Declaration

```
public OperationType GetOperationType(Guid operationTypeId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	operationTypeId	

Returns

TYPE	DESCRIPTION
OperationType	

GetOperationType(Int16)

Get operation type given the Code

Declaration

```
public OperationType GetOperationType(short code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int16	code	Test operation code as Int16

Returns

TYPE	DESCRIPTION
OperationType	

GetOperationType(String)

Get operation type given the Code or Name

Declaration

```
public OperationType GetOperationType(string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	code	Test operation code (string parsable as int) or the operation type Name

Returns

TYPE	DESCRIPTION
OperationType	

GetOperationTypes()

Gets Operation types for the current connection

Declaration

```
public OperationType[] GetOperationTypes()
```

Returns

TYPE	DESCRIPTION
OperationType[]	An array of operation types

GetPendingReportCount()

Returns number of reports waiting to be sent to server, including senderror

Declaration

```
public int GetPendingReportCount()
```

Returns

TYPE	DESCRIPTION
System.Int32	

GetPendingReportCount(ref Int32, ref Int32)

Returns number of reports waiting to be sent to server, including SendError.

Declaration

<code>public int GetPendingReportCount(ref int LoadError, ref int SendError)</code>

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	LoadError	Returns number of reports that failed during load from disk. These reports will not be retransmitted.
System.Int32	SendError	Returns number of reports that failed during send to server. These reports will be retried every 2 hours.

Returns

TYPE	DESCRIPTION
System.Int32	

GetProcesses()

Returns list of defined processes (locally buffered)

Declaration

<code>public static List<Process> GetProcesses()</code>

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< Process >	

GetRepairType(Guid)

Get repair type given the GUID

Declaration

<code>public RepairType GetRepairType(Guid repairTypeId)</code>

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	repairTypeid	Repair operation identifier (GUID)

Returns

TYPE	DESCRIPTION
RepairType	A RepairType object

GetRepairTypes()

Get repair types

Declaration

```
public RepairType[] GetRepairTypes()
```

Returns

TYPE	DESCRIPTION
RepairType []	

GetRootFailCodes(RepairType)

Returns a list of defined main failcodes in wats

Declaration

```
public FailCode[] GetRootFailCodes(RepairType RepairType)
```

Parameters

TYPE	NAME	DESCRIPTION
RepairType	RepairType	

Returns

TYPE	DESCRIPTION
FailCode []	

GetYieldMonitorStatistics()

Get the [YieldMonitor](#), and use it to get test yield statistics for this client.

Declaration

```
public YieldMonitor GetYieldMonitorStatistics()
```

Returns

TYPE	DESCRIPTION
YieldMonitor	

HasRegisterClientConflict(String, String, String)

Declaration

```
public bool HasRegisterClientConflict(string baseUrl, string username, string password)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	baseUrl	
System.String	username	
System.String	password	

Returns

TYPE	DESCRIPTION
System.Boolean	

InitializeAPI(Boolean)

Makes the API ready for use. Check the Status property to see if API is connected to server.

Declaration

```
public void InitializeAPI(bool tryConnectToServer)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	tryConnectToServer	If True, the API will try to go online otherwise API will be initialized in offline mode

InitializeAPI(TDM.InitializationMode)

Makes the API ready for use. Check the Status property to see if API is connected to server.

Declaration

```
public void InitializeAPI(TDM.InitializationMode InitMode)
```

Parameters

TYPE	NAME	DESCRIPTION
TDM.InitializationMode	InitMode	Specifies how initialization should be performed

InitializeAPI(TDM.InitializationMode, Boolean)

Makes the API ready for use. Check the Status property to see if API is connected to server.

Declaration

```
public void InitializeAPI(TDM.InitializationMode InitMode, bool DownloadMetadata)
```

Parameters

TYPE	NAME	DESCRIPTION
TDM.InitializationMode	InitMode	Specifies how initialization should be performed

TYPE	NAME	DESCRIPTION
System.Boolean	DownloadMetadata	Download metadata from server

InitializeAPI(TDM.InitializationMode, Boolean, Boolean)

Makes the API ready for use. Check the Status property to see if API is connected to server.

Declaration

```
[Obsolete("This overload is obsolete starting from version 5.0, Client must be registered using RegisterClient")]
public void InitializeAPI(TDM.InitializationMode InitMode, bool RegisterClient, bool GetCodes)
```

Parameters

TYPE	NAME	DESCRIPTION
TDM.InitializationMode	InitMode	Specifies how initialization should be performed
System.Boolean	RegisterClient	Register client on the server
System.Boolean	GetCodes	Request codes from connected server

IsConnectedToServer(Boolean)

Check connection status to server

Declaration

```
protected bool IsConnectedToServer(bool PingServer)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	PingServer	

Returns

TYPE	DESCRIPTION
System.Boolean	

LoadReport(String)

Retrieve a spesific report from WATS Server (recursive search in server hierarchy)

Declaration

```
public Report LoadReport(string ReportId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	ReportId	Report unique identifier (GUID as string)

Returns

TYPE	DESCRIPTION
Report	A Report object containing the requested report, or null if report was not found

Exceptions

TYPE	CONDITION
System.Exception	Service related exception may be thrown

LoadReportFromWRML(WATSReport)

Declaration

```
protected Report LoadReportFromWRML(WATSReport report)
```

Parameters

TYPE	NAME	DESCRIPTION
Virinco.WATS.Schemas.WRML.WATSReport	report	

Returns

TYPE	DESCRIPTION
Report	

Ping()

Send a lifiesign signal to remote server

Declaration

```
protected bool Ping()
```

Returns

TYPE	DESCRIPTION
System.Boolean	Returns true if server response is ok

PostClientLog()

Declaration

```
protected void PostClientLog()
```

RegisterClient(String)

Register and activate client using existing Target-token Base url should include /wats, for instance

<https://example.skywats.com/wats> BaseUrl will be saved to registry if existing token allows querying Client/ServerInfo

Declaration

```
public void RegisterClient(string BaseUrl)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	BaseUrl	WATS Server base url

RegisterClient(String, String, String)

Register client using username/password with RegisterClient permission To use registration-token, set username to String.Empty and the token in password parameter Base url: for instance <https://example.skywats.com/>

Declaration

```
public void RegisterClient(string BaseUrl, string Username, string Password)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	BaseUrl	WATS Server base url
System.String	Username	User with RegisterClient permission
System.String	Password	Password or registration token

SetConversionSource(FileInfo, Dictionary<String, String>, Dictionary<String, String>)

Called from WATS Client Service to identify the file the api is working on

Declaration

```
public void SetConversionSource(FileInfo ConversionSourceFile, Dictionary<string, string> SourceParameters, Dictionary<string, string> DestinationParameters)
```

Parameters

TYPE	NAME	DESCRIPTION
System.IO.FileInfo	ConversionSourceFile	The file being in processed
System.Collections.Generic.Dictionary<System.String, System.String>	SourceParameters	Converter's source parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, System.String>	DestinationParameters	Converter's destination parameters

SetupAPI(String, String, String, Boolean)

Change setup information (default values) To configure the api with permanent values use (string,string,string,true)

Declaration

```
public void SetupAPI(string dataDir, string location, string purpose, bool Persist)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	dataDir	Temp location for reports
System.String	location	Test station location
System.String	purpose	Test station purpose
System.Boolean	Persist	Set to true to overwrite values in registry - use with caution.

SetupAPI(String, String, String, String, String, String)

Change setup information (default values), This overload is obsolete and should not be used. It will be removed in a future release. Starting from v5.0 WCF has been replaced with REST based service. use void SetupAPI(string dataDir, string location, string purpose, bool Persist) instead.

Declaration

```
[Obsolete("This overload of SetupAPI is no longer supported in this version of the API", true)]
public void SetupAPI(string dataDir, string location, string purpose, string wcfConfigFile, string tdmEndpoint, string mesEndpoint)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	dataDir	Temp location for reports
System.String	location	Test station location
System.String	purpose	Test station purpose

TYPE	NAME	DESCRIPTION
System.String	wcfConfigFile	Full path to a WCF configuration file
System.String	tdmEndpoint	Name of TDM endpoint
System.String	mesEndpoint	Name of MES endpoint

SetupAPI(String, String, String, String, String, String, Boolean)

Change setup information (default values), This overload is obsolete and should not be used. It will be removed in a future release. Starting from v5.0 WCF has been replaced with REST based service. use void SetupAPI(string dataDir, string location, string purpose, bool Persist) instead.

Declaration

```
[Obsolete("This overload of SetupAPI is no longer supported in this version of the API", false)]
public void SetupAPI(string dataDir, string location, string purpose, string wcfConfigFile, string
tdmEndpoint, string mesEndpoint, bool Persist)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	dataDir	Temp location for reports
System.String	location	Test station location
System.String	purpose	Test station purpose
System.String	wcfConfigFile	Full path to a WCF configuration file
System.String	tdmEndpoint	Name of TDM endpoint
System.String	mesEndpoint	Name of MES endpoint
System.Boolean	Persist	Set to true to overwrite values in registry - use with caution.

Submit(Report)

Submits a report to server. If server is online, report is transmitted directly, else report is saved.

Declaration

```
public bool Submit(Report report)
```

Parameters

TYPE	NAME	DESCRIPTION
Report	report	The report to transfer

Returns

TYPE	DESCRIPTION
System.Boolean	Returns true if report is queued or transmitted, false if report validation failed

Exceptions

TYPE	CONDITION
Virinco.WATS.WATSException	The API is in a state that prohibits sending. Most common reason for this behavior is when the API is not registered with a server.

Submit(SubmitMethod, Report)

Submits a report to server. If server is online, report is transmitted directly, else report is saved.

Declaration

<pre>public virtual bool Submit(SubmitMethod method, Report report)</pre>

Parameters

TYPE	NAME	DESCRIPTION
SubmitMethod	method	SubmitMethod, use Online to force synchronous transfer, or Offline to force enqueueing
Report	report	The report to transfer

Returns

TYPE	DESCRIPTION
System.Boolean	Returns true if report is queued or transmitted, false if report validation failed

Exceptions

TYPE	CONDITION
System.ArgumentException	Thrown if an invalid SubmitMethod is

TYPE	CONDITION
Virinco.WATS.WATSException	The API is in a state that prohibits sending. Most common reason for this behavior is when the API is not registered with a server.

SubmitFromFile(SubmitMethod, FileInfo)

Declaration

```
protected bool SubmitFromFile(SubmitMethod submitMethod, FileInfo file)
```

Parameters

TYPE	NAME	DESCRIPTION
SubmitMethod	submitMethod	
System.IO.FileInfo	file	

Returns

TYPE	DESCRIPTION
System.Boolean	

SubmitOnline(Report)

Submits a report to server, syncrounus if online.

Declaration

```
[Obsolete("Use the method Submit(SubmitMethod,Report) instead. This overload is provided for backwards compatibility, and will be removed in a future release.")]
public bool SubmitOnline(Report report)
```

Parameters

TYPE	NAME	DESCRIPTION
Report	report	The report to tranfer

Returns

TYPE	DESCRIPTION
System.Boolean	True on successful transfer

Remarks

This method is deprecated, use Submit(SubmitMethod,Report) instead! This method will be removed in a future release.

SubmitPendingReports()

Submits pending reports to server, synchronously. If offline, reports are requeued.

This method does not need to be called when the WATS Client is installed normally. The WATS Client Service calls it periodically. When the WATS Client Service is not installed this method needs to be called for pending reports to be submitted to WATS.

Declaration

```
public int SubmitPendingReports()
```

Returns

TYPE	DESCRIPTION
System.Int32	Number of reports submitted

UnRegisterClient()

Clear server URL and client token. Disconnects client from server.

NB! Serial number reservations from Serial Number Handler will not be canceled. Use `Virinco.WATS.Interface.MES.Production.SerialNumberHandler.CancelAllReservations()` to ensure unused reserved serial numbers are freed.

Declaration

```
public void UnRegisterClient()
```

UpdateClientInfo()

Update Client info to remote server

Declaration

```
public void UpdateClientInfo()
```

Events

ClientStateChanged

Declaration

```
public event TDM.ClientStateChangedEventHandler ClientStateChanged
```

Event Type

TYPE	DESCRIPTION
TDM.ClientStateChangedEventHandler	

ConfigChanged

Declaration

```
public event TDM.ConfigChangedEventHandler ConfigChanged
```

Event Type

TYPE	DESCRIPTION
TDM.ConfigChangedEventHandler	

StatusChanged

Declaration

```
public event TDM.StatusChangedEventHandler StatusChanged
```

Event Type

TYPE	DESCRIPTION
TDM.StatusChangedEventHandler	

Implements

System.IDisposable

Class TDM.ClientStateChangedEventArgs

Inheritance

System.Object
System.EventArgs
TDM.ClientStateChangedEventArgs

Inherited Members

System.EventArgs.Empty
System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ClientStateChangedEventArgs : EventArgs
```

Properties

newClientState

Declaration

```
public ClientStateType newClientState { get; set; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.Interface.ClientStateType	

oldClientState

Declaration

```
public ClientStateType oldClientState { get; set; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.Interface.ClientStateType	

Delegate TDM.ClientStateChangedEventHandler

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public delegate void ClientStateChangedEventHandler(object sender, TDM.ClientStateChangedEventArgs e);
```

Parameters

TYPE	NAME	DESCRIPTION
System.Object	sender	
TDM.ClientStateChangedEventArgs	e	

Class TDM.ConfigChangedEventArgs

Inheritance

System.Object

System.EventArgs

TDM.ConfigChangedEventArgs

Inherited Members

System.EventArgs.Empty

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ConfigChangedEventArgs : EventArgs
```

Delegate TDM.ConfigChangedEventHandler

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public delegate void ConfigChangedEventHandler(object sender, TDM.ConfigChangedEventArgs e);
```

Parameters

TYPE	NAME	DESCRIPTION
System.Object	sender	
TDM.ConfigChangedEventArgs	e	

Enum TDM.InitializationMode

Initialization mode

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum InitializationMode
```

Fields

NAME	DESCRIPTION
Asynchronous	Connect asynchronous
NoConnect	Do not connect
Synchronous	Connect synchronous
UseExistingStatus	Use existing state

Class TDM.StatusChangedEventArgs

Inheritance

System.Object
System.EventArgs
TDM.StatusChangedEventArgs

Inherited Members

System.EventArgs.Empty
System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class StatusChangedEventArgs : EventArgs
```

Constructors

StatusChangedEventArgs(APIStatusType, APIStatusType)

Declaration

```
public StatusChangedEventArgs(APIStatusType oldStatus, APIStatusType newStatus)
```

Parameters

TYPE	NAME	DESCRIPTION
APIStatusType	oldStatus	
APIStatusType	newStatus	

Fields

newStatus

Declaration

```
public APIStatusType newStatus
```

Field Value

TYPE	DESCRIPTION
APIStatusType	

oldStatus

Declaration

```
public APIStatusType oldStatus
```

Field Value

TYPE	DESCRIPTION
APIStatusType	

Delegate TDM.StatusChangedEventHandler

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public delegate void StatusChangedEventHandler(object sender, TDM.StatusChangedEventArgs e);
```

Parameters

TYPE	NAME	DESCRIPTION
System.Object	sender	
TDM.StatusChangedEventArgs	e	

Enum TestModeType

Sets or gets API test mode

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum TestModeType
```

Fields

NAME	DESCRIPTION
Active	API is recording test times, checking limits, fail steps etc. while recording test results
Import	API just logs data, used for import of already compiled data
TestStand	API logs data, allows inserting steps with "custom" StepOrderNumber, StepIndex and StatusText. No limit checking or other validation will occur in the API

Class UURAttachment

An attachment (file) to a UUR report or failure

Inheritance

System.Object
UURAttachment

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class UURAttachment
```

Properties

Data

Returns attachment data as byte array

Declaration

```
public byte[] Data { get; }
```

Property Value

TYPE	DESCRIPTION
System.Byte[]	

FileName

Original filename (if set)

Declaration

```
public string FileName { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MimeType

MIME type of the attachment

Declaration

```
public string MimeType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class UURPartInfo

Sub part information

Inheritance

System.Object
UURPartInfo

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class UURPartInfo
```

Properties

Failures

Returns an array of failures to a part

Declaration

```
public Failure[] Failures { get; }
```

Property Value

TYPE	DESCRIPTION
Failure []	

ParentIDX

Parent index of subpart

Declaration

```
public int ParentIDX { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

PartIndex

Index of subpart, Index 0 has to have SN/PN as main main unit

Declaration

```
public int PartIndex { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

PartNumber

Part number of subpart

Declaration

```
public string PartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartRevisionNumber

Sub part revision number

Declaration

```
public string PartRevisionNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartType

Part type of subpart

Declaration

```
public string PartType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReplacedIDX

If given, this subpart replaces the part with this index

Declaration

```
public int ReplacedIDX { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

SerialNumber

Sub parts serial number

Declaration

```
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

AddFailure(FailCode, String, String, Int32)

Adds a failure the repaired unit

Declaration

```
public Failure AddFailure(FailCode failCode, string componentReference, string comment, int stepOrderNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
FailCode	failCode	
System.String	componentReference	
System.String	comment	
System.Int32	stepOrderNumber	

Returns

TYPE	DESCRIPTION
Failure	

Class UURReport

A unit under repair report (UUR)

Inheritance

System.Object
Report
UURReport

Inherited Members

Report.reportRow
Report.api
Report.ReportId
Report.SerialNumber
Report.PartNumber
Report.PartRevisionNumber
Report.StationName
Report.Location
Report.Purpose
Report.StartDateTimeOffset
Report.StartDateTime
Report.StartDateTimeUTC
Report.AddAdditionalData(String, XElement)
Report.AddAdditionalStationInfo(XElement)
Report.Load(TDM, WATSReport)
Report.ValidateForSubmit()
Report.ValidateReport()
System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class UURReport : Report
```

Properties

Attachments

Get files attached to this failure.

Declaration

```
public UURAttachment[] Attachments { get; }
```

Property Value

TYPE	DESCRIPTION
UURAttachment[]	

Comment

Comment on repair

Declaration

```
public string Comment { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Confirmed

UUR was finalize date time (UTC) Is not currently displayed in the UUR report.

Declaration

```
public DateTime Confirmed { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

ExecutionTime

Time spent on UUR report (seconds)

Declaration

```
public double ExecutionTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Failures

Returns array of failures belonging to main unit

Declaration

```
public Failure[] Failures { get; }
```

Property Value

TYPE	DESCRIPTION
Failure []	

Finalized

UUR was finalize date time (UTC)

Declaration


```
public DateTime Finalized { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

MiscInfo

Colletion of valid MiscInfo fields for the selected repair type

Declaration

```
public MiscUURInfoColletion MiscInfo { get; }
```

Property Value

TYPE	DESCRIPTION
MiscUURInfoColletion	

MiscUURInfo

Misc repair information

Declaration

```
public MiscUURInfo[] MiscUURInfo { get; }
```

Property Value

TYPE	DESCRIPTION
MiscUURInfo[]	

OperationType

The test report operation type, e.g. PCBA test, Calibration, Final Function etc.

Declaration

```
public OperationType OperationType { get; set; }
```

Property Value

TYPE	DESCRIPTION
OperationType	

Operator

Name of the operator that performed the repair

Declaration

```
public string Operator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartInfo

Returns array of registered sub-parts

Declaration

<code>public UURPartInfo[] PartInfo { get; }</code>

Property Value

TYPE	DESCRIPTION
UURPartInfo[]	

RepairTypeSelected

Repair type

Declaration

<code>public RepairType RepairTypeSelected { get; }</code>
--

Property Value

TYPE	DESCRIPTION
RepairType	

UUTGuid

Referenced UUT Guid

Declaration

<code>public Guid UUTGuid { get; set; }</code>
--

Property Value

TYPE	DESCRIPTION
System.Guid	

Methods

AddAttachment(Byte[], String, String)

Adds attachment (image) to this UUR

Declaration

<code>[Obsolete("Use AttachByteArray instead.")] public void AddAttachment(byte[] image, string fileName, string contentType)</code>
--

Parameters

TYPE	NAME	DESCRIPTION
System.Byte[]	image	
System.String	fileName	
System.String	contentType	Mime type

AddFailure(FailCode, String, String, Int32)

Adds a failure to the repaired unit

Declaration

```
public Failure AddFailure(FailCode failCode, string componentReference, string comment, int stepOrderNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
FailCode	failCode	
System.String	componentReference	
System.String	comment	
System.Int32	stepOrderNumber	

Returns

TYPE	DESCRIPTION
Failure	

AddUURPartInfo(String, String, String)

Adds an UUR sub-unit

Declaration

```
public UURPartInfo AddUURPartInfo(string partNumber, string partSerialNumber, string partRevisionNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	partNumber	
System.String	partSerialNumber	
System.String	partRevisionNumber	

Returns

TYPE	DESCRIPTION
UURPartInfo	

AttachByteArray(String, Byte[], String)

Attaches a byte array to the repair report.

Declaration

<code>public UURAttachment AttachByteArray(string label, byte[] content, string mimeType)</code>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	label	Will be showed in WATS as a label to the attachment
System.Byte[]	content	Byte array (binary data) to be attached
System.String	mimeType	Will decide how the browser opens the attachement. see: http://en.wikipedia.org/wiki/Internet_media_type for details If blank, mimeType application/octet-stream will be used

Returns

TYPE	DESCRIPTION
UURAttachment	

AttachFile(String, Boolean)

Attaches a file to the repair report.

Declaration

<code>public UURAttachment AttachFile(string fileName, bool deleteAfterAttach)</code>

Parameters

TYPE	NAME	DESCRIPTION
System.String	fileName	Full path and name of file
System.Boolean	deleteAfterAttach	If true, the file is deleted after being attached

Returns

TYPE	DESCRIPTION
UURAttachment	

GetChildFailCodes(FailCode)

Get the list of failcodes that belongs to a failcode

Declaration

```
public FailCode[] GetChildFailCodes(FailCode failCode)
```

Parameters

TYPE	NAME	DESCRIPTION
FailCode	failCode	

Returns

TYPE	DESCRIPTION
FailCode[]	

GetFailCode(Guid)

Get a Failcode given its id

Declaration

```
public FailCode GetFailCode(Guid failCodeId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	failCodeId	

Returns

TYPE	DESCRIPTION
FailCode	

GetRootFailcodes()

Get the root list of failcodes for this repairtype

Declaration

```
public FailCode[] GetRootFailcodes()
```

Returns

TYPE	DESCRIPTION
FailCode[]	

Class UUTPartInfo

Sub part information

Inheritance

System.Object
UUTPartInfo

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class UUTPartInfo
```

Properties

PartNumber

Part number of subpart

Declaration

```
public string PartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartRevisionNumber

Sub part revision number

Declaration

```
public string PartRevisionNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartType

Type of subpart

Declaration

```
public string PartType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SerialNumber

Sub parts serial number

Declaration

```
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class UUTReport

A unit under test report (UUT) contains calls and datastructures to build up a test report you can submit to WATS use [CreateUUTReport\(String, String, String, String, OperationType, String, String\)](#) to create an instance.

Inheritance

System.Object

[Report](#)

UUTReport

Inherited Members

[Report.reportRow](#)

[Report.api](#)

[Report.ReportId](#)

[Report.SerialNumber](#)

[Report.PartNumber](#)

[Report.PartRevisionNumber](#)

[Report.StationName](#)

[Report.Location](#)

[Report.Purpose](#)

[Report.StartDateTimeOffset](#)

[Report.StartDateTime](#)

[Report.StartDateTimeUTC](#)

[Report.AddAdditionalData\(String, XElement\)](#)

[Report.AddAdditionalStationInfo\(XElement\)](#)

[Report.Load\(TDM, WATSReport\)](#)

[Report.ValidateForSubmit\(\)](#)

[Report.ValidateReport\(\)](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class UUTReport : Report
```

Constructors

UUTReport(TDM, Boolean)

Protected constructor, intended for TestStand integration purpose. Allows dataset access through protected properties.

Declaration

```
protected UUTReport(TDM apiRef, bool createHeader)
```

Parameters

TYPE	NAME	DESCRIPTION
TDM	apiRef	
System.Boolean	createHeader	True if a header should be created

Fields

currentMeasOrder

Internal data

Declaration

```
protected short currentMeasOrder
```

Field Value

TYPE	DESCRIPTION
System.Int16	

currentStepOrder

Internal data

Declaration

```
protected int currentStepOrder
```

Field Value

TYPE	DESCRIPTION
System.Int32	

uutHeaderRow

Internal data

Declaration

```
protected UUT_type uutHeaderRow
```

Field Value

TYPE	DESCRIPTION
Virinco.WATS.Schemas.WRML.UUT_type	

Properties

AllSteps

Returns an array of all steps

Declaration

```
public Step[] AllSteps { get; }
```

Property Value

TYPE	DESCRIPTION
Step[]	

Assets

List of used Assets

Declaration

```
public Asset[] Assets { get; }
```

Property Value

TYPE	DESCRIPTION
Asset[]	

AssetStatistics

List of statistics for used Assets. Only available when getting the report from the server with [LoadReport\(String\)](#).

Declaration

```
public AssetStatistics[] AssetStatistics { get; }
```

Property Value

TYPE	DESCRIPTION
AssetStatistics[]	

BatchFailCount

Batch fail count

Declaration

```
public int BatchFailCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

BatchFailCountFormat

The number format for the batch fail count. See [NumericValueFormat](#) for more info.

Declaration

```
public string BatchFailCountFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

BatchLoopIndex

Index of loop

Declaration

```
public int BatchLoopIndex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

BatchLoopIndexFormat

The number format for the batch loop index. See [NumericValueFormat](#) for more info.

Declaration

```
public string BatchLoopIndexFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

BatchSerialNumber

Serial number of production batch

Declaration

```
public string BatchSerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Comment

Test Comment

Declaration

```
public string Comment { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ErrorCode

Custom error code. Use 0 for no error

Declaration

```
public int ErrorCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

ErrorCodeFormat

Declaration

```
public string ErrorCodeFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ErrorMessage

Textual error message

Declaration

```
public string ErrorMessage { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ExecutionTime

Time (in seconds) for the entire execution.

Declaration

```
public double ExecutionTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

ExecutionTimeFormat

The number format for the execution time. See [NumericValueFormat](#) for more info.

Declaration

```
public string ExecutionTimeFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FailedSteps

Returns all steps with status is not Passed or Skipped. Includes Failed, Error and Terminated

Declaration

```
public Step[] FailedSteps { get; }
```

Property Value

TYPE	DESCRIPTION
Step[]	

FixtureId

Identification of fixture

Declaration

```
public string FixtureId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MiscInfo

List of Misc. UUT info objects

Declaration

```
public MiscUUTInfo[] MiscInfo { get; }
```

Property Value

TYPE	DESCRIPTION
MiscUUTInfo[]	

OperationType

The test report operation type, e.g. PCBA test, Calibration, Final Function etc.

Declaration

```
public OperationType OperationType { get; set; }
```

Property Value

TYPE	DESCRIPTION
OperationType	

OperationTypeCodeFormat

The number format for the operation type code. See [NumericValueFormat](#) for more info.

Declaration

```
public string OperationTypeCodeFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Operator

Name of operator that performs the test

Declaration

```
public string Operator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartInfo

Array of sub-parts registered (can be changed)

Declaration

```
public UUTPartInfo[] PartInfo { get; }
```

Property Value

TYPE	DESCRIPTION
UUTPartInfo[]	

SequenceName

Name of test program

Declaration

```
public string SequenceName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceVersion

Version of test program, 3 or 4 part dotted

Declaration

```
public string SequenceVersion { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Status

UUT Result status. Must be one of the following 4 statuscodes: 'Passed', 'Failed', 'Error', 'Terminated'

Declaration

```
public UUTStatusType Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
UUTStatusType	

TestSocketIndex

Test socket

Declaration

```
public short TestSocketIndex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

TestSocketIndexFormat

The number format for the test socket. See [NumericValueFormat](#) for more info.

Declaration

```
public string TestSocketIndexFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

AddAsset(String, Int32)

Declaration

```
public Asset AddAsset(string assetSerialNumber, int usageCount)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	assetSerialNumber	
System.Int32	usageCount	

Returns

TYPE	DESCRIPTION
Asset	

AddMiscUUTInfo(String)

Used to to store seachable information attached to the UUT header

Declaration

```
public MiscUUTInfo AddMiscUUTInfo(string description)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	description	Misc description

Returns

TYPE	DESCRIPTION
MiscUUTInfo	Empty MiscUUTInfo object

AddMiscUUTInfo(String, Int16)

Used to store seachable information attached to the UUT header

Declaration

```
public MiscUUTInfo AddMiscUUTInfo(string description, short numericValue)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	description	Description of info (tag)
System.Int16	numericValue	A numeric value

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
MiscUUTInfo	A misc info object

AddMiscUUTInfo(String, String)

Used to store seachable information attached to the UUT header

Declaration

```
public MiscUUTInfo AddMiscUUTInfo(string description, string stringValue)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	description	Description of info (tag)
System.String	stringValue	A string value

Returns

TYPE	DESCRIPTION
MiscUUTInfo	A misc info object

AddMiscUUTInfo(String, String, Int16)

Used to store seachable information attached to the UUT header

Declaration

```
public MiscUUTInfo AddMiscUUTInfo(string description, string stringValue, short numericValue)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	description	Description of info (tag)
System.String	stringValue	A string value
System.Int16	numericValue	A numeric value

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
MiscUUTInfo	A misc info object

AddUUTPartInfo()

To add uut part info to the report. Example of uut part info is sub modules with part number, serial number and revision number

Declaration

```
public UUTPartInfo AddUUTPartInfo()
```

Returns

TYPE	DESCRIPTION
UUTPartInfo	Empty UUTPartInfo object

AddUUTPartInfo(String, String, String, String)

To add uut part info to the report. Example of uut part info is sub modules with part number, serial number and revision number

Declaration

```
public UUTPartInfo AddUUTPartInfo(string partType, string partNumber, string partSerialNumber, string partRevisionNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	partType	Describes type of subpart
System.String	partNumber	Subpart's part number
System.String	partSerialNumber	Subpart's serial number
System.String	partRevisionNumber	Subpart's part revision number

Returns

TYPE	DESCRIPTION
UUTPartInfo	

FindSteps(String, String)

Returns steps matching step name and / or step path. Note: StepPath will correspond to a SequenceCall name (nested levels allowed)

Declaration

```
public Step[] FindSteps(string stepName, string stepPath)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	stepName	Step name
System.String	stepPath	Step path

Returns

TYPE	DESCRIPTION
Step[]	

GetFailedStepNames()

Returns string array of failed steps name, same index as [GetFailedStepOrderNumbers\(\)](#)

Declaration

```
public string[] GetFailedStepNames()
```

Returns

TYPE	DESCRIPTION
System.String[]	

GetFailedStepOrderNumbers()

Returns an array of step order numbers that has failed, same index as [GetFailedStepNames\(\)](#)

Declaration

```
public int[] GetFailedStepOrderNumbers()
```

Returns

TYPE	DESCRIPTION
System.Int32[]	

GetNextMeasOrder()

Internal function MeasOrder

Declaration

```
protected short GetNextMeasOrder()
```

Returns

TYPE	DESCRIPTION
System.Int16	

TYPE	DESCRIPTION

GetNextStepOrder()

Internal function

Declaration

```
protected int GetNextStepOrder()
```

Returns

TYPE	DESCRIPTION
System.Int32	

GetRootSequenceCall()

The root sequence of the test

Declaration

```
public SequenceCall GetRootSequenceCall()
```

Returns

TYPE	DESCRIPTION
SequenceCall	

GetStep(Int32)

Gets a step given step order number

Declaration

```
public Step GetStep(int stepOrderNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	stepOrderNumber	

Returns

TYPE	DESCRIPTION
Step	

GetStepCausedUUTFail()

Declaration

```
public Step GetStepCausedUUTFail()
```

Returns

TYPE	DESCRIPTION
Step	

InitializeUutHeader(String, String, String, Boolean)

Internal function

Declaration

```
protected void InitializeUutHeader(string operatorName, string sequenceName, string sequenceVersion, bool initializeRootSequence)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	operatorName	
System.String	sequenceName	
System.String	sequenceVersion	
System.Boolean	initializeRootSequence	

Enum UUTStatusType

UUT status

Namespace: [Virinco.WATS.Interface](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum UUTStatusType : short
```

Fields

NAME	DESCRIPTION
Error	There was an error in the test
Failed	Test Failed
Passed	Successful operation
Terminated	Test terminated

Enum ValidationModeType

Defines how the API will respond to errors. Main cases are:

- Property length Violations
- Invalid xml characters
- Missing properties Invalid XML Characters are defined with this regular expression: `[(?<![\uD800-\uDBFF])[\uDC00-\uDFFF]|\uD800-\uDBFF][\x00-\x08\x0B\x0C\x0E-\x1F\x7F-\x9F\uFEFF\uFFFE\uFFFF]`

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum ValidationModeType
```

Fields

NAME	DESCRIPTION
AutoTruncate	Will truncate properties and invalid characters will be removed or replaced Missing fields will still generate an exception on Submit Use this option with care as data loss can occur.
ThrowExceptions	Will throw and exeption immediately when a property is set that violates a length restriction or property contains invalid characters Missing fields will generate an exception on Submit

Class WATSReportValidationException

Exception class thrown from WATSReport.ValidateForSubmit if one or more Errors was found.

Inheritance

System.Object
System.Exception
WATSReportValidationException

Implements

System.Runtime.Serialization.ISerializable
System.Runtime.InteropServices._Exception

Inherited Members

System.Exception.GetBaseException()
System.Exception.ToString()
System.Exception.GetObjectData(System.Runtime.Serialization.SerializationInfo, System.Runtime.Serialization.StreamingContext)
System.Exception.GetType()
System.Exception.Message
System.Exception.Data
System.Exception.InnerException
System.Exception.TargetSite
System.Exception.StackTrace
System.Exception.HelpLink
System.Exception.Source
System.Exception.HResult
System.Exception.SerializeObjectState
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class WATSReportValidationException : Exception, ISerializable, _Exception
```

Fields

Errors

Declaration

```
public IEnumerable<ReportValidationResult> Errors
```

Field Value

TYPE	DESCRIPTION
System.Collections.Generic.IEnumerable< ReportValidationResult >	

Implements

System.Runtime.Serialization.ISerializable
System.Runtime.InteropServices._Exception

Namespace Virinco.WATS.Interface.Configuration

Classes

[ConverterSettings](#)

Loads saves converter settings

Class ConverterSettings

Loads saves converter settings

Inheritance

System.Object
ConverterSettings

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Configuration](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ConverterSettings
```

Constructors

ConverterSettings(String)

Loads / Saves converter specific settings

Declaration

```
public ConverterSettings(string converterName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	converterName	

Properties

Item[String]

Get / Set converter setting

Declaration

```
public string this[string key] { get; set; }
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	

Property Value

TYPE	DESCRIPTION
System.String	

Methods

Save()

Saves converter settings

Declaration

```
public void Save()
```

Namespace Virinco.WATS.Interface.Models

Classes

[Asset](#)

[Attachment](#)

[Code](#)

[Failcode](#)

[Member](#)

[MemberExtInfo](#)

[MemberPropset](#)

[Miscinfo](#)

[MiscInfo](#)

[ModuleVersion](#)

[PingBack](#)

[Process](#)

[RepairType](#)

[ReportHeader](#)

Return value of [FindReportHeaders\(String, Int32, Int32, String, String, String\)](#).

[Subunit](#)

[Syslog](#)

[UURAttachment](#)

[UURMiscinfo](#)

[UURSubunit](#)

Enums

[ClientType](#)

[CodeType](#)

[ProcessRecordState](#)

Class Asset

Inheritance

System.Object

Asset

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Asset
```

Properties

CalibrationDaysOverdue

Days overdue asset calibration limit when report was processed. Available from 2022.2

Declaration

```
[JsonProperty("calibrationDaysOverdue")]  
public decimal? CalibrationDaysOverdue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

DaysSinceCalibration

Days since previous asset calibration when report was processed. Available from 2022.2

Declaration

```
[JsonProperty("daysSinceCalibration")]  
public decimal? DaysSinceCalibration { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

DaysSinceMaintenance

Days since previous asset maintenance when report was processed. Available from 2022.2

Declaration

```
[JsonProperty("daysSinceMaintenance")]
public decimal? DaysSinceMaintenance { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

MaintenanceDaysOverdue

Days overdue asset maintenance limit when report was processed. Available from 2022.2

Declaration

```
[JsonProperty("maintenanceDaysOverdue")]
public decimal? MaintenanceDaysOverdue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

RunningCount

Asset running count when report was processed. Available from 2022.2

Declaration

```
[JsonProperty("runningCount")]
public int? RunningCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

RunningCountExceeded

Asset running count limit exceeded by when report was processed. Available from 2022.2

Declaration

```
[JsonProperty("runningCountExceeded")]
public int? RunningCountExceeded { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

SerialNumber

Asset serial number. Available from 2022.2

Declaration

```
[JsonProperty("serialNumber")]
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TotalCount

Asset total count when report was processed. Available from 2022.2

Declaration

```
[JsonProperty("totalCount")]
public int? TotalCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

TotalCountExceeded

Asset total count limit exceeded when report was processed. Available from 2022.2

Declaration

```
[JsonProperty("totalCountExceeded")]
public int? TotalCountExceeded { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

Class Attachment

Inheritance

System.Object

Attachment

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Attachment
```

Properties

Filename

Attachment filename. Available from 2022.2

Declaration

```
[JsonProperty("filename")]  
public string Filename { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Enum ClientType

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum ClientType
```

Fields

NAME	DESCRIPTION
LocalServer	
MasterServer	
TestStation	
VirtualLevel	
WebClient	

Class Code

Inheritance

System.Object
Code

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Code
```

Properties

codetype

Declaration

```
public CodeType codetype { get; set; }
```

Property Value

TYPE	DESCRIPTION
CodeType	

Description

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

enum_value

Declaration

```
public short enum_value { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

GUID

Declaration

```
public Guid GUID { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

RelatedTable

Declaration

```
public string RelatedTable { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Enum CodeType

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum CodeType : short
```

Fields

NAME	DESCRIPTION
Status	
StepGroup	
StepType	

Class Failcode

Inheritance

System.Object
Failcode

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Failcode
```

Properties

Description

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Failcodes

Declaration

```
public Failcode[] Failcodes { get; set; }
```

Property Value

TYPE	DESCRIPTION
Failcode []	

FailureType

Declaration

```
public int FailureType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

GUID

Declaration

```
public Guid GUID { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

ImageConstraint

Declaration

```
public string ImageConstraint { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Selectable

Declaration

```
public bool Selectable { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

SortOrder

Declaration

```
public int SortOrder { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Status

Declaration

```
public int Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Class Member

Inheritance

System.Object
Member

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Member
```

Properties

BaseUtcOffset

Declaration

```
public TimeSpan BaseUtcOffset { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.TimeSpan	

extinfos

Declaration

```
public MemberExtInfo[] extinfos { get; set; }
```

Property Value

TYPE	DESCRIPTION
MemberExtInfo[]	

Id

Declaration

```
public Guid Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

logs

Declaration

```
public Syslog[] logs { get; set; }
```

Property Value

TYPE	DESCRIPTION
Syslog[]	

MiscInfo

Declaration

```
public string MiscInfo { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MiscInfo_updated

Declaration

```
public DateTime MiscInfo_updated { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

ParentId

Declaration

```
public Guid ParentId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

propsets

Declaration

```
public MemberPropset[] propsets { get; set; }
```

Property Value

TYPE	DESCRIPTION
MemberPropset[]	

RegDate

Declaration


```
public DateTime RegDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

Status

Declaration

```
public RecordState Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.RecordState	

Class MemberExtInfo

Inheritance

System.Object
MemberExtInfo

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class MemberExtInfo
```

Properties

Key

Declaration

```
public string Key { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Value

Declaration

```
public string Value { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class MemberPropset

Inheritance

System.Object
MemberPropset

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class MemberPropset
```

Properties

IsActivePropset

Declaration

```
public bool IsActivePropset { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Location

Declaration

```
public string Location { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Purpose

Declaration

```
public string Purpose { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StationId

Declaration

```
public string StationId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Miscinfo

Inheritance

System.Object
Miscinfo

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Miscinfo
```

Properties

Description

Misc info description/name. Available from 2022.2

Declaration

```
[JsonProperty("description")]  
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Value

Misc info string value. Available from 2022.2

Declaration

```
[JsonProperty("value")]  
public string Value { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class MiscInfo

Inheritance

System.Object
MiscInfo

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class MiscInfo
```

Properties

Description

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GUID

Declaration

```
public Guid GUID { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

InputMask

Declaration

```
public string InputMask { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Status

Declaration

```
public int Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

ValidRegex

Declaration

```
public string ValidRegex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class ModuleVersion

Inheritance

System.Object
ModuleVersion

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ModuleVersion
```

Properties

Module

Declaration

```
public string Module { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Name

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Version

Declaration

```
public string Version { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class PingBack

Inheritance

System.Object
PingBack

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class PingBack
```

Properties

ServerName

Declaration

```
public string ServerName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ServerTime

Declaration

```
public DateTimeOffset? ServerTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.DateTimeOffset>	

Class Process

Inheritance

System.Object
Process

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Process
```

Properties

Code

Declaration

```
public short Code { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

Description

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IsRepairOperation

Declaration

```
public bool IsRepairOperation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsTestOperation

Declaration

```
public bool IsTestOperation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsWIPOperation

Declaration

```
public bool IsWIPOperation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Name

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProcessID

Declaration

```
public Guid ProcessID { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

ProcessIndex

Declaration

```
public int? ProcessIndex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

Properties

Declaration

```
public RepairType Properties { get; set; }
```

Property Value

TYPE	DESCRIPTION
RepairType	

State

Declaration

```
public ProcessRecordState State { get; set; }
```

Property Value

TYPE	DESCRIPTION
ProcessRecordState	

Enum ProcessRecordState

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public enum ProcessRecordState
```

Fields

NAME	DESCRIPTION
Active	
Deleted	
Inactive	

Class RepairType

Inheritance

System.Object
RepairType

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class RepairType
```

Properties

BomConstraint

Declaration

```
[Obsolete]  
public string BomConstraint { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

BOMRequired

Declaration

```
public int BOMRequired { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Categories

Declaration

```
public Failcode[] Categories { get; set; }
```

Property Value

TYPE	DESCRIPTION
Failcode[]	

CompRefMask

Declaration

```
public string CompRefMask { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CompRefMaskDescription

Declaration

```
public string CompRefMaskDescription { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Description

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MiscInfos

Declaration

```
public MiscInfo[] MiscInfos { get; set; }
```

Property Value

TYPE	DESCRIPTION
MiscInfo[]	

UUTRequired

Declaration

```
public int UUTRequired { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

VendorRequired

Declaration

```
public int VendorRequired { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Class ReportHeader

Return value of [FindReportHeaders\(String, Int32, Int32, String, String, String\)](#).

Inheritance

System.Object
ReportHeader

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ReportHeader
```

Properties

Assets

UUT asset info. Must be expanded. Available from 2022.2

Declaration

```
[JsonProperty("assets")]  
public List<Asset> Assets { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< Asset >	

Attachments

UUT attachments. Must be expanded. Available from 2022.2

Declaration

```
[JsonProperty("attachments")]  
public List<Attachment> Attachments { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< Attachment >	

BatchNumber

Report batch number

Declaration

```
[JsonProperty("batchNumber")]
public string BatchNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CausedUutFailure

Step name that caused the report to fail. Available from 2022.2

Declaration

```
[JsonProperty("causedUutFailure")]
public string CausedUutFailure { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CausedUutFailurePath

Step path that caused the report to fail. Available from 2022.2

Declaration

```
[JsonProperty("causedUutFailurePath")]
public string CausedUutFailurePath { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Comment

Report comment

Declaration

```
[JsonProperty("comment")]
public string Comment { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ErrorCode

Report error code. Available from 2022.2

Declaration

```
[JsonProperty("errorCode")]
public int? ErrorCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

ErrorMessage

Report error message. Available from 2022.2

Declaration

```
[JsonProperty("errorMessage")]
public string ErrorMessage { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ExecutionTime

Report execution time. Available from 2022.2

Declaration

```
[JsonProperty("executionTime")]
public double? ExecutionTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

FixtureId

Report fixture id. Available from 2022.2

Declaration

```
[JsonProperty("fixtureId")]
public string FixtureId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Location

Test station location

Declaration

```
[JsonProperty("location")]
public string Location { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MeasuresDeleted

Declaration

```
[JsonProperty("measuresDeleted")]
public bool MeasuresDeleted { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

MiscInfo

UUT miscellaneous info. Must be expanded. Available from 2022.2

Declaration

```
[JsonProperty("miscInfo")]
public List<Miscinfo> MiscInfo { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< Miscinfo >	

PartNumber

Report part number

Declaration

```
[JsonProperty("partNumber")]
public string PartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PassedInRun

Run number the report first passed in. Available from 2022.2

Declaration

```
[JsonProperty("passedInRun")]
public int? PassedInRun { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

ProcessCode

Report test/repair operation code

Declaration

<pre>[JsonProperty("processCode")] public short ProcessCode { get; set; }</pre>

Property Value

TYPE	DESCRIPTION
System.Int16	

ProcessName

Report test/repair operation name

Declaration

<pre>[JsonProperty("processName")] public string ProcessName { get; set; }</pre>
--

Property Value

TYPE	DESCRIPTION
System.String	

Purpose

Test station purpose.

Declaration

<pre>[JsonProperty("purpose")] public string Purpose { get; set; }</pre>
--

Property Value

TYPE	DESCRIPTION
System.String	

ReceiveCount

Report receive count. Available from 2022.2

Declaration

<pre>[JsonProperty("receiveCount")] public int? ReceiveCount { get; set; }</pre>
--

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

ReferencedUut

Repair report referencing a test report. Available from 2022.2

Declaration

```
[JsonProperty("referencedUut")]
public Guid? ReferencedUut { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Guid>	

ReportSize

Report size in KB. Available from 2022.2

Declaration

```
[JsonProperty("reportSize")]
public int? ReportSize { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

ReportType

Report type.T = UUT, R = UUR

Declaration

```
[JsonProperty("reportType")]
public string ReportType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Result

Report result. Passed, Failed, Error, or Terminated

Declaration

```
[JsonProperty("result")]
public string Result { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Revision

Report revision

Declaration

```
[JsonProperty("revision")]
public string Revision { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Run

Report test run number (same serial number in same test operation). Available from 2022.2

Declaration

```
[JsonProperty("run")]
public int? Run { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

SerialNumber

Report serial number. Can be using in order by

Declaration

```
[JsonProperty("serialNumber")]
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Start

Report start time. In format yyyy-MM-ddTHH:mm:ssZ. Default order by descending

Declaration

```
[JsonProperty("start")]
public DateTimeOffset Start { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTimeOffset	

StationName

Test station name.

Declaration

```
[JsonProperty("stationName")]
public string StationName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SubUnits

UUT sub units. Must be expanded. Available from 2022.2

Declaration

```
[JsonProperty("subUnits")]
public List<Subunit> SubUnits { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< Subunit >	

SwFilename

Report test software filename. Available from 2022.2

Declaration

```
[JsonProperty("swFilename")]
public string SwFilename { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SwVersion

Report test software version. Available from 2022.2

Declaration

```
[JsonProperty("swVersion")]
public string SwVersion { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TestSocketIndex

Report test socket index. Available from 2022.2

Declaration

```
[JsonProperty("testSocketIndex")]
public short? TestSocketIndex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int16>	

TimeStamp

Report processing order. Does not represent time, instead is an incrementing number used as processing order. Can be used in order by

Declaration

```
[JsonProperty("timeStamp")]
public long TimeStamp { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

UserName

Report operator

Declaration

```
[JsonProperty("userName")]
public string UserName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UUID

Report id. Can be used in order by

Declaration

```
[JsonProperty("uuid")]
public Guid UUID { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

UurAttachments

UUR attachments. Must be expanded. Available from 2022.2

Declaration

```
[JsonProperty("uurAttachments")]
public List<UURAttachment> UurAttachments { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< UURAttachment >	

UurMiscInfo

UUR miscellaneous info. Must be expanded. Available from 2022.2

Declaration

```
[JsonProperty("uurMiscInfo")]
public List<UURMiscinfo> UurMiscInfo { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< UURMiscinfo >	

UurSubUnits

UUR sub units. Must be expanded. Available from 2022.2

Declaration

```
[JsonProperty("uurSubUnits")]
public List<UURSubunit> UurSubUnits { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< UURSubunit >	

Class Subunit

Inheritance

System.Object

Subunit

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Subunit
```

Properties

PartNumber

Sub unit part number. Available from 2022.2

Declaration

```
[JsonProperty("partNumber")]  
public string PartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartType

Sub unit part type. Available from 2022.2

Declaration

```
[JsonProperty("partType")]  
public string PartType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Revision

Sub unit revision. Available from 2022.2

Declaration

```
[JsonProperty("revision")]  
public string Revision { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SerialNumber

Sub unit serial number. Available from 2022.2

Declaration

```
[JsonProperty("serialNumber")]  
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Syslog

Inheritance

System.Object
Syslog

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class Syslog
```

Properties

Category

Declaration

```
public LogCategory Category { get; set; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.Logging.LogCategory	

Comment

Declaration

```
public string Comment { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Description

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Destination

Declaration

```
public Guid? Destination { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Guid>	

exception

Declaration

```
public Exception exception { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Exception	

ItemId

Declaration

```
public Guid? ItemId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Guid>	

ItemType

Declaration

```
public TransferItemType? ItemType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<Virinco.WATS.Transfer.TransferItemType>	

LogDate

Declaration

```
public DateTime LogDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

Severity

Declaration

```
public LogSeverity Severity { get; set; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.Logging.LogSeverity	

Source

Declaration

```
public Guid? Source { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Guid>	

TotalTime

Declaration

```
public TimeSpan? TotalTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.TimeSpan>	

Class UURAttachment

Inheritance

System.Object
UURAttachment

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class UURAttachment
```

Properties

Filename

Attachment filename. Available from 2022.2

Declaration

```
[JsonProperty("filename")]  
public string Filename { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ID

Attachment id. Available from 2022.2

Declaration

```
[JsonProperty("id")]  
public Guid? ID { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Guid>	

Class UURMiscinfo

Inheritance

System.Object
UURMiscinfo

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class UURMiscinfo
```

Properties

Description

Misc info description/name. Available from 2022.2

Declaration

```
[JsonProperty("description")]  
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Value

Misc info string value. Available from 2022.2

Declaration

```
[JsonProperty("value")]  
public string Value { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class UURSubunit

Inheritance

System.Object

UURSubunit

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class UURSubunit
```

Properties

PartNumber

Sub unit part number. Available from 2022.2

Declaration

```
[JsonProperty("partNumber")]  
public string PartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Revision

Sub unit revision. Available from 2022.2

Declaration

```
[JsonProperty("revision")]  
public string Revision { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SerialNumber

Sub unit serial number. Available from 2022.2

Declaration

```
[JsonProperty("serialNumber")]  
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Namespace Virinco.WATS.Interface.Statistics

Classes

[TestYield](#)

Client test yield for a part number and test operation.

[YieldMonitor](#)

Used to get client test yield for a part number and test operation.

Class TestYield

Client test yield for a part number and test operation.

Inheritance

System.Object
TestYield

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Statistics](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class TestYield
```

Constructors

TestYield(String, String, String, Int32, Int32, Double, Double, Double, Int32, Int32, String, String, Int32[], Double, Double)

Declaration

```
public TestYield(string partNumber, string operationTypeCode, string operationTypeName, int totalCount, int lastCount, double totalTestYield, double lastTestYield, double testYieldDifference, int totalUUTReportsCount, int lastUUTReportsCount, string totalResults, string lastResults, int[] trend, double warnLevel, double criticalLevel)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	partNumber	
System.String	operationTypeCode	
System.String	operationTypeName	
System.Int32	totalCount	
System.Int32	lastCount	
System.Double	totalTestYield	
System.Double	lastTestYield	
System.Double	testYieldDifference	
System.Int32	totalUUTReportsCount	

TYPE	NAME	DESCRIPTION
System.Int32	lastUUTReportsCount	
System.String	totalResults	
System.String	lastResults	
System.Int32[]	trend	
System.Double	warnLevel	
System.Double	criticalLevel	

Properties

CriticalLevel

The threshold for the test yield being critically low.

Declaration

```
public double CriticalLevel { get; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

LastCount

The max number of reports for this part number and test operation on this client that the client treats as the latest reports. The default is 100.

Declaration

```
public int LastCount { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

LastResults

The latest report results for this part number and test operation on this client this client has statistics for. It is a line of P and F characters, starting with the latest report.

Declaration

```
public string LastResults { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LastTestYield

The yield of the latest reports for this part number and test operation on this client.

Declaration

```
public double LastTestYield { get; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

LastUUTReportsCount

The number of reports for this part number and test operation on this client that is treated as the latest reports.

Declaration

```
public int LastUUTReportsCount { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

OperationTypeCode

The code of the test operation the test yield is for.

Declaration

```
public string OperationTypeCode { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

OperationTypeName

The name of the test operation the test yield is for.

Declaration

```
public string OperationTypeName { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartNumber

The part number the test yield is for.

Declaration

```
public string PartNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TestYieldDifference

The yield difference between [TotalTestYield](#) and [LastTestYield](#).

Declaration

```
public double TestYieldDifference { get; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

TotalCount

The max number of reports for this part number and test operation on this client that the client keeps statistics for. The default is 2000.

Declaration

```
public int TotalCount { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

TotalResults

All the report results for this part number and test operation on this client this client has statistics for. It is a line of P and F characters, starting with the latest report.

Declaration

```
public string TotalResults { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TotalTestYield

The yield of all the reports for this part number and test operation on this client this client keeps statistics for.

Declaration

```
public double TotalTestYield { get; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

TotalUUTReportsCount

The total number of reports for this part number and test operation on this client this client has statistics for.

Declaration

```
public int TotalUUTReportsCount { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Trend

The test yield trend for this part number and test operation on this client.

Declaration

```
public int[] Trend { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32[]	

WarnLevel

The threshold for warning about low test yield.

Declaration

```
public double WarnLevel { get; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Class YieldMonitor

Used to get client test yield for a part number and test operation.

Inheritance

System.Object
YieldMonitor

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.Statistics](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class YieldMonitor
```

Properties

AlwaysOnTop

Yield monitor always on top setting. Set in WATS Client Configurator.

Declaration

```
public bool AlwaysOnTop { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

RunOnStartup

Yield monitor run on startup setting. Set in WATS Client Configurator.

Declaration

```
public bool RunOnStartup { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Tranparency

Yield monitor transparency setting. Set in WATS Client Configurator.

Declaration

```
public double Tranparency { get; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Methods

GetTestYield(String, Int16)

Get test yield for a part number and test operation from this client.

Declaration

```
public TestYield GetTestYield(string partNumber, short testOperationCode)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	partNumber	The part number to get test yield for.
System.Int16	testOperationCode	The test operation to get test yield for.

Returns

TYPE	DESCRIPTION
TestYield	

GetTestYield(String, String)

Get test yield for a part number and test operation from this client.

Declaration

```
public TestYield GetTestYield(string partNumber, string testOperationCode)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	partNumber	The part number to get test yield for.
System.String	testOperationCode	The test operation to get test yield for.

Returns

TYPE	DESCRIPTION
TestYield	

GetTestYield(String, OperationType)

Get test yield for a part number and test operation from this client.

Declaration

```
public TestYield GetTestYield(string partNumber, OperationType operationType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	partNumber	The part number to get test yield for.
OperationType	operationType	The test operation to get test yield for.

Returns

TYPE	DESCRIPTION
TestYield	

Events

Updated

Event invoked when any statistics are updated.

Declaration

```
public event EventHandler Updated
```

Event Type

TYPE	DESCRIPTION
System.EventHandler	

Namespace Virinco.WATS.Models.PCLImport

Classes

[ClientUpdate](#)

WATS Client updatefile

Class ClientUpdate

WATS Client updatefile

Inheritance

System.Object
ClientUpdate

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Models.PCLImport](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ClientUpdate
```

Properties

Name

Filename

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Platform

Platform, allowed values: x86 or x64

Declaration

```
public string Platform { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Version

Version number (3 or 4 part version number)

Declaration

```
public string Version { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Namespace Virinco.WATS.Web.Api.Models

Classes

[WatsReportHeader](#)

Class WatsReportHeader

Inheritance

System.Object
WatsReportHeader

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Web.Api.Models](#)

Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
[Table("WatsReportHeader", Schema = "api")]  
[Obsolete("Deprecated along with FindReports, use FindReportHeaders instead.")]  
public class WatsReportHeader
```

Properties

BatchNo

Declaration

```
[Column(TypeName = "varchar")]  
public string BatchNo { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Guid

Declaration

```
[Key]  
public Guid Guid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Location

Declaration

```
[Column(TypeName = "nvarchar")]  
public string Location { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MachineName

Declaration

```
[Column(TypeName = "nvarchar")]
public string MachineName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MeasuresDeleted

Declaration

```
public bool MeasuresDeleted { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

OpCode

Declaration

```
[Column(TypeName = "varchar")]
public string OpCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Operator

Declaration

```
[Column(TypeName = "varchar")]
public string Operator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

OpName

Declaration

```
[Column(TypeName = "varchar")]
public string OpName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PN

Declaration

[Column(TypeName = "varchar")] public string PN { get; set; }
--

Property Value

TYPE	DESCRIPTION
System.String	

Purpose

Declaration

[Column(TypeName = "nvarchar")] public string Purpose { get; set; }
--

Property Value

TYPE	DESCRIPTION
System.String	

ReportType

Declaration

[Column(TypeName = "varchar")] public string ReportType { get; set; }
--

Property Value

TYPE	DESCRIPTION
System.String	

Result

Declaration

[Column(TypeName = "varchar")] public string Result { get; set; }
--

Property Value

TYPE	DESCRIPTION
System.String	

Rev

Declaration

```
[Column(TypeName = "varchar")]  
public string Rev { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SN

Declaration

```
[Column(TypeName = "varchar")]  
public string SN { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Start_UTC

Declaration

```
public DateTime Start_UTC { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

tstamp

Declaration

```
public long tstamp { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

Namespace Virinco.WATS.Web.Dashboard.Models.procs

Classes

[ReportsWrmlUpsertResult](#)

Class ReportsWrmlUpsertResult

Inheritance

System.Object
ReportsWrmlUpsertResult

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Web.Dashboard.Models.procs](#)
Assembly: Virinco.WATS.Interface.TDM.dll

Syntax

```
public class ReportsWrmlUpsertResult
```

Properties

ID

Declaration

```
public Guid ID { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

insert_message

Declaration

```
public string insert_message { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

insert_result

Declaration

```
public int insert_result { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

PN

Declaration

```
public string PN { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

receivecount

Declaration

```
public int receivecount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Report_ID

Declaration

```
public int Report_ID { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

report_result

Declaration

```
public int report_result { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

reportstate

Declaration

```
public char reportstate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Char	

SN

Declaration

```
public string SN { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Start_utc

Declaration

```
public DateTimeOffset Start_utc { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTimeOffset	

type

Declaration

```
public string type { get; set; }
```

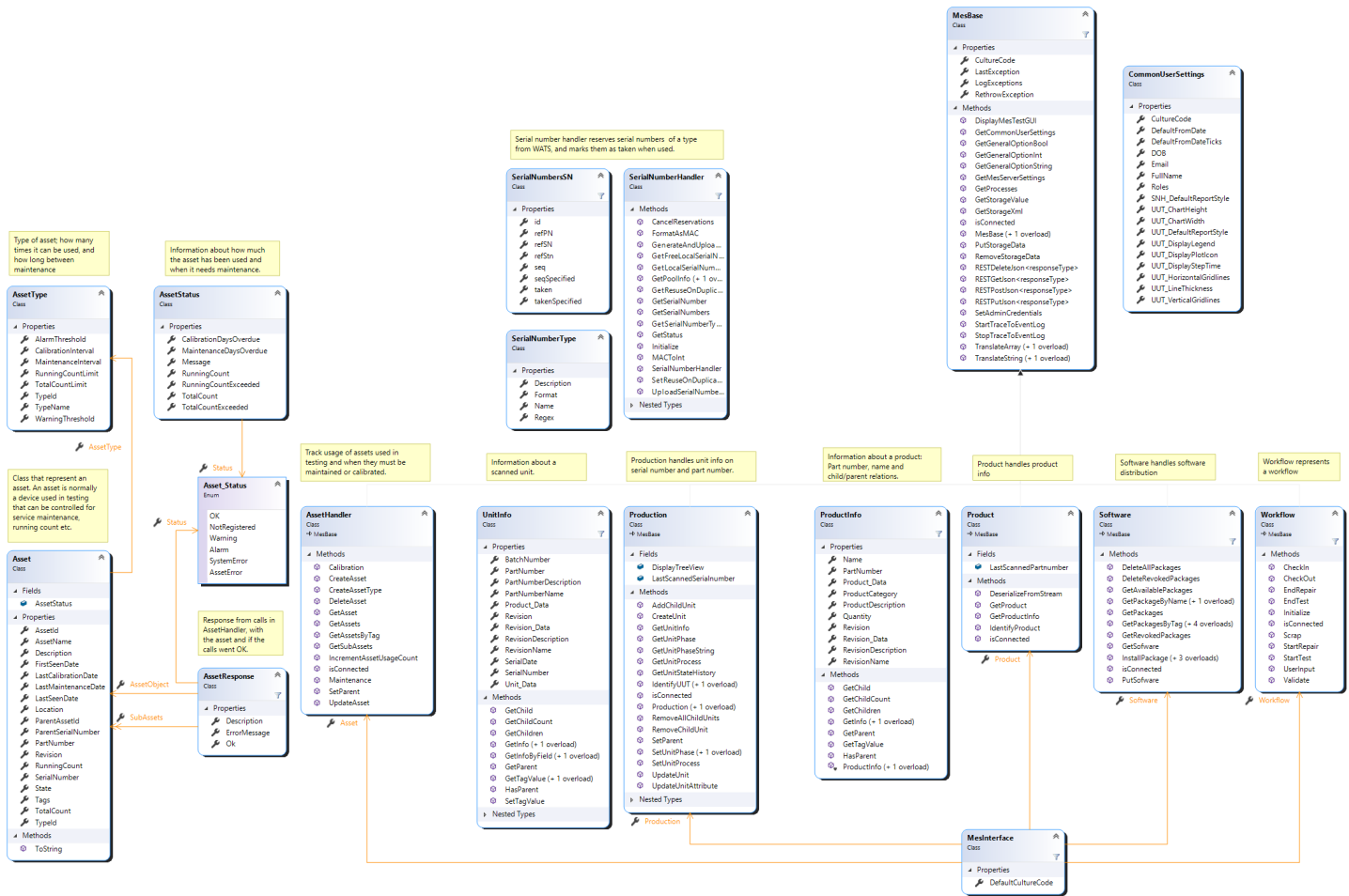
Property Value

TYPE	DESCRIPTION
System.String	

MES Interface

Welcome to WATS MES (WATS Manufacturing Execution System) Interface for .NET.

WATS MES Interface for .NET is a toolset that enables you to query WATS for Product, Unit, Software and Asset information.



Namespace Virinco.WATS.Configuration

Classes

[CommonUserSettings](#)

Class CommonUserSettings

Inheritance

System.Object
CommonUserSettings

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Configuration](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class CommonUserSettings
```

Properties

CultureCode

Declaration

```
public string CultureCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DefaultFromDate

Declaration

```
public TimeSpan DefaultFromDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.TimeSpan	

DefaultFromDateTicks

Declaration

```
public long DefaultFromDateTicks { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

DOB

Declaration

```
public DateTime DOB { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

Email

This is only a getter. MemberShipUser stores the value

Declaration

```
public string Email { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FullName

Declaration

```
public string FullName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Levels

Declaration

```
public string[] Levels { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String[]	

ProductGroups

Declaration

```
public string[] ProductGroups { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String[]	

Roles

This is only a getter. RoleProvider stores the value

Declaration

```
public string[] Roles { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String[]	

SNH_DefaultReportStyle

0=Hierarchical,1=Flat

Declaration

```
public int SNH_DefaultReportStyle { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

UUT_ChartHeight

Declaration

```
public int UUT_ChartHeight { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

UUT_ChartWidth

Declaration

```
public int UUT_ChartWidth { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

UUT_DefaultReportStyle

0=savable,1=printable

Declaration

```
public int UUT_DefaultReportStyle { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

UUT_DisplayLegend

Declaration

public bool UUT_DisplayLegend { get; set; }

Property Value

TYPE	DESCRIPTION
System.Boolean	

UUT_DisplayPlotIcon

Declaration

public bool UUT_DisplayPlotIcon { get; set; }

Property Value

TYPE	DESCRIPTION
System.Boolean	

UUT_DisplayStepTime

Declaration

public bool UUT_DisplayStepTime { get; set; }

Property Value

TYPE	DESCRIPTION
System.Boolean	

UUT_HorizontalGridlines

Declaration

public bool UUT_HorizontalGridlines { get; set; }

Property Value

TYPE	DESCRIPTION
System.Boolean	

UUT_LineThickness

Declaration

public int UUT_LineThickness { get; set; }
--

Property Value

TYPE	DESCRIPTION
System.Int32	

UUT_VerticalGridlines

Declaration

```
public bool UUT_VerticalGridlines { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Namespace Virinco.WATS.Interface.MES

Classes

[ErrorDialog](#)

Error dialog for user

[MesBase](#)

Base class for use in Production, Product, Software, Equipment and Asset...

[MesInterface](#)

Holding references to all MES components.

Class ErrorDialog

Error dialog for user

Inheritance

System.Object
System.MarshalByRefObject
System.ComponentModel.Component
System.Windows.Forms.Control
System.Windows.Forms.ScrollableControl
System.Windows.Forms.ContainerControl
System.Windows.Forms.Form
ErrorDialog

Implements

System.Windows.Forms.IDropTarget
System.ComponentModel.ISynchronizeInvoke
System.Windows.Forms.IWin32Window
System.Windows.Forms.IBindableComponent
System.ComponentModel.IComponent
System.IDisposable
System.Windows.Forms.IContainerControl

Inherited Members

System.Windows.Forms.Form.SetVisibleCore(System.Boolean)
System.Windows.Forms.Form.Activate()
System.Windows.Forms.Form.ActivateMdiChild(System.Windows.Forms.Form)
System.Windows.Forms.Form.AddOwnedForm(System.Windows.Forms.Form)
System.Windows.Forms.Form.AdjustFormScrollbars(System.Boolean)
System.Windows.Forms.Form.Close()
System.Windows.Forms.Form.CreateControlsInstance()
System.Windows.Forms.Form.CreateHandle()
System.Windows.Forms.Form.DefWndProc(System.Windows.Forms.Message)
System.Windows.Forms.Form.ProcessMnemonic(System.Char)
System.Windows.Forms.Form.CenterToParent()
System.Windows.Forms.Form.CenterToScreen()
System.Windows.Forms.Form.LayoutMdi(System.Windows.Forms.MdiLayout)
System.Windows.Forms.Form.OnActivated(System.EventArgs)
System.Windows.Forms.Form.OnBackgroundImageChanged(System.EventArgs)
System.Windows.Forms.Form.OnBackgroundImageLayoutChanged(System.EventArgs)
System.Windows.Forms.Form.OnClosing(System.ComponentModel.CancelEventArgs)
System.Windows.Forms.Form.OnClosed(System.EventArgs)
System.Windows.Forms.Form.OnFormClosing(System.Windows.Forms.FormClosingEventArgs)
System.Windows.Forms.Form.OnFormClosed(System.Windows.Forms.FormClosedEventArgs)
System.Windows.Forms.Form.OnCreateControl()
System.Windows.Forms.Form.OnDeactivate(System.EventArgs)
System.Windows.Forms.Form.OnEnabledChanged(System.EventArgs)
System.Windows.Forms.Form.OnEnter(System.EventArgs)
System.Windows.Forms.Form.OnFontChanged(System.EventArgs)
System.Windows.Forms.Form.OnHandleCreated(System.EventArgs)
System.Windows.Forms.Form.OnHandleDestroyed(System.EventArgs)
System.Windows.Forms.Form.OnHelpButtonClicked(System.ComponentModel.CancelEventArgs)
System.Windows.Forms.Form.OnLayout(System.Windows.Forms.LayoutEventArgs)
System.Windows.Forms.Form.OnLoad(System.EventArgs)
System.Windows.Forms.Form.OnMaximizedBoundsChanged(System.EventArgs)

System.Windows.Forms.Form.OnMaximumSizeChanged(System.EventArgs)
System.Windows.Forms.Form.OnMinimumSizeChanged(System.EventArgs)
System.Windows.Forms.Form.OnInputLanguageChanged(System.Windows.Forms.InputLanguageChangedEventArgs)
System.Windows.Forms.Form.OnInputLanguageChanging(System.Windows.Forms.InputLanguageChangingEventArgs)
System.Windows.Forms.Form.OnVisibleChanged(System.EventArgs)
System.Windows.Forms.Form.OnMdiChildActivate(System.EventArgs)
System.Windows.Forms.Form.OnMenuStart(System.EventArgs)
System.Windows.Forms.Form.OnMenuComplete(System.EventArgs)
System.Windows.Forms.Form.OnPaint(System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.Form.OnResize(System.EventArgs)
System.Windows.Forms.Form.OnRightToLeftLayoutChanged(System.EventArgs)
System.Windows.Forms.Form.OnShown(System.EventArgs)
System.Windows.Forms.Form.OnTextChanged(System.EventArgs)
System.Windows.Forms.Form.ProcessCmdKey(System.Windows.Forms.Message, System.Windows.Forms.Keys)
System.Windows.Forms.Form.ProcessDialogKey(System.Windows.Forms.Keys)
System.Windows.Forms.Form.ProcessDialogChar(System.Char)
System.Windows.Forms.Form.ProcessKeyPreview(System.Windows.Forms.Message)
System.Windows.Forms.Form.ProcessTabKey(System.Boolean)
System.Windows.Forms.Form.RemoveOwnedForm(System.Windows.Forms.Form)
System.Windows.Forms.Form.Select(System.Boolean, System.Boolean)
System.Windows.Forms.Form.GetScaledBounds(System.Drawing.Rectangle, System.Drawing.SizeF, System.Windows.Forms.BoundsSpecified)
System.Windows.Forms.Form.ScaleControl(System.Drawing.SizeF, System.Windows.Forms.BoundsSpecified)
System.Windows.Forms.Form.SetBoundsCore(System.Int32, System.Int32, System.Int32, System.Int32, System.Windows.Forms.BoundsSpecified)
System.Windows.Forms.Form.SetClientSizeCore(System.Int32, System.Int32)
System.Windows.Forms.Form.SetDesktopBounds(System.Int32, System.Int32, System.Int32, System.Int32)
System.Windows.Forms.Form.SetDesktopLocation(System.Int32, System.Int32)
System.Windows.Forms.Form.Show(System.Windows.Forms.IWin32Window)
System.Windows.Forms.Form.ShowDialog()
System.Windows.Forms.Form.ShowDialog(System.Windows.Forms.IWin32Window)
System.Windows.Forms.Form.ToString()
System.Windows.Forms.Form.UpdateDefaultButton()
System.Windows.Forms.Form.OnResizeBegin(System.EventArgs)
System.Windows.Forms.Form.OnResizeEnd(System.EventArgs)
System.Windows.Forms.Form.OnStyleChanged(System.EventArgs)
System.Windows.Forms.Form.ValidateChildren()
System.Windows.Forms.Form.ValidateChildren(System.Windows.Forms.ValidationConstraints)
System.Windows.Forms.Form.WndProc(System.Windows.Forms.Message)
System.Windows.Forms.Form.AcceptButton
System.Windows.Forms.Form.ActiveForm
System.Windows.Forms.Form.ActiveMdiChild
System.Windows.Forms.Form.AllowTransparency
System.Windows.Forms.Form.AutoScroll
System.Windows.Forms.Form.AutoSize
System.Windows.Forms.Form.AutoSizeMode
System.Windows.Forms.Form.AutoValidate
System.Windows.Forms.Form.BackColor
System.Windows.Forms.Form.FormBorderStyle
System.Windows.Forms.Form.CancelButton
System.Windows.Forms.Form.ClientSize
System.Windows.Forms.Form.ControlBox
System.Windows.Forms.Form.CreateParams
System.Windows.Forms.Form.DefaultImeMode

System.Windows.Forms.Form.DefaultSize
System.Windows.Forms.Form.DesktopBounds
System.Windows.Forms.Form.DesktopLocation
System.Windows.Forms.Form.DialogResult
System.Windows.Forms.Form.HelpButton
System.Windows.Forms.Form.Icon
System.Windows.Forms.Form.IsMdiChild
System.Windows.Forms.Form.IsMdiContainer
System.Windows.Forms.Form.IsRestrictedWindow
System.Windows.Forms.Form.KeyPreview
System.Windows.Forms.Form.Location
System.Windows.Forms.Form.MaximizedBounds
System.Windows.Forms.Form.MaximumSize
System.Windows.Forms.Form.MainMenuStrip
System.Windows.Forms.Form.Menu
System.Windows.Forms.Form.MinimumSize
System.Windows.Forms.Form.MaximizeBox
System.Windows.Forms.Form.MdiChildren
System.Windows.Forms.Form.MdiParent
System.Windows.Forms.Form.MergedMenu
System.Windows.Forms.Form.MinimizeBox
System.Windows.Forms.Form.Modal
System.Windows.Forms.Form.Opacity
System.Windows.Forms.Form.OwnedForms
System.Windows.Forms.Form.Owner
System.Windows.Forms.Form.RestoreBounds
System.Windows.Forms.Form.RightToLeftLayout
System.Windows.Forms.Form.ShowInTaskbar
System.Windows.Forms.Form.ShowIcon
System.Windows.Forms.Form.ShowWithoutActivation
System.Windows.Forms.Form.Size
System.Windows.Forms.Form.SizeGripStyle
System.Windows.Forms.Form.StartPosition
System.Windows.Forms.Form.Text
System.Windows.Forms.Form.TopLevel
System.Windows.Forms.Form.TopMost
System.Windows.Forms.Form.TransparencyKey
System.Windows.Forms.Form.WindowState
System.Windows.Forms.Form.AutoSizeChanged
System.Windows.Forms.Form.AutoValidateChanged
System.Windows.Forms.Form.HelpButtonClicked
System.Windows.Forms.Form.MaximizedBoundsChanged
System.Windows.Forms.Form.MaximumSizeChanged
System.Windows.Forms.Form.MinimumSizeChanged
System.Windows.Forms.Form.Activated
System.Windows.Forms.Form.Deactivate
System.Windows.Forms.Form.FormClosing
System.Windows.Forms.Form.FormClosed
System.Windows.Forms.Form.Load
System.Windows.Forms.Form.MdiChildActivate
System.Windows.Forms.Form.MenuComplete
System.Windows.Forms.Form.MenuStart
System.Windows.Forms.Form.InputLanguageChanged
System.Windows.Forms.Form.InputLanguageChanging

System.Windows.Forms.Form.RightToLeftLayoutChanged
System.Windows.Forms.Form.Shown
System.Windows.Forms.Form.ResizeBegin
System.Windows.Forms.Form.ResizeEnd
System.Windows.Forms.ContainerControl.System.Windows.Forms.IContainerControl.ActivateControl(System.Windows.Forms.Control)
System.Windows.Forms.ContainerControl.OnAutoValidateChanged(System.EventArgs)
System.Windows.Forms.ContainerControl.OnParentChanged(System.EventArgs)
System.Windows.Forms.ContainerControl.PerformAutoScale()
System.Windows.Forms.ContainerControl.Validate()
System.Windows.Forms.ContainerControl.Validate(System.Boolean)
System.Windows.Forms.ContainerControl.AutoScaleDimensions
System.Windows.Forms.ContainerControl.AutoScaleFactor
System.Windows.Forms.ContainerControl.AutoScaleMode
System.Windows.Forms.ContainerControl.BindingContext
System.Windows.Forms.ContainerControl.CanEnableIme
System.Windows.Forms.ContainerControl.ActiveControl
System.Windows.Forms.ContainerControl.CurrentAutoScaleDimensions
System.Windows.Forms.ContainerControl.ParentForm
System.Windows.Forms.ScrollableControl.ScrollStateAutoScrolling
System.Windows.Forms.ScrollableControl.ScrollStateHScrollVisible
System.Windows.Forms.ScrollableControl.ScrollStateVScrollVisible
System.Windows.Forms.ScrollableControl.ScrollStateUserHasScrolled
System.Windows.Forms.ScrollableControl.ScrollStateFullDrag
System.Windows.Forms.ScrollableControl.GetScrollState(System.Int32)
System.Windows.Forms.ScrollableControl.OnMouseWheel(System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.ScrollableControl.OnRightToLeftChanged(System.EventArgs)
System.Windows.Forms.ScrollableControl.OnPaintBackground(System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.ScrollableControl.OnPaddingChanged(System.EventArgs)
System.Windows.Forms.ScrollableControl.SetDisplayRectLocation(System.Int32, System.Int32)
System.Windows.Forms.ScrollableControl.ScrollControlIntoView(System.Windows.Forms.Control)
System.Windows.Forms.ScrollableControl.ScrollToControl(System.Windows.Forms.Control)
System.Windows.Forms.ScrollableControl.OnScroll(System.Windows.Forms.ScrollEventArgs)
System.Windows.Forms.ScrollableControl.SetAutoScrollMargin(System.Int32, System.Int32)
System.Windows.Forms.ScrollableControl.SetScrollState(System.Int32, System.Boolean)
System.Windows.Forms.ScrollableControl.AutoScrollMargin
System.Windows.Forms.ScrollableControl.AutoScrollPosition
System.Windows.Forms.ScrollableControl.AutoScrollMinSize
System.Windows.Forms.ScrollableControl.DisplayRectangle
System.Windows.Forms.ScrollableControl.HScroll
System.Windows.Forms.ScrollableControl.HorizontalScroll
System.Windows.Forms.ScrollableControl.VScroll
System.Windows.Forms.ScrollableControl.VerticalScroll
System.Windows.Forms.ScrollableControl.Scroll
System.Windows.Forms.Control.GetAccessibilityObjectById(System.Int32)
System.Windows.Forms.Control.SetAutoSizeMode(System.Windows.Forms.AutoSizeMode)
System.Windows.Forms.Control.GetAutoSizeMode()
System.Windows.Forms.Control.GetPreferredSize(System.Drawing.Size)
System.Windows.Forms.Control.AccessibilityNotifyClients(System.Windows.Forms.AccessibleEvents, System.Int32)
System.Windows.Forms.Control.AccessibilityNotifyClients(System.Windows.Forms.AccessibleEvents, System.Int32, System.Int32)
System.Windows.Forms.Control.BeginInvoke(System.Delegate)
System.Windows.Forms.Control.BeginInvoke(System.Delegate, System.Object[])
System.Windows.Forms.Control.BringToFront()
System.Windows.Forms.Control.Contains(System.Windows.Forms.Control)
System.Windows.Forms.Control.CreateAccessibilityInstance()

System.Windows.Forms.Control.CreateGraphics()
System.Windows.Forms.Control.CreateControl()
System.Windows.Forms.Control.DestroyHandle()
System.Windows.Forms.Control.DoDragDrop(System.Object, System.Windows.Forms.DragDropEffects)
System.Windows.Forms.Control.DrawToBitmap(System.Drawing.Bitmap, System.Drawing.Rectangle)
System.Windows.Forms.Control.EndInvoke(System.IAsyncResult)
System.Windows.Forms.Control.FindForm()
System.Windows.Forms.Control.GetTopLevel()
System.Windows.Forms.Control.RaiseKeyEvent(System.Object, System.Windows.Forms.KeyEventArgs)
System.Windows.Forms.Control.RaiseMouseEvent(System.Object, System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.Control.Focus()
System.Windows.Forms.Control.FromChildHandle(System.IntPtr)
System.Windows.Forms.Control.FromHandle(System.IntPtr)
System.Windows.Forms.Control.GetChildAtPoint(System.Drawing.Point, System.Windows.Forms.GetChildAtPointSkip)
System.Windows.Forms.Control.GetChildAtPoint(System.Drawing.Point)
System.Windows.Forms.Control.GetContainerControl()
System.Windows.Forms.Control.GetNextControl(System.Windows.Forms.Control, System.Boolean)
System.Windows.Forms.Control.GetStyle(System.Windows.Forms.ControlStyles)
System.Windows.Forms.Control.Hide()
System.Windows.Forms.Control.InitLayout()
System.Windows.Forms.Control.Invalidate(System.Drawing.Region)
System.Windows.Forms.Control.Invalidate(System.Drawing.Region, System.Boolean)
System.Windows.Forms.Control.Invalidate()
System.Windows.Forms.Control.Invalidate(System.Boolean)
System.Windows.Forms.Control.Invalidate(System.Drawing.Rectangle)
System.Windows.Forms.Control.Invalidate(System.Drawing.Rectangle, System.Boolean)
System.Windows.Forms.Control.Invoke(System.Delegate)
System.Windows.Forms.Control.Invoke(System.Delegate, System.Object[])
System.Windows.Forms.Control.InvokePaint(System.Windows.Forms.Control, System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.Control.InvokePaintBackground(System.Windows.Forms.Control, System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.Control.IsKeyLocked(System.Windows.Forms.Keys)
System.Windows.Forms.Control.IsInputChar(System.Char)
System.Windows.Forms.Control.IsInputKey(System.Windows.Forms.Keys)
System.Windows.Forms.Control.IsMnemonic(System.Char, System.String)
System.Windows.Forms.Control.NotifyInvalidate(System.Drawing.Rectangle)
System.Windows.Forms.Control.InvokeOnClick(System.Windows.Forms.Control, System.EventArgs)
System.Windows.Forms.Control.OnAutoSizeChanged(System.EventArgs)
System.Windows.Forms.Control.OnBackColorChanged(System.EventArgs)
System.Windows.Forms.Control.OnBindingContextChanged(System.EventArgs)
System.Windows.Forms.Control.OnCausesValidationChanged(System.EventArgs)
System.Windows.Forms.Control.OnContextMenuChanged(System.EventArgs)
System.Windows.Forms.Control.OnContextMenuStripChanged(System.EventArgs)
System.Windows.Forms.Control.OnCursorChanged(System.EventArgs)
System.Windows.Forms.Control.OnDockChanged(System.EventArgs)
System.Windows.Forms.Control.OnForeColorChanged(System.EventArgs)
System.Windows.Forms.Control.OnNotifyMessage(System.Windows.Forms.Message)
System.Windows.Forms.Control.OnParentBackColorChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentBackgroundImageChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentBindingContextChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentCursorChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentEnabledChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentFontChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentForeColorChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentRightToLeftChanged(System.EventArgs)

System.Windows.Forms.Control.OnParentVisibleChanged(System.EventArgs)
System.Windows.Forms.Control.OnPrint(System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.Control.OnTabIndexChanged(System.EventArgs)
System.Windows.Forms.Control.OnTabStopChanged(System.EventArgs)
System.Windows.Forms.Control.OnClick(System.EventArgs)
System.Windows.Forms.Control.OnClientSizeChanged(System.EventArgs)
System.Windows.Forms.Control.OnControlAdded(System.Windows.Forms.ControlEventArgs)
System.Windows.Forms.Control.OnControlRemoved(System.Windows.Forms.ControlEventArgs)
System.Windows.Forms.Control.OnLocationChanged(System.EventArgs)
System.Windows.Forms.Control.OnDoubleClick(System.EventArgs)
System.Windows.Forms.Control.OnDragEnter(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.OnDragOver(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.OnDragLeave(System.EventArgs)
System.Windows.Forms.Control.OnDragDrop(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.OnGiveFeedback(System.Windows.Forms.GiveFeedbackEventArgs)
System.Windows.Forms.Control.InvokeGotFocus(System.Windows.Forms.Control, System.EventArgs)
System.Windows.Forms.Control.OnGotFocus(System.EventArgs)
System.Windows.Forms.Control.OnHelpRequested(System.Windows.Forms.HelpEventArgs)
System.Windows.Forms.Control.OnInvalidated(System.Windows.Forms.InvalidateEventArgs)
System.Windows.Forms.Control.OnKeyDown(System.Windows.Forms.KeyEventArgs)
System.Windows.Forms.Control.OnKeyPress(System.Windows.Forms.KeyPressEventArgs)
System.Windows.Forms.Control.OnKeyUp(System.Windows.Forms.KeyEventArgs)
System.Windows.Forms.Control.OnLeave(System.EventArgs)
System.Windows.Forms.Control.InvokeLostFocus(System.Windows.Forms.Control, System.EventArgs)
System.Windows.Forms.Control.OnLostFocus(System.EventArgs)
System.Windows.Forms.Control.OnMarginChanged(System.EventArgs)
System.Windows.Forms.Control.OnMouseDoubleClick(System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.Control.OnMouseClick(System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.Control.OnMouseCaptureChanged(System.EventArgs)
System.Windows.Forms.Control.OnMouseDown(System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.Control.OnMouseEnter(System.EventArgs)
System.Windows.Forms.Control.OnMouseLeave(System.EventArgs)
System.Windows.Forms.Control.OnMouseHover(System.EventArgs)
System.Windows.Forms.Control.OnMouseMove(System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.Control.OnMouseUp(System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.Control.OnMove(System.EventArgs)
System.Windows.Forms.Control.OnQueryContinueDrag(System.Windows.Forms.QueryContinueDragEventArgs)
System.Windows.Forms.Control.OnRegionChanged(System.EventArgs)
System.Windows.Forms.Control.OnPreviewKeyDown(System.Windows.Forms.PreviewKeyDownEventArgs)
System.Windows.Forms.Control.OnSizeChanged(System.EventArgs)
System.Windows.Forms.Control.OnChangeUICues(System.Windows.Forms.UICuesEventArgs)
System.Windows.Forms.Control.OnSystemColorsChanged(System.EventArgs)
System.Windows.Forms.Control.OnValidating(System.ComponentModel.CancelEventArgs)
System.Windows.Forms.Control.OnValidated(System.EventArgs)
System.Windows.Forms.Control.PerformLayout()
System.Windows.Forms.Control.PerformLayout(System.Windows.Forms.Control, System.String)
System.Windows.Forms.Control.PointToClient(System.Drawing.Point)
System.Windows.Forms.Control.PointToScreen(System.Drawing.Point)
System.Windows.Forms.Control.PreProcessMessage(System.Windows.Forms.Message)
System.Windows.Forms.Control.PreProcessControlMessage(System.Windows.Forms.Message)
System.Windows.Forms.Control.ProcessKeyEventArgs(System.Windows.Forms.Message)
System.Windows.Forms.Control.ProcessKeyMessage(System.Windows.Forms.Message)
System.Windows.Forms.Control.RaiseDragEvent(System.Object, System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.RaisePaintEvent(System.Object, System.Windows.Forms.PaintEventArgs)

System.Windows.Forms.Control.RecreateHandle()
System.Windows.Forms.Control.RectangleToClient(System.Drawing.Rectangle)
System.Windows.Forms.Control.RectangleToScreen(System.Drawing.Rectangle)
System.Windows.Forms.Control.ReflectMessage(System.IntPtr, System.Windows.Forms.Message)
System.Windows.Forms.Control.Refresh()
System.Windows.Forms.Control.ResetMouseEventArgs()
System.Windows.Forms.Control.ResetText()
System.Windows.Forms.Control.ResumeLayout()
System.Windows.Forms.Control.ResumeLayout(System.Boolean)
System.Windows.Forms.Control.Scale(System.Drawing.SizeF)
System.Windows.Forms.Control.Select()
System.Windows.Forms.Control.SelectNextControl(System.Windows.Forms.Control, System.Boolean, System.Boolean, System.Boolean, System.Boolean)
System.Windows.Forms.Control.SendToBack()
System.Windows.Forms.Control.SetBounds(System.Int32, System.Int32, System.Int32, System.Int32)
System.Windows.Forms.Control.SetBounds(System.Int32, System.Int32, System.Int32, System.Int32, System.Windows.Forms.BoundsSpecified)
System.Windows.Forms.Control.SizeFromClientSize(System.Drawing.Size)
System.Windows.Forms.Control.SetStyle(System.Windows.Forms.ControlStyles, System.Boolean)
System.Windows.Forms.Control.SetTopLevel(System.Boolean)
System.Windows.Forms.Control.RtlTranslateAlignment(System.Windows.Forms.HorizontalAlignment)
System.Windows.Forms.Control.RtlTranslateAlignment(System.Windows.Forms.LeftRightAlignment)
System.Windows.Forms.Control.RtlTranslateAlignment(System.Drawing.ContentAlignment)
System.Windows.Forms.Control.RtlTranslateHorizontal(System.Windows.Forms.HorizontalAlignment)
System.Windows.Forms.Control.RtlTranslateLeftRight(System.Windows.Forms.LeftRightAlignment)
System.Windows.Forms.Control.RtlTranslateContent(System.Drawing.ContentAlignment)
System.Windows.Forms.Control.Show()
System.Windows.Forms.Control.SuspendLayout()
System.Windows.Forms.Control.Update()
System.Windows.Forms.Control.UpdateBounds()
System.Windows.Forms.Control.UpdateBounds(System.Int32, System.Int32, System.Int32, System.Int32)
System.Windows.Forms.Control.UpdateBounds(System.Int32, System.Int32, System.Int32, System.Int32, System.Int32, System.Int32)
System.Windows.Forms.Control.UpdateZOrder()
System.Windows.Forms.Control.UpdateStyles()
System.Windows.Forms.Control.System.Windows.Forms.IDropTarget.OnDragEnter(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.System.Windows.Forms.IDropTarget.OnDragOver(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.System.Windows.Forms.IDropTarget.OnDragLeave(System.EventArgs)
System.Windows.Forms.Control.System.Windows.Forms.IDropTarget.OnDragDrop(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.OnImeModeChanged(System.EventArgs)
System.Windows.Forms.Control.AccessibilityObject
System.Windows.Forms.Control.AccessibleDefaultActionDescription
System.Windows.Forms.Control.AccessibleDescription
System.Windows.Forms.Control.AccessibleName
System.Windows.Forms.Control.AccessibleRole
System.Windows.Forms.Control.AllowDrop
System.Windows.Forms.Control.Anchor
System.Windows.Forms.Control.AutoScrollOffset
System.Windows.Forms.Control.LayoutEngine
System.Windows.Forms.Control.BackgroundImage
System.Windows.Forms.Control.BackgroundImageLayout
System.Windows.Forms.Control.Bottom
System.Windows.Forms.Control.Bounds
System.Windows.Forms.Control.CanFocus
System.Windows.Forms.Control.CanRaiseEvents

System.Windows.Forms.Control.CanSelect
System.Windows.Forms.Control.Capture
System.Windows.Forms.Control.CausesValidation
System.Windows.Forms.Control.CheckForIllegalCrossThreadCalls
System.Windows.Forms.Control.ClientRectangle
System.Windows.Forms.Control.CompanyName
System.Windows.Forms.Control.ContainsFocus
System.Windows.Forms.Control.ContextMenu
System.Windows.Forms.Control.ContextMenuStrip
System.Windows.Forms.Control.Controls
System.Windows.Forms.Control.Created
System.Windows.Forms.Control.Cursor
System.Windows.Forms.Control.DataBindings
System.Windows.Forms.Control.DefaultBackColor
System.Windows.Forms.Control.DefaultCursor
System.Windows.Forms.Control.DefaultFont
System.Windows.Forms.Control.DefaultForeColor
System.Windows.Forms.Control.DefaultMargin
System.Windows.Forms.Control.DefaultMaximumSize
System.Windows.Forms.Control.DefaultMinimumSize
System.Windows.Forms.Control.DefaultPadding
System.Windows.Forms.Control.IsDisposed
System.Windows.Forms.Control.Disposing
System.Windows.Forms.Control.Dock
System.Windows.Forms.Control.DoubleBuffered
System.Windows.Forms.Control.Enabled
System.Windows.Forms.Control.Focused
System.Windows.Forms.Control.Font
System.Windows.Forms.Control.FontHeight
System.Windows.Forms.Control.ForeColor
System.Windows.Forms.Control.Handle
System.Windows.Forms.Control.HasChildren
System.Windows.Forms.Control.Height
System.Windows.Forms.Control.IsHandleCreated
System.Windows.Forms.Control.InvokeRequired
System.Windows.Forms.Control.IsAccessible
System.Windows.Forms.Control.IsMirrored
System.Windows.Forms.Control.Left
System.Windows.Forms.Control.Margin
System.Windows.Forms.Control.ModifierKeys
System.Windows.Forms.Control.MouseButtons
System.Windows.Forms.Control.MousePosition
System.Windows.Forms.Control.Name
System.Windows.Forms.Control.Parent
System.Windows.Forms.Control.ProductName
System.Windows.Forms.Control.ProductVersion
System.Windows.Forms.Control.RecreatingHandle
System.Windows.Forms.Control.Region
System.Windows.Forms.Control.RenderRightToLeft
System.Windows.Forms.Control.ResizeRedraw
System.Windows.Forms.Control.Right
System.Windows.Forms.Control.RightToLeft
System.Windows.Forms.Control.ScaleChildren
System.Windows.Forms.Control.Site

System.Windows.Forms.Control.TabIndex
System.Windows.Forms.Control.TabStop
System.Windows.Forms.Control.Tag
System.Windows.Forms.Control.Top
System.Windows.Forms.Control.TopLevelControl
System.Windows.Forms.Control.ShowKeyboardCues
System.Windows.Forms.Control.ShowFocusCues
System.Windows.Forms.Control.UseWaitCursor
System.Windows.Forms.Control.Visible
System.Windows.Forms.Control.Width
System.Windows.Forms.Control.PreferredSize
System.Windows.Forms.Control.Padding
System.Windows.Forms.Control.ImeMode
System.Windows.Forms.Control.ImeModeBase
System.Windows.Forms.Control.PropagatingImeMode
System.Windows.Forms.Control.BackColorChanged
System.Windows.Forms.Control.BackgroundImageChanged
System.Windows.Forms.Control.BackgroundImageLayoutChanged
System.Windows.Forms.Control.BindingContextChanged
System.Windows.Forms.Control.CausesValidationChanged
System.Windows.Forms.Control.ClientSizeChanged
System.Windows.Forms.Control.ContextMenuChanged
System.Windows.Forms.Control.ContextMenuStripChanged
System.Windows.Forms.Control.CursorChanged
System.Windows.Forms.Control.DockChanged
System.Windows.Forms.Control.EnabledChanged
System.Windows.Forms.Control.FontChanged
System.Windows.Forms.Control.ForeColorChanged
System.Windows.Forms.Control.LocationChanged
System.Windows.Forms.Control.MarginChanged
System.Windows.Forms.Control.RegionChanged
System.Windows.Forms.Control.RightToLeftChanged
System.Windows.Forms.Control.SizeChanged
System.Windows.Forms.Control.TabIndexChanged
System.Windows.Forms.Control.TabStopChanged
System.Windows.Forms.Control.TextChanged
System.Windows.Forms.Control.VisibleChanged
System.Windows.Forms.Control.Click
System.Windows.Forms.Control.ControlAdded
System.Windows.Forms.Control.ControlRemoved
System.Windows.Forms.Control.DragDrop
System.Windows.Forms.Control.DragEnter
System.Windows.Forms.Control.DragOver
System.Windows.Forms.Control.DragLeave
System.Windows.Forms.Control.GiveFeedback
System.Windows.Forms.Control.HandleCreated
System.Windows.Forms.Control.HandleDestroyed
System.Windows.Forms.Control.HelpRequested
System.Windows.Forms.Control.Invalidated
System.Windows.Forms.Control.PaddingChanged
System.Windows.Forms.Control.Paint
System.Windows.Forms.Control.QueryContinueDrag
System.Windows.Forms.Control.QueryAccessibilityHelp
System.Windows.Forms.Control.DoubleClick

System.Windows.Forms.Control.Enter
System.Windows.Forms.Control.GotFocus
System.Windows.Forms.Control.KeyDown
System.Windows.Forms.Control.KeyPress
System.Windows.Forms.Control.KeyUp
System.Windows.Forms.Control.Layout
System.Windows.Forms.Control.Leave
System.Windows.Forms.Control.LostFocus
System.Windows.Forms.Control.MouseClick
System.Windows.Forms.Control.MouseDoubleClick
System.Windows.Forms.Control.MouseCaptureChanged
System.Windows.Forms.Control.MouseDown
System.Windows.Forms.Control.MouseEnter
System.Windows.Forms.Control.MouseLeave
System.Windows.Forms.Control.MouseHover
System.Windows.Forms.Control.MouseMove
System.Windows.Forms.Control.MouseUp
System.Windows.Forms.Control.MouseWheel
System.Windows.Forms.Control.Move
System.Windows.Forms.Control.PreviewKeyDown
System.Windows.Forms.Control.Resize
System.Windows.Forms.Control.ChangeUICues
System.Windows.Forms.Control.StyleChanged
System.Windows.Forms.Control.SystemColorsChanged
System.Windows.Forms.Control.Validating
System.Windows.Forms.Control.Validated
System.Windows.Forms.Control.ParentChanged
System.Windows.Forms.Control.ImeModeChanged
System.ComponentModel.Component.Dispose()
System.ComponentModel.Component.GetService(System.Type)
System.ComponentModel.Component.Events
System.ComponentModel.Component.Container
System.ComponentModel.Component.DesignMode
System.ComponentModel.Component.Disposed
System.MarshalByRefObject.MemberwiseClone(System.Boolean)
System.MarshalByRefObject.GetLifetimeService()
System.MarshalByRefObject.InitializeLifetimeService()
System.MarshalByRefObject.CreateObjRef(System.Type)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class ErrorDialog : Form, IDropTarget, ISynchronizeInvoke, IWin32Window, IBindableComponent, IComponent, IDisposable, IContainerControl
```

Constructors

ErrorDialog(MesBase, String, String, String, String, Boolean)

Displays an error message to user

Declaration

```
public ErrorDialog(MesBase apiRef, string cultureCode, string Caption, string Header, string Message, bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
MesBase	apiRef	
System.String	cultureCode	
System.String	Caption	
System.String	Header	
System.String	Message	
System.Boolean	AlwaysOnTop	

Properties

Caption

Dialog caption

Declaration

```
public string Caption { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Header

Dialog header

Declaration

```
public string Header { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Message

Dialog message

Declaration

```
public string Message { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

Dispose(Boolean)

Clean up any resources being used.

Declaration

```
protected override void Dispose(bool disposing)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	disposing	true if managed resources should be disposed; otherwise, false.

Overrides

System.Windows.Forms.Form.Dispose(System.Boolean)

Implements

- System.Windows.Forms.IDropTarget
- System.ComponentModel.ISynchronizeInvoke
- System.Windows.Forms.IWin32Window
- System.Windows.Forms.IBindableComponent
- System.ComponentModel.IComponent
- System.IDisposable
- System.Windows.Forms.IContainerControl

Class MesBase

Base class for use in Production, Product, Software, Equipment and Asset...

Inheritance

- System.Object
- MesBase
- AssetHandler
- Product
- Production
- Software
- Workflow

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class MesBase
```

Constructors

MesBase()

Base constructor

Declaration

```
public MesBase()
```

MesBase(String)

Constructor with culture

Declaration

```
public MesBase(string CultureCode)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	

Fields

adminToken

Declaration

```
protected string adminToken
```

Field Value

TYPE	DESCRIPTION
System.String	

Properties

CultureCode

Language code

Declaration

```
public string CultureCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LastException

Property to retrieve the last Exception thrown

Declaration

```
public Exception LastException { get; }
```

Property Value

TYPE	DESCRIPTION
System.Exception	

LogExceptions

Property to set if any Exception should be written to eventlog

Declaration

```
public bool LogExceptions { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Operator

Property to set the operator for the session

Declaration

```
public string Operator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RethrowException

Property to set if any Exception should be thrown

Declaration

```
public bool RethrowException { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Methods

DisplayMesTestGUI()

GUI for simple MES connectivity testing

Declaration

```
public void DisplayMesTestGUI()
```

GetCommonUserSettings(String)

Gets user settings

Declaration

```
public CommonUserSettings GetCommonUserSettings(string UserName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	UserName	

Returns

TYPE	DESCRIPTION
CommonUserSettings	

GetGeneralOptionBool(String)

General bool option

Declaration

```
public bool GetGeneralOptionBool(string key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	

Returns

TYPE	DESCRIPTION
System.Boolean	

GetGeneralOptionInt(String)

Declaration

```
public int GetGeneralOptionInt(string key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	

Returns

TYPE	DESCRIPTION
System.Int32	

GetGeneralOptionString(String)

General string option

Declaration

```
public string GetGeneralOptionString(string key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	

Returns

TYPE	DESCRIPTION
System.String	

GetMesServerSettings(out String[], out Boolean[], out Int32[], String[], String[], String[])

Gets MES Server settings

Declaration

```
public void GetMesServerSettings(out string[] stringValues, out bool[] boolValues, out int[] numberValues,
string[] stringKeys = null, string[] boolKeys = null, string[] numberKeys = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	stringValues	
System.Boolean[]	boolValues	
System.Int32[]	numberValues	
System.String[]	stringKeys	
System.String[]	boolKeys	
System.String[]	numberKeys	

GetProcesses(Boolean, Boolean, Boolean)

Get Processes. By default will only test operations be returned

Declaration

```
public Process[] GetProcesses(bool IsTestOperation = true, bool IsRepairOperation = false, bool IsWIPOperation = false)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	IsTestOperation	return processes marked as test operation
System.Boolean	IsRepairOperation	return processes marked as repair operation
System.Boolean	IsWIPOperation	return processes marked as WIP operation

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Process[]	

GetStorageValue(String)

Get string value stored with a given key (KeyValue pair)

Declaration

```
public string GetStorageValue(string key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	KeyValue.KEY

Returns

TYPE	DESCRIPTION
System.String	string value stored with the Key

GetStorageXml(String)

Get XML stored with a given key (KeyValue pair)

Declaration

<pre>public string GetStorageXml(string key)</pre>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	

Returns

TYPE	DESCRIPTION
System.String	XML value stored with the Key

isConnected()

Returns true if connection to server is ok. TODO: Also check database on server

Declaration

<pre>public bool isConnected()</pre>

Returns

TYPE	DESCRIPTION
System.Boolean	

PutStorageData(String, String, String)

Add string and or XML data (xml datatype) to a given key

Declaration

<pre>public bool PutStorageData(string key, string value, string xml)</pre>

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	KeyValue.KEY
System.String	value	KeyValue.stringvalue

TYPE	NAME	DESCRIPTION
System.String	xml	KeyValue.xmldata

Returns

TYPE	DESCRIPTION
System.Boolean	

RemoveStorageData(String)

Remove KeyValue with a given Key

Declaration

```
public bool RemoveStorageData(string key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	KeyValue.KEY

Returns

TYPE	DESCRIPTION
System.Boolean	

RESTDeleteJson<responseType>(String, Object, Boolean)

Perform WATS REST DELETE call to WATS

Declaration

```
public responseType RESTDeleteJson<responseType>(string query, object obj = null, bool useAdminCredentials = false)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	query	See swagger doc
System.Object	obj	See swagger doc
System.Boolean	useAdminCredentials	Uses administrative credentials set by SetAdminCredentials(String, String)

Returns

TYPE	DESCRIPTION
responseType	

Type Parameters

NAME	DESCRIPTION
responseType	See swagger doc

RESTGetJson<responseType>(String, Boolean)

Perform WATS REST GET call to WATS

Declaration

```
public responseType RESTGetJson<responseType>(string query, bool useAdminCredentials = false)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	query	See swagger doc
System.Boolean	useAdminCredentials	Uses administrative credentials set by SetAdminCredentials(String, String)

Returns

TYPE	DESCRIPTION
responseType	

Type Parameters

NAME	DESCRIPTION
responseType	See swagger doc

RESTPostJson<responseType>(String, Object, Boolean)

Perform WATS REST GET call to WATS

Declaration

```
public responseType RESTPostJson<responseType>(string query, object obj, bool useAdminCredentials = false)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	query	See swagger doc

TYPE	NAME	DESCRIPTION
System.Object	obj	See swagger doc
System.Boolean	useAdminCredentials	Uses administrative credentials set by SetAdminCredentials(String, String)

Returns

TYPE	DESCRIPTION
responseType	

Type Parameters

NAME	DESCRIPTION
responseType	See swagger doc

RESTPutJson<responseType>(String, Object, Boolean)

Perform WATS REST GET call to WATS

Declaration

```
public responseType RESTPutJson<responseType>(string query, object obj = null, bool useAdminCredentials = false)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	query	See swagger doc
System.Object	obj	See swagger doc
System.Boolean	useAdminCredentials	Uses administrative credentials set by SetAdminCredentials(String, String)

Returns

TYPE	DESCRIPTION
responseType	

Type Parameters

NAME	DESCRIPTION
responseType	See swagger doc

SetAdminCredentials(String, String)

Allow to use alternative credentials when calling "administrative functions"

Declaration

```
public void SetAdminCredentials(string userName, string password)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	userName	
System.String	password	

StartTraceToEventLog()

Starts to collect trace information to eventlog (API debug purpose)

Declaration

```
public void StartTraceToEventLog()
```

StopTraceToEventLog()

Stop trace information to eventlog (stop API debug)

Declaration

```
public void StopTraceToEventLog()
```

TranslateArray(String, String[])

Translates an array of english texts

Declaration

```
public string[] TranslateArray(string CultureCode, string[] englishText)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	
System.String[]	englishText	

Returns

TYPE	DESCRIPTION
System.String[]	

TranslateArray(String[])

Define language in CultureCode property

Declaration

```
public string[] TranslateArray(string[] englishText)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	englishText	

Returns

TYPE	DESCRIPTION
System.String[]	

TranslateString(String, Object[])

Define language in CultureCode property

Declaration

```
public string TranslateString(string EnglishText, object[] arguments)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	EnglishText	
System.Object[]	arguments	

Returns

TYPE	DESCRIPTION
System.String	

TranslateString(String, String, Object[])

Translates english to language given by Culture

Declaration

```
public string TranslateString(string Culture, string EnglishText, object[] arguments)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Culture	
System.String	EnglishText	
System.Object[]	arguments	

Returns

TYPE	DESCRIPTION
System.String	

Class MesInterface

Holding references to all MES components.

Inheritance

System.Object
MesInterface

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class MesInterface
```

Properties

Asset

Gets the MES Asset module

Declaration

```
public AssetHandler Asset { get; }
```

Property Value

TYPE	DESCRIPTION
AssetHandler	

DefaultCultureCode

Default culture code to use. If not specified, en is used.

Declaration

```
public string DefaultCultureCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Product

Gets the MES Product module.

Declaration

```
public Product Product { get; }
```


Property Value

TYPE	DESCRIPTION
Product	

Production

Gets the MES Production module.

Declaration

```
public Production Production { get; }
```

Property Value

TYPE	DESCRIPTION
Production	

Software

Gets the MES Software module

Declaration

```
public Software Software { get; }
```

Property Value

TYPE	DESCRIPTION
Software	

Workflow

Gets the MES Workflow module

Declaration

```
public Workflow Workflow { get; }
```

Property Value

TYPE	DESCRIPTION
Workflow	

Namespace Virinco.WATS.Interface.MES.Asset

Classes

[Asset](#)

Class that represent an asset. An asset is normally a device used in testing that can be controlled for service maintenance, running count etc.

[AssetHandler](#)

Class that contains functions for Asset handling.

[AssetResponse](#)

Common response class for Asset calls

[AssetStatus](#)

Common status class for Asset calls

[AssetType](#)

Common AssetType Class

Enums

[Asset_Status](#)

Enum for Asset status

[State](#)

Enum for Asset states

Class Asset

Class that represent an asset. An asset is normally a device used in testing that can be controlled for service maintenance, running count etc.

Inheritance

System.Object
Asset

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Asset](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class Asset
```

Fields

AssetStatus

AssetStatus object.

Declaration

```
public AssetStatus AssetStatus
```

Field Value

TYPE	DESCRIPTION
AssetStatus	

Properties

AssetId

Unique asset Id

Declaration

```
public string AssetId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

AssetName

Alternate name of asset

Declaration

```
public string AssetName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

AssetType

Type of Asset

Declaration

```
public AssetType AssetType { get; set; }
```

Property Value

TYPE	DESCRIPTION
AssetType	

Description

Asset description

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirstSeenDate

TimeStamp for when the asset was created.

Declaration

```
public DateTime FirstSeenDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

LastCalibrationDate

Timestamp for when the Asset was last calibrated

Declaration

```
public DateTime? LastCalibrationDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.DateTime>	

LastMaintenanceDate

Timestamp for when the Asset was last maintained

Declaration

```
public DateTime? LastMaintenanceDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.DateTime>	

LastSeenDate

Timestamp for when the Asset was last seen/used.

Declaration

```
public DateTime? LastSeenDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.DateTime>	

Location

Asset location

Declaration

```
public string Location { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ParentAssetId

Identity for an assets parent. Can be null

Declaration

```
public string ParentAssetId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ParentSerialNumber

Serial number for an assets parent. Can be null

Declaration

```
public string ParentSerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartNumber

Asset part number

Declaration

```
public string PartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Revision

Asset part revision

Declaration

```
public string Revision { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunningCount

Running count for an instrument between each calibration.

Declaration

```
public int RunningCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

SerialNumber

Unique serial number

Declaration

```
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

State

Asset states

Declaration

```
public State State { get; set; }
```

Property Value

TYPE	DESCRIPTION
State	

Tags

List of asset tags and their values

Declaration

```
public List<KeyValuePair<string, string>> Tags { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.Collections.Generic.KeyValuePair<System.String, System.String>>	

TotalCount

Total asset usage

Declaration

```
public int TotalCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

TypeId

Id of asset type

Declaration

```
public Guid TypeId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Methods

SetTagsArray()

Declaration

```
protected void SetTagsArray()
```

ToString()

ToString that contains serial number, parent serial number, name, partNumber and state for an asset.

Declaration

```
public string ToString()
```

Returns

TYPE	DESCRIPTION
System.String	

UpdateTags()

Declaration

```
protected void UpdateTags()
```


Enum Asset_Status

Enum for Asset status

Namespace: [Virinco.WATS.Interface.MES.Asset](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public enum Asset_Status
```

Fields

NAME	DESCRIPTION
Alarm	
AssetError	
NotRegistered	
OK	
SystemError	
Warning	

Class AssetHandler

Class that contains functions for Asset handling.

Inheritance

System.Object

MesBase

AssetHandler

Inherited Members

MesBase.adminToken

MesBase.SetAdminCredentials(String, String)

MesBase.RESTGetJson<responseType>(String, Boolean)

MesBase.RESTPostJson<responseType>(String, Object, Boolean)

MesBase.RESTPutJson<responseType>(String, Object, Boolean)

MesBase.RESTDeleteJson<responseType>(String, Object, Boolean)

MesBase.CultureCode

MesBase.TranslateString(String, String, Object[])

MesBase.TranslateString(String, Object[])

MesBase.TranslateArray(String[])

MesBase.TranslateArray(String, String[])

MesBase.GetProcesses(Boolean, Boolean, Boolean)

MesBase.GetMesServerSettings(String[], Boolean[], Int32[], String[], String[], String[])

MesBase.GetCommonUserSettings(String)

MesBase.GetGeneralOptionString(String)

MesBase.GetGeneralOptionBool(String)

MesBase.GetGeneralOptionInt(String)

MesBase.DisplayMesTestGUI()

MesBase.GetStorageXml(String)

MesBase.GetStorageValue(String)

MesBase.PutStorageData(String, String, String)

MesBase.RemoveStorageData(String)

MesBase.RethrowException

MesBase.LastException

MesBase.LogExceptions

MesBase.Operator

MesBase.StartTraceToEventLog()

MesBase.StopTraceToEventLog()

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Asset](#)

Assembly: [Virinco.WATS.Interface.MES.dll](#)

Syntax

```
public class AssetHandler : MesBase
```

Methods

Calibration(String, DateTime, String)

Register calibration to the specified asset.

Declaration

```
public AssetResponse Calibration(string serialNumber, DateTime dateTime, string comment)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Calibration asset's serial number.
System.DateTime	dateTime	Sets the LastCalibrationDate to the specified date and time.
System.String	comment	Asset log comment.

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object (with the calibrated asset)

Calibration(String, Nullable<DateTime>, String)

Register calibration to the specified asset.

Declaration

```
public AssetResponse Calibration(string serialNumber, DateTime? dateTime = null, string comment = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Calibration asset's serial number.
System.Nullable<System.DateTime>	dateTime	If specified, sets the LastCalibrationDate to the specified date and time. Default = null (today).
System.String	comment	Asset log comment.

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object (with the calibrated asset).

CreateAsset(String, String, String, String, String)

Creates an Asset of specified type.

Declaration

```
public AssetResponse CreateAsset(string serialNumber, string assetType, string parentAssetSerialNumber = null,
string assetName = null, string assetDescription = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Asset serial number
System.String	assetType	Asset type
System.String	parentAssetSerialNumber	Optional. Serial number of the parent asset. If blank, the new asset will have no parent
System.String	assetName	Optional. Asset name
System.String	assetDescription	Optional Asset description

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object

CreateAssetType(String, Nullable<Decimal>, Nullable<Decimal>, Nullable<Int32>, Nullable<Int32>, Nullable<Decimal>, Nullable<Decimal>)

Declaration

```
public AssetResponse CreateAssetType(string name, decimal? calibrationInterval = null, decimal?
maintenanceInterval = null, int? runningCountLimit = null, int? totalCountLimit = null, decimal?
warningThreshold = null, decimal? alarmTreshold = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	name	
System.Nullable<System.Decimal>	calibrationInterval	
System.Nullable<System.Decimal>	maintenanceInterval	
System.Nullable<System.Int32>	runningCountLimit	
System.Nullable<System.Int32>	totalCountLimit	

TYPE	NAME	DESCRIPTION
System.Nullable<System.Decimal>	warningThreshold	
System.Nullable<System.Decimal>	alarmTreshold	

Returns

TYPE	DESCRIPTION
AssetResponse	

DeleteAsset(String)

Deletes the specified asset. Sub-assets will be updated to no longer contain have a parent. Client must have admin credentials to delete an asset.

Declaration

```
public AssetResponse DeleteAsset(string serialNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Delete asset serial number

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object

GetAsset(String)

Fetches a specific asset.

Declaration

```
public AssetResponse GetAsset(string serialNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Asset serial number

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object

GetAssets(String)

Fetches all assets, filtered by a specified OData (REST) filter.

Declaration

```
public AssetResponse GetAssets(string filter)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	filter	OData filter (syntax example: (\$"startswith(serialNumber,'{Prefix}')"). NB! Uses camel casing.

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object with filtered assets in SubAssets property

GetAssetsByTag(String)

Fetches all assets, filtered by tag.

Declaration

```
public AssetResponse GetAssetsByTag(string tag)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tag	Name of tag.

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object with filtered assets in SubAssets property

GetSubAssets(String)

Fetches all sub assets of a parent asset.

Declaration

```
public AssetResponse GetSubAssets(string serialNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Parent asset serial number

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object (with sub-assets)

GetSubAssets(String, Int32)

Fetches sub assets of a parent asset down to and including level.

Declaration

<code>public AssetResponse GetSubAssets(string serialNumber, int level)</code>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Parent asset serial number
System.Int32	level	How many sub assets of sub assets to get. 0 to get all, 1 to get direct children only.

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object (with sub-assets)

IncrementAssetUsageCount(String, Int32, Boolean)

Increment an asset's usage count by default (1) or specified int value.

Declaration

<code>public AssetResponse IncrementAssetUsageCount(string serialNumber, int usageCount = 1, bool incrementSubAssets = false)</code>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Asset serial number
System.Int32	usageCount	Value of usage count increment (default 1)
System.Boolean	incrementSubAssets	Boolean with default=false. Set to true if you want to increment the asset's sub-assets.

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object (with the incremented asset)

isConnected()

True if connected to server.

Declaration

<code>public bool isConnected()</code>
--

Returns

TYPE	DESCRIPTION
System.Boolean	

Maintenance(String, DateTime, String)

Register maintenance to the specified asset.

Declaration

<code>public AssetResponse Maintenance(string serialNumber, DateTime dateTime, string comment)</code>

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Maintenance asset serialNumber
System.DateTime	dateTime	Sets the LastMaintenanceDate to the specified date and time.
System.String	comment	Asset log comment

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse Object (with the maintenanced asset)

Maintenance(String, Nullable<DateTime>, String)

Register maintenance to the specified asset.

Declaration

<code>public AssetResponse Maintenance(string serialNumber, DateTime? dateTime = null, string comment = null)</code>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Maintenance asset serialNumber.
System.Nullable<System.DateTime>	dateTime	If specified, sets the LastMaintenanceDate to the specified date and time. Default = null (today).
System.String	comment	Asset log comment.

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse Object (with the maintained asset).

ResetRunningCount(String, String)

Reset running count to 0.

Declaration

```
public AssetResponse ResetRunningCount(string serialNumber, string comment = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Maintenance asset serialNumber
System.String	comment	Asset log comment

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse Object (with the reset asset)

SetParent(String, String)

Sets, updates or remove an asset's parent.

Declaration

```
public AssetResponse SetParent(string serialNumber, string parentSerialNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Asset serial number for the asset whose parent will be set.
System.String	parentSerialNumber	New parent serialNumber for the asset (can be null).

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object (with the asset's parent serial number set)

UpdateAsset(Asset)

Updates asset object changes.

Declaration

```
public AssetResponse UpdateAsset(Asset asset)
```

Parameters

TYPE	NAME	DESCRIPTION
Asset	asset	Asset object to be updated

Returns

TYPE	DESCRIPTION
AssetResponse	AssetResponse object

Class AssetResponse

Common response class for Asset calls

Inheritance

System.Object
AssetResponse

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Asset](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class AssetResponse
```

Properties

AssetObject

Read-write instance property for an Asset Object (Get/Set)

Declaration

```
public Asset AssetObject { get; set; }
```

Property Value

TYPE	DESCRIPTION
Asset	

Description

Returns a AssetStatus message

Declaration

```
public string Description { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ErrorMessage

Error-message for the AssetResponse.

Declaration

```
public string ErrorMessage { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Ok

Boolean 'status' for allowing use of an asset

Declaration

<pre>public bool Ok { get; set; }</pre>

Property Value

TYPE	DESCRIPTION
System.Boolean	

Status

Asset_Status for an Asset

Declaration

<pre>public Asset_Status Status { get; }</pre>
--

Property Value

TYPE	DESCRIPTION
Asset_Status	

SubAssets

Read-write instance property for an array of SubAsset Object (Get/Set)

Declaration

<pre>public Asset[] SubAssets { get; set; }</pre>

Property Value

TYPE	DESCRIPTION
Asset []	

Class AssetStatus

Common status class for Asset calls

Inheritance

System.Object
AssetStatus

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Asset](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class AssetStatus
```

Properties

CalibrationDaysOverdue

Number of days overdue for a scheduled asset calibration.

Declaration

```
public decimal CalibrationDaysOverdue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

MaintenanceDaysOverdue

Nnumber of days overdue for scheduled asset maintenance.

Declaration

```
public decimal MaintenanceDaysOverdue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Message

Read-write instance property for an AssetStatus message.

Declaration

```
public string Message { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunningCount

Number of uses since last calibration

Declaration

```
public int RunningCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

RunningCountExceeded

Number of uses since last calibration, with exceeded limit.

Declaration

```
public int RunningCountExceeded { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Status

Read-write instance property for an Asset_Status enum type

Declaration

```
public Asset_Status Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
Asset_Status	

TotalCount

Asset's Total usage count. Set property only allows higher values than already stored.

Declaration

```
public int TotalCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

TotalCountExceeded

Total count has exceeded it's limit.

Declaration

```
public int TotalCountExceeded { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Class AssetType

Common AssetType Class

Inheritance

System.Object
AssetType

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Asset](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class AssetType
```

Properties

AlarmThreshold

Alarm threshold percent

Declaration

```
public decimal? AlarmThreshold { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

CalibrationInterval

Interval for calibration (in days e.g 1.0 or 1.5)

Declaration

```
public decimal? CalibrationInterval { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

MaintenanceInterval

Interval for maintenance (in days e.g 1.0 or 1.5)

Declaration

```
public decimal? MaintenanceInterval { get; set; }
```


Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

RunningCountLimit

Max count until next calibration must be performed (interval)

Declaration

public int? RunningCountLimit { get; set; }

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

TotalCountLimit

Asset total count limit

Declaration

public int? TotalCountLimit { get; set; }

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

TypeId

AssetType identity

Declaration

public Guid TypeId { get; set; }

Property Value

TYPE	DESCRIPTION
System.Guid	

TypeName

AssetType name

Declaration

public string TypeName { get; set; }

Property Value

TYPE	DESCRIPTION
System.String	

WarningThreshold

Warning threshold percent

Declaration

```
public decimal? WarningThreshold { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Decimal>	

Enum State

Enum for Asset states

Namespace: [Virinco.WATS.Interface.MES.Asset](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public enum State : byte
```

Fields

NAME	DESCRIPTION
InCalibration	
InMaintenance	
InOperation	
InStorage	
InTransit	
Scrapped	
Unknown	

Namespace Virinco.WATS.Interface.MES.Product

Classes

[KeyValue](#)

[Product](#)

Class to handle product info

[ProductInfo](#)

Holds information about a product. Part Number, Name and child/parent relations.

[ProductInfoJson](#)

Class KeyValue

Inheritance

System.Object
KeyValue

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Product](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class KeyValue
```

Properties

key

Declaration

```
public string key { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

value

Declaration

```
public string value { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Product

Class to handle product info

Inheritance

System.Object

MesBase

Product

Inherited Members

- MesBase.adminToken
- MesBase.SetAdminCredentials(String, String)
- MesBase.RESTGetJson<responseType>(String, Boolean)
- MesBase.RESTPostJson<responseType>(String, Object, Boolean)
- MesBase.RESTPutJson<responseType>(String, Object, Boolean)
- MesBase.RESTDeleteJson<responseType>(String, Object, Boolean)
- MesBase.CultureCode
- MesBase.TranslateString(String, String, Object[])
- MesBase.TranslateString(String, Object[])
- MesBase.TranslateArray(String[])
- MesBase.TranslateArray(String, String[])
- MesBase.GetProcesses(Boolean, Boolean, Boolean)
- MesBase.GetMesServerSettings(String[], Boolean[], Int32[], String[], String[], String[])
- MesBase.GetCommonUserSettings(String)
- MesBase.GetGeneralOptionString(String)
- MesBase.GetGeneralOptionBool(String)
- MesBase.GetGeneralOptionInt(String)
- MesBase.DisplayMesTestGUI()
- MesBase.GetStorageXml(String)
- MesBase.GetStorageValue(String)
- MesBase.PutStorageData(String, String, String)
- MesBase.RemoveStorageData(String)
- MesBase.RethrowException
- MesBase.LastException
- MesBase.LogExceptions
- MesBase.Operator
- MesBase.StartTraceToEventLog()
- MesBase.StopTraceToEventLog()
- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Product](#)

Assembly: [Virinco.WATS.Interface.MES.dll](#)

Syntax

```
public class Product : MesBase
```

Fields

LastScannedPartnumber

Holds information about the last scanned partnumber

Declaration

```
public string LastScannedPartnumber
```

Field Value

TYPE	DESCRIPTION
System.String	

Methods

DeserializeFromStream(Stream)

Declaration

```
public static object DeserializeFromStream(Stream stream)
```

Parameters

TYPE	NAME	DESCRIPTION
System.IO.Stream	stream	

Returns

TYPE	DESCRIPTION
System.Object	

GetProduct(String, Int32, Boolean, Boolean)

Get products and revisions with a PartNumber containing filter

Declaration

```
public Product[] GetProduct(string filter, int topCount, bool includeNonSerial, bool includeRevision)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	filter	PartNumbers containing this value are returned (* and % are removed)
System.Int32	topCount	Max products to return
System.Boolean	includeNonSerial	Boolean value to include nonSerial product or not
System.Boolean	includeRevision	Include Revision object on matching objects

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Product[]	

GetProductInfo(String, String)

Return [ProductInfo](#) object

Declaration

```
public ProductInfo GetProductInfo(string partNumber, string revision = "")
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	partNumber	Part Number to search
System.String	revision	Revision

Returns

TYPE	DESCRIPTION
ProductInfo	A ProductInfo object with info about the PN supplied.

IdentifyProduct(String, Int32, Boolean, Boolean, Boolean, out String, out String, out String, out Process, out Boolean, String, Boolean)

Identify Product with a popup GUI

Declaration

```
public void IdentifyProduct(string Filter, int TopCount, bool FreePartnumber, bool IncludeRevision, bool IncludeSerialNumber, out string SelectedSerialNumber, out string SelectedPartNumber, out string SelectedRevision, out Process SelectedTestOperation, out bool Continue, string CustomText = "", bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Filter	Filter down the products available in dropdown
System.Int32	TopCount	Max count of products in the dropdown
System.Boolean	FreePartnumber	If PartNumber MUST be selected from the dropdown or not
System.Boolean	IncludeRevision	If Revision should be selected or not

TYPE	NAME	DESCRIPTION
System.Boolean	IncludeSerialNumber	If SerialNumber should be included or not
System.String	SelectedSerialNumber	
System.String	SelectedPartNumber	
System.String	SelectedRevision	
Virinco.WATS.Service.MES.Contract.Process	SelectedTestOperation	
System.Boolean	Continue	Stopped or Continue execution
System.String	CustomText	
System.Boolean	AlwaysOnTop	

isConnected()

True if connected to server

Declaration

```
public bool isConnected()
```

Returns

TYPE	DESCRIPTION
System.Boolean	

Class ProductInfo

Holds information about a product. Part Number, Name and child/parent relations.

Inheritance

System.Object
ProductInfo

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Product](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class ProductInfo
```

Constructors

ProductInfo(ProductInfoJson, List<ProductInfoJson>)

Declaration

```
public ProductInfo(ProductInfoJson pir, List<ProductInfoJson> pirl)
```

Parameters

TYPE	NAME	DESCRIPTION
ProductInfoJson	pir	
System.Collections.Generic.List< ProductInfoJson >	pirl	

Properties

Name

The product's Name

Declaration

```
public string Name { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartNumber

The product's Part Number

Declaration

```
public string PartNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Product_Data

Data attached to product. May be queried by [GetTagValue\(String, Int32\)](#)

Declaration

```
public string Product_Data { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProductCategory

The product's category

Declaration

```
public string ProductCategory { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProductDescription

The product's description

Declaration

```
public string ProductDescription { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Quantity

How many units like this Product Info object does the parent contain.

Declaration

```
public int? Quantity { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

Revision

The product's Revision

Declaration

```
public string Revision { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Revision_Data

Data attached to product revision. May be queried by [GetTagValue\(String, Int32\)](#)

Declaration

```
public string Revision_Data { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionDescription

The revision's description

Declaration

```
public string RevisionDescription { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionName

The product's Revision name

Declaration

```
public string RevisionName { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

GetChild(Int32)

Get Child [ProductInfo](#) object at index

Declaration

```
public ProductInfo GetChild(int index)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	index	

Returns

TYPE	DESCRIPTION
ProductInfo	

GetChildCount()

Get the number of child [ProductInfo](#) objects

Declaration

```
public int GetChildCount()
```

Returns

TYPE	DESCRIPTION
System.Int32	Number of child products or -1 of unknown

GetChildren()

Get Child [ProductInfo](#) objects

Declaration

```
public ProductInfo[] GetChildren()
```

Returns

TYPE	DESCRIPTION
ProductInfo []	

GetInfo(String)

Query Product XML data given a XPath

Declaration

```
public string GetInfo(string XPath)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	XPath	The XPath to query

Returns

TYPE	DESCRIPTION
System.String	XPath query result as string

GetParent()

Get parent [ProductInfo](#) object

Declaration

```
public ProductInfo GetParent()
```

Returns

TYPE	DESCRIPTION
ProductInfo	

GetTagValue(String, Int32)

Query data attached to product or revision.

Declaration

```
public string GetTagValue(string Tag, int Type)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Tag	Name of Tag
System.Int32	Type	Type of XML data (1=ProductData,2=RevisionData)

Returns

TYPE	DESCRIPTION
System.String	Tag value

HasParent()

Indicates if the product is a top level product

Declaration

```
public bool HasParent()
```

Returns

TYPE	DESCRIPTION
System.Boolean	Boolean value indicating if the product has any parent products.

Class ProductInfoJson

Inheritance

System.Object
ProductInfoJson

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Product](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class ProductInfoJson
```

Properties

Category

Declaration

```
public string Category { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

hlevel

Declaration

```
public int? hlevel { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

Name

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ParentProductRevisionId

Declaration

```
public Guid? ParentProductRevisionId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Guid>	

PartNumber

Declaration

```
public string PartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PathStr

Declaration

```
public string PathStr { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProductData

Declaration

```
public string ProductData { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProductDescription

Declaration

```
public string ProductDescription { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProductId

Declaration

```
public Guid ProductId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

ProductRevisionId

Declaration

```
public Guid ProductRevisionId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

ProductRevisionRelationId

Declaration

```
public Guid? ProductRevisionRelationId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Guid>	

ProductSettings

Declaration

```
public List<KeyValue> ProductSettings { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< KeyValue >	

Quantity

Declaration

```
public int Quantity { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Revision

Declaration

```
public string Revision { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionData

Declaration

```
public string RevisionData { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionDescription

Declaration

```
public string RevisionDescription { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionMask

Declaration

```
public string RevisionMask { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionName

Declaration

```
public string RevisionName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionSettings

Declaration

```
public List<KeyValue> RevisionSettings { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List<KeyValue>	

Namespace Virinco.WATS.Interface.MES.Production

Classes

[Production](#)

Class provided to handle unit info (on serialnumber/parnumber)

[SerialNumberHandler](#)

Interface to handle serialnumbers from WATS MES. Written by Ragnar Engnes, Virinco as - 2016

[SerialNumberType](#)

[TestProcessResult](#)

Unit results per process in verification rule.

[UnitHistory](#)

[UnitInfo](#)

UnitInfo object which holds information about a scanned unit. This object may be retrieved from MES Production interface.

[UnitReportHistoryDetails](#)

[UnitVerificationResponse](#)

Response from [GetUnitVerification\(String, String\)](#).

Enums

[SerialNumberHandler.RequestType](#)

Describes how the client retrieves serial numbers from server

[SerialNumberHandler.Status](#)

Serialnumber type status

[UnitInfo.DataType](#)

Type of XML data to query using [GetInfo\(String, UnitInfo.DataType\)](#)

Class Production

Class provided to handle unit info (on serialnumber/parnumber)

Inheritance

System.Object

[MesBase](#)

Production

Inherited Members

[MesBase.adminToken](#)

[MesBase.SetAdminCredentials\(String, String\)](#)

[MesBase.RESTGetJson<responseType>\(String, Boolean\)](#)

[MesBase.RESTPostJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.RESTPutJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.RESTDeleteJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.CultureCode](#)

[MesBase.TranslateString\(String, String, Object\[\]\)](#)

[MesBase.TranslateString\(String, Object\[\]\)](#)

[MesBase.TranslateArray\(String\[\]\)](#)

[MesBase.TranslateArray\(String, String\[\]\)](#)

[MesBase.GetProcesses\(Boolean, Boolean, Boolean\)](#)

[MesBase.GetMesServerSettings\(String\[\], Boolean\[\], Int32\[\], String\[\], String\[\], String\[\]\)](#)

[MesBase.GetCommonUserSettings\(String\)](#)

[MesBase.GetGeneralOptionString\(String\)](#)

[MesBase.GetGeneralOptionBool\(String\)](#)

[MesBase.GetGeneralOptionInt\(String\)](#)

[MesBase.DisplayMesTestGUI\(\)](#)

[MesBase.GetStorageXml\(String\)](#)

[MesBase.GetStorageValue\(String\)](#)

[MesBase.PutStorageData\(String, String, String\)](#)

[MesBase.RemoveStorageData\(String\)](#)

[MesBase.RethrowException](#)

[MesBase.LastException](#)

[MesBase.LogExceptions](#)

[MesBase.Operator](#)

[MesBase.StartTraceToEventLog\(\)](#)

[MesBase.StopTraceToEventLog\(\)](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: [Virinco.WATS.Interface.MES.dll](#)

Syntax

```
public class Production : MesBase
```

Constructors

[Production\(\)](#)

Empty constructor

Declaration

```
public Production()
```

Production(String)

Constructor with Culture code

Declaration

```
public Production(string CultureCode)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	

Fields

DisplayTreeView

If [IdentifyUUT\(out Boolean, String\)](#) is called and this is set to true, the Display TreeView checkbox is checked. If the checkbox is not checked, the form will automatically close when the serialnumber ends with \r\n

Declaration

```
public bool DisplayTreeView
```

Field Value

TYPE	DESCRIPTION
System.Boolean	

LastScannedSerialnumber

Holds information about the last scanned serialnumber

Declaration

```
public string LastScannedSerialnumber
```

Field Value

TYPE	DESCRIPTION
System.String	

Methods

AddChildUnit(String, String, String, String, String, String, String, out String)

Adds a child unit. If Neither CheckPartNumber or CheckRevision is given ProductRelations according to product manager are checked

Declaration

```
public bool AddChildUnit(string CultureCode, string ParentSerialNumber, string ParentPartNumber, string ChildSerialNumber, string ChildPartNumber, string CheckPartNumber, string CheckRevision, out string message)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	Culture code used to translate the <code>message</code> .
System.String	ParentSerialNumber	Serial number of the parent unit.
System.String	ParentPartNumber	Part number of the parent unit.
System.String	ChildSerialNumber	Serial number of the child unit to add as child.
System.String	ChildPartNumber	Part number of the child unit to add as child.
System.String	CheckPartNumber	If given, will verify that <code>ChildPartNumber</code> is the same as this. If null, will use Box Build in WATS to verify that the child unit is allowed to be a child of the parent unit.
System.String	CheckRevision	If given, will verify that <code>ChildPartNumber</code> is the same as this. If null, will use Box Build in WATS to verify that the child unit is allowed to be a child of the parent unit.
System.String	message	Translated response message from WATS.

Returns

TYPE	DESCRIPTION
System.Boolean	

CreateUnit(String, String, String, String)

Creates a new unit. The part number (product) and revision will be created if they don't exist.

Declaration

```
public bool CreateUnit(string SerialNumber, string PartNumber, string Revision, string batchNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Unit's serial number.
System.String	PartNumber	Unit's part number.

TYPE	NAME	DESCRIPTION
System.String	Revision	Unit's revision.
System.String	batchNumber	Unit's batch number.

Returns

TYPE	DESCRIPTION
System.Boolean	True if unit was created.

GetUnitHistory(String, String, Boolean)

Returns list of unit history in order of newest to latest.

Declaration

```
public List<UnitHistory> GetUnitHistory(string serialNumber, string partNumber = null, bool details = false)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Unit serial number
System.String	partNumber	Unit part number
System.Boolean	details	If <code>true</code> , includes details (info and error messages) for the unit.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< UnitHistory >	

GetUnitInfo(String, String)

Return [UnitInfo](#) object (no GUI)

Declaration

```
public UnitInfo GetUnitInfo(string SerialNumber, string PartNumber = "")
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	

TYPE	NAME	DESCRIPTION
System.String	PartNumber	

Returns

TYPE	DESCRIPTION
UnitInfo	A UnitInfo object with info about the SN supplied.

GetUnitPhase(String, String)

Get a unit's phase.

Declaration

```
public Unit_Phase GetUnitPhase(string SerialNumber, string PartNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Unit's serial number
System.String	PartNumber	Unit's part number

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Unit_Phase	Units current Phase enum

GetUnitPhaseString(String, String)

Get a unit's phase.

Declaration

```
public string GetUnitPhaseString(string SerialNumber, string PartNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Unit's serial number
System.String	PartNumber	Unit's part number

Returns

TYPE	DESCRIPTION
System.String	Units current Phase as string

GetUnitProcess(String, String)

Get a unit's current process

Declaration

<pre>public string GetUnitProcess(string SerialNumber, string PartNumber)</pre>

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Unit's serial number
System.String	PartNumber	Unit's part number

Returns

TYPE	DESCRIPTION
System.String	Unit's current process

GetUnitStateHistory(String, String, out String[], out String[], out DateTime[])

Returns unit history of state / phase changes. Changes are returned in three corresponding arrays due to index. Latest change is found on index 0;

Declaration

<pre>public int GetUnitStateHistory(string serialNumber, string partNumber, out string[] states, out string[] phases, out DateTime[] dateTime)</pre>
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	
System.String	partNumber	
System.String[]	states	Returned array of previous states
System.String[]	phases	Returned array of previous phases
System.DateTime[]	dateTime	Returned array of date / time of change

Returns

TYPE	DESCRIPTION
System.Int32	Arrays + return value -1 if error, number of changes (index range) if ok

GetUnitVerification(String, String)

Declaration

<pre>public UnitVerificationResponse GetUnitVerification(string serialNumber, string partNumber = null)</pre>

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	
System.String	partNumber	

Returns

TYPE	DESCRIPTION
UnitVerificationResponse	

IdentifyUUT(out Boolean, String)

Displays SN textbox if connected to service

Declaration

<pre>public UnitInfo IdentifyUUT(out bool Continue, string PartNumber = "")</pre>

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	Continue	Boolean value indicating if the process was stopped
System.String	PartNumber	PartNumber of unit to identify (used in case of none unique serialnumbers)

Returns

TYPE	DESCRIPTION
UnitInfo	A UnitInfo object of the scanned unit.

IdentifyUUT(out Boolean, ref Process, String, String, Boolean, Boolean, String, Boolean, Boolean, StatusEnum, Dictionary<String, Object>)

Display dialog to prompt for serial number

Declaration

```
public UnitInfo IdentifyUUT(out bool Continue, ref Process SelectedTestOperation, string SerialNumber = "",
string PartNumber = "", bool IncludeTestOperation = false, bool SelectTestOperation = true, string CustomText
= null, bool AlwaysOnTop = true, bool UseWorkflow = false, StatusEnum WorkflowStatus = StatusEnum.Released,
Dictionary<string, object> context = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	Continue	
Virinco.WATS.Service.MES.Contract.Process	SelectedTestOperation	
System.String	SerialNumber	
System.String	PartNumber	
System.Boolean	IncludeTestOperation	
System.Boolean	SelectTestOperation	
System.String	CustomText	
System.Boolean	AlwaysOnTop	
System.Boolean	UseWorkflow	
Virinco.WATS.Service.MES.Contract.StatusEnum	WorkflowStatus	
System.Collections.Generic.Dictionary<System.String, System.Object>	context	

Returns

TYPE	DESCRIPTION
UnitInfo	

isConnected()

True if connected to server

Declaration

```
public bool isConnected()
```

Returns

TYPE	DESCRIPTION
System.Boolean	

RemoveAllChildUnits(String, String, String, out String)

Removes all children of a given unit.

Declaration

```
public bool RemoveAllChildUnits(string CultureCode, string ParentSerialNumber, string ParentPartNumber, out string message)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	Culture code used to translate the <code>message</code>
System.String	ParentSerialNumber	Serial number of the parent unit to remove child units from.
System.String	ParentPartNumber	Part number of the parent unit to remove child units from.
System.String	message	Translated response message from WATS.

Returns

TYPE	DESCRIPTION
System.Boolean	

RemoveChildUnit(String, String, String, String, String, out String)

Removes a child unit of a given unit.

Declaration

```
public bool RemoveChildUnit(string CultureCode, string ParentSerialNumber, string ParentPartNumber, string ChildSerialNumber, string ChildPartNumber, out string message)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	Culture code used to translate the <code>message</code> .
System.String	ParentSerialNumber	Serial number of the parent unit.
System.String	ParentPartNumber	Part number of the parent unit.
System.String	ChildSerialNumber	Serial number of the child unit to remove as child.
System.String	ChildPartNumber	Part number of the child unit to remove as child.

TYPE	NAME	DESCRIPTION
System.String	message	Translated response message from WATS.

Returns

TYPE	DESCRIPTION
System.Boolean	

SetParent(String, String)

Create a parent/child relation between two units.

Declaration

```
public bool SetParent(string SerialNumber, string ParentSerialNumber)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Serial Number of child unit.
System.String	ParentSerialNumber	Serial Number of parent unit.

Returns

TYPE	DESCRIPTION
System.Boolean	Value indicating if the action was successfull or not.

SetUnitPhase(String, String, String)

Sets a unit's phase.

Declaration

```
public void SetUnitPhase(string SerialNumber, string PartNumber, string Phase)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Unit's serial number
System.String	PartNumber	Unit's part number
System.String	Phase	Unit's new phase,

SetUnitPhase(String, String, Unit_Phase)

Sets a unit's phase.

Declaration

```
public void SetUnitPhase(string SerialNumber, string PartNumber, Unit_Phase Phase)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Unit's serial number
System.String	PartNumber	Unit's part number
Virinco.WATS.Service.MES.Contract.Unit_Phase	Phase	Unit's new phase,

SetUnitProcess(String, String, String)

Sets a unit's process to a given value

Declaration

```
public void SetUnitProcess(string SerialNumber, string PartNumber, string ProcessName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Unit's serial number
System.String	PartNumber	Unit's part number
System.String	ProcessName	Unit's new processname

UpdateUnit(String, String, String)

Change a unit's partNumber and revision.

Declaration

```
[Obsolete]  
public bool UpdateUnit(string SerialNumber, string NewPartNumber, string NewRevision)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Serial number of unit to update.

TYPE	NAME	DESCRIPTION
System.String	NewPartNumber	New/updated part number.
System.String	NewRevision	New/updated revision.

Returns

TYPE	DESCRIPTION
System.Boolean	

UpdateUnit(String, String, String, String)

Change a unit's partNumber and revision. `partNumber` can be empty, but is required if units do not have unique serial number.

Declaration

```
public bool UpdateUnit(string serialNumber, string partNumber, string newPartNumber, string newRevision)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Serial number of unit to update.
System.String	partNumber	Part number of unit to update. Can be empty, but is required if units do not have unique serial number.
System.String	newPartNumber	New/updated part number.
System.String	newRevision	New/updated revision.

Returns

TYPE	DESCRIPTION
System.Boolean	

UpdateUnitAttribute(String, String, String)

Add or update a tag value on a unit.

Declaration

```
[Obsolete]
public bool UpdateUnitAttribute(string SerialNumber, string AttributeName, string AttributeValue)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Serial number of unit to update.
System.String	AttributeName	Tag key.
System.String	AttributeValue	Tag value.

Returns

TYPE	DESCRIPTION
System.Boolean	

UpdateUnitTag(String, String, String, String)

Add or update a tag value on a unit. `partNumber` can be empty, but is required if units do not have unique serial number.

Declaration

```
public bool UpdateUnitTag(string serialNumber, string partNumber, string tagName, string tagValue)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumber	Serial number of unit to update.
System.String	partNumber	Part number of unit to update. Can be empty, but is required if units do not have unique serial number.
System.String	tagName	Tag key.
System.String	tagValue	Tag value.

Returns

TYPE	DESCRIPTION
System.Boolean	

Class SerialNumberHandler

Interface to handle serialnumbers from WATS MES. Written by Ragnar Engnes, Virinco as - 2016

Inheritance

System.Object
SerialNumberHandler

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class SerialNumberHandler
```

Remarks

Some methods need a special access token to use, called token (not to be confused with tokenID, which is WATS token). That access token is '1C3CFC7C-1386-4219-94F4-06D2B7FD8E18'.

Constructors

SerialNumberHandler(String)

Constructor, creates an object reference

Declaration

```
public SerialNumberHandler(string serialNumberTypeName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialNumberTypeName	Type of serial number, e.g. MACAddress

Methods

CancelAllReservations()

Cancels all reservations for all types. Useful before disconnecting the client to ensure all unused reserved serial numbers are freed.

Declaration

```
public static void CancelAllReservations()
```

CancelReservations(Guid)

Cancels any reservations that is not taken from the local store on the server.

Declaration

```
public void CancelReservations(Guid token = default(Guid))
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	token	Deprecated. Used to be a special Guid needed to perform this function

FormatAsMAC(Int64, Char)

Converts from Int to MAC string

Declaration

```
public string FormatAsMAC(long i, char separator)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int64	i	
System.Char	separator	

Returns

TYPE	DESCRIPTION
System.String	

GenerateAndUploadSerialNumbers(String, String, Int64, Int64, Char, out Int32, out Int32, Guid)

Generates and uploads serialnumbers to server.[MACToInt\(String\)](#) can be used to convert a MAC string

Declaration

```
public List<string> GenerateAndUploadSerialNumbers(string tokenID, string serviceUrl, long fromSN, long toSN, char separator, out int uploaded, out int rejected, Guid token)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tokenID	
System.String	serviceUrl	
System.Int64	fromSN	
System.Int64	toSN	
System.Char	separator	Use to format mac string
System.Int32	uploaded	Successfully uploaded

TYPE	NAME	DESCRIPTION
System.Int32	rejected	Already exists
System.Guid	token	Secret token from support@virinco.com

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	A list of serialnumbers that already existed

GetFreeLocalSerialNumbers()

Returns the number of local serial numbers that are not taken.

Declaration

```
public int GetFreeLocalSerialNumbers()
```

Returns

TYPE	DESCRIPTION
System.Int32	Free local serialnumbers

GetLocalSerialNumbers()

Declaration

```
public IEnumerable<SerialNumbersSN> GetLocalSerialNumbers()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.IEnumerable<SerialNumbersSN>	

GetPoolInfo(out Boolean, out Int32, out Int32, out String, out String)

Returns information about the current pool when type is Reserve

Declaration

```
public void GetPoolInfo(out bool onlyInSequence, out int batchSize, out int fetchWhenLessThan, out string startFromSerialNumber, out string siteName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	onlyInSequence	
System.Int32	batchSize	

TYPE	NAME	DESCRIPTION
System.Int32	fetchWhenLessThan	
System.String	startFromSerialNumber	
System.String	siteName	

GetPoolInfo(out Boolean, out Int32, out Int32, out String, out String, out SerialNumberHandler.RequestType)

Returns information about the current pool when type is Reserve

Declaration

```
public void GetPoolInfo(out bool onlyInSequence, out int batchSize, out int fetchWhenLessThan, out string startFromSerialNumber, out string siteName, out SerialNumberHandler.RequestType requestType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	onlyInSequence	
System.Int32	batchSize	
System.Int32	fetchWhenLessThan	
System.String	startFromSerialNumber	
System.String	siteName	
SerialNumberHandler.RequestType	requestType	

GetResuseOnDuplicateRequest()

Declaration

```
public bool GetResuseOnDuplicateRequest()
```

Returns

TYPE	DESCRIPTION
System.Boolean	

GetSerialNumber(String, String)

Returns one serial number, see also [GetSerialNumbers\(Int32, String, String\)](#)

Declaration

```
public string GetSerialNumber(string serialnumberRef, string partnumberRef)
```

Parameters

TYPE	NAME	DESCRIPTION

TYPE	NAME	DESCRIPTION
System.String	serialnumberRef	Associate this serial number to this serialnumber
System.String	partnumberRef	Associate this serial number to this partnumber

Returns

TYPE	DESCRIPTION
System.String	Serial number as string

GetSerialNumbers(Int32, String, String)

Retrieves serialnumber from local store or server

Declaration

```
public string[] GetSerialNumbers(int numToGet, string serialnumberRef, string partnumberRef)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	numToGet	Number of serialnumbers wanted
System.String	serialnumberRef	Reference to a serial number
System.String	partnumberRef	Reference to a part number

Returns

TYPE	DESCRIPTION
System.String[]	String array with serial numbers

GetSerialNumberTypes()

Declaration

```
public static IEnumerable<SerialNumberType> GetSerialNumberTypes()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.IEnumerable< SerialNumberType >	

GetStatus()

Returns the status of a SerialnumberType

Declaration

```
public SerialNumberHandler.Status GetStatus()
```

Returns

TYPE	DESCRIPTION
SerialNumberHandler.Status	Ready/NotInitialized

GetTakenSerialNumbers(String, String)

Returns serial numbers already taken.

Declaration

```
public string[] GetTakenSerialNumbers(string serialnumberRef, string partnumberRef)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	serialnumberRef	Search for serial numbers associated with this serial number, or null to only search by reference part number.
System.String	partnumberRef	Search for part numbers associated with this serial number, or null to only search by reference serial number.

Returns

TYPE	DESCRIPTION
System.String[]	Serial numbers as array of strings

Initialize(String, String, SerialNumberHandler.RequestType, Boolean, Int32, Int32, String, String, Guid)

Initialize a client and make it ready for serial number retrieval.

Declaration

```
public void Initialize(string tokenID, string serviceUrl, SerialNumberHandler.RequestType requestType, bool onlyInSequence, int batchSize, int fetchWhenLessThan, string startFromSerialNumber, string siteName, Guid token = default(Guid))
```

Parameters

TYPE	NAME	DESCRIPTION

TYPE	NAME	DESCRIPTION
System.String	tokenID	Authentication token generated on the WATS server according to this procedure: https://virinco.zendesk.com/hc/en-us/articles/207424253-Authentication-///
System.String	serviceUrl	The service address, e.g.: http://localhost/SerialNumberAdmin/api/SerialNumber/
SerialNumberHandler.RequestType	requestType	Legal Values SerialNumberHandler.RequestType : Take: Client must be online and requested number of serialnumbers will be marked as Taken in the SN database Reserve: Client downloads a <code>batchSize</code> number of serialnumbers and makes a reservation in the SN database. The downloaded serial numbers are stored and maintained in an XML file on the client (C:\ProgramData\Virinco\WATS\AddressStore) When there are <code>fetchWhenLessThan</code> serialnumbers left in the local store, new serialnumbers are downloaded from server
System.Boolean	onlyInSequence	If set to true, requested serialnumbers will be contiguous (NB: Only MAC addresses)
System.Int32	batchSize	How many serialnumbers that are reserved on the server (When requestType=Resvere)
System.Int32	fetchWhenLessThan	Number of remaining offline serialnumbers before server is polled for a new batch
System.String	startFromSerialNumber	If specified, will restrict serial numbers retrieved to be greater or equal this value
System.String	siteName	Deprecated. Used to be that serial numbers would be registered to the site with this name.
System.Guid	token	Deprecated. Used to be a special Guid needed to perform this function.

MACToInt(String)

Converts MAC string to int

Declaration

```
public long MACToInt(string mac)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	mac	MAC String, supported separators are -,:,blank

Returns

TYPE	DESCRIPTION
System.Int64	Int64

SetReuseOnDuplicateRequest(Boolean)

Change the behaviour of the serialnumber handler to re-use serialnumbers if referencedSN and referencedPN and number requested has been requested earlier (in the same call)

Declaration

```
public void SetReuseOnDuplicateRequest(bool on)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	on	Turns on this functionality (default is off)

UploadSerialNumbersFromFile(String, String, String, out Int32, out Int32, Guid)

Uploads a text file with serialnumbers to the server, one sn per line - separated by CR/LF

Declaration

```
public List<string> UploadSerialNumbersFromFile(string tokenID, string serviceUrl, string fileName, out int uploaded, out int rejected, Guid token)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tokenID	
System.String	serviceUrl	
System.String	fileName	
System.Int32	uploaded	
System.Int32	rejected	
System.Guid	token	

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

Enum SerialNumberHandler.RequestType

Describes how the client retrieves serial numbers from server

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public enum RequestType
```

Fields

NAME	DESCRIPTION
Reserve	Work in offline mode, local pool of serial numbers. Pool is reserved at server
Take	Work in online mode, serialnumbers retrieved are Taken at once

Enum SerialNumberHandler.Status

Serialnumber type status

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: [Virinco.WATS.Interface.MES.dll](#)

Syntax

```
public enum Status
```

Fields

NAME	DESCRIPTION
NotInitialized	Not ready for retrieval, run Setup Initialize(String, String, SerialNumberHandler.RequestType, Boolean, Int32, Int32, String, String, Guid) first>
Ready	Local store ready for retrieval

Class SerialNumberType

Inheritance

System.Object
SerialNumberType

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Production](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class SerialNumberType
```

Properties

Description

Declaration

```
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Format

Declaration

```
public string Format { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Name

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Regex

Declaration

```
public string Regex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class TestProcessResult

Unit results per process in verification rule.

Inheritance

System.Object
TestProcessResult

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Production](#)
Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class TestProcessResult
```

Properties

NonPassedCount

How many times the unit didn't pass the test.

Declaration

```
[JsonProperty("nonPassedCount")]  
public int NonPassedCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

ProcessCode

Test operation code.

Declaration

```
[JsonProperty("processCode")]  
public short ProcessCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int16	

ProcessIndex

Test operation order index.

Declaration


```
[JsonProperty("processIndex")]
public string ProcessIndex { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProcessName

Test operation name.

Declaration

```
[JsonProperty("processName")]
public string ProcessName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RepairCount

How many times the unit was repaired.

Declaration

```
[JsonIgnore]
public int RepairCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

StartUtc

Test start date and time.

Declaration

```
[JsonIgnore]
public DateTime StartUtc { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

StationName

Name of test station.

Declaration

```
[JsonProperty("stationName")]
public string StationName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StatusText

Unit test status in this process.

Declaration

```
[JsonProperty("status")]
public string StatusText { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TotalCount

How many times the unit was tested.

Declaration

```
[JsonProperty("totalCount")]
public int TotalCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Class UnitHistory

Inheritance

System.Object
UnitHistory

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class UnitHistory
```

Properties

Details

If details is `true`, a list of info and error messages.

Declaration

```
[JsonProperty("details")]  
public List<UnitReportHistoryDetails> Details { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< UnitReportHistoryDetails >	

EndUtc

If unit has report, this is when the test or repair ended.

Declaration

```
[JsonProperty("endUtc")]  
public DateTime? EndUtc { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.DateTime>	

Forced

`true` if this change was forced by a user.

Declaration

```
[JsonProperty("forced")]
public bool Forced { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Level

Unit type, Unit or Subunit.

Declaration

```
[JsonProperty("level")]
public string Level { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Location

If unit has report, this is the location in the report.

Declaration

```
[JsonProperty("location")]
public string Location { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Operator

If unit has report, this is the operator in the report.

Declaration

```
[JsonProperty("userName")]
public string Operator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PN

Unit part number.

Declaration

```
[JsonProperty("partNumber")]
public string PN { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Process

The process the unit was in.

Declaration

```
[JsonProperty("toProcess")]
public string Process { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Purpose

If unit has report, this is the purpose in the report.

Declaration

```
[JsonProperty("purpose")]
public string Purpose { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReportId

Id to a report, if the change was because of test or repair.

Declaration

```
[JsonProperty("uuid")]
public Guid? ReportId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Guid>	

Revision

Unit revision.

Declaration

```
[JsonProperty("revision")]
public string Revision { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SN

Unit serial number.

Declaration

```
[JsonProperty("serialNumber")]
public string SN { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartUtc

Date and time of when the change happened.

Declaration

```
[JsonProperty("startUtc")]
public DateTime StartUtc { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

StationName

If unit has report, this is the station name in the report.

Declaration

```
[JsonProperty("stationName")]
public string StationName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Status

The status the unit had.

Declaration

```
[JsonProperty("status")]  
public string Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class UnitInfo

UnitInfo object which holds information about a scanned unit. This object may be retrieved from MES Production interface.

Inheritance

System.Object
UnitInfo

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class UnitInfo
```

Properties

BatchNumber

Batch number

Declaration

```
public string BatchNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartNumber

Part number

Declaration

```
public string PartNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PartNumberDescription

Description of a product

Declaration

```
public string PartNumberDescription { get; }
```


Property Value

TYPE	DESCRIPTION
System.String	

PartNumberName

Name of product

Declaration

```
public string PartNumberName { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Product_Data

XML data attached to product. May be queried by [GetInfo\(String, UnitInfo.DataType\)](#)

Declaration

```
public string Product_Data { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Revision

Revision of a product

Declaration

```
public string Revision { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Revision_Data

XML data attached to revision. May be queried by [GetInfo\(String, UnitInfo.DataType\)](#)

Declaration

```
public string Revision_Data { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionDescription

Description of a revision (overrides ProductDescription)

Declaration

```
public string RevisionDescription { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RevisionName

Revision name of a product

Declaration

```
public string RevisionName { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SerialDate

When unit is produced

Declaration

```
public DateTime? SerialDate { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.DateTime>	

SerialNumber

Unit's Serial Number

Declaration

```
public string SerialNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Unit_Data

XML data attached to unit. May be queried by [GetInfo\(String, UnitInfo.DataType\)](#)

Declaration

```
public string Unit_Data { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

GetChild(Int32)

Get Child [UnitInfo](#) object at index

Declaration

```
public UnitInfo GetChild(int index)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	index	

Returns

TYPE	DESCRIPTION
UnitInfo	

GetChildCount()

Get the number of child [UnitInfo](#) objects

Declaration

```
public int GetChildCount()
```

Returns

TYPE	DESCRIPTION
System.Int32	Number of child units or -1 of unknown

GetChildren()

Get Child [UnitInfo](#) object at index

Declaration

```
public UnitInfo[] GetChildren()
```

Returns

TYPE	DESCRIPTION
UnitInfo []	

GetInfo(String, Int32)

Query XML data given a XPath and XML [UnitInfo.DataType](#)

Declaration

```
public string GetInfo(string XPath, int type)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	XPath	The XPath to query
System.Int32	type	The XML type to query (0=UnitData,1=ProductData,2=RevisionData)

Returns

TYPE	DESCRIPTION
System.String	XPath query result as string

GetInfo(String, UnitInfo.DataType)

Query XML data given a XPath and XML [UnitInfo.DataType](#)

Declaration

```
public string GetInfo(string XPath, UnitInfo.DataType type)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	XPath	The XPath to query
UnitInfo.DataType	type	The XML type to query

Returns

TYPE	DESCRIPTION
System.String	XPath query result as string

GetInfoByField(String, Int32)

Query XML data given a field name

Declaration

```
[Obsolete("GetInfoByField is deprecated, please use GetTagValue instead.")]  
public string GetInfoByField(string Field, int Type)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Field	Name of field
System.Int32	Type	Type of XML data (0=UnitData,1=ProductData,2=RevisionData)

Returns

TYPE	DESCRIPTION
System.String	Attribute value

GetInfoByField(String, UnitInfo.DataType)

Query XML data given a field name

Declaration

```
[Obsolete("GetInfoByField is deprecated, please use GetTagValue instead.")]
public string GetInfoByField(string Field, UnitInfo.DataType Type)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Field	Name of field
UnitInfo.DataType	Type	Type of XML data (enum)

Returns

TYPE	DESCRIPTION
System.String	Attribute value

GetParent()

Get parent [UnitInfo](#) object

Declaration

```
public UnitInfo GetParent()
```

Returns

TYPE	DESCRIPTION
UnitInfo	

GetTagValue(String, Int32)

Query data attached to unit, product or revision

Query data attached to unit, product or revision.

Declaration

```
public string GetTagValue(string Tag, int Type)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Tag	Name of Tag
System.Int32	Type	Type of XML data (0=UnitData,1=ProductData,2=RevisionData)

Returns

TYPE	DESCRIPTION
System.String	Tag value

GetTagValue(String, UnitInfo.DataType)

Query data attached to unit, product or revision.

Declaration

```
public string GetTagValue(string Tag, UnitInfo.DataType Type)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Tag	Name of Tag
UnitInfo.DataType	Type	Type of XML data (enum)

Returns

TYPE	DESCRIPTION
System.String	Tag value

HasParent()

Indicates if the unit is a top level unit

Declaration

```
public bool HasParent()
```

Returns

TYPE	DESCRIPTION
System.Boolean	Boolean value indicating if the unit has any parent units.

SetTagValue(String, String)

Change or add the value of a unit tag.

Declaration

```
public bool SetTagValue(string Tag, string TagValue)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Tag	Name of Tag.
System.String	TagValue	Value of Tag.

Returns

TYPE	DESCRIPTION
System.Boolean	Success

Enum UnitInfo.DataType

Type of XML data to query using [GetInfo\(String, UnitInfo.DataType\)](#)

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: [Virinco.WATS.Interface.MES.dll](#)

Syntax

```
public enum DataType
```

Fields

NAME	DESCRIPTION
ProductData	Product data
RevisionData	Revision data
UnitData	Unit data

Class UnitReportHistoryDetails

Inheritance

System.Object
UnitReportHistoryDetails

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class UnitReportHistoryDetails
```

Properties

Error

Declaration

```
[JsonProperty("error")]  
public string Error { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Info

Declaration

```
[JsonProperty("info")]  
public string Info { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class UnitVerificationResponse

Response from [GetUnitVerification\(String, String\)](#).

Inheritance

System.Object
UnitVerificationResponse

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Interface.MES.Production](#)

Assembly: Virinco.WATS.Interface.MES.dll

Syntax

```
public class UnitVerificationResponse
```

Properties

AllProcessesExecutedInCorrectOrder

Unit was tested in correct process order according to process index.

Declaration

```
[JsonProperty("allProcessesExecutedInCorrectOrder")]  
public bool AllProcessesExecutedInCorrectOrder { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

AllProcessesPassedAnyRun

Unit passed at some point in each process, maybe after or before fail and repair.

Declaration

```
[JsonProperty("allProcessesPassedAnyRun")]  
public bool AllProcessesPassedAnyRun { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

AllProcessesPassedFirstRun

Unit passed in each process first time.

Declaration

```
[JsonProperty("allProcessesPassedFirstRun")]
public bool AllProcessesPassedFirstRun { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

AllProcessesPassedLastRun

Unit eventually passed in each process, maybe after fail and repair. See [NonPassedCount](#) and [RepairCount](#) per process.

Declaration

```
[JsonProperty("allProcessesPassedLastRun")]
public bool AllProcessesPassedLastRun { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Grade

Unit grade.

Declaration

```
[JsonProperty("grade")]
public string Grade { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NoRepairs

Unit never needed repair.

Declaration

```
[JsonProperty("noRepairs")]
public bool NoRepairs { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Ok

Response status. `true` if unit has finished testing in all processes, else `false`.

Declaration

```
public bool Ok { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

ProcessResults

Unit results per process in verification rule.

Declaration

```
[JsonProperty("results")]
public TestProcessResult[] ProcessResults { get; set; }
```

Property Value

TYPE	DESCRIPTION
TestProcessResult[]	

Status

Unit status.

Declaration

```
[JsonProperty("status")]
public string Status { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Namespace Virinco.WATS.Interface.MES.Software

Classes

[Software](#)

Class to handle software distribution

Class Software

Class to handle software distribution

Inheritance

System.Object

[MesBase](#)

Software

Inherited Members

[MesBase.adminToken](#)

[MesBase.SetAdminCredentials\(String, String\)](#)

[MesBase.RESTGetJson<responseType>\(String, Boolean\)](#)

[MesBase.RESTPostJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.RESTPutJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.RESTDeleteJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.CultureCode](#)

[MesBase.TranslateString\(String, String, Object\[\]\)](#)

[MesBase.TranslateString\(String, Object\[\]\)](#)

[MesBase.TranslateArray\(String\[\]\)](#)

[MesBase.TranslateArray\(String, String\[\]\)](#)

[MesBase.GetProcesses\(Boolean, Boolean, Boolean\)](#)

[MesBase.GetMesServerSettings\(String\[\], Boolean\[\], Int32\[\], String\[\], String\[\], String\[\]\)](#)

[MesBase.GetCommonUserSettings\(String\)](#)

[MesBase.GetGeneralOptionString\(String\)](#)

[MesBase.GetGeneralOptionBool\(String\)](#)

[MesBase.GetGeneralOptionInt\(String\)](#)

[MesBase.DisplayMesTestGUI\(\)](#)

[MesBase.GetStorageXml\(String\)](#)

[MesBase.GetStorageValue\(String\)](#)

[MesBase.PutStorageData\(String, String, String\)](#)

[MesBase.RemoveStorageData\(String\)](#)

[MesBase.RethrowException](#)

[MesBase.LastException](#)

[MesBase.LogExceptions](#)

[MesBase.Operator](#)

[MesBase.StartTraceToEventLog\(\)](#)

[MesBase.StopTraceToEventLog\(\)](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface.MES.Software](#)

Assembly: [Virinco.WATS.Interface.MES.dll](#)

Syntax

```
public class Software : MesBase
```

Methods

[DeleteAllPackages\(Boolean\)](#)

Method to clean file distribution root folder

Declaration

```
public void DeleteAllPackages(bool PromptOperator = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	PromptOperator	Display a OK/Cancel dialog

DeleteRevokedPackages(Boolean)

Delete revoked packages. Only revoked packages without a released version are deleted (packages without a new released version)

Declaration

```
public void DeleteRevokedPackages(bool PromptOperator = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	PromptOperator	Display a OK/Cancel dialog

GetAvailablePackages(out Boolean)

Check server for new version of installed packages

Declaration

```
public Package[] GetAvailablePackages(out bool PackagesAvailable)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	PackagesAvailable	boolean value if new packages exists

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	Array of available packages

GetPackageByName(String, Boolean, Boolean, Boolean, out List<FileInfo>, out List<FileInfo>, StatusEnum)

Get Packages with a given name.

Declaration

```
public Package GetPackageByName(string PackageName, bool Install, bool DisplayProgress, bool WaitForExecution, out List<FileInfo> ExecuteFiles, out List<FileInfo> TopLevelSequences, StatusEnum PackageStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	PackageName	Name of Package
System.Boolean	Install	Install Package?
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finish
System.Collections.Generic.List<System.IO.FileInfo>	ExecuteFiles	List of files beeing executed
System.Collections.Generic.List<System.IO.FileInfo>	TopLevelSequences	List of toplevel sequences
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package	

GetPackageByName(String, Boolean, Boolean, Boolean, StatusEnum)

Get Packages with a given name

Declaration

```
public Package GetPackageByName(string PackageName, bool Install = true, bool DisplayProgress = true, bool WaitForExecution = true, StatusEnum PackageStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	PackageName	Name of Package
System.Boolean	Install	Install Package?
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded

TYPE	NAME	DESCRIPTION
System.Boolean	WaitForExecution	Wait for for executed files to finish
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package	

GetPackages(String, String, String, String, String, String, Boolean, Boolean, Boolean, StatusEnum)

Get Package by default tags. Default value (null) will skip tag.

Declaration

```
public Package[] GetPackages(string PartNumber = null, string Process = null, string StationType = null,
string Revision = null, string StationName = null, string Misc = null, bool Install = true, bool
DisplayProgress = true, bool WaitForExecution = true, StatusEnum PackageStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	PartNumber	Tagged with a given PartNumber
System.String	Process	Tagged with a given Process
System.String	StationType	Tagged with a given StationType
System.String	Revision	Tagged with a given Revision
System.String	StationName	Tagged with a given Staion Name
System.String	Misc	Tagged with a given Misc value
System.Boolean	Install	Install Package?
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded

--

TYPE	NAME	DESCRIPTION
System.Boolean	WaitForExecution	Wait for for executed files to finsish
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

GetPackagesByTag(Dictionary<String, String>, Boolean, Boolean, Boolean, out List<FileInfo>, out List<FileInfo>, StatusEnum)

Returns Packages matching a dictionary of Tag/Values.

Declaration

```
public Package[] GetPackagesByTag(Dictionary<string, string> TagValue, bool Install, bool DisplayProgress,
bool WaitForExecution, out List<FileInfo> ExecuteFiles, out List<FileInfo> TopLevelSequences, StatusEnum
PackageStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, System.String>	TagValue	
System.Boolean	Install	Install Package?
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finsish
System.Collections.Generic.List<System.IO.FileInfo>	ExecuteFiles	List of files beeing executed
System.Collections.Generic.List<System.IO.FileInfo>	TopLevelSequences	List of toplevel sequences
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

TYPE	DESCRIPTION

GetPackagesByTag(Dictionary<String, String>, Boolean, Boolean, Boolean, StatusEnum)

Returns Packages matching a dictionary of Tag/Values.

Declaration

```
public Package[] GetPackagesByTag(Dictionary<string, string> TagValue, bool Install, bool DisplayProgress,
bool WaitForExecution, StatusEnum PackageStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, System.String>	TagValue	
System.Boolean	Install	Install Package?
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finish
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

GetPackagesByTag(String, Boolean, Boolean, Boolean, StatusEnum)

Get an array of Packages.

Declaration

```
public Package[] GetPackagesByTag(string XPath, bool Install = true, bool DisplayProgress = true, bool
WaitForExecution = true, StatusEnum PackageStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	XPath	Return Packages with a Tag matching the XPath

TYPE	NAME	DESCRIPTION
System.Boolean	Install	Install Package?
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finish
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

GetPackagesByTag(String, out List<FileInfo>, out List<FileInfo>, Boolean, Boolean, Boolean, StatusEnum)

Get an array of Packages.

Declaration

```
public Package[] GetPackagesByTag(string XPath, out List<FileInfo> ExecuteFiles, out List<FileInfo>
TopLevelSequences, bool Install = true, bool DisplayProgress = true, bool WaitForExecution = true, StatusEnum
PackageStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	XPath	Return Packages with a Tag matching the XPath
System.Collections.Generic.List<System.IO.FileInfo>	ExecuteFiles	List of files beeing executed
System.Collections.Generic.List<System.IO.FileInfo>	TopLevelSequences	List of toplevel sequences
System.Boolean	Install	Install Package?
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finish

TYPE	NAME	DESCRIPTION
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

GetPackagesByTag(String[], String[], Boolean, Boolean, Boolean, out List<FileInfo>, out List<FileInfo>, StatusEnum)

Returns Packages matching array of Tag/Values.

Declaration

```
public Package[] GetPackagesByTag(string[] tagNames, string[] tagValues, bool Install, bool DisplayProgress,
bool WaitForExecution, out List<FileInfo> ExecuteFiles, out List<FileInfo> TopLevelSequences, StatusEnum
PackageStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	tagNames	Array of tags to match (the tag value should be located on identical index in the tagValues array)
System.String[]	tagValues	Array of tagvalues to match (the tag name should be placed on the identical index in the tagNames array)
System.Boolean	Install	Install Package?
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finish
System.Collections.Generic.List<System.IO.FileInfo>	ExecuteFiles	List of files beeing executed
System.Collections.Generic.List<System.IO.FileInfo>	TopLevelSequences	List of toplevel sequences
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

GetRevokedPackages(String[], String[], out Package, out Boolean, out List<FileInfo>, out List<FileInfo>)

Returns an array of revoked packages matching the tags. All package versions are included

Declaration

```
public Package[] GetRevokedPackages(string[] tagNames, string[] tagValues, out Package SelectedPackage, out bool Continue, out List<FileInfo> ExecuteFiles, out List<FileInfo> TopLevelSequences)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	tagNames	Array of tags
System.String[]	tagValues	Array of tag values matching index of the tagnames array
Virinco.WATS.Service.MES.Contract.Package	SelectedPackage	The selected package (from GUI)
System.Boolean	Continue	True if a package is selected (from Gui)
System.Collections.Generic.List<System.IO.FileInfo>	ExecuteFiles	Array of executable files in selected package
System.Collections.Generic.List<System.IO.FileInfo>	TopLevelSequences	Array of toplevelsequencefiles in selected package

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	Matching Packages

GetRootFolderPath()

Returns the local Root Folder path where software packages are installed

Declaration

```
public static string GetRootFolderPath()
```

Returns

TYPE	DESCRIPTION
System.String	

InstallPackage(Package, Boolean, Boolean)

Install a given package (overwriting modified files).

Declaration

```
public void InstallPackage(Package package, bool DisplayProgress, bool WaitForExecution)
```

Parameters

TYPE	NAME	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package	package	Package to install
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finsish

InstallPackage(Package, Boolean, Boolean, out List<FileInfo>, out List<FileInfo>)

Install a given package (overwriting modified files). Getting files to filesystem and executing files being marked for execution

Declaration

```
public void InstallPackage(Package package, bool DisplayProgress, bool WaitForExecution, out List<FileInfo> ExecuteFiles, out List<FileInfo> TopLevelSequences)
```

Parameters

TYPE	NAME	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package	package	Package to install
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finsish
System.Collections.Generic.List<System.IO.FileInfo>	ExecuteFiles	List of files beeing tagged for execution
System.Collections.Generic.List<System.IO.FileInfo>	TopLevelSequences	List of files being tagged as top level sequence

InstallPackage(Package[], Boolean, Boolean)

Install an array of Packages. Getting files to filesystem and executing files being marked for execution

Declaration

```
public void InstallPackage(Package[] packages, bool DisplayProgress, bool WaitForExecution)
```

Parameters

TYPE	NAME	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	packages	Packages to install
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finish

InstallPackage(Package[], Boolean, Boolean, out List<FileInfo>, out List<FileInfo>)

Install an array of Packages. Getting files to filesystem and executing files being marked for execution

Declaration

```
public void InstallPackage(Package[] packages, bool DisplayProgress, bool WaitForExecution, out List<FileInfo> ExecuteFiles, out List<FileInfo> TopLevelSequences)
```

Parameters

TYPE	NAME	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	packages	Packages to install
System.Boolean	DisplayProgress	Display a progressbar when files are downloaded
System.Boolean	WaitForExecution	Wait for for executed files to finish
System.Collections.Generic.List<System.IO.FileInfo>	ExecuteFiles	List of files being tagged for execution
System.Collections.Generic.List<System.IO.FileInfo>	TopLevelSequences	List of files being tagged as top level sequence

isConnected()

True if connected to server

Declaration

```
public bool isConnected()
```

Returns

TYPE	DESCRIPTION
System.Boolean	

SetRootFolderPath(String, Boolean)

Set path to local software root folder, where packages will be installed.

Declaration

```
public static void SetRootFolderPath(string rootFolderPath, bool moveExistingPackages = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	rootFolderPath	Path to the new folder packages will be installed into. Must be an absolute path, and should be an empty folder. NB! Existing files in the folder may be overwritten by packages.
System.Boolean	moveExistingPackages	Choose to move packages files to the new folder. May fail if folder or file with same name as a package already exists in the new folder. If files are not moved, installed packages will stop working until they are reinstalled. NB! If the current root folder does not only contain packages, those files will also be moved.

Namespace Virinco.WATS.Interface.MES.Workflow

Classes

[Workflow](#)

Class that represent a workflow

Class Workflow

Class that represent a workflow

Inheritance

System.Object

[MesBase](#)

Workflow

Inherited Members

[MesBase.adminToken](#)

[MesBase.SetAdminCredentials\(String, String\)](#)

[MesBase.RESTGetJson<responseType>\(String, Boolean\)](#)

[MesBase.RESTPostJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.RESTPutJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.RESTDeleteJson<responseType>\(String, Object, Boolean\)](#)

[MesBase.CultureCode](#)

[MesBase.TranslateString\(String, String, Object\[\]\)](#)

[MesBase.TranslateString\(String, Object\[\]\)](#)

[MesBase.TranslateArray\(String\[\]\)](#)

[MesBase.TranslateArray\(String, String\[\]\)](#)

[MesBase.GetProcesses\(Boolean, Boolean, Boolean\)](#)

[MesBase.GetMesServerSettings\(String\[\], Boolean\[\], Int32\[\], String\[\], String\[\], String\[\]\)](#)

[MesBase.GetCommonUserSettings\(String\)](#)

[MesBase.GetGeneralOptionString\(String\)](#)

[MesBase.GetGeneralOptionBool\(String\)](#)

[MesBase.GetGeneralOptionInt\(String\)](#)

[MesBase.DisplayMesTestGUI\(\)](#)

[MesBase.GetStorageXml\(String\)](#)

[MesBase.GetStorageValue\(String\)](#)

[MesBase.PutStorageData\(String, String, String\)](#)

[MesBase.RemoveStorageData\(String\)](#)

[MesBase.RethrowException](#)

[MesBase.LastException](#)

[MesBase.LogExceptions](#)

[MesBase.Operator](#)

[MesBase.StartTraceToEventLog\(\)](#)

[MesBase.StopTraceToEventLog\(\)](#)

[System.Object.ToString\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

Namespace: [Virinco.WATS.Interface.MES.Workflow](#)

Assembly: [Virinco.WATS.Interface.MES.dll](#)

Syntax

```
public class Workflow : MesBase
```

Properties

Service

For internal testing only. This property getter will be removed in a forthcoming release!

Declaration

```
public IWorkflowService Service { get; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.IWorkflowService	

Methods

AddUnit(String, String, String, String, String, Dictionary<String, Object>, StatusEnum)

Adds unit in a boxbuild

Declaration

```
public WorkflowResponse AddUnit(string SerialNumber, string PartNumber, string ChildSerialNumber, string ChildPartNumber, string ActivityName, Dictionary<string, object> inputValues, StatusEnum workflowDefinitionStatus)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	ChildSerialNumber	
System.String	ChildPartNumber	
System.String	ActivityName	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

Cancel(String, String, StatusEnum)

Cancels an active workflow

Declaration

```
public WorkflowResponse Cancel(string SerialNumber, string PartNumber, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

CheckIn(String, String, String, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

Performs a Check-In on a workflow

Declaration

```
public WorkflowResponse CheckIn(string SerialNumber, string PartNumber, string Operation, Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

CheckOut(String, String, String, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

Performs a Check-Out on a workflow

Declaration

```
public WorkflowResponse CheckOut(string SerialNumber, string PartNumber, string Operation, Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

EndRepair(String, String, String, String, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

End repair

Declaration

```
public WorkflowResponse EndRepair(string SerialNumber, string PartNumber, string Operation, string UserInput, Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
System.String	UserInput	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

EndTest(String, String, String, ActivityTestResult, Boolean, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

End test with result

Declaration

```
public WorkflowResponse EndTest(string SerialNumber, string PartNumber, string Operation, ActivityTestResult Result, bool ForceExit, Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
Virinco.WATS.Service.MES.Contract.ActivityTestResult	Result	
System.Boolean	ForceExit	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

Initialize(String, String, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

Initialize a workflow

Declaration

```
public WorkflowResponse Initialize(string SerialNumber, string PartNumber, Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

isConnected()

True if connected to server

Declaration

public bool isConnected()

Returns

TYPE	DESCRIPTION
System.Boolean	

RemoveUnit(String, String, String, String, String, Dictionary<String, Object>, StatusEnum)

Removes a sub unit

Declaration

public WorkflowResponse RemoveUnit(string SerialNumber, string PartNumber, string ChildSerialNumber, string ChildPartNumber, string ActivityName, Dictionary<string, object> inputValues, StatusEnum workflowDefinitionStatus)
--

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	ChildSerialNumber	
System.String	ChildPartNumber	
System.String	ActivityName	

TYPE	NAME	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

Resume(String, String, StatusEnum)

Resumes a suspended workflow

Declaration

```
public WorkflowResponse Resume(string SerialNumber, string PartNumber, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

Scrap(String, String, String, String, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

Scrap a unit under repair

Declaration

```
public WorkflowResponse Scrap(string SerialNumber, string PartNumber, string Operation, string UserInput, Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
System.String	UserInput	

TYPE	NAME	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

StartRepair(String, String, String, String, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

Start repair

Declaration

```
public WorkflowResponse StartRepair(string SerialNumber, string PartNumber, string Operation, string
UserInput, Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true,
StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
System.String	UserInput	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

StartTest(String, String, String, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

Start automated test

Declaration

```
public WorkflowResponse StartTest(string SerialNumber, string PartNumber, string Operation, Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

Suspend(String, String, StatusEnum)

Suspends a workflow

Declaration

```
public WorkflowResponse Suspend(string SerialNumber, string PartNumber, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

UserInput(String, String, String, String, Dictionary<String, Object>, Boolean, Boolean, StatusEnum)

Performs a UserInput on a workflow

Declaration

```
public WorkflowResponse UserInput(string SerialNumber, string PartNumber, string Operation, string UserInput,
Dictionary<string, object> inputValues, bool promptOperator = false, bool AlwaysOnTop = true, StatusEnum
workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
System.String	UserInput	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
System.Boolean	promptOperator	
System.Boolean	AlwaysOnTop	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

Validate(String, String, ActivityMethod, String, Dictionary<String, Object>, StatusEnum, Boolean)

Validate workflow

Declaration

```
public WorkflowResponse Validate(string SerialNumber, string PartNumber, ActivityMethod Method, string Name,
Dictionary<string, object> inputValues, StatusEnum workflowDefinitionStatus = StatusEnum.Released, bool
generateImage = false)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
Virinco.WATS.Service.MES.Contract.ActivityMethod	Method	
System.String	Name	
System.Collections.Generic.Dictionary<System.String, System.Object>	inputValues	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

TYPE	NAME	DESCRIPTION
System.Boolean	generateImage	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.WorkflowResponse	

Teststand support

The TestStand support API is primarily used from TestStand for simplified interface between the WATS's .Net APIs (TDM and MES) and TestStand.

Namespace Virinco.WATS.Teststand

Classes

[Support](#)

Class Support

Inheritance

System.Object
Support

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: **Virinco.WATS.Teststand**
Assembly: WATS_Teststand_Support.dll

Syntax

```
public static class Support
```

Methods

CreateSimpleUUR(String, Int32, String, String, String, Int16, Int16, String, String, SequenceContext)

Display a simple create UUR dialog

Declaration

```
public static void CreateSimpleUUR(string UUTGuid, int StepId, string SerialNumber, string PartNumber, string Revision, short RepairOperationCode, short TestOperationCode, string StationName, string TestOperator, SequenceContext SeqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	UUTGuid	Referenced UUT Guid
System.Int32	StepId	Failed Steporder number
System.String	SerialNumber	SerialNumber
System.String	PartNumber	PartNumber
System.String	Revision	Revision
System.Int16	RepairOperationCode	Repair Operation CODE

TYPE	NAME	DESCRIPTION
System.Int16	TestOperationCode	Test Operation CODE
System.String	StationName	UUR Station Name
System.String	TestOperator	Test operator
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	Teststand seq context

DisplayStatusBanner(String, String, String, String, SequenceContext, Int32)

display uut status, with ability to enter a comment

Declaration

```
public static string DisplayStatusBanner(string SerialNumber, string Status, string Error, string Comment,
SequenceContext SeqContext, int Timeout = 60)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Serial Number of unit under test
System.String	Status	Test status (passed, failed,terminated, error)
System.String	Error	Error message
System.String	Comment	Comment
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	
System.Int32	Timeout	time out in seconds (-1 = unlimited, 0 = do not show Statusbanner)

Returns

TYPE	DESCRIPTION
System.String	Comment string

Namespace Virinco.WATS.Teststand.MES

Classes

Base

Product

Production

Software

Workflow

Structs

Base.WATS_UserSettings

Class Base

Inheritance

System.Object
Base

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Teststand.MES](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public static class Base
```

Methods

GetMesServerSettings(out String[], out Boolean[], out Int32[], String[], String[], String[])

Declaration

```
public static void GetMesServerSettings(out string[] stringValues, out bool[] boolValues, out int[] numberValues, string[] stringKeys = null, string[] boolKeys = null, string[] numberKeys = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	stringValues	
System.Boolean[]	boolValues	
System.Int32[]	numberValues	
System.String[]	stringKeys	
System.String[]	boolKeys	
System.String[]	numberKeys	

GetUserSettings(String, out Base.WATS_UserSettings)

If TS login user name exist as WATS user name at the server, User settings are downloaded.

Declaration

```
public static bool GetUserSettings(string UserName, out Base.WATS_UserSettings UserSettings)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	UserName	Add the WATS Username to search for (Users are edited at the WATS Server)
Base.WATS_UserSettings	UserSettings	Returns user settings. Compatible with the WATS_User_Settings data type.

Returns

TYPE	DESCRIPTION
System.Boolean	True if Username exists at the WATS server

TranslateArray(String, String[])

Translate an Array using the WATS language module

Declaration

```
public static string[] TranslateArray(string CultureCode, string[] englishText)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	Language Culture Name to translate (e.g. "zh-CN")
System.String[]	englishText	Input an array of English text for translation

Returns

TYPE	DESCRIPTION
System.String[]	Returns an array of translated text. If translation is not available, returns the English text

TranslateStandardText(String)

Translate standard text listed in the "StandardText.txt" file in the WATS folder (translation module in WATS)

Declaration

```
public static string[] TranslateStandardText(string CultureCode)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	Language Culture Name to translate (e.g. "zh-CN")

Returns

TYPE	DESCRIPTION
System.String[]	Returns an array of translated text. If translation is not available, returns the English text

TranslateString(String, String, String[])

Translate a custom text/string (translation module in WATS)

Declaration

```
public static string TranslateString(string CultureCode, string englishText, string[] arguments)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	CultureCode	Language Culture Name to translate (e.g. "zh-CN")
System.String	englishText	Input a string of English text for translation. Use {number} and "arguments" to section your string with none translate sections. E.g. "Do not translate {0} this time" where {0} refers to arguments[0]. The text in arguments[0] will be replaced {0} when returned, the rest of the sting will be translated.
System.String[]	arguments	Arguments[#] will replaced section {#} in text and not be translated.

Returns

TYPE	DESCRIPTION
System.String	Returns the translated text. If translation is not available, returns the English text

Struct Base.WATS_UserSettings

Inherited Members

- System.ValueType.Equals(System.Object)
- System.ValueType.GetHashCode()
- System.ValueType.ToString()
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetType()

Namespace: [Virinco.WATS.Teststand.MES](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public struct WATS_UserSettings
```

Fields

Culture

Declaration

```
public string Culture
```

Field Value

TYPE	DESCRIPTION
System.String	

DateOfBirth

Declaration

```
public string DateOfBirth
```

Field Value

TYPE	DESCRIPTION
System.String	

Email

Declaration

```
public string Email
```

Field Value

TYPE	DESCRIPTION
System.String	

FullName

Declaration

```
public string FullName
```

Field Value

TYPE	DESCRIPTION
System.String	

Roles

Declaration

```
public string[] Roles
```

Field Value

TYPE	DESCRIPTION
System.String[]	

Class Product

Inheritance

System.Object
Product

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Teststand.MES](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public static class Product
```

Methods

IdentifyProduct(String, Int32, Boolean, Boolean, Boolean, out String, out String, out String, out Config.WATS_OperationType, out Boolean, SequenceContext, String, String, Boolean)

Dialog box allowing the operator to select a part number and/or revision available in WATS MES – Product Manager

Declaration

```
public static void IdentifyProduct(string Filter, int TopCount, bool FreePartnumber, bool IncludeRevision, bool IncludeSerialNumber, out string SelectedPartNumber, out string SelectedSerialNumber, out string SelectedRevision, out Config.WATS_OperationType SelectedOpType, out bool Continue, SequenceContext SeqContext, string CustomText = "", string culture = "en", bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	Filter	Filter Part Numbers from server (e.g. "2%" will only look up PNs starting with 2)
System.Int32	TopCount	Max number of PNs returned from the server. (0=unlimited)
System.Boolean	FreePartnumber	If True, operator can edit the PN
System.Boolean	IncludeRevision	If True, operator can select Revision after selecting PN
System.Boolean	IncludeSerialNumber	If True, operator can type Serial Number (text box)

TYPE	NAME	DESCRIPTION
System.String	SelectedPartNumber	Returns Part Number
System.String	SelectedSerialNumber	Returns Serial Number
System.String	SelectedRevision	Returns Revision
Config.WATS_OperationType	SelectedOpType	Returns the selected test operation details
System.Boolean	Continue	True if the operator click OK
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	TS "ThisContext" ref
System.String	CustomText	Text will be displayed in the dialog window
System.String	culture	Language Culture Name (e.g. "zh-CN") (Translation Module)
System.Boolean	AlwaysOnTop	Dialog window always on top

isConnected(out Boolean)

Check connection to WATS MES Server

Declaration

```
public static bool isConnected(out bool isConnected)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	isConnected	True if the Client can access the WATS MES Server

Returns

TYPE	DESCRIPTION
System.Boolean	True if the Client can access the WATS MES Server

Class Production

Inheritance

System.Object
Production

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Teststand.MES](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public static class Production
```

Methods

GetUnitInfo(String, ref String, out String, out String, SequenceContext, String)

Get Unit information

Declaration

```
public static UnitInfo GetUnitInfo(string SerialNumber, ref string PartNumber, out string Revision, out string BatchNumber, SequenceContext SeqContext, string culture = "en")
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Input the units serial number
System.String	PartNumber	Optionally, input the units part number
System.String	Revision	Returns Unit Revision
System.String	BatchNumber	Returns Unit Batch Number
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	TS "ThisContext" ref
System.String	culture	Language Culture Name (e.g. "zh-CN") (Translation Module)

Returns

TYPE	DESCRIPTION
UnitInfo	UnitInfo object of identified unit

IdentifyUUT(out String, ref String, out String, out String, ref Config.WATS_OperationType, Boolean, Boolean, out Boolean, Boolean, SequenceContext, String, Boolean, String, Boolean, StatusEnum)

Dialog box allowing the operator to type/scan a serial number. The function will search MES for the unique Unit and display information and return values. (Function require IsSerialnumberUnique = True)

Declaration

```
public static UnitInfo IdentifyUUT(out string SerialNumber, ref string PartNumber, out string Revision, out string BatchNumber, ref Config.WATS_OperationType SelectedTestOperation, bool IncludeTestOperation, bool SelectTestOperation, out bool Continue, bool DisplayTreeView, SequenceContext SeqContext, string CustomText = "", bool AlwaysOnTop = true, string culture = "en", bool UseWorkflow = true, StatusEnum workflowDefinitionStatus = StatusEnum.Released)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Input the units serial number
System.String	PartNumber	Optionally, input the units part number
System.String	Revision	Returns Unit Revision
System.String	BatchNumber	Returns Unit Batch Number
Config.WATS_OperationType	SelectedTestOperation	Output if SelectTestOperation = True, Input to display Selected test operation
System.Boolean	IncludeTestOperation	If True, a text box/drop down list is displayed.
System.Boolean	SelectTestOperation	If True, operator can select test operation from a drop down list
System.Boolean	Continue	Stop or Continue execution
System.Boolean	DisplayTreeView	If True, the GUI will display a TreeView with Units "Consist of" information when you click search.

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	TS "ThisContext" ref
System.String	CustomText	Text will be displayed in the dialog window
System.Boolean	AlwaysOnTop	Dialog window always on top
System.String	culture	Language Culture Name (e.g. "zh-CN") (Translation Module)
System.Boolean	UseWorkflow	If True, the function executes a "Validate" query on the Unit. If the Validate reports False, the OK/Start button is disabled.
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	WorkflowDefinitionStatus

Returns

TYPE	DESCRIPTION
UnitInfo	UnitInfo object of identified unit

isConnected(out Boolean)

Check connection to WATS MES Server

Declaration

```
public static bool isConnected(out bool isConnected)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	isConnected	True if the Client can access the WATS MES Server

Returns

TYPE	DESCRIPTION
System.Boolean	True if the Client can access the WATS MES Server

Class Software

Inheritance

System.Object
Software

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Teststand.MES](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public static class Software
```

Methods

DeleteAllPackages(Boolean, String)

Method to clean file distribution root folder

Declaration

```
public static void DeleteAllPackages(bool PromptOperator = true, string culture = "en")
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	PromptOperator	Display a OK/Cancel dialog
System.String	culture	Translation code

DeleteRevokedPackages(Boolean, String)

Method to clean file distribution root folder

Declaration

```
public static void DeleteRevokedPackages(bool PromptOperator = true, string culture = "en")
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	PromptOperator	Display a OK/Cancel dialog

TYPE	NAME	DESCRIPTION
System.String	culture	Translation code

GetAvailablePackages(out Boolean, String)

Check server for new version of installed packages

Declaration

```
public static Package[] GetAvailablePackages(out bool PackagesAvailable, string culture = "en")
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	PackagesAvailable	boolean value if new packages exists
System.String	culture	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	Array of available packages

GetPackageByName(String, Boolean, Boolean, Boolean, Boolean, out Boolean, out Boolean, out String, out String[], out Boolean, SequenceContext, StatusEnum, String, String, Boolean)

Get Packages with a given name.

Declaration

```
public static Package GetPackageByName(string PackageName, bool Install, bool DisplayProgress, bool PromptOperator, bool WaitForExecution, out bool PackageFound, out bool TopLevelSequenceFound, out string SelectedTopLevelSequence, out string[] TopLevelSequences, out bool Continue, SequenceContext SeqContext, StatusEnum PackageStatus = StatusEnum.Released, string CustomText = "", string culture = "en", bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	PackageName	Package name to get
System.Boolean	Install	Install package?
System.Boolean	DisplayProgress	Display progressbar when getting files

TYPE	NAME	DESCRIPTION
System.Boolean	PromptOperator	Prompt operator if multiple toplevel sequences exists?
System.Boolean	WaitForExecution	Wait for for executed files to finish
System.Boolean	PackageFound	Boolean value indicating if a package was found or not
System.Boolean	TopLevelSequenceFound	If one or more files marked as top level sequences was found in the package
System.String	SelectedTopLevelSequence	Path to selected TopLevelSequence file
System.String[]	TopLevelSequences	Array of files beeing tagged as toplevel sequences
System.Boolean	Continue	Stop or continue execution
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get
System.String	CustomText	
System.String	culture	
System.Boolean	AlwaysOnTop	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package	

GetPackagesByTag(String[], String[], Boolean, Boolean, Boolean, Boolean, out Boolean, out Boolean, out String, out String[], out Boolean, SequenceContext, StatusEnum, String, String, Boolean)

Get Packages by array of tags.

Declaration

```
public static Package[] GetPackagesByTag(string[] tagNames, string[] tagValues, bool Install, bool
DisplayProgress, bool PromptOperator, bool WaitForExecution, out bool PackageFound, out bool
TopLevelSequenceFound, out string SelectedTopLevelSequence, out string[] TopLevelSequences, out bool Continue,
SequenceContext SeqContext, StatusEnum PackageStatus = StatusEnum.Released, string CustomText = "", string
culture = "en", bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	tagNames	Array of tags to match (the tag value should be located on identical index in the tagValues array)
System.String[]	tagValues	Array of tagvalues to match (the tag name should be placed on the identical index in the tagNames array)
System.Boolean	Install	Install package?
System.Boolean	DisplayProgress	Display progressbar when getting files
System.Boolean	PromptOperator	Prompt operator if multiple toplevel sequences exists?
System.Boolean	WaitForExecution	Wait for for executed files to finsish
System.Boolean	PackageFound	Boolean value indicating if a package was found or not
System.Boolean	TopLevelSequenceFound	If one or more files marked as top level sequences was found in the package
System.String	SelectedTopLevelSequence	Path to selected TopLevelSequence file
System.String[]	TopLevelSequences	Array of files beeing tagged as toplevel sequences
System.Boolean	Continue	Stop or continue execution
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	

TYPE	NAME	DESCRIPTION
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	Status of package to get
System.String	CustomText	
System.String	culture	
System.Boolean	AlwaysOnTop	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

GetPackagesByTagEx(String[], String[], Boolean, Boolean, Boolean, Boolean, out Boolean, out Boolean, out Boolean, out String, out String[], out Boolean, SequenceContext, StatusEnum, String, String, Boolean)

Declaration

```
public static Package[] GetPackagesByTagEx(string[] tagNames, string[] tagValues, bool Install, bool DisplayProgress, bool PromptOperator, bool WaitForExecution, out bool PackageFound, out bool PackagesExecutedFromLocalStore, out bool TopLevelSequenceFound, out string SelectedTopLevelSequence, out string[] TopLevelSequences, out bool Continue, SequenceContext SeqContext, StatusEnum PackageStatus = StatusEnum.Released, string CustomText = "", string culture = "en", bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	tagNames	
System.String[]	tagValues	
System.Boolean	Install	
System.Boolean	DisplayProgress	
System.Boolean	PromptOperator	
System.Boolean	WaitForExecution	
System.Boolean	PackageFound	
System.Boolean	PackagesExecutedFromLocalStore	
System.Boolean	TopLevelSequenceFound	
System.String	SelectedTopLevelSequence	
System.String[]	TopLevelSequences	
System.Boolean	Continue	

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	
Virinco.WATS.Service.MES.Contract.StatusEnum	PackageStatus	
System.String	CustomText	
System.String	culture	
System.Boolean	AlwaysOnTop	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

GetRevokedPackages(String[], String[], out Package, out Boolean, out String, out String[], out Boolean, SequenceContext)

Returns all versions of revoked packages with matching tags.

Declaration

```
public static Package[] GetRevokedPackages(string[] tagNames, string[] tagValues, out Package SelectedPackage,
out bool TopLevelSequenceFound, out string SelectedTopLevelSequence, out string[] TopLevelSequences, out bool
Continue, SequenceContext SeqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	tagNames	Tags to match
System.String[]	tagValues	Tagvalues to match
Virinco.WATS.Service.MES.Contract.Package	SelectedPackage	Selected Package
System.Boolean	TopLevelSequenceFound	If a top level sequence is found or not
System.String	SelectedTopLevelSequence	Path to top level sequence
System.String[]	TopLevelSequences	Array of toplevel sequence files
System.Boolean	Continue	If execution should continue or not

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	

Returns

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	Array of revoked packages

isConnected(out Boolean)

Boolean value indicating connection to MES

Declaration

```
public static bool isConnected(out bool isConnected)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	isConnected	

Returns

TYPE	DESCRIPTION
System.Boolean	

Class Workflow

Inheritance

System.Object
Workflow

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [Virinco.WATS.Teststand.MES](#)
Assembly: WATS_Teststand_Support.dll

Syntax

```
public static class Workflow
```

Methods

EndTest(String, String, String, ActivityTestResult, Boolean, Boolean, out String, out WorkflowInstanceStatus, out ActivityType, out String, out String, SequenceContext, StatusEnum, String, Boolean)

Declaration

```
public static bool EndTest(string SerialNumber, string PartNumber, string Operation, ActivityTestResult Result, bool forceExit, bool promptOperator, out string ErrorMessage, out WorkflowInstanceStatus wfStatus, out ActivityType activityType, out string Process, out string Description, SequenceContext SeqContext, StatusEnum workflowDefinitionStatus = StatusEnum.Released, string culture = "en", bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	Operation	
Virinco.WATS.Service.MES.Contract.ActivityTestResult	Result	
System.Boolean	forceExit	
System.Boolean	promptOperator	
System.String	ErrorMessage	
Virinco.WATS.Service.MES.Contract.WorkflowInstanceStatus	wfStatus	
Virinco.WATS.Service.MES.Contract.ActivityType	activityType	
System.String	Process	
System.String	Description	
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	

TYPE	NAME	DESCRIPTION
System.String	culture	
System.Boolean	AlwaysOnTop	

Returns

TYPE	DESCRIPTION
System.Boolean	

GetCustomValue(String)

Declaration

```
public static object GetCustomValue(string key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	

Returns

TYPE	DESCRIPTION
System.Object	

GetCustomValueDbl(String)

Declaration

```
public static double GetCustomValueDbl(string key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	

Returns

TYPE	DESCRIPTION
System.Double	

Initialize(String, String, out String, Boolean, SequenceContext, StatusEnum, String, Boolean)

Declaration

```
public static bool Initialize(string SerialNumber, string PartNumber, out string ErrorMessage, bool promptOperator, SequenceContext SeqContext, StatusEnum workflowDefinitionStatus = StatusEnum.Released, string culture = "en", bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	ErrorMessage	

TYPE	NAME	DESCRIPTION
System.Boolean	promptOperator	
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	
System.String	culture	
System.Boolean	AlwaysOnTop	

Returns

TYPE	DESCRIPTION
System.Boolean	

isConnected(out Boolean)

Boolean value indicating connection to MES

Declaration

```
public static bool isConnected(out bool isConnected)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	isConnected	

Returns

TYPE	DESCRIPTION
System.Boolean	

SetCustomValue(String, Object)

Declaration

```
public static void SetCustomValue(string key, object value)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	key	
System.Object	value	

StartTest(String, String, String, Boolean, out String, out WorkflowInstanceStatus, out ActivityType, out String, out String, out Int32, out Int32, out ActivityTestResult, SequenceContext, StatusEnum, String, Boolean)

Start test operation if workflow is attached and valid to go

Declaration

```
public static bool StartTest(string SerialNumber, string PartNumber, string Operation, bool promptOperator, out string ErrorMessage, out WorkflowInstanceStatus wfStatus, out ActivityType activityType, out string Process, out string Description, out int testCount, out int maxFailCount, out ActivityTestResult lastTestResult, SequenceContext SeqContext, StatusEnum workflowDefinitionStatus = StatusEnum.Released, string culture = "en", bool AlwaysOnTop = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	Serial number
System.String	PartNumber	Part number (optional)
System.String	Operation	Name of Workflow Activity (Operation Type, Process/
System.Boolean	promptOperator	True if the API should provide user interface
System.String	ErrorMessage	The error message if function returns false. It can also contain info if function returns true
Virinco.WATS.Service.MES.Contract.WorkflowInstanceStatus	wfStatus	Workflow Instance StatusVirinco.WATS.Service.MES.Contract.WorkflowInstanceStatus
Virinco.WATS.Service.MES.Contract.ActivityType	activityType	Next activity typeVirinco.WATS.Service.MES.Contract.ActivityType
System.String	Process	Next Process
System.String	Description	Next Process description
System.Int32	testCount	How many times test has been run so far (counted on EndTest)
System.Int32	maxFailCount	How many times test are allowed to fail
Virinco.WATS.Service.MES.Contract.ActivityTestResult	lastTestResult	Last test result
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	Witch version of workflow to use Virinco.WATS.Service.MES.Contract.StatusEnum default is Released
System.String	culture	Culture code for wanted language (default is English, en)
System.Boolean	AlwaysOnTop	If true, dialog is always on top

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
System.Boolean	true if it is ok to start test

Validate(String, String, out String, out WorkflowInstanceStatus, out ActivityType, out String, out String, SequenceContext, StatusEnum, String, Boolean)

Declaration

```
public static bool Validate(string SerialNumber, string PartNumber, out string ErrorMessage, out WorkflowInstanceStatus wfStatus, out ActivityType activityType, out string Process, out string Description, SequenceContext SeqContext, StatusEnum workflowDefinitionStatus = StatusEnum.Released, string culture = "en", bool generateImage = false)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	SerialNumber	
System.String	PartNumber	
System.String	ErrorMessage	
Virinco.WATS.Service.MES.Contract.WorkflowInstanceStatus	wfStatus	
Virinco.WATS.Service.MES.Contract.ActivityType	activityType	
System.String	Process	
System.String	Description	
NationalInstruments.TestStand.Interop.API.SequenceContext	SeqContext	
Virinco.WATS.Service.MES.Contract.StatusEnum	workflowDefinitionStatus	
System.String	culture	
System.Boolean	generateImage	

Returns

TYPE	DESCRIPTION
System.Boolean	

Namespace WATS_Teststand_Support

Classes

[Config](#)

[TeststandUtils](#)

[WATS_AttachFile](#)

[WATS_MultiPassFail](#)

[WATS_MultiStringValue](#)

[WATS_SequenceCall](#)

[WATS_SetOpType](#)

[WATS_UUTReport](#)

[WATS_UUTReport.SaveOptions](#)

[WATS_UUTReport.SaveResult](#)

[WATS_XYGraphNumericLimit](#)

Structs

[Config.WATS_OperationType](#)

Class Config

Inheritance

System.Object
Config

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public static class Config
```

Methods

GetGeneralOptions(out String[], out Boolean[], out Int32[], String[], String[], String[])

Read the GeneralOptions.config file.

Declaration

```
public static void GetGeneralOptions(out string[] stringValues, out bool[] boolValues, out int[] numberValues, string[] stringKeys = null, string[] boolKeys = null, string[] numberKeys = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String[]	stringValues	Returns an array of string values defined in "stringKeys"
System.Boolean[]	boolValues	Returns an array of Boolean values defined in "boolKeys"
System.Int32[]	numberValues	Returns an array of Numeric values defined in "numberKeys"
System.String[]	stringKeys	Define what keys to read from the file containing a String value
System.String[]	boolKeys	Define what keys to read from the file containing a Boolean value
System.String[]	numberKeys	Define what keys to read from the file containing a Numeric value

GetOperationTypes()

Get WATS Test Operations (Process)

Declaration

```
public static Config.WATS_OperationType[] GetOperationTypes()
```

Returns

TYPE	DESCRIPTION
Config.WATS_OperationType[]	Returns a struct array of available Test Operations. Compatible with the WATS_OperationType data type. (See PreUUT as an example)

GetWatsStationInfo(out String, out String)

Returns teststation's Location and Purpose configured in WATS Client Configurator

Declaration

```
public static void GetWatsStationInfo(out string location, out string purpose)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	location	Returns the location defined in the configurator
System.String	purpose	Returns the purpose defined in the configurator

Remarks

This overload is depreciated, consider using `GetWatsStationInfo(out string, out string, out string, out string)` instead

See Also

[GetWatsStationInfo\(out String, out String, out String, out String\)](#)

GetWatsStationInfo(out String, out String, out String, out String)

Location, Purpose, Guid, Computer (Windows) name

Declaration

```
public static void GetWatsStationInfo(out string location, out string purpose, out string computername, out string memberguid)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	location	Returns the location defined in the configurator
System.String	purpose	Returns the purpose defined in the configurator
System.String	computername	Returns the Windows computer name

TYPE	NAME	DESCRIPTION
System.String	memberguid	Returns the WATS Client GUID

IsMESEnabled(out Boolean)

Value indicating if MES is enabled or not

Declaration

```
public static bool IsMESEnabled(out bool enabled)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	enabled	

Returns

TYPE	DESCRIPTION
System.Boolean	

SetOperatorName(String)

Sets operator name to be used for logging

Declaration

```
public static void SetOperatorName(string operatorName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	operatorName	User name

Struct Config.WATS_OperationType

Inherited Members

- System.ValueType.Equals(System.Object)
- System.ValueType.GetHashCode()
- System.ValueType.ToString()
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetType()

Namespace: [WATS_Teststand_Support](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public struct WATS_OperationType
```

Fields

OpTypeCodeGUID

Declaration

```
public string OpTypeCodeGUID
```

Field Value

TYPE	DESCRIPTION
System.String	

OpTypeCodeInt

Declaration

```
public int OpTypeCodeInt
```

Field Value

TYPE	DESCRIPTION
System.Int32	

OpTypeCodeString

Declaration

```
public string OpTypeCodeString
```

Field Value

TYPE	DESCRIPTION
System.String	

OpTypeDescription

Declaration

```
public string OpTypeDescription
```

Field Value

TYPE	DESCRIPTION
System.String	

OpTypeName

Declaration

```
public string OpTypeName
```

Field Value

TYPE	DESCRIPTION
System.String	

Class TeststandUtils

Inheritance

System.Object

TeststandUtils

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public static class TeststandUtils
```

Class WATS_AttachFile

Inheritance

System.Object
WATS_AttachFile

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)
Assembly: WATS_Teststand_Support.dll

Syntax

```
public class WATS_AttachFile
```

Methods

EditStep(SequenceContext)

Declaration

```
public void EditStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

PostStep(SequenceContext)

Executed after AttachStep. Copies a file to a temporary directory and deletes original if set as step option. The copy from temp file to database is done in the stored procedure InsertAttachStep

Declaration

```
public void PostStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	Sequence context from TestStand

Class WATS_MultiPassFail

Inheritance

System.Object
WATS_MultiPassFail

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public class WATS_MultiPassFail
```

Methods

EditStep(SequenceContext)

Declaration

```
public void EditStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

PostStep(SequenceContext)

Declaration

```
public void PostStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

Class WATS_MultiStringValue

Inheritance

System.Object
WATS_MultiStringValue

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)
Assembly: WATS_Teststand_Support.dll

Syntax

```
public class WATS_MultiStringValue
```

Methods

EditStep(SequenceContext)

Declaration

```
public void EditStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

EditStepEx(SequenceContext)

Declaration

```
public void EditStepEx(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

PostStep(SequenceContext)

Declaration

```
public void PostStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

PostStepEx(SequenceContext)

Declaration

```
public void PostStepEx(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

Class WATS_SequenceCall

Inheritance

System.Object
WATS_SequenceCall

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)
Assembly: WATS_Teststand_Support.dll

Syntax

```
public class WATS_SequenceCall
```

Methods

PostStep(SequenceContext)

Declaration

```
public void PostStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

Class WATS_SetOpType

Inheritance

System.Object
WATS_SetOpType

Inherited Members

- System.Object.ToString()
- System.Object.Equals(System.Object)
- System.Object.Equals(System.Object, System.Object)
- System.Object.ReferenceEquals(System.Object, System.Object)
- System.Object.GetHashCode()
- System.Object.GetType()
- System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public class WATS_SetOpType
```

Methods

EditStep(SequenceContext)

Declaration

```
public void EditStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

Class WATS_UUTReport

Inheritance

System.Object
WATS_UUTReport

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)
Assembly: WATS_Teststand_Support.dll

Syntax

```
public class WATS_UUTReport
```

Methods

Save(SequenceContext)

Saves the UUT for sending to server

Declaration

```
public static void Save(SequenceContext ctx)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	ctx	The Teststand Sequence Reporting context object

Save(SequenceContext, out String, out Int32)

Saves the UUT for sending to server

Declaration

```
public static void Save(SequenceContext ctx, out string ReportGUID, out int StepOrderNumberCausedSequenceFailure)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	ctx	The Teststand Sequence Reporting context object
System.String	ReportGUID	Output parameter returning the Report unique identifier

TYPE	NAME	DESCRIPTION
System.Int32	StepOrderNumberCausedSequenceFailure	Output parameter returning the expected step order number for the step that caused the Sequence to fail. Returns -1 if not found.

Save(SequenceContext, WATS_UUTReport.SaveOptions)

Saves the UUT for sending to server

Declaration

```
public static WATS_UUTReport.SaveResult Save(SequenceContext ctx, WATS_UUTReport.SaveOptions options)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	ctx	The Teststand Sequence Reporting context object
WATS_UUTReport.SaveOptions	options	A SaveOptions parameter object

Returns

TYPE	DESCRIPTION
WATS_UUTReport.SaveResult	Returns a SaveResult object with requested

Class WATS_UUTReport.SaveOptions

Inheritance

System.Object
WATS_UUTReport.SaveOptions

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)
Assembly: WATS_Teststand_Support.dll

Syntax

```
public class SaveOptions
```

Fields

FindStepOrderNumberCausedSequenceFailure

Set this property to true to Locate the step that caused the sequence to fail. The save method use StepCausedSequenceFailure to find the leaf level or root cause of a failure.

Declaration

```
public bool FindStepOrderNumberCausedSequenceFailure
```

Field Value

TYPE	DESCRIPTION
System.Boolean	

Class WATS_UUTReport.SaveResult

Inheritance

System.Object
WATS_UUTReport.SaveResult

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)
Assembly: WATS_Teststand_Support.dll

Syntax

```
public class SaveResult
```

Properties

Operation

Declaration

```
public Config.WATS_OperationType Operation { get; }
```

Property Value

TYPE	DESCRIPTION
Config.WATS_OperationType	

ReportId

Declaration

```
public Guid ReportId { get; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

StepOrderNumberCausedSequenceFailure

Declaration

```
public int? StepOrderNumberCausedSequenceFailure { get; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Int32>	

Class WATS_XYGraphNumericLimit

Inheritance

System.Object
WATS_XYGraphNumericLimit

Inherited Members

System.Object.ToString()
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support](#)
Assembly: WATS_Teststand_Support.dll

Syntax

```
public class WATS_XYGraphNumericLimit
```

Constructors

WATS_XYGraphNumericLimit()

Declaration

```
public WATS_XYGraphNumericLimit()
```

Methods

EditStep(SequenceContext)

Declaration

```
public void EditStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

PostStep(SequenceContext)

Declaration

```
public void PostStep(SequenceContext seqContext)
```

Parameters

TYPE	NAME	DESCRIPTION
NationalInstruments.TestStand.Interop.API.SequenceContext	seqContext	

Namespace WATS_Teststand_Support.Forms

Classes

[PackageManager](#)

Class PackageManager

Inheritance

System.Object
System.MarshalByRefObject
System.ComponentModel.Component
System.Windows.Forms.Control
System.Windows.Forms.ScrollableControl
System.Windows.Forms.ContainerControl
System.Windows.Forms.Form
PackageManager

Implements

System.Windows.Forms.IDropTarget
System.ComponentModel.ISynchronizeInvoke
System.Windows.Forms.IWin32Window
System.Windows.Forms.IBindableComponent
System.ComponentModel.IComponent
System.IDisposable
System.Windows.Forms.IContainerControl

Inherited Members

System.Windows.Forms.Form.SetVisibleCore(System.Boolean)
System.Windows.Forms.Form.Activate()
System.Windows.Forms.Form.ActivateMdiChild(System.Windows.Forms.Form)
System.Windows.Forms.Form.AddOwnedForm(System.Windows.Forms.Form)
System.Windows.Forms.Form.AdjustFormScrollbars(System.Boolean)
System.Windows.Forms.Form.Close()
System.Windows.Forms.Form.CreateControlsInstance()
System.Windows.Forms.Form.CreateHandle()
System.Windows.Forms.Form.DefWndProc(System.Windows.Forms.Message)
System.Windows.Forms.Form.ProcessMnemonic(System.Char)
System.Windows.Forms.Form.CenterToParent()
System.Windows.Forms.Form.CenterToScreen()
System.Windows.Forms.Form.LayoutMdi(System.Windows.Forms.MdiLayout)
System.Windows.Forms.Form.OnActivated(System.EventArgs)
System.Windows.Forms.Form.OnBackgroundImageChanged(System.EventArgs)
System.Windows.Forms.Form.OnBackgroundImageLayoutChanged(System.EventArgs)
System.Windows.Forms.Form.OnClosing(System.ComponentModel.CancelEventArgs)
System.Windows.Forms.Form.OnClosed(System.EventArgs)
System.Windows.Forms.Form.OnFormClosing(System.Windows.Forms.FormClosingEventArgs)
System.Windows.Forms.Form.OnFormClosed(System.Windows.Forms.FormClosedEventArgs)
System.Windows.Forms.Form.OnCreateControl()
System.Windows.Forms.Form.OnDeactivate(System.EventArgs)
System.Windows.Forms.Form.OnEnabledChanged(System.EventArgs)
System.Windows.Forms.Form.OnEnter(System.EventArgs)
System.Windows.Forms.Form.OnFontChanged(System.EventArgs)
System.Windows.Forms.Form.OnHandleCreated(System.EventArgs)
System.Windows.Forms.Form.OnHandleDestroyed(System.EventArgs)
System.Windows.Forms.Form.OnHelpButtonClicked(System.ComponentModel.CancelEventArgs)
System.Windows.Forms.Form.OnLayout(System.Windows.Forms.LayoutEventArgs)
System.Windows.Forms.Form.OnLoad(System.EventArgs)
System.Windows.Forms.Form.OnMaximizedBoundsChanged(System.EventArgs)
System.Windows.Forms.Form.OnMaximumSizeChanged(System.EventArgs)
System.Windows.Forms.Form.OnMinimumSizeChanged(System.EventArgs)

System.Windows.Forms.Form.OnInputLanguageChanged(System.Windows.Forms.InputLanguageChangedEventArgs)
System.Windows.Forms.Form.OnInputLanguageChanging(System.Windows.Forms.InputLanguageChangingEventArgs)
System.Windows.Forms.Form.OnVisibleChanged(System.EventArgs)
System.Windows.Forms.Form.OnMdiChildActivate(System.EventArgs)
System.Windows.Forms.Form.OnMenuStart(System.EventArgs)
System.Windows.Forms.Form.OnMenuComplete(System.EventArgs)
System.Windows.Forms.Form.OnPaint(System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.Form.OnResize(System.EventArgs)
System.Windows.Forms.Form.OnRightToLeftLayoutChanged(System.EventArgs)
System.Windows.Forms.Form.OnShown(System.EventArgs)
System.Windows.Forms.Form.OnTextChanged(System.EventArgs)
System.Windows.Forms.Form.ProcessCmdKey(System.Windows.Forms.Message, System.Windows.Forms.Keys)
System.Windows.Forms.Form.ProcessDialogKey(System.Windows.Forms.Keys)
System.Windows.Forms.Form.ProcessDialogChar(System.Char)
System.Windows.Forms.Form.ProcessKeyPreview(System.Windows.Forms.Message)
System.Windows.Forms.Form.ProcessTabKey(System.Boolean)
System.Windows.Forms.Form.RemoveOwnedForm(System.Windows.Forms.Form)
System.Windows.Forms.Form.Select(System.Boolean, System.Boolean)
System.Windows.Forms.Form.GetScaledBounds(System.Drawing.Rectangle, System.Drawing.SizeF,
System.Windows.Forms.BoundsSpecified)
System.Windows.Forms.Form.ScaleControl(System.Drawing.SizeF, System.Windows.Forms.BoundsSpecified)
System.Windows.Forms.Form.SetBoundsCore(System.Int32, System.Int32, System.Int32, System.Int32,
System.Windows.Forms.BoundsSpecified)
System.Windows.Forms.Form.SetClientSizeCore(System.Int32, System.Int32)
System.Windows.Forms.Form.SetDesktopBounds(System.Int32, System.Int32, System.Int32, System.Int32)
System.Windows.Forms.Form.SetDesktopLocation(System.Int32, System.Int32)
System.Windows.Forms.Form.Show(System.Windows.Forms.IWin32Window)
System.Windows.Forms.Form.ShowDialog()
System.Windows.Forms.Form.ShowDialog(System.Windows.Forms.IWin32Window)
System.Windows.Forms.Form.ToString()
System.Windows.Forms.Form.UpdateDefaultButton()
System.Windows.Forms.Form.OnResizeBegin(System.EventArgs)
System.Windows.Forms.Form.OnResizeEnd(System.EventArgs)
System.Windows.Forms.Form.OnStyleChanged(System.EventArgs)
System.Windows.Forms.Form.ValidateChildren()
System.Windows.Forms.Form.ValidateChildren(System.Windows.Forms.ValidationConstraints)
System.Windows.Forms.Form.WndProc(System.Windows.Forms.Message)
System.Windows.Forms.Form.AcceptButton
System.Windows.Forms.Form.ActiveForm
System.Windows.Forms.Form.ActiveMdiChild
System.Windows.Forms.Form.AllowTransparency
System.Windows.Forms.Form.AutoScroll
System.Windows.Forms.Form.AutoSize
System.Windows.Forms.Form.AutoSizeMode
System.Windows.Forms.Form.AutoValidate
System.Windows.Forms.Form.BackColor
System.Windows.Forms.Form.FormBorderStyle
System.Windows.Forms.Form.CancelButton
System.Windows.Forms.Form.ClientSize
System.Windows.Forms.Form.ControlBox
System.Windows.Forms.Form.CreateParams
System.Windows.Forms.Form.DefaultImeMode
System.Windows.Forms.Form.DefaultSize
System.Windows.Forms.Form.DesktopBounds

System.Windows.Forms.Form.DesktopLocation
System.Windows.Forms.Form.DialogResult
System.Windows.Forms.Form.HelpButton
System.Windows.Forms.Form.Icon
System.Windows.Forms.Form.IsMdiChild
System.Windows.Forms.Form.IsMdiContainer
System.Windows.Forms.Form.IsRestrictedWindow
System.Windows.Forms.Form.KeyPreview
System.Windows.Forms.Form.Location
System.Windows.Forms.Form.MaximizedBounds
System.Windows.Forms.Form.MaximumSize
System.Windows.Forms.Form.MainMenuStrip
System.Windows.Forms.Form.Menu
System.Windows.Forms.Form.MinimumSize
System.Windows.Forms.Form.MaximizeBox
System.Windows.Forms.Form.MdiChildren
System.Windows.Forms.Form.MdiParent
System.Windows.Forms.Form.MergedMenu
System.Windows.Forms.Form.MinimizeBox
System.Windows.Forms.Form.Modal
System.Windows.Forms.Form.Opacity
System.Windows.Forms.Form.OwnedForms
System.Windows.Forms.Form.Owner
System.Windows.Forms.Form.RestoreBounds
System.Windows.Forms.Form.RightToLeftLayout
System.Windows.Forms.Form.ShowInTaskbar
System.Windows.Forms.Form.ShowIcon
System.Windows.Forms.Form.ShowWithoutActivation
System.Windows.Forms.Form.Size
System.Windows.Forms.Form.SizeGripStyle
System.Windows.Forms.Form.StartPosition
System.Windows.Forms.Form.Text
System.Windows.Forms.Form.TopLevel
System.Windows.Forms.Form.TopMost
System.Windows.Forms.Form.TransparencyKey
System.Windows.Forms.Form.WindowState
System.Windows.Forms.Form.AutoSizeChanged
System.Windows.Forms.Form.AutoValidateChanged
System.Windows.Forms.Form.HelpButtonClicked
System.Windows.Forms.Form.MaximizedBoundsChanged
System.Windows.Forms.Form.MaximumSizeChanged
System.Windows.Forms.Form.MinimumSizeChanged
System.Windows.Forms.Form.Activated
System.Windows.Forms.Form.Deactivate
System.Windows.Forms.Form.FormClosing
System.Windows.Forms.Form.FormClosed
System.Windows.Forms.Form.Load
System.Windows.Forms.Form.MdiChildActivate
System.Windows.Forms.Form.MenuComplete
System.Windows.Forms.Form.MenuStart
System.Windows.Forms.Form.InputLanguageChanged
System.Windows.Forms.Form.InputLanguageChanging
System.Windows.Forms.Form.RightToLeftLayoutChanged
System.Windows.Forms.Form.Shown

System.Windows.Forms.Form.ResizeBegin
System.Windows.Forms.Form.ResizeEnd
System.Windows.Forms.ContainerControl.System.Windows.Forms.IContainerControl.ActivateControl(System.Windows.Forms.Control)
System.Windows.Forms.ContainerControl.OnAutoValidateChanged(System.EventArgs)
System.Windows.Forms.ContainerControl.OnParentChanged(System.EventArgs)
System.Windows.Forms.ContainerControl.PerformAutoScale()
System.Windows.Forms.ContainerControl.Validate()
System.Windows.Forms.ContainerControl.Validate(System.Boolean)
System.Windows.Forms.ContainerControl.AutoScaleDimensions
System.Windows.Forms.ContainerControl.AutoScaleFactor
System.Windows.Forms.ContainerControl.AutoScaleMode
System.Windows.Forms.ContainerControl.BindingContext
System.Windows.Forms.ContainerControl.CanEnableIme
System.Windows.Forms.ContainerControl.ActiveControl
System.Windows.Forms.ContainerControl.CurrentAutoScaleDimensions
System.Windows.Forms.ContainerControl.ParentForm
System.Windows.Forms.ScrollableControl.ScrollStateAutoScrolling
System.Windows.Forms.ScrollableControl.ScrollStateHScrollVisible
System.Windows.Forms.ScrollableControl.ScrollStateVScrollVisible
System.Windows.Forms.ScrollableControl.ScrollStateUserHasScrolled
System.Windows.Forms.ScrollableControl.ScrollStateFullDrag
System.Windows.Forms.ScrollableControl.GetScrollState(System.Int32)
System.Windows.Forms.ScrollableControl.OnMouseWheel(System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.ScrollableControl.OnRightToLeftChanged(System.EventArgs)
System.Windows.Forms.ScrollableControl.OnPaintBackground(System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.ScrollableControl.OnPaddingChanged(System.EventArgs)
System.Windows.Forms.ScrollableControl.SetDisplayRectLocation(System.Int32, System.Int32)
System.Windows.Forms.ScrollableControl.ScrollControlIntoView(System.Windows.Forms.Control)
System.Windows.Forms.ScrollableControl.ScrollToControl(System.Windows.Forms.Control)
System.Windows.Forms.ScrollableControl.OnScroll(System.Windows.Forms.ScrollEventArgs)
System.Windows.Forms.ScrollableControl.SetAutoScrollMargin(System.Int32, System.Int32)
System.Windows.Forms.ScrollableControl.SetScrollState(System.Int32, System.Boolean)
System.Windows.Forms.ScrollableControl.AutoScrollMargin
System.Windows.Forms.ScrollableControl.AutoScrollPosition
System.Windows.Forms.ScrollableControl.AutoScrollMinSize
System.Windows.Forms.ScrollableControl.DisplayRectangle
System.Windows.Forms.ScrollableControl.HScroll
System.Windows.Forms.ScrollableControl.HorizontalScroll
System.Windows.Forms.ScrollableControl.VScroll
System.Windows.Forms.ScrollableControl.VerticalScroll
System.Windows.Forms.ScrollableControl.Scroll
System.Windows.Forms.Control.GetAccessibilityObjectById(System.Int32)
System.Windows.Forms.Control.SetAutoSizeMode(System.Windows.Forms.AutoSizeMode)
System.Windows.Forms.Control.GetAutoSizeMode()
System.Windows.Forms.Control.GetPreferredSize(System.Drawing.Size)
System.Windows.Forms.Control.AccessibilityNotifyClients(System.Windows.Forms.AccessibleEvents, System.Int32)
System.Windows.Forms.Control.AccessibilityNotifyClients(System.Windows.Forms.AccessibleEvents, System.Int32, System.Int32)
System.Windows.Forms.Control.BeginInvoke(System.Delegate)
System.Windows.Forms.Control.BeginInvoke(System.Delegate, System.Object[])
System.Windows.Forms.Control.BringToFront()
System.Windows.Forms.Control.Contains(System.Windows.Forms.Control)
System.Windows.Forms.Control.CreateAccessibilityInstance()
System.Windows.Forms.Control.CreateGraphics()
System.Windows.Forms.Control.CreateControl()

System.Windows.Forms.Control.DestroyHandle()
System.Windows.Forms.Control.DoDragDrop(System.Object, System.Windows.Forms.DragDropEffects)
System.Windows.Forms.Control.DrawToBitmap(System.Drawing.Bitmap, System.Drawing.Rectangle)
System.Windows.Forms.Control.EndInvoke(System.IAsyncResult)
System.Windows.Forms.Control.FindForm()
System.Windows.Forms.Control.GetTopLevel()
System.Windows.Forms.Control.RaiseKeyEvent(System.Object, System.Windows.Forms.KeyEventArgs)
System.Windows.Forms.Control.RaiseMouseEvent(System.Object, System.Windows.Forms.MouseEventArgs)
System.Windows.Forms.Control.Focus()
System.Windows.Forms.Control.FromChildHandle(System.IntPtr)
System.Windows.Forms.Control.FromHandle(System.IntPtr)
System.Windows.Forms.Control.GetChildAtPoint(System.Drawing.Point, System.Windows.Forms.GetChildAtPointSkip)
System.Windows.Forms.Control.GetChildAtPoint(System.Drawing.Point)
System.Windows.Forms.Control.GetContainerControl()
System.Windows.Forms.Control.GetNextControl(System.Windows.Forms.Control, System.Boolean)
System.Windows.Forms.Control.GetStyle(System.Windows.Forms.ControlStyles)
System.Windows.Forms.Control.Hide()
System.Windows.Forms.Control.InitLayout()
System.Windows.Forms.Control.Invalidate(System.Drawing.Region)
System.Windows.Forms.Control.Invalidate(System.Drawing.Region, System.Boolean)
System.Windows.Forms.Control.Invalidate()
System.Windows.Forms.Control.Invalidate(System.Boolean)
System.Windows.Forms.Control.Invalidate(System.Drawing.Rectangle)
System.Windows.Forms.Control.Invalidate(System.Drawing.Rectangle, System.Boolean)
System.Windows.Forms.Control.Invoke(System.Delegate)
System.Windows.Forms.Control.Invoke(System.Delegate, System.Object[])
System.Windows.Forms.Control.InvokePaint(System.Windows.Forms.Control, System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.Control.InvokePaintBackground(System.Windows.Forms.Control, System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.Control.IsKeyLocked(System.Windows.Forms.Keys)
System.Windows.Forms.Control.IsInputChar(System.Char)
System.Windows.Forms.Control.IsInputKey(System.Windows.Forms.Keys)
System.Windows.Forms.Control.IsMnemonic(System.Char, System.String)
System.Windows.Forms.Control.NotifyInvalidate(System.Drawing.Rectangle)
System.Windows.Forms.Control.InvokeOnClick(System.Windows.Forms.Control, System.EventArgs)
System.Windows.Forms.Control.OnAutoSizeChanged(System.EventArgs)
System.Windows.Forms.Control.OnBackColorChanged(System.EventArgs)
System.Windows.Forms.Control.OnBindingContextChanged(System.EventArgs)
System.Windows.Forms.Control.OnCausesValidationChanged(System.EventArgs)
System.Windows.Forms.Control.OnContextMenuChanged(System.EventArgs)
System.Windows.Forms.Control.OnContextMenuStripChanged(System.EventArgs)
System.Windows.Forms.Control.OnCursorChanged(System.EventArgs)
System.Windows.Forms.Control.OnDockChanged(System.EventArgs)
System.Windows.Forms.Control.OnForeColorChanged(System.EventArgs)
System.Windows.Forms.Control.OnNotifyMessage(System.Windows.Forms.Message)
System.Windows.Forms.Control.OnParentBackColorChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentBackgroundImageChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentBindingContextChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentCursorChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentEnabledChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentFontChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentForeColorChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentRightToLeftChanged(System.EventArgs)
System.Windows.Forms.Control.OnParentVisibleChanged(System.EventArgs)
System.Windows.Forms.Control.OnPrint(System.Windows.Forms.PaintEventArgs)

System.Windows.Forms.Control.OnTabIndexChanged(System.EventArgs)
System.Windows.Forms.Control.OnTabStopChanged(System.EventArgs)
System.Windows.Forms.Control.OnClick(System.EventArgs)
System.Windows.Forms.Control.OnClientSizeChanged(System.EventArgs)
System.Windows.Forms.Control.OnControlAdded(System.Windows.Forms.ControlEventArgs)
System.Windows.Forms.Control.OnControlRemoved(System.Windows.Forms.ControlEventArgs)
System.Windows.Forms.Control.OnLocationChanged(System.EventArgs)
System.Windows.Forms.Control.OnDoubleClick(System.EventArgs)
System.Windows.Forms.Control.OnDragEnter(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.OnDragOver(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.OnDragLeave(System.EventArgs)
System.Windows.Forms.Control.OnDragDrop(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.OnGiveFeedback(System.Windows.Forms.GiveFeedbackEventArgs)
System.Windows.Forms.Control.InvokeGotFocus(System.Windows.Forms.Control, System.EventArgs)
System.Windows.Forms.Control.OnGotFocus(System.EventArgs)
System.Windows.Forms.Control.OnHelpRequested(System.Windows.Forms.HelpEventArgs)
System.Windows.Forms.Control.OnInvalidated(System.Windows.Forms.InvalidateEventArgs)
System.Windows.Forms.Control.OnKeyDown(System.Windows.Forms.KeyEventArgs)
System.Windows.Forms.Control.OnKeyPress(System.Windows.Forms.KeyPressEventArgs)
System.Windows.Forms.Control.OnKeyUp(System.Windows.Forms.KeyEventArgs)
System.Windows.Forms.Control.OnLeave(System.EventArgs)
System.Windows.Forms.Control.InvokeLostFocus(System.Windows.Forms.Control, System.EventArgs)
System.Windows.Forms.Control.OnLostFocus(System.EventArgs)
System.Windows.Forms.Control.OnMarginChanged(System.EventArgs)
System.Windows.Forms.Control.OnMouseDoubleClick(System.Windows.Forms.MouseEventHandler)
System.Windows.Forms.Control.OnMouseClick(System.Windows.Forms.MouseEventHandler)
System.Windows.Forms.Control.OnMouseCaptureChanged(System.EventArgs)
System.Windows.Forms.Control.OnMouseDown(System.Windows.Forms.MouseEventHandler)
System.Windows.Forms.Control.OnMouseEnter(System.EventArgs)
System.Windows.Forms.Control.OnMouseLeave(System.EventArgs)
System.Windows.Forms.Control.OnMouseHover(System.EventArgs)
System.Windows.Forms.Control.OnMouseMove(System.Windows.Forms.MouseEventHandler)
System.Windows.Forms.Control.OnMouseUp(System.Windows.Forms.MouseEventHandler)
System.Windows.Forms.Control.OnMove(System.EventArgs)
System.Windows.Forms.Control.OnQueryContinueDrag(System.Windows.Forms.QueryContinueDragEventArgs)
System.Windows.Forms.Control.OnRegionChanged(System.EventArgs)
System.Windows.Forms.Control.OnPreviewKeyDown(System.Windows.Forms.PreviewKeyDownEventArgs)
System.Windows.Forms.Control.OnSizeChanged(System.EventArgs)
System.Windows.Forms.Control.OnChangeUICues(System.Windows.Forms.UICuesEventArgs)
System.Windows.Forms.Control.OnSystemColorsChanged(System.EventArgs)
System.Windows.Forms.Control.OnValidating(System.ComponentModel.CancelEventArgs)
System.Windows.Forms.Control.OnValidated(System.EventArgs)
System.Windows.Forms.Control.PerformLayout()
System.Windows.Forms.Control.PerformLayout(System.Windows.Forms.Control, System.String)
System.Windows.Forms.Control.PointToClient(System.Drawing.Point)
System.Windows.Forms.Control.PointToScreen(System.Drawing.Point)
System.Windows.Forms.Control.PreProcessMessage(System.Windows.Forms.Message)
System.Windows.Forms.Control.PreProcessControlMessage(System.Windows.Forms.Message)
System.Windows.Forms.Control.ProcessKeyEventArgs(System.Windows.Forms.Message)
System.Windows.Forms.Control.ProcessKeyMessage(System.Windows.Forms.Message)
System.Windows.Forms.Control.RaiseDragEvent(System.Object, System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.RaisePaintEvent(System.Object, System.Windows.Forms.PaintEventArgs)
System.Windows.Forms.Control.RecreateHandle()
System.Windows.Forms.Control.RectangleToClient(System.Drawing.Rectangle)

System.Windows.Forms.Control.RectangleToScreen(System.Drawing.Rectangle)
System.Windows.Forms.Control.ReflectMessage(System.IntPtr, System.Windows.Forms.Message)
System.Windows.Forms.Control.Refresh()
System.Windows.Forms.Control.ResetMouseEventArgs()
System.Windows.Forms.Control.ResetText()
System.Windows.Forms.Control.ResumeLayout()
System.Windows.Forms.Control.ResumeLayout(System.Boolean)
System.Windows.Forms.Control.Scale(System.Drawing.SizeF)
System.Windows.Forms.Control.Select()
System.Windows.Forms.Control.SelectNextControl(System.Windows.Forms.Control, System.Boolean, System.Boolean, System.Boolean, System.Boolean)
System.Windows.Forms.Control.SendToBack()
System.Windows.Forms.Control.SetBounds(System.Int32, System.Int32, System.Int32, System.Int32)
System.Windows.Forms.Control.SetBounds(System.Int32, System.Int32, System.Int32, System.Int32, System.Windows.Forms.BoundsSpecified)
System.Windows.Forms.Control.SizeFromClientSize(System.Drawing.Size)
System.Windows.Forms.Control.SetStyle(System.Windows.Forms.ControlStyles, System.Boolean)
System.Windows.Forms.Control.SetTopLevel(System.Boolean)
System.Windows.Forms.Control.RtlTranslateAlignment(System.Windows.Forms.HorizontalAlignment)
System.Windows.Forms.Control.RtlTranslateAlignment(System.Windows.Forms.LeftRightAlignment)
System.Windows.Forms.Control.RtlTranslateAlignment(System.Drawing.ContentAlignment)
System.Windows.Forms.Control.RtlTranslateHorizontal(System.Windows.Forms.HorizontalAlignment)
System.Windows.Forms.Control.RtlTranslateLeftRight(System.Windows.Forms.LeftRightAlignment)
System.Windows.Forms.Control.RtlTranslateContent(System.Drawing.ContentAlignment)
System.Windows.Forms.Control.Show()
System.Windows.Forms.Control.SuspendLayout()
System.Windows.Forms.Control.Update()
System.Windows.Forms.Control.UpdateBounds()
System.Windows.Forms.Control.UpdateBounds(System.Int32, System.Int32, System.Int32, System.Int32)
System.Windows.Forms.Control.UpdateBounds(System.Int32, System.Int32, System.Int32, System.Int32, System.Int32, System.Int32)
System.Windows.Forms.Control.UpdateZOrder()
System.Windows.Forms.Control.UpdateStyles()
System.Windows.Forms.Control.System.Windows.Forms.IDropTarget.OnDragEnter(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.System.Windows.Forms.IDropTarget.OnDragOver(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.System.Windows.Forms.IDropTarget.OnDragLeave(System.EventArgs)
System.Windows.Forms.Control.System.Windows.Forms.IDropTarget.OnDragDrop(System.Windows.Forms.DragEventArgs)
System.Windows.Forms.Control.OnImeModeChanged(System.EventArgs)
System.Windows.Forms.Control.AccessibilityObject
System.Windows.Forms.Control.AccessibleDefaultActionDescription
System.Windows.Forms.Control.AccessibleDescription
System.Windows.Forms.Control.AccessibleName
System.Windows.Forms.Control.AccessibleRole
System.Windows.Forms.Control.AllowDrop
System.Windows.Forms.Control.Anchor
System.Windows.Forms.Control.AutoScrollOffset
System.Windows.Forms.Control.LayoutEngine
System.Windows.Forms.Control.BackgroundImage
System.Windows.Forms.Control.BackgroundImageLayout
System.Windows.Forms.Control.Bottom
System.Windows.Forms.Control.Bounds
System.Windows.Forms.Control.CanFocus
System.Windows.Forms.Control.CanRaiseEvents
System.Windows.Forms.Control.CanSelect
System.Windows.Forms.Control.Capture

System.Windows.Forms.Control.CausesValidation
System.Windows.Forms.Control.CheckForIllegalCrossThreadCalls
System.Windows.Forms.Control.ClientRectangle
System.Windows.Forms.Control.CompanyName
System.Windows.Forms.Control.ContainsFocus
System.Windows.Forms.Control.ContextMenu
System.Windows.Forms.Control.ContextMenuStrip
System.Windows.Forms.Control.Controls
System.Windows.Forms.Control.Created
System.Windows.Forms.Control.Cursor
System.Windows.Forms.Control.DataBindings
System.Windows.Forms.Control.DefaultBackColor
System.Windows.Forms.Control.DefaultCursor
System.Windows.Forms.Control.DefaultFont
System.Windows.Forms.Control.DefaultForeColor
System.Windows.Forms.Control.DefaultMargin
System.Windows.Forms.Control.DefaultMaximumSize
System.Windows.Forms.Control.DefaultMinimumSize
System.Windows.Forms.Control.DefaultPadding
System.Windows.Forms.Control.IsDisposed
System.Windows.Forms.Control.Disposing
System.Windows.Forms.Control.Dock
System.Windows.Forms.Control.DoubleBuffered
System.Windows.Forms.Control.Enabled
System.Windows.Forms.Control.Focused
System.Windows.Forms.Control.Font
System.Windows.Forms.Control.FontHeight
System.Windows.Forms.Control.ForeColor
System.Windows.Forms.Control.Handle
System.Windows.Forms.Control.HasChildren
System.Windows.Forms.Control.Height
System.Windows.Forms.Control.IsHandleCreated
System.Windows.Forms.Control.InvokeRequired
System.Windows.Forms.Control.IsAccessible
System.Windows.Forms.Control.IsMirrored
System.Windows.Forms.Control.Left
System.Windows.Forms.Control.Margin
System.Windows.Forms.Control.ModifierKeys
System.Windows.Forms.Control.MouseButtons
System.Windows.Forms.Control.MousePosition
System.Windows.Forms.Control.Name
System.Windows.Forms.Control.Parent
System.Windows.Forms.Control.ProductName
System.Windows.Forms.Control.ProductVersion
System.Windows.Forms.Control.RecreatingHandle
System.Windows.Forms.Control.Region
System.Windows.Forms.Control.RenderRightToLeft
System.Windows.Forms.Control.ResizeRedraw
System.Windows.Forms.Control.Right
System.Windows.Forms.Control.RightToLeft
System.Windows.Forms.Control.ScaleChildren
System.Windows.Forms.Control.Site
System.Windows.Forms.Control.TabIndex
System.Windows.Forms.Control.TabStop

System.Windows.Forms.Control.Tag
System.Windows.Forms.Control.Top
System.Windows.Forms.Control.TopLevelControl
System.Windows.Forms.Control.ShowKeyboardCues
System.Windows.Forms.Control.ShowFocusCues
System.Windows.Forms.Control.UseWaitCursor
System.Windows.Forms.Control.Visible
System.Windows.Forms.Control.Width
System.Windows.Forms.Control.PreferredSize
System.Windows.Forms.Control.Padding
System.Windows.Forms.Control.ImeMode
System.Windows.Forms.Control.ImeModeBase
System.Windows.Forms.Control.PropagatingImeMode
System.Windows.Forms.Control.BackColorChanged
System.Windows.Forms.Control.BackgroundImageChanged
System.Windows.Forms.Control.BackgroundImageLayoutChanged
System.Windows.Forms.Control.BindingContextChanged
System.Windows.Forms.Control.CausesValidationChanged
System.Windows.Forms.Control.ClientSizeChanged
System.Windows.Forms.Control.ContextMenuChanged
System.Windows.Forms.Control.ContextMenuStripChanged
System.Windows.Forms.Control.CursorChanged
System.Windows.Forms.Control.DockChanged
System.Windows.Forms.Control.EnabledChanged
System.Windows.Forms.Control.FontChanged
System.Windows.Forms.Control.ForeColorChanged
System.Windows.Forms.Control.LocationChanged
System.Windows.Forms.Control.MarginChanged
System.Windows.Forms.Control.RegionChanged
System.Windows.Forms.Control.RightToLeftChanged
System.Windows.Forms.Control.SizeChanged
System.Windows.Forms.Control.TabIndexChanged
System.Windows.Forms.Control.TabStopChanged
System.Windows.Forms.Control.TextChanged
System.Windows.Forms.Control.VisibleChanged
System.Windows.Forms.Control.Click
System.Windows.Forms.Control.ControlAdded
System.Windows.Forms.Control.ControlRemoved
System.Windows.Forms.Control.DragDrop
System.Windows.Forms.Control.DragEnter
System.Windows.Forms.Control.DragOver
System.Windows.Forms.Control.DragLeave
System.Windows.Forms.Control.GiveFeedback
System.Windows.Forms.Control.HandleCreated
System.Windows.Forms.Control.HandleDestroyed
System.Windows.Forms.Control.HelpRequested
System.Windows.Forms.Control.Invalidated
System.Windows.Forms.Control.PaddingChanged
System.Windows.Forms.Control.Paint
System.Windows.Forms.Control.QueryContinueDrag
System.Windows.Forms.Control.QueryAccessibilityHelp
System.Windows.Forms.Control.DoubleClick
System.Windows.Forms.Control.Enter
System.Windows.Forms.Control.GotFocus

System.Windows.Forms.Control.KeyDown
System.Windows.Forms.Control.KeyPress
System.Windows.Forms.Control.KeyUp
System.Windows.Forms.Control.Layout
System.Windows.Forms.Control.Leave
System.Windows.Forms.Control.LostFocus
System.Windows.Forms.Control.MouseClick
System.Windows.Forms.Control.MouseDoubleClick
System.Windows.Forms.Control.MouseCaptureChanged
System.Windows.Forms.Control.MouseDown
System.Windows.Forms.Control.MouseEnter
System.Windows.Forms.Control.MouseLeave
System.Windows.Forms.Control.MouseHover
System.Windows.Forms.Control.MouseMove
System.Windows.Forms.Control.MouseUp
System.Windows.Forms.Control.MouseWheel
System.Windows.Forms.Control.Move
System.Windows.Forms.Control.PreviewKeyDown
System.Windows.Forms.Control.Resize
System.Windows.Forms.Control.ChangeUICues
System.Windows.Forms.Control.StyleChanged
System.Windows.Forms.Control.SystemColorsChanged
System.Windows.Forms.Control.Validating
System.Windows.Forms.Control.Validated
System.Windows.Forms.Control.ParentChanged
System.Windows.Forms.Control.ImeModeChanged
System.ComponentModel.Component.Dispose()
System.ComponentModel.Component.GetService(System.Type)
System.ComponentModel.Component.Events
System.ComponentModel.Component.Container
System.ComponentModel.Component.DesignMode
System.ComponentModel.Component.Disposed
System.MarshalByRefObject.MemberwiseClone(System.Boolean)
System.MarshalByRefObject.GetLifetimeService()
System.MarshalByRefObject.InitializeLifetimeService()
System.MarshalByRefObject.CreateObjRef(System.Type)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()

Namespace: [WATS_Teststand_Support.Forms](#)

Assembly: WATS_Teststand_Support.dll

Syntax

```
public class PackageManager : Form, IDropTarget, ISynchronizeInvoke, IWin32Window, IBindableComponent, IComponent, IDisposable, IContainerControl
```

Constructors

PackageManager()

Declaration

```
public PackageManager()
```

Properties

Packages

Declaration

```
public Package[] Packages { get; }
```

Property Value

TYPE	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	

Methods

Dispose(Boolean)

Clean up any resources being used.

Declaration

```
protected override void Dispose(bool disposing)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	disposing	true if managed resources should be disposed; otherwise, false.

Overrides

System.Windows.Forms.Form.Dispose(System.Boolean)

Initialize(Package[], Boolean, Boolean)

Declaration

```
public void Initialize(Package[] packages, bool alwaysOnTop, bool isOnline)
```

Parameters

TYPE	NAME	DESCRIPTION
Virinco.WATS.Service.MES.Contract.Package[]	packages	
System.Boolean	alwaysOnTop	
System.Boolean	isOnline	

Implements

- System.Windows.Forms.IDropTarget
- System.ComponentModel.ISynchronizeInvoke
- System.Windows.Forms.IWin32Window
- System.Windows.Forms.IBindableComponent
- System.ComponentModel.IComponent
- System.IDisposable
- System.Windows.Forms.IContainerControl