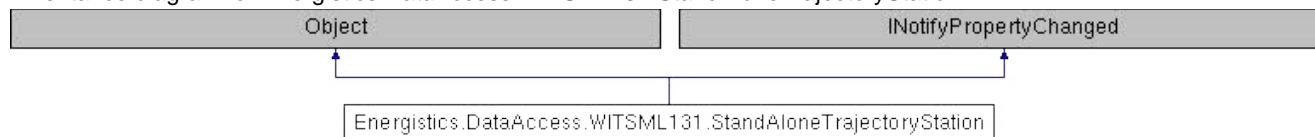


Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation Class Reference

WITSML - **Trajectory** Station Component Schema [More...](#)

Inheritance diagram for Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation:



Protected Member Functions

void **NotifyPropertyChanged** (String info)

Properties

String	NameWell [get, set]	Human recognizable context for the well that contains the wellbore.
String	NameWellbore [get, set]	Human recognizable context for the wellbore that contains the trajectory.
String	NameTrajectory [get, set]	Human recognizable context for the trajectory that contains the trajectory station.
RefNameString	Target [get, set]	A pointer to the intended target of this station.
DateTime	DateTimeStn [get, set]	Date and time the station was measured or created.
Boolean	DateTimeStnSpecified [get, set]	
TrajStationType	TypeTrajStation [get, set]	Type of survey station.
TypeSurveyTool	TypeSurveyTool [get, set]	The type of tool used for the measurements.
Boolean	TypeSurveyToolSpecified [get, set]	
MeasuredDepthCoord	MD [get, set]	Measured depth of measurement from the drill datum.
WellVerticalDepthCoord	Tvd [get, set]	Vertical depth of the measurements.
PlaneAngleMeasure	Incl [get, set]	Hole inclination, measured from vertical.
PlaneAngleMeasure	Azi [get, set]	Hole azimuth. Corrected to wells azimuth reference.
PlaneAngleMeasure	Mtf [get, set]	Toolface angle (magnetic).
PlaneAngleMeasure	Gtf [get, set]	Toolface angle (gravity).
LengthMeasure	DispNS [get, set]	

North-south offset, positive to the North. This is relative to wellLocation with a North axis orientation of aziRef. If a displacement with respect to a different point is desired then define a localCRS and specify local coordinates in location.

LengthMeasure	DispEW [get, set] East-west offset, positive to the East. This is relative to wellLocation with a North axis orientation of aziRef. If a displacement with respect to a different point is desired then define a localCRS and specify local coordinates in location.
LengthMeasure	VertSect [get, set] Distance along vertical section azimuth plane.
AnglePerLengthMeasure	DoglegSeverity [get, set] Dogleg severity.
AnglePerLengthMeasure	RateTurn [get, set] Turn rate, radius of curvature computation.
AnglePerLengthMeasure	RateBuild [get, set] Build Rate, radius of curvature computation.
MeasuredDepthCoord	MDDelta [get, set] Delta measured depth from previous station.
WellVerticalDepthCoord	TvdDelta [get, set] Delta true vertical depth from previous station.
String	ModelToolError [get, set] Tool error model used to compute covariance matrix.
AccelerationLinearMeasure	GravTotalUncert [get, set] Survey tool gravity uncertainty.
PlaneAngleMeasure	DipAngleUncert [get, set] Survey tool dip uncertainty.
MagneticInductionMeasure	MagTotalUncert [get, set] Survey tool magnetic uncertainty.
Boolean	GravAccelCorUsed [get, set] Was an accelerometer alignment correction applied to survey computation? Values are "true" (or "1") and "false" (or "0").
Boolean	GravAccelCorUsedSpecified [get, set]
Boolean	MagXAxialCorUsed [get, set] Was a magnetometer alignment correction applied to survey computation? Values are "true" (or "1") and "false" (or "0").
Boolean	MagXAxialCorUsedSpecified [get, set]
Boolean	SagCorUsed [get, set] Was a bottom hole assembly sag correction applied to the survey computation? Values are "true" (or "1") and "false" (or "0").
Boolean	SagCorUsedSpecified [get, set]
Boolean	MagDrIstrCorUsed [get, set] Was a drillstring magnetism correction applied to survey computation? Values are "true" (or "1") and "false" (or "0").
Boolean	MagDrIstrCorUsedSpecified [get, set]
AccelerationLinearMeasure	GravTotalFieldReference [get, set]

	Gravitational field theoretical/reference value.
MagneticInductionMeasure	MagTotalFieldReference [get, set] Geomagnetic field theoretical/reference value.
PlaneAngleMeasure	MagDipAngleReference [get, set] Magnetic dip angle theoretical/reference value.
String	MagModelUsed [get, set] Geomagnetic model used.
String	MagModelValid [get, set] Current valid interval for the geomagnetic model used.
String	GeoModelUsed [get, set] Gravitational model used.
TrajStationStatus	StatusTrajStation [get, set] Status of the station.
Boolean	StatusTrajStationSpecified [get, set]
StnTrajRawData	RawData [get, set] Applies only to measured magnetic stations.
StnTrajCorUsed	CorUsed [get, set] Applies only to measured magnetic stations.
StnTrajValid	Valid [get, set] Applies only to measured magnetic stations.
StnTrajMatrixCov	MatrixCov [get, set] Covariance matrix for error model.
List< Location >	Location [get, set] The 2D coordinates of the item. Note that within the context of trajectory, the "original" coordinates are inherently local coordinates as defined above.
RefWellboreTrajectoryStation	SourceStation [get, set] A pointer to the trajectoryStation from which this station was derived. The trajectoryStation may be in another wellbore.
CommonData	CommonData [get, set] A container element that contains elements that are common to all data objects.
CustomData	CustomData [get, set] A container element that can contain custom or user defined data elements.
String	UidWell [get, set]
String	UidWellbore [get, set]
String	UidTrajectory [get, set]
String	Uid [get, set]

Events

PropertyChangedEventHandler **PropertyChanged**

Detailed Description

WITSML - **Trajectory** Station Component Schema

Member Function Documentation

void

Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.NotifyPropertyChanged (String info) protected

Triggers PropertyChanged Event

Parameters

info Name of property changed

Property Documentation

PlaneAngleMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Azi get set

Hole azimuth. Corrected to wells azimuth reference.

CommonData Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.CommonData get set

A container element that contains elements that are common to all data objects.

StnTrajCorUsed Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.CorUsed get set

Applies only to measured magnetic stations.

CustomData Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.CustomData get set

A container element that can contain custom or user defined data elements.

DateTime Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.DateTimeStn get set

Date and time the station was measured or created.

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.DateTimeStnSpecified get set

dTimStnSpecified property

PlaneAngleMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.DipAngleUncert

Survey tool dip uncertainty.

LengthMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.DispEW

East-west offset, positive to the East. This is relative to wellLocation with a North axis orientation of aziRef. If a displacement with respect to a different point is desired then define a localCRS and specify local coordinates in location.

LengthMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.DispNS

North-south offset, positive to the North. This is relative to wellLocation with a North axis orientation of aziRef. If a displacement with respect to a different point is desired then define a localCRS and specify local coordinates in location.

AnglePerLengthMeasure**Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.DoglegSeverity**

Dogleg severity.

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.GeoModelUsed

Gravitational model used.

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.GravAccelCorUsed

Was an accelerometer alignment correction applied to survey computation? Values are "true" (or "1") and "false" (or "0").

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.GravAccelCorUsedSpecified

gravAccelCorUsedSpecified property

AccelerationLinearMeasure**Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.GravTotalFieldReference**

Gravitational field theoretical/reference value.

AccelerationLinearMeasure**Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.GravTotalUncert**

Survey tool gravity uncertainty.

PlaneAngleMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Gtf

Toolface angle (gravity).

PlaneAngleMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Incl

Hole inclination, measured from vertical.

List<Location> Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Location

The 2D coordinates of the item. Note that within the context of trajectory, the "original" coordinates are inherently local coordinates as defined above.

**PlaneAngleMeasure
Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagDipAngleReference**

Magnetic dip angle theoretical/reference value.

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagDrlstrCorUsed

Was a drillstring magnetism correction applied to survey computation? Values are "true" (or "1") and "false" (or "0").

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagDrlstrCorUsedSpecified

magDrlstrCorUsedSpecified property

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagModelUsed

Geomagnetic model used.

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagModelValid

Current valid interval for the geomagnetic model used.

**MagneticInductionMeasure
Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagTotalFieldReference**

Geomagnetic field theoretical/reference value.

MagneticInductionMeasure**Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagTotalUncert**

get

set

Survey tool magnetic uncertainty.

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagXAxialCorUsed

get

set

Was a magnetometer alignment correction applied to survey computation? Values are "true" (or "1") and "false" (or "0").

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MagXAxialCorUsedSpecified

get

set

magXAxialCorUsedSpecified property

StnTrajMatrixCov Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MatrixCov

get

set

Covariance matrix for error model.

MeasuredDepthCoord Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MD

get

set

Measured depth of measurement from the drill datum.

MeasuredDepthCoord Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.MDDelta

get

set

Delta measured depth from previous station.

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.ModelToolError

get

set

Tool error model used to compute covariance matrix.

PlaneAngleMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Mtf

get

set

Toolface angle (magnetic).

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.NameTrajectory

get

set

Human recognizable context for the trajectory that contains the trajectory station.

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.NameWell

get

set

Human recognizable context for the well that contains the wellbore.

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.NameWellbore

Human recognizable context for the wellbore that contains the trajectory.

AnglePerLengthMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.RateBuild

Build Rate, radius of curvature computation.

AnglePerLengthMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.RateTurn

Turn rate, radius of curvature computation.

StnTrajRawData Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.RawData

Applies only to measured magnetic stations.

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.SagCorUsed

Was a bottom hole assembly sag correction applied to the survey computation? Values are "true" (or "1") and "false" (or "0").

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.SagCorUsedSpecified

sagCorUsedSpecified property

RefWellboreTrajectoryStation**Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.SourceStation**

A pointer to the trajectoryStation from which this station was derived. The trajectoryStation may be in another wellbore.

TrajStationStatus Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.StatusTrajStation

Status of the station.

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.StatusTrajStationSpecified

statusTrajStationSpecified property

RefNameString Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Target

A pointer to the intended target of this station.

WellVerticalDepthCoord Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Tvd

Vertical depth of the measurements.

WellVerticalDepthCoord Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.TvdDelta

Delta true vertical depth from previous station.

TypeSurveyTool Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.TypeSurveyTool

The type of tool used for the measurements.

Boolean Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.TypeSurveyToolSpecified

typeSurveyToolSpecified property

TrajStationType Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.TypeTrajStation

Type of survey station.

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Uid

uid property

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.UidTrajectory

Unique identifier for the trajectory. This uniquely represents the trajectory referenced by the (possibly non-unique) nameTraj.

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.UidWell

Unique identifier for the well. This uniquely represents the well referenced by the (possibly non-unique) nameWell.

String Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.UidWellbore

Unique identifier for the wellbore. This uniquely represents the wellbore referenced by the (possibly non-unique) nameWellbore.

StnTrajValid Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.Valid

Applies only to measured magnetic stations.

LengthMeasure Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.VertSect

get set

Distance along vertical section azimuth plane.

Event Documentation

PropertyChangedEventHandler

Energistics.DataAccess.WITSML131.StandAloneTrajectoryStation.PropertyChanged

Occurs when a property value changes.

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