



# Proficiency Historian 2023

Java APIs Data Contracts



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# Package com.ge.ip.hds.helper

## Class Summary

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[JsonBuilder](#)

[UtilityFunctions](#)

com.ge.ip.hds.helper

## Class DateAdapter

```
java.lang.Object
|
+--com.ge.ip.hds.helper.DateAdapter
```

### All Implemented Interfaces:

com.google.gson.JsonDeserializer, com.google.gson.JsonSerializer

< [Constructors](#) > < [Methods](#) >

```
public class DateAdapter
extends java.lang.Object
implements com.google.gson.JsonDeserializer, com.google.gson.JsonSerializer
```

## Constructors

### DateAdapter

```
public DateAdapter(java.text.DateFormat format)
```

## Methods

### deserialize

```
public synchronized java.util.Date deserialize(com.google.gson.JsonElement
jsonElement,
                                               java.lang.reflect.Type type,
com.google.gson.JsonDeserializationContext jsonDeserializationContext)
```

## serialize

```
public synchronized com.google.gson.JsonElement serialize(java.util.Date date,  
java.lang.reflect.Type type,  
com.google.gson.JsonSerializationContext jsonSerializationContext)
```

---

com.ge.ip.hds.helper

## Class JsonBuilder

```
java.lang.Object  
|  
+--com.ge.ip.hds.helper.JsonBuilder
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class JsonBuilder  
extends java.lang.Object
```

## Constructors

### JsonBuilder

```
public JsonBuilder()
```

## Methods

### Deserialize

```
public static java.lang.Object Deserialize(java.lang.String serialized,  
java.lang.Class classDef)
```

### Deserialize

```
public static java.lang.Object Deserialize(java.lang.String serialized,  
java.lang.reflect.Type typeOfT)
```

---

# GenerateJSON

```
public static java.lang.String GenerateJSON(java.lang.Object object)
```

---

com.ge.ip.hds.helper

## Class UtilityFunctions

```
java.lang.Object  
|  
+--com.ge.ip.hds.helper.UtilityFunctions
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class UtilityFunctions  
extends java.lang.Object
```

## Constructors

### UtilityFunctions

```
public UtilityFunctions()
```

## Methods

### DateToISODateTimeFormat

```
public static java.lang.String DateToISODateTimeFormat(java.util.Date date)
```



# Package

## com.ge.ip.hds.historian.DataContracts

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---

com.ge.ip.hds.historian.DataContracts

## Class Archive

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.Archive
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class Archive
```

extends java.lang.Object

# Archive

The Archive object contains the configuration and status information for a single archive file on the Historian server.

## Constructors

### Archive

```
public Archive()
```

## Methods

### getCurrentSize

```
public long getCurrentSize()
```

**Returns:**

CurrentSize

---

### getDataStoreName

```
public java.lang.String getDataStoreName()
```

**Returns:**

data store name

---

### getEndTime

```
public java.util.Date getEndTime()
```

**Returns:**

EndTime

---

## getFilename

```
public java.lang.String getFilename()
```

**Returns:**

Filename

---

## getHref

```
public java.lang.String getHref(java.lang.String relation)
```

**Parameters:**

relation - relation

**Returns:**

Href

---

## getIsCurrent

```
public boolean getIsCurrent()
```

**Returns:**

true, if it is current archive

---

## getIsEndTimeFixed

```
public boolean getIsEndTimeFixed()
```

**Returns:**

true if end time is fixed

---

## getIsReadOnly

```
public boolean getIsReadOnly()
```

**Returns:**

true if it is readonly

---

## getLastBackupTime

```
public java.util.Date getLastBackupTime()
```

**Returns:**

LastBackupTime

---

## getLastBackupUser

```
public java.lang.String getLastBackupUser()
```

**Returns:**

LastBackupUser

---

## getLastModifiedTime

```
public java.util.Date getLastModifiedTime()
```

**Returns:**

LastModifiedTime

---

## getLastModifiedUser

```
public java.lang.String getLastModifiedUser()
```

**Returns:**

LastModifiedUser

---

## getLinks

```
public com.ge.ip.hds.historian.DataContracts.Link[] getLinks()
```

**Returns:**

array of links

---

## getName

```
public java.lang.String getName()
```

**Returns:**

Archive name

---

## getStartTime

```
public java.util.Date getStartTime()
```

**Returns:**

start time

---

## getStatus

```
public ArchiveStatusType getStatus()
```

**Returns:**

ArchiveStatusType

---

## getTargetSize

```
public long getTargetSize()
```

**Returns:**

TargetSize

---

## getUsedSize

```
public long getUsedSize()
```

**Returns:**

UsedSize

---



## setCurrentSize

```
public void setCurrentSize(long currentSize)
```

**Parameters:**

currentSize - current size to set

---

## setDataStoreName

```
public void setDataStoreName(java.lang.String dataStoreName)
```

**Parameters:**

dataStoreName - Name of data store to set

---

## setEndTime

```
public void setEndTime(java.util.Date endTime)
```

**Parameters:**

endTime - end time to set

---

## setFilename

```
public void setFilename(java.lang.String filename)
```

**Parameters:**

filename - file name to set

---

## setIsCurrent

```
public void setIsCurrent(boolean isCurrent)
```

**Parameters:**

isCurrent - set true if it is current archive

---

## setIsEndTimeFixed

```
public void setIsEndTimeFixed(boolean isEndTimeFixed)
```

### Parameters:

isEndTimeFixed - set true if end time is fixed

---

## setIsReadOnly

```
public void setIsReadOnly(boolean isReadOnly)
```

### Parameters:

isReadOnly - set true if it is readonly

---

## setLastBackupTime

```
public void setLastBackupTime(java.util.Date lastBackupTime)
```

### Parameters:

lastBackupTime - set last backup time

---

## setLastBackupUser

```
public void setLastBackupUser(java.lang.String lastBackupUser)
```

### Parameters:

lastBackupUser - set user who did last backup of archive

---

## setLastModifiedTime

```
public void setLastModifiedTime(java.util.Date lastModifiedTime)
```

### Parameters:

lastModifiedTime - last modified time to set

---

## setLastModifiedUser

```
public void setLastModifiedUser(java.lang.String lastModifiedUser)
```

### Parameters:

lastModifiedUser - set user who last modified the archive

---

## setLinks

```
public void setLinks(com.ge.ip.hds.historian.DataContracts.Link[] links)
```

### Parameters:

links - array of links to set

---

## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - Archive name to set

---

## setStartTime

```
public void setStartTime(java.util.Date startTime)
```

### Parameters:

startTime - start time to set

---

## setStatus

```
public void setStatus(ArchiveStatusType status)
```

### Parameters:

status - ArchiveStatusType to set

---

## setTargetSize

```
public void setTargetSize(long targetSize)
```

### Parameters:

targetSize - size of target

---

## setUsedSize

```
public void setUsedSize(long usedSize)
```

### Parameters:

usedSize - used size to set

---

## toString

```
public java.lang.String toString()
```

### Overrides:

toString in class java.lang.Object

---

**com.ge.ip.hds.historian.DataContracts**

# Class ArchiveStatistics

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.ArchiveStatistics
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class ArchiveStatistics  
extends java.lang.Object
```

## Constructors

### ArchiveStatistics

```
public ArchiveStatistics()
```

## Methods

### getAverageCompressionRatio

```
public double getAverageCompressionRatio()
```

**Returns:**

the AverageCompressionRatio

---

### getAverageEventRate

```
public double getAverageEventRate()
```

**Returns:**

the AverageEventRate

---

### getFreeSpaceMB

```
public int getFreeSpaceMB()
```

**Returns:**

the FreeSpaceMB

---

### getMaximumCompressionRatio

```
public double getMaximumCompressionRatio()
```

**Returns:**

the MaximumCompressionRatio

---

### getMaximumEventRate

```
public double getMaximumEventRate()
```

**Returns:**

the MaximumEventRate

---

## getMinimumCompressionRatio

```
public double getMinimumCompressionRatio()
```

**Returns:**

the MinimumCompressionRatio

---

## getMinimumEventRate

```
public double getMinimumEventRate()
```

**Returns:**

the MinimumEventRate

---

## getPredictedDaysToFull

```
public double getPredictedDaysToFull()
```

**Returns:**

the PredictedDaysToFull

---

## getSpaceConsumptionRate

```
public double getSpaceConsumptionRate()
```

**Returns:**

the SpaceConsumptionRate

---

## getTotalAlerts

```
public int getTotalAlerts()
```

**Returns:**

the TotalAlerts

---

## getTotalEvents

```
public int getTotalEvents()
```

**Returns:**

the TotalEvents

---

## getTotalFailedWrites

```
public int getTotalFailedWrites()
```

**Returns:**

the TotalFailedWrites

---

## getTotalMessages

```
public int getTotalMessages()
```

**Returns:**

the TotalMessages

---

## getTotalOutOfOrder

```
public int getTotalOutOfOrder()
```

**Returns:**

the TotalOutOfOrder

---

## getWriteCacheHitRatio

```
public double getWriteCacheHitRatio()
```

**Returns:**

the WriteCacheHitRatio

---

## setAverageCompressionRatio

```
public void setAverageCompressionRatio(double averageCompressionRatio)
```

**Parameters:**

averageCompressionRatio - the AverageCompressionRatio to set

---

## setAverageEventRate

```
public void setAverageEventRate(double averageEventRate)
```

**Parameters:**

averageEventRate - the AverageEventRate to set

---

## setFreeSpaceMB

```
public void setFreeSpaceMB(int freeSpaceMB)
```

**Parameters:**

freeSpaceMB - the FreeSpaceMB to set

---

## setMaximumCompressionRatio

```
public void setMaximumCompressionRatio(double maximumCompressionRatio)
```

**Parameters:**

maximumCompressionRatio - the MaximumCompressionRatio to set

---

## setMaximumEventRate

```
public void setMaximumEventRate(double maximumEventRate)
```

**Parameters:**

maximumEventRate - the MaximumEventRate to set

---



## setMinimumCompressionRatio

```
public void setMinimumCompressionRatio(double minimumCompressionRatio)
```

**Parameters:**

minimumCompressionRatio - the MinimumCompressionRatio to set

---

## setMinimumEventRate

```
public void setMinimumEventRate(double minimumEventRate)
```

**Parameters:**

minimumEventRate - the MinimumEventRate to set

---

## setPredictedDaysToFull

```
public void setPredictedDaysToFull(double predictedDaysToFull)
```

**Parameters:**

predictedDaysToFull - the PredictedDaysToFull to set

---

## setSpaceConsumptionRate

```
public void setSpaceConsumptionRate(double spaceConsumptionRate)
```

**Parameters:**

spaceConsumptionRate - the SpaceConsumptionRate to set

---

## setTotalAlerts

```
public void setTotalAlerts(int totalAlerts)
```

**Parameters:**

totalAlerts - the TotalAlerts to set

---

## setTotalEvents

```
public void setTotalEvents(int totalEvents)
```

**Parameters:**

totalEvents - the TotalEvents to set

---

## setTotalFailedWrites

```
public void setTotalFailedWrites(int totalFailedWrites)
```

**Parameters:**

totalFailedWrites - the TotalFailedWrites to set

---

## setTotalMessages

```
public void setTotalMessages(int totalMessages)
```

**Parameters:**

totalMessages - the TotalMessages to set

---

## setTotalOutOfOrder

```
public void setTotalOutOfOrder(int totalOutOfOrder)
```

**Parameters:**

totalOutOfOrder - the TotalOutOfOrder to set

---

## setWriteCacheHitRatio

```
public void setWriteCacheHitRatio(double writeCacheHitRatio)
```

**Parameters:**

writeCacheHitRatio - the WriteCacheHitRatio to set

---

com.ge.ip.hds.historian.DataContracts

# Class ArchiveStatusType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.ArchiveStatusType
```

## All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

public final class **ArchiveStatusType**  
extends java.lang.Enum

## Fields

### Empty

```
public static final ArchiveStatusType Empty
    value = 1
```

### NotEmpty

```
public static final ArchiveStatusType NotEmpty
    value = 2
```

### Undefined

```
public static final ArchiveStatusType Undefined
    value = 0
```

## Methods

### getArchiveStatusType

```
public int getArchiveStatusType()
```

#### Returns:

int value of ArchiveStatusType

---

## getArchiveStatusType

```
public static ArchiveStatusType getArchiveStatusType(int value)
```

This method retrieves ArchiveStatusType for given value

**Parameters:**

value - int value of ArchiveStatusType

**Returns:**

ArchiveStatusType

---

## valueOf

```
public static ArchiveStatusType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.ArchiveStatusType[]  
values()
```

---

**com.ge.ip.hds.historian.DataContracts**

## Class ArrayValue

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.ArrayValue
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class ArrayValue  
extends java.lang.Object
```

---

## Constructors

### ArrayValue

```
public ArrayValue()
```

---

## Methods

## getNumValues

```
public int getNumValues()
```

**Returns:**

numValues

---

## getValues

```
public com.ge.ip.hds.historian.DataContracts.ElementValue[] getValues()
```

**Returns:**

array of ElementValue

---

## setNumValues

```
public void setNumValues(int numValues)
```

**Parameters:**

numValues - number of values to set

---

## setValues

```
public void setValues(com.ge.ip.hds.historian.DataContracts.ElementValue[] values)
```

**Parameters:**

values - array of ElementValue to set

---

com.ge.ip.hds.historian.DataContracts

# Class CalculationModeType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.CalculationModeType
```

**All Implemented Interfaces:**

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

public final class **CalculationModeType**  
extends java.lang.Enum

# CalculationModeType

CalculationModeType represents the type of calculation to use on the archive data.  
The default Calculation Mode, if none is specified, is Average.

## Fields

### Average

```
public static final CalculationModeType Average  
    value = 1
```

Retrieves the time-weighted average for each calculation interval.

---

### Count

```
public static final CalculationModeType Count  
    value = 6
```

Counts the number of raw samples found with good quality in the interval.

Value is the count of raw samples with good quality in the interval. The values of each sample are ignored. The Count does not include any samples of bad quality, including the start and end of collection markers.

For Quality, the percentage of good samples is always 100, even if the interval does not contain any raw samples, or contains only bad quality samples.

Count is useful for analyzing the distribution of the raw data samples to determine the effect of compression deadbands. It is also useful to determine which tags are consuming the most archive space.

---

### FirstRawTime

```
public static final CalculationModeType FirstRawTime  
    value = 18
```

Retrieves the first good raw timestamp for a given interval.

Value is the timestamp of the sample or the year 1969 if there are no good raw samples in the interval.

For Quality, if there are not good raw samples in the interval, then the percentage of good is 0. Otherwise, the percentage of good is always 100, even if the interval contains bad quality samples. Note that Quality is the same for FirstRawValue and FirstRawTime.

The Raw sample has a quality of Good, Bad, or Uncertain, and that is converted to a 0 or 100 percent.

---

## FirstRawValue

```
public static final CalculationModeType FirstRawValue  
value = 17
```

Retrieves the first good raw sample value for a given interval.

Value is the value of the raw sample, or zero if there are no good raw samples in the interval.

For Quality, if there are not good raw samples in the interval, then the percentage of good is 0. Otherwise, the percentage of good is always 100, even if the interval contains bad quality samples. Note that Quality is the same for FirstRawValue and FirstRawTime.

The Raw sample has a quality of Good, Bad, or Uncertain, and that is converted to a 0 or 100 percent.

---

## LastRawTime

```
public static final CalculationModeType LastRawTime  
value = 20
```

Retrieves the last good timestamp of the last value for a given time interval.

Value is the timestamp of the sample or the year 1969 if there are no good raw samples in the interval.

For Quality, if there are no good raw samples in the interval, the percentage of good samples is 0. Otherwise, the percentage of good is always 100, even if the interval contains bad samples. Note that Quality is the same for LastRawValue and LastRawTime.

The Raw sample has a quality of Good, Bad, or Uncertain, and that is converted to a 0 or 100 percent.

---

## LastRawValue

```
public static final CalculationModeType LastRawValue  
value = 19
```

Retrieves the last good raw sample value for a given time interval.

Value is the value of the raw sample or zero if there are no good raw samples in the interval.

For Quality, if there are no good raw samples in the interval, the the percentage of good samples is 0. Otherwise, the percentage of good is always 100, even if the interval contains bad samples. Note that Quality is the same for LastRawValue and LastRawTime.

The Raw sample has a quality of Good, Bad, or Uncertain, and that is converted to a 0 or 100 percent.

---

## Maximum

```
public static final CalculationModeType Maximum  
value = 5
```

Retrieves the maximum value for each calculation interval.

---

## MaximumTime

```
public static final CalculationModeType MaximumTime  
    value = 11
```

Retrieves the timestamp of the maximum value found within each calculation interval. It can be a raw or an interpolated value. The maximum must be a good data quality sample.

---

## Minimum

```
public static final CalculationModeType Minimum  
    value = 4
```

Retrieves the minimum value for each calculation interval.

---

## MinimumTime

```
public static final CalculationModeType MinimumTime  
    value = 10
```

Retrieves the timestamp of the minimum value found within each calculation interval. It can be a raw or an interpolated value. The minimum must be a good data quality sample.

---

## OPCAnd

```
public static final CalculationModeType OPCAnd  
    value = 15
```

Retrieves the OPCQAND, bit-wise AND operation of all the 16-bit OPC qualities of the raw samples stored in the specified interval.

Note that OPC Quality is a subfield for Quality-Value-Timestamp (QVT), so when this calculation mode is used, OPC Quality is considered for calculation.

---

## OPCOr

```
public static final CalculationModeType OPCOr  
    value = 16
```

Retrieves the OPCQOR, bit-wise OR operation of all the 16-bit OPC qualities of the raw samples stored in the specified interval.

Note that OPC Quality is a subfield for Quality-Value-Timestamp (QVT), so when this calculation mode is used, OPC Quality is considered for calculation.

---

## RawAverage

```
public static final CalculationModeType RawAverage  
    value = 7
```



Retrieves the arithmetic average of all good quality raw samples for each calculation interval.

Value is the sum of all good quality samples in the interval, divided by the number of good quality samples in the interval. All bad quality samples are ignored. That is RawAverage is equivalent to RawTotal divided by the Count.

For Quality, if there are no raw samples in the interval or if they all are bad quality, then the percentage of good is 0. Otherwise, the percentage of good is always 100, even if the interval contains bad quality samples.

RawAverage is useful for calculating an accurate average when a sufficient number of raw samples are collected.

---

## RawStandardDeviation

```
public static final CalculationModeType RawStandardDeviation
    value = 8
```

Retrieves the arithmetic standard deviation of raw values for each calculation interval.

For Value, any raw point of bad data quality is ignored.

For Quality, if there are no raw samples in the interval or they all have bad quality, then the percentage of good is 0. Otherwise, the percentage of good is always 100, even if the interval contains bad quality samples.

RawStandardDeviation is useful for calculating an accurate standard deviation when a sufficient number of raw samples are collected.

---

## RawTotal

```
public static final CalculationModeType RawTotal
    value = 9
```

Retrieves the arithmetic total (sum) of sampled values for each interval.

Value is the sum of the good quality values of all raw samples in the interval. All bad quality samples are ignored.

For Quality, the percentage of good samples is always 100, even if the interval does not contain any raw samples or it contains only bad quality samples

If the same start and end times are used, and the time span is treated as a single interval, then all values are added together.

RawTotal is useful for calculating an accurate total when a sufficient number of raw samples are collected. Note that unlike ihTotal, this is a simple sum with no assumption that the values are rate values.

---

## StandardDeviation

```
public static final CalculationModeType StandardDeviation
    value = 2
```

Retrieves the time-weighted standard deviation for each calculation interval.

---

## StateCount

```
public static final CalculationModeType StateCount  
value = 13
```

Retrieves the amount of time a tag uses to transition to another state from a previous state during a time interval.

---

## StateTime

```
public static final CalculationModeType StateTime  
value = 14
```

Retrieves the duration that a tag stayed in a given state within an interval.

---

## TagStats

```
public static final CalculationModeType TagStats  
value = 21
```

Retrieves the statistics for a tag from the archive stored in the specified interval.

---

## TimeGood

```
public static final CalculationModeType TimeGood  
value = 12
```

Retrieves the amount of time (milliseconds) during the interval when the data is of good quality and the filter condition is met.

---

## Total

```
public static final CalculationModeType Total  
value = 3
```

Retrieves the time-weighted rate total for each calculation interval.

Use rate totals when working with a continuous measurement. Time weighting takes into account that compressed data is not evenly spaced in time.

A factor must be applied to the total value to convert into appropriate engineering units. As a rate total, the default is Units/Day.

If the actual units of the continuous measurement are Units/Minute, you would multiply the results by 1440 (minutes per day) to convert the total into appropriate engineering units.

---

## Undefined

```
public static final CalculationModeType Undefined  
value = 0
```

Calculation mode is not defined.

## Methods

### getCalculationModeType

```
public int getCalculationModeType()
```

This method retrieves the value of calculationModeType.

**Returns:**

integer value

---

### getCalculationModeType

```
public static CalculationModeType getCalculationModeType(int value)
```

This method retrieves CalculationModeType for given value

**Parameters:**

value - integer

**Returns:**

CalculationModeType

---

### valueOf

```
public static CalculationModeType valueOf(java.lang.String name)
```

---

### values

```
public static com.ge.ip.hds.historian.DataContracts.CalculationModeType[]  
values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class CollectorOperationAction

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.CollectorOperationAction
```

## All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class CollectorOperationAction
extends java.lang.Enum
```

## Fields

### StartCollection

```
public static final CollectorOperationAction StartCollection
```

---

### StopCollection

```
public static final CollectorOperationAction StopCollection
```

## Methods

### valueOf

```
public static CollectorOperationAction valueOf(java.lang.String name)
```

---

### values

```
public static com.ge.ip.hds.historian.DataContracts.CollectorOperationAction[]
values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class CollectorProperty

```
java.lang.Object
|
+--CollectorPropertyBase
|
+--com.ge.ip.hds.historian.DataContracts.CollectorProperty
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class CollectorProperty
extends CollectorPropertyBase
```

## Constructors

### CollectorProperty

```
public CollectorProperty()
```

## Methods

### getCanBrowseSource

```
public boolean getCanBrowseSource()
```

**Returns:**

CanBrowseSource

---

### getCanSourceTimestamp

```
public boolean getCanSourceTimestamp()
```

**Returns:**

canSourceTimestamp

---

## getCollectionDelay

```
public int getCollectionDelay()
```

**Returns:**

CollectionDelay

---

## getComment

```
public java.lang.String getComment()
```

**Returns:**

Comment

---

## getDataRecoveryQueueEnabled

```
public boolean getDataRecoveryQueueEnabled()
```

**Returns:**

DataRecoveryQueueEnabled

---

## getDefaultAbsoluteDeadband

```
public double getDefaultAbsoluteDeadband()
```

**Returns:**

defaultAbsoluteDeadband

---

## getDefaultAbsoluteDeadbanding

```
public boolean getDefaultAbsoluteDeadbanding()
```

**Returns:**

DefaultAbsoluteDeadbanding

---

## getDefaultCollectionInterval

```
public int getDefaultCollectionInterval()
```

**Returns:**

defaultCollectionInterval

---

## getDefaultCollectionType

```
public int getDefaultCollectionType()
```

**Returns:**

defaultCollectionType

---

## getDefaultCompression

```
public boolean getDefaultCompression()
```

---

## getDefaultCompressionDeadband

```
public float getDefaultCompressionDeadband()
```

**Returns:**

defaultCompressionDeadband

---

## getDefaultCompressionTimeout

```
public int getDefaultCompressionTimeout()
```

**Returns:**

defaultCompressionTimeout

---

## getDefaultLoadBalancing

```
public boolean getDefaultLoadBalancing()
```

**Returns:**

DefaultLoadBalancing

---

## getDefaultSpikeInterval

```
public int getDefaultSpikeInterval()
```

**Returns:**

defaultSpikeInterval

---

## getDefaultSpikeLogic

```
public boolean getDefaultSpikeLogic()
```

**Returns:**

DefaultSpikeLogic

---

## getDefaultSpikeMultiplier

```
public float getDefaultSpikeMultiplier()
```

**Returns:**

defaultSpikeMultiplier

---

## getDefaultTagPrefix

```
public java.lang.String getDefaultTagPrefix()
```

**Returns:**

defaultTagPrefix

---

## getDefaultTimeStampType

```
public TimeStampDeterminedByType getDefaultTimeStampType()
```

**Returns:**

defaultTimeStampType

---



## getDisableOnTheFlyTagChanges

```
public boolean getDisableOnTheFlyTagChanges()
```

**Returns:**

DisableOnTheFlyTagChanges

---

## getGeneral1

```
public java.lang.String getGeneral1()
```

**Returns:**

string General1

---

## getGeneral2

```
public java.lang.String getGeneral2()
```

**Returns:**

string General2

---

## getGeneral3

```
public java.lang.String getGeneral3()
```

**Returns:**

string general3

---

## getGeneral4

```
public java.lang.String getGeneral4()
```

**Returns:**

string general4

---

## getGeneral5

```
public java.lang.String getGeneral5()
```

**Returns:**

string general5

---

## getHeartbeatOutputAddress

```
public java.lang.String getHeartbeatOutputAddress()
```

**Returns:**

heartbeatOutputAddress

---

## getLastModified

```
public java.util.Date getLastModified()
```

**Returns:**

lastModified date

---

## getLastModifiedUser

```
public java.lang.String getLastModifiedUser()
```

**Returns:**

lastModifiedUser

---

## getMaximumMemoryBufferSize

```
public int getMaximumMemoryBufferSize()
```

**Returns:**

maximumMemoryBufferSize

---

## getMinimumDiskFreeBufferSize

```
public int getMinimumDiskFreeBufferSize()
```

**Returns:**

minimumDiskFreeBufferSize

---

## getRateOutputAddress

```
public java.lang.String getRateOutputAddress()
```

**Returns:**

rateOutputAddress

---

## getRedundancyEnabled

```
public boolean getRedundancyEnabled()
```

**Returns:**

true if redundancy is Enabled

---

## getRedundancyFailoverOnBadQuality

```
public boolean getRedundancyFailoverOnBadQuality()
```

**Returns:**

RedundancyFailoverOnBadQuality

---

## getRedundancyFailoverOnCollectorStatus

```
public boolean getRedundancyFailoverOnCollectorStatus()
```

**Returns:**

RedundancyFailoverOnCollectorStatus

---

## getRedundancyFailoverOnValue

```
public boolean getRedundancyFailoverOnValue()
```

**Returns:**

RedundancyFailoverOnValue

---

## getRedundancyFailoverValueChangeType

```
public boolean getRedundancyFailoverValueChangeType()
```

**Returns:**

RedundancyFailoverValueChangeType

---

## getRedundancyIsActiveCollector

```
public boolean getRedundancyIsActiveCollector()
```

**Returns:**

RedundancyIsActiveCollector

---

## getRedundancyPrincipalCollector

```
public java.lang.String getRedundancyPrincipalCollector()
```

**Returns:**

redundancyPrincipalCollector

---

## getRedundancyValueMaxUnchangedPeriod

```
public int getRedundancyValueMaxUnchangedPeriod()
```

**Returns:**

redundancyValueMaxUnchangedPeriod

---

## getRedundancyWatchdogTagName

```
public java.lang.String getRedundancyWatchdogTagName()
```

**Returns:**

redundancyWatchdogTagName

---

## getShouldAdjustTime

```
public boolean getShouldAdjustTime()
```

**Returns:**

ShouldAdjustTime

---

## getShouldQueueWrites

```
public boolean getShouldQueueWrites()
```

**Returns:**

ShouldQueueWrites

---

## getSourceTimeInLocalTime

```
public boolean getSourceTimeInLocalTime()
```

**Returns:**

SourceTimeInLocalTime

---

## getStatus

```
public CollectorStatusType getStatus()
```

**Returns:**

CollectorStatusType

---

## getStatusOutputAddress

```
public java.lang.String getStatusOutputAddress()
```

**Returns:**

statusOutputAddress

---

## setCanBrowseSource

```
public void setCanBrowseSource(boolean canBrowseSource)
```

**Parameters:**

canBrowseSource - set flag CanBrowseSource

---

## setCanSourceTimestamp

```
public void setCanSourceTimestamp(boolean canSourceTimestamp)
```

**Parameters:**

canSourceTimestamp - set flag canSourceTimestamp

---

## setCollectionDelay

```
public void setCollectionDelay(int collectionDelay)
```

**Parameters:**

collectionDelay - collection delay to set

---

## setComment

```
public void setComment(java.lang.String comment)
```

**Parameters:**

comment - comment to set

---

## setDataRecoveryQueueEnabled

```
public void setDataRecoveryQueueEnabled(boolean dataRecoveryQueueEnabled)
```

### Parameters:

dataRecoveryQueueEnabled - set flag DataRecoveryQueueEnabled

---

## setDefaultAbsoluteDeadband

```
public void setDefaultAbsoluteDeadband(double defaultAbsoluteDeadband)
```

### Parameters:

defaultAbsoluteDeadband - defaultAbsoluteDeadband to set

---

## setDefaultAbsoluteDeadbanding

```
public void setDefaultAbsoluteDeadbanding(boolean defaultAbsoluteDeadbanding)
```

### Parameters:

defaultAbsoluteDeadbanding - set flag DefaultAbsoluteDeadbanding

---

## setDefaultCollectionInterval

```
public void setDefaultCollectionInterval(int defaultCollectionInterval)
```

### Parameters:

defaultCollectionInterval - defaultCollectionInterval to set

---

## setDefaultCollectionType

```
public void setDefaultCollectionType(int defaultCollectionType)
```

### Parameters:

defaultCollectionType - defaultCollectionType to set

---

## setDefaultCompression

```
public void setDefaultCompression(boolean defaultCompression)
```

---

## setDefaultCompressionDeadband

```
public void setDefaultCompressionDeadband(float defaultCompressionDeadband)
```

**Parameters:**

defaultCompressionDeadband - defaultCompressionDeadband to set

---

## setDefaultCompressionTimeout

```
public void setDefaultCompressionTimeout(int defaultCompressionTimeout)
```

**Parameters:**

defaultCompressionTimeout - defaultCompressionTimeout to set

---

## setDefaultLoadBalancing

```
public void setDefaultLoadBalancing(boolean defaultLoadBalancing)
```

**Parameters:**

defaultLoadBalancing - set flag DefaultLoadBalancing

---

## setDefaultSpikeInterval

```
public void setDefaultSpikeInterval(int defaultSpikeInterval)
```

**Parameters:**

defaultSpikeInterval - defaultSpikeInterval to set

---

## setDefaultSpikeLogic

```
public void setDefaultSpikeLogic(boolean defaultSpikeLogic)
```

**Parameters:**

defaultSpikeLogic - set flag DefaultSpikeLogic

---



## setDefaultSpikeMultiplier

```
public void setDefaultSpikeMultiplier(float defaultSpikeMultiplier)
```

### Parameters:

defaultSpikeMultiplier - defaultSpikeMultiplier to set

---

## setDefaultTagPrefix

```
public void setDefaultTagPrefix(java.lang.String defaultTagPrefix)
```

### Parameters:

defaultTagPrefix - defaultTagPrefix to set

---

## setDefaultTimeStampType

```
public void setDefaultTimeStampType(TimeStampDeterminedByType  
defaultTimeStampType)
```

### Parameters:

defaultTimeStampType - defaultTimeStampType to set

---

## setDisableOnTheFlyTagChanges

```
public void setDisableOnTheFlyTagChanges(boolean disableOnTheFlyTagChanges)
```

### Parameters:

disableOnTheFlyTagChanges - set flag DisableOnTheFlyTagChanges

---

## setGeneral1

```
public void setGeneral1(java.lang.String general1)
```

### Parameters:

general1 - general1 to set

---

## setGeneral2

```
public void setGeneral2(java.lang.String general2)
```

**Parameters:**

general2 - general2 to set

---

## setGeneral3

```
public void setGeneral3(java.lang.String general3)
```

**Parameters:**

general3 - string general3 to set

---

## setGeneral4

```
public void setGeneral4(java.lang.String general4)
```

**Parameters:**

general4 - string general4 to set

---

## setGeneral5

```
public void setGeneral5(java.lang.String general5)
```

**Parameters:**

general5 - string general5 to set

---

## setHeartbeatOutputAddress

```
public void setHeartbeatOutputAddress(java.lang.String heartbeatOutputAddress)
```

**Parameters:**

heartbeatOutputAddress - heartbeatOutputAddress to set

---

## setLastModified

```
public void setLastModified(java.util.Date lastModified)
```

### Parameters:

lastModified - lastModified date to set

---

## setLastModifiedUser

```
public void setLastModifiedUser(java.lang.String lastModifiedUser)
```

### Parameters:

lastModifiedUser - last modified user to set

---

## setMaximumMemoryBufferSize

```
public void setMaximumMemoryBufferSize(int maximumMemoryBufferSize)
```

### Parameters:

maximumMemoryBufferSize - set maximumMemoryBufferSize

---

## setMinimumDiskFreeBufferSize

```
public void setMinimumDiskFreeBufferSize(int minimumDiskFreeBufferSize)
```

### Parameters:

minimumDiskFreeBufferSize - set minimumDiskFreeBufferSize

---

## setRateOutputAddress

```
public void setRateOutputAddress(java.lang.String rateOutputAddress)
```

### Parameters:

rateOutputAddress - set rateOutputAddress

---

## setRedundancyEnabled

```
public void setRedundancyEnabled(boolean redundancyEnabled)
```

### Parameters:

redundancyEnabled - set true if redundancyEnabled

---

## setRedundancyFailoverOnBadQuality

```
public void setRedundancyFailoverOnBadQuality(boolean redundancyFailoverOnBadQuality)
```

### Parameters:

redundancyFailoverOnBadQuality - set flag RedundancyFailoverOnBadQuality

---

## setRedundancyFailoverOnCollectorStatus

```
public void setRedundancyFailoverOnCollectorStatus(boolean redundancyFailoverOnCollectorStatus)
```

### Parameters:

redundancyFailoverOnCollectorStatus - set flag RedundancyFailoverOnCollectorStatus

---

## setRedundancyFailoverOnValue

```
public void setRedundancyFailoverOnValue(boolean redundancyFailoverOnValue)
```

### Parameters:

redundancyFailoverOnValue - set flag RedundancyFailoverOnValue

---

## setRedundancyFailoverValueChangeType

```
public void setRedundancyFailoverValueChangeType(boolean redundancyFailoverValueChangeType)
```

### Parameters:

redundancyFailoverValueChangeType - set flag RedundancyFailoverValueChangeType

---

## setRedundancyIsActiveCollector

```
public void setRedundancyIsActiveCollector(boolean  
redundancyIsActiveCollector)
```

### Parameters:

redundancyIsActiveCollector - set flag RedundancyIsActiveCollector

---

## setRedundancyPrincipalCollector

```
public void setRedundancyPrincipalCollector(java.lang.String  
redundancyPrincipalCollector)
```

### Parameters:

redundancyPrincipalCollector - redundancyPrincipalCollector to set

---

## setRedundancyValueMaxUnchangedPeriod

```
public void setRedundancyValueMaxUnchangedPeriod(int  
redundancyValueMaxUnchangedPeriod)
```

### Parameters:

redundancyValueMaxUnchangedPeriod - set redundancyValueMaxUnchangedPeriod

---

## setRedundancyWatchdogTagName

```
public void setRedundancyWatchdogTagName(java.lang.String  
redundancyWatchdogTagName)
```

### Parameters:

redundancyWatchdogTagName - set redundancyWatchdogTagName

---

## setShouldAdjustTime

```
public void setShouldAdjustTime(boolean shouldAdjustTime)
```

### Parameters:

shouldAdjustTime - set flag ShouldAdjustTime

---

## setShouldQueueWrites

```
public void setShouldQueueWrites(boolean shouldQueueWrites)
```

### Parameters:

shouldQueueWrites - set flag ShouldQueueWrites

---

## setSourceTimeInLocalTime

```
public void setSourceTimeInLocalTime(boolean sourceTimeInLocalTime)
```

### Parameters:

sourceTimeInLocalTime - set flag SourceTimeInLocalTime

---

## setStatus

```
public void setStatus(CollectorStatusType status)
```

### Parameters:

status - set CollectorStatusType

---

## setStatusOutputAddress

```
public void setStatusOutputAddress(java.lang.String statusOutputAddress)
```

### Parameters:

statusOutputAddress - set statusOutputAddress

---

com.ge.ip.hds.historian.DataContracts

# Class CollectorPropertyBase

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.CollectorPropertyBase
```

### Direct Known Subclasses:

[CollectorProperty](#)

---

< [Constructors](#) > < [Methods](#) >

---

```
public class CollectorPropertyBase  
extends java.lang.Object
```

## Constructors

### CollectorPropertyBase

```
public CollectorPropertyBase()
```

## Methods

### getComputerName

```
public java.lang.String getComputerName()
```

**Returns:**

computerName

---

### getDescription

```
public java.lang.String getDescription()
```

**Returns:**

description

---

### getLinks

```
public com.ge.ip.hds.historian.DataContracts.Link[] getLinks()
```

**Returns:**

array of link

---

### getName

```
public java.lang.String getName()
```

**Returns:**

collector name

---

## getServerId

```
public java.lang.String getServerId()
```

**Returns:**

serverId

---

## getType

```
public CollectorType getType()
```

**Returns:**

collector type

---

## setComputerName

```
public void setComputerName(java.lang.String computerName)
```

**Parameters:**

computerName - computerName to set

---

## setDescription

```
public void setDescription(java.lang.String description)
```

**Parameters:**

description - description to set

---

## setLinks

```
public void setLinks(com.ge.ip.hds.historian.DataContracts.Link[] links)
```

**Parameters:**

links - array of link to set

---



## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - collector name to set

---

## setServerId

```
public void setServerId(java.lang.String serverId)
```

### Parameters:

serverId - serverId to set

---

## setType

```
public void setType(CollectorType type)
```

### Parameters:

type - collector type to set

---

com.ge.ip.hds.historian.DataContracts

# Class CollectorStatistics

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.CollectorStatistics
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class CollectorStatistics  
extends java.lang.Object
```

## Constructors

### CollectorStatistics

```
public CollectorStatistics()
```

## Methods

### getAverageEventRate

```
public double getAverageEventRate()
```

**Returns:**

the AverageEventRate

---

### getMaximumEventRate

```
public double getMaximumEventRate()
```

**Returns:**

the MaximumEventRate

---

### getMinimumEventRate

```
public double getMinimumEventRate()
```

**Returns:**

the MinimumEventRate

---

### getOutOfOrderEvents

```
public int getOutOfOrderEvents()
```

**Returns:**

the OutOfOrderEvents

---

### getOverruns

```
public int getOverruns()
```

**Returns:**

the Overruns

---

## getOverrunsPercent

```
public double getOverrunsPercent()
```

**Returns:**

the OverrunsPercent

---

## getServerID

```
public java.lang.String getServerID()
```

**Returns:**

the ServerID

---

## getTotalEventsCollected

```
public int getTotalEventsCollected()
```

**Returns:**

the TotalEventsCollected

---

## getTotalEventsReported

```
public int getTotalEventsReported()
```

**Returns:**

the TotalEventsReported

---

## setAverageEventRate

```
public void setAverageEventRate(double averageEventRate)
```

**Parameters:**

averageEventRate - the AverageEventRate to set

---

## setMaximumEventRate

```
public void setMaximumEventRate(double maximumEventRate)
```

### Parameters:

maximumEventRate - the MaximumEventRate to set

---

## setMinimumEventRate

```
public void setMinimumEventRate(double minimumEventRate)
```

### Parameters:

minimumEventRate - the MinimumEventRate to set

---

## setOutOfOrderEvents

```
public void setOutOfOrderEvents(int outOfOrderEvents)
```

### Parameters:

outOfOrderEvents - the OutOfOrderEvents to set

---

## setOverruns

```
public void setOverruns(int overruns)
```

### Parameters:

overruns - the Overruns to set

---

## setOverrunsPercent

```
public void setOverrunsPercent(double overrunsPercent)
```

### Parameters:

overrunsPercent - the OverrunsPercent to set

---

## setServerID

```
public void setServerID(java.lang.String serverID)
```

### Parameters:

serverID - the ServerID to set

---

## setTotalEventsCollected

```
public void setTotalEventsCollected(int totalEventsCollected)
```

### Parameters:

totalEventsCollected - the TotalEventsCollected to set

---

## setTotalEventsReported

```
public void setTotalEventsReported(int totalEventsReported)
```

### Parameters:

totalEventsReported - the TotalEventsReported to set

---

**com.ge.ip.hds.historian.DataContracts**

# Class CollectorStatusType

```
java.lang.Object  
|  
+-- java.lang.Enum  
|  
+-- com.ge.ip.hds.historian.DataContracts.CollectorStatusType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class CollectorStatusType  
extends java.lang.Enum
```

## Fields

## Running

```
public static final CollectorStatusType Running
    value = 2
```

---

## Starting

```
public static final CollectorStatusType Starting
    value = 1
```

---

## Stopped

```
public static final CollectorStatusType Stopped
    value = 4
```

---

## Stopping

```
public static final CollectorStatusType Stopping
    value = 3
```

---

## Unknown

```
public static final CollectorStatusType Unknown
    value = 0
```

## Methods

### getCollectorStatusType

```
public int getCollectorStatusType()
```

**Returns:**

collectorStatusType

---

### getCollectorStatusType

```
public static CollectorStatusType getCollectorStatusType(int value)
```

This method retrieves CollectorStatusType from given value

**Parameters:**

value - integer value of CollectorStatusType

**Returns:**

CollectorStatusType

---

## valueOf

```
public static CollectorStatusType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.CollectorStatusType[]  
values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class CollectorTagBrowseResult

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.CollectorTagBrowseResult
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class CollectorTagBrowseResult  
extends java.lang.Object
```

## Constructors

### CollectorTagBrowseResult

```
public CollectorTagBrowseResult()
```

## Methods

### getTags

```
public java.util.List getTags()
```

**Returns:**

the Tags

---

## getTotalInCache

```
public int getTotalInCache()
```

**Returns:**

the TotalInCache

---

## isCompleted

```
public boolean isCompleted()
```

**Returns:**

the Completed

---

## setCompleted

```
public void setCompleted(boolean completed)
```

**Parameters:**

completed - the Completed to set

---

## setTags

```
public void setTags(java.util.List tags)
```

**Parameters:**

tags - the Tags to set

---

## setTotalInCache

```
public void setTotalInCache(int totalInCache)
```

**Parameters:**

totalInCache - the TotalInCache to set

---



com.ge.ip.hds.historian.DataContracts

# Class CollectorType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.CollectorType
```

## All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class CollectorType
extends java.lang.Enum
```

## Fields

### CIMPLICITY

```
public static final CollectorType CIMPLICITY
    value = 12
```

---

### Calculation

```
public static final CollectorType Calculation
    value = 8
```

---

### Custom

```
public static final CollectorType Custom
    value = 16
```

---

### File

```
public static final CollectorType File
    value = 4
```

---

### MachineEdition

```
public static final CollectorType MachineEdition
    value = 14
```

---

## ManualEntry

```
public static final CollectorType ManualEntry  
    value = 6
```

---

## OPC

```
public static final CollectorType OPC  
    value = 3
```

---

## OPCAE

```
public static final CollectorType OPCA  
    value = 11
```

---

## Other

```
public static final CollectorType Other  
    value = 7
```

---

## PI

```
public static final CollectorType PI  
    value = 10
```

---

## PIDistributor

```
public static final CollectorType PIDistributor  
    value = 13
```

---

## PerformanceTag

```
public static final CollectorType PerformanceTag  
    value = 15
```

---

## ServerToServer

```
public static final CollectorType ServerToServer  
    value = 9
```

---

## ServerToServerDistributor

```
public static final CollectorType ServerToServerDistributor  
    value = 17
```

---

## Simulation

```
public static final CollectorType Simulation  
    value = 2
```

---

## Undefined

```
public static final CollectorType Undefined  
    value = 0
```

---

## WindowsPerfMon

```
public static final CollectorType WindowsPerfMon  
    value = 18
```

---

## iFix

```
public static final CollectorType iFix  
    value = 1
```

---

## iFixLabData

```
public static final CollectorType iFixLabData  
    value = 5
```

## Methods

### getCollectorType

```
public int getCollectorType()
```

**Returns:**

collectorType

---

## getCollectorType

```
public static CollectorType getCollectorType(int value)
```

This method retrieves CollectorType from given value

**Parameters:**

value - integer value of collectorType

**Returns:**

collectorType

---

## valueOf

```
public static CollectorType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.CollectorType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class ConditionCollectionComparisonType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.ConditionCollectionComparisonType
```

**All Implemented Interfaces:**

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class ConditionCollectionComparisonType
extends java.lang.Enum
```

## Fields

## Equal

```
public static final ConditionCollectionComparisonType Equal
value = 1
```

---

## GreaterThan

```
public static final ConditionCollectionComparisonType GreaterThan  
    value = 4
```

---

## GreaterThanEqual

```
public static final ConditionCollectionComparisonType GreaterThanEqual  
    value = 5
```

---

## LessThan

```
public static final ConditionCollectionComparisonType LessThan  
    value = 2
```

---

## LessThanEqual

```
public static final ConditionCollectionComparisonType LessThanEqual  
    value = 3
```

---

## NotEqual

```
public static final ConditionCollectionComparisonType NotEqual  
    value = 6
```

---

## Undefined

```
public static final ConditionCollectionComparisonType Undefined  
    value = 0
```

## Methods

### getConditionCollectionComparisonType

```
public int getConditionCollectionComparisonType()
```

**Returns:**

conditionCollectionComparisonType

---

## getConditionCollectionComparisonType

```
public static ConditionCollectionComparisonType  
getConditionCollectionComparisonType(int value)
```

### Parameters:

value - integer value of ConditionCollectionComparisonType

### Returns:

ConditionCollectionComparisonType

---

## valueOf

```
public static ConditionCollectionComparisonType valueOf(java.lang.String name)
```

---

## values

```
public static  
com.ge.ip.hds.historian.DataContracts.ConditionCollectionComparisonType[]  
values()
```

---

com.ge.ip.hds.historian.DataContracts

## Class DHSServiceInfo

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.DHSServiceInfo
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class DHSServiceInfo  
extends java.lang.Object
```

## DHSServiceInfo

The DHSServiceInfo object contains the configuration and status information for a node on the DHS system.

## Constructors

# DHSServiceInfo

```
public DHSServiceInfo()
```

## Methods

### getDHSServiceType

```
public DHSServiceType getDHSServiceType()
```

**Returns:**

DHSServiceType

---

### getLocalName

```
public java.lang.String getLocalName()
```

**Returns:**

localName

---

### getNodeName

```
public java.lang.String getNodeName()
```

**Returns:**

name of node

---

### getTCPPort

```
public int getTCPPort()
```

**Returns:**

tcpPort

---

## setDHSServiceType

```
public void setDHSServiceType(DHSServiceType dHSServiceType)
```

### Parameters:

dHSServiceType - DHSServiceType to set

---

## setLocalName

```
public void setLocalName(java.lang.String logicalName)
```

### Parameters:

logicalName - local name of node

---

## setNodeName

```
public void setNodeName(java.lang.String nodeName)
```

### Parameters:

nodeName - node name to set

---

## setTCPPort

```
public void setTCPPort(int tcpPort)
```

### Parameters:

tcpPort - tcpPort to set

---

com.ge.ip.hds.historian.DataContracts

## Class DHSServiceType

```
java.lang.Object
|
+-- java.lang.Enum
    |
    +-- com.ge.ip.hds.historian.DataContracts.DHSServiceType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class DHSServiceType
```



extends java.lang.Enum

## Fields

### ClientManager

```
public static final DHSServiceType ClientManager  
    value = 1
```

---

### ConfigManager

```
public static final DHSServiceType ConfigManager  
    value = 2
```

---

### DataArchiver

```
public static final DHSServiceType DataArchiver  
    value = 0
```

## Methods

### getDHSServiceType

```
public int getDHSServiceType()
```

**Returns:**

`DHSServiceType`

---

### getDHSServiceType

```
public static DHSServiceType getDHSServiceType(int value)
```

**Parameters:**

value - integer value of `DHSServiceType`

**Returns:**

`DHSServiceType`

---

## valueOf

```
public static DHSServiceType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.DHSServiceType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class DHSStorageProperty

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.DHSStorageProperty
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class DHSStorageProperty
extends java.lang.Object
```

---

## Constructors

### DHSStorageProperty

```
public DHSStorageProperty()
```

## Methods

### getArchiverServices

```
public com.ge.ip.hds.historian.DataContracts.DHSServiceInfo[]
getArchiverServices()
```

**Returns:**

array of DHSServiceInfo

---

## getDataStores

```
public java.lang.String[] getDataStores()
```

**Returns:**

List of DataStore names

---

## getId

```
public java.util.UUID getId()
```

**Returns:**

UUID

---

## getIsDefault

```
public boolean getIsDefault()
```

**Returns:**

IsDefault

---

## getLastModifiedTime

```
public java.util.Date getLastModifiedTime()
```

**Returns:**

lastModifiedTime

---

## getLastModifiedUser

```
public java.lang.String getLastModifiedUser()
```

**Returns:**

LastModifiedUser

---

## getNumberOfArchiverServices

```
public int getNumberOfArchiverServices()
```

**Returns:**

NumberOfArchiverServices

---

## getNumberOfDataStores

```
public int getNumberOfDataStores()
```

**Returns:**

NumberOfDataStores

---

## getStorageName

```
public java.lang.String getStorageName()
```

**Returns:**

DHS Storage name

---

## getType

```
public DHSSStorageType getType()
```

**Returns:**

DHSSStorageType

---

## seIsDefault

```
public void seIsDefault(boolean isDefault)
```

**Parameters:**

isDefault - set flag IsDefault

---

## setArchiverServices

```
public void  
setArchiverServices(com.ge.ip.hds.historian.DataContracts.DHSServiceInfo[]  
ArchiverServices)
```

### Parameters:

ArchiverServices - List of DHSServiceInfo to set

---

## setDataStores

```
public void setDataStores(java.lang.String[] DataStores)
```

### Parameters:

DataStores - List of DataStore names to set

---

## setId

```
public void setId(java.util.UUID Id)
```

### Parameters:

Id - UUID to set

---

## setLastModifiedTime

```
public void setLastModifiedTime(java.util.Date lastModifiedTime)
```

### Parameters:

lastModifiedTime - lastModifiedTime to set

---

## setLastModifiedUser

```
public void setLastModifiedUser(java.lang.String lastModifiedUser)
```

### Parameters:

lastModifiedUser - LastModifiedUser to set

---

## setNumberOfArchiverServices

```
public void setNumberOfArchiverServices(int NumberOfArchiverServices)
```

### Parameters:

NumberOfArchiverServices - NumberOfArchiverServices to set

---

## setNumberOfDataStores

```
public void setNumberOfDataStores(int NumberOfDataStores)
```

### Parameters:

NumberOfDataStores - NumberOfDataStores to set

---

## setStorageName

```
public void setStorageName(java.lang.String StorageName)
```

### Parameters:

StorageName - DHS storage name to set

---

## setType

```
public void setType(DHSStorageType StorageType)
```

### Parameters:

StorageType - DHS Storage type to set

---

com.ge.ip.hds.historian.DataContracts

## Class DHSStorageType

```
java.lang.Object
|
+-- java.lang.Enum
    |
    +-- com.ge.ip.hds.historian.DataContracts.DHSStorageType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class DHSStorageType
```

extends java.lang.Enum

## Fields

### LocalStorage

```
public static final DHSSStorageType LocalStorage  
    value = 0
```

---

### MirroredStorage

```
public static final DHSSStorageType MirroredStorage  
    value = 1
```

## Methods

### getDHSSStorageType

```
public int getDHSSStorageType()
```

**Returns:**

`DHSSStorageType`

---

### getDHSSStorageType

```
public static DHSSStorageType getDHSSStorageType(int value)
```

**Parameters:**

value - integer value of `DHSSStorageType`

**Returns:**

`DHSSStorageType`

---

### valueOf

```
public static DHSSStorageType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.DHSStorageType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class DataCollectionType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.DataCollectionType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class DataCollectionType
extends java.lang.Enum
```

## Fields

### Polled

```
public static final DataCollectionType Polled
    value = 2
```

### Unsolicited

```
public static final DataCollectionType Unsolicited
    value = 1
```

## Methods

### getDataCollectionType

```
public int getDataCollectionType()
```

#### Returns:

collectionType

---



## getDataCollectionType

```
public static DataCollectionType getDataCollectionType(int value)
```

### Parameters:

value - integer value of collectionType

### Returns:

collectionType

---

## valueOf

```
public static DataCollectionType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.DataCollectionType[]  
values()
```

---

com.ge.ip.hds.historian.DataContracts

## Class DataCriteria

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.DataCriteria
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class DataCriteria  
extends java.lang.Object
```

## DataCriteria

The DataCriteria object sets the criteria for the retrieval of DataValue records into a DataRecordset Object.

For example, you may want values between a certain start and end time.

## Constructors

# DataCriteria

```
public DataCriteria()
```

## Methods

### getCalculationMode

```
public CalculationModeType getCalculationMode()
```

**Returns:**

the CalculationMode

---

### getFilterComparisonMode

```
public FilterComparisonModeType getFilterComparisonMode()
```

**Returns:**

the FilterComparisonMode

---

### getFilterComparisonValue

```
public java.lang.Object getFilterComparisonValue()
```

**Returns:**

the FilterComparisonValue

---

### getFilterExpression

```
public java.lang.String getFilterExpression()
```

**Returns:**

the FilterExpression

---

## getFilterMode

```
public FilterModeType getFilterMode()
```

**Returns:**

the FilterMode

---

## getFilterTag

```
public java.lang.String getFilterTag()
```

**Returns:**

the FilterTag

---

## getIntervalMicroseconds

```
public long getIntervalMicroseconds()
```

**Returns:**

the IntervalMicroseconds

---

## getNumberOfSamples

```
public int getNumberOfSamples()
```

**Returns:**

the NumberOfSamples

---

## getQueryModifiers

```
public long getQueryModifiers()
```

**Returns:**

the QueryModifiers

---

## getSamplingMode

```
public SamplingModeType getSamplingMode()
```

**Returns:**

the SamplingMode

---

## getStart

```
public java.util.Date getStart()
```

**Returns:**

the Start

---

## getStateValue

```
public java.lang.Object getStateValue()
```

**Returns:**

the StateValue

---

## getTagNames

```
public java.util.List getTagNames()
```

**Returns:**

the TagNames

---

## isBackwardTimeOrder

```
public boolean isBackwardTimeOrder()
```

**Returns:**

the BackwardTimeOrder

---

## setBackwardTimeOrder

```
public void setBackwardTimeOrder(boolean backwardTimeOrder)
```

### Parameters:

backwardTimeOrder - the BackwardTimeOrder to set

---

## setCalculationMode

```
public void setCalculationMode(CalculationModeType calculationMode)
```

### Parameters:

calculationMode - the CalculationMode to set

---

## setFilterComparisonMode

```
public void setFilterComparisonMode(FilterComparisonModeType  
filterComparisonMode)
```

### Parameters:

filterComparisonMode - the FilterComparisonMode to set

---

## setFilterComparisonValue

```
public void setFilterComparisonValue(java.lang.Object filterComparisonValue)
```

### Parameters:

filterComparisonValue - the FilterComparisonValue to set

---

## setFilterExpression

```
public void setFilterExpression(java.lang.String filterExpression)
```

### Parameters:

filterExpression - the FilterExpression to set

---

## setFilterMode

```
public void setFilterMode(FilterModeType filterMode)
```

### Parameters:

filterMode - the FilterMode to set

---

## setFilterTag

```
public void setFilterTag(java.lang.String filterTag)
```

### Parameters:

filterTag - the FilterTag to set

---

## setIntervalMicroseconds

```
public void setIntervalMicroseconds(long intervalMicroseconds)
```

### Parameters:

intervalMicroseconds - the IntervalMicroseconds to set

---

## setNumberOfSamples

```
public void setNumberOfSamples(int numberOfSamples)
```

### Parameters:

numberOfSamples - the NumberOfSamples to set

---

## setQueryModifiers

```
public void setQueryModifiers(long queryModifiers)
```

### Parameters:

queryModifiers - the QueryModifiers to set

---

## setSamplingMode

```
public void setSamplingMode(SamplingModeType samplingMode)
```

### Parameters:

samplingMode - the SamplingMode to set

---

## setStart

```
public void setStart(java.util.Date start)
```

### Parameters:

start - the Start to set

---

## setStateValue

```
public void setStateValue(java.lang.Object stateValue)
```

### Parameters:

stateValue - the StateValue to set

---

## setTagnames

```
public void setTagnames(java.util.List tagnames)
```

### Parameters:

tagnames - the Tagnames to set

---

com.ge.ip.hds.historian.DataContracts

## Class DataDensityType

```
java.lang.Object
|
+-- java.lang.Enum
    |
    +-- com.ge.ip.hds.historian.DataContracts.DataDensityType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class DataDensityType
```

extends java.lang.Enum

## Fields

### DataDensityMaximum

```
public static final DataDensityType DataDensityMaximum  
    value = 7
```

---

### DataDensityMedium

```
public static final DataDensityType DataDensityMedium  
    value = 4
```

---

### DataDensityMinimum

```
public static final DataDensityType DataDensityMinimum  
    value = 1
```

---

### DataDensityUndefined

```
public static final DataDensityType DataDensityUndefined  
    value = 0
```

## Methods

### getDataDensityType

```
public int getDataDensityType()
```

**Returns:**

dataDensityType

---

### getDataDensityType

```
public static DataDensityType getDataDensityType(int value)
```

**Parameters:**

value - integer value of dataDensityType

**Returns:**

dataDensityType



---

## valueOf

```
public static DataDensityType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.DataDensityType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class DataProperty

```
java.lang.Object
|
+--DataSample
    |
    +--com.ge.ip.hds.historian.DataContracts.DataProperty
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class DataProperty
extends DataSample
```

## Constructors

### DataProperty

```
public DataProperty()
```

## Methods

### getNativeDataType

```
public NativeDataType getNativeDataType()
```

**Returns:**

NativeDataType

---

## getValueDataType

```
public java.lang.String getValueDataType()
```

### Returns:

ValueDataType

---

## setDataType

```
public void setDataType(NativeDataType nativeDataType)
```

### Parameters:

nativeDataType - NativeDataType to set

---

## setValueDataType

```
public void setValueDataType(java.lang.String valueDataType)
```

### Parameters:

valueDataType - ValueDataType to set

---

**com.ge.ip.hds.historian.DataContracts**

# Class DataSample

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.DataSample
```

### Direct Known Subclasses:

[DataProperty](#)

---

< [Constructors](#) > < [Methods](#) >

---

```
public class DataSample  
extends java.lang.Object
```

# DataSample

The DataSample Parameter specifies the number of data samples to retrieve from the archive.

Samples are evenly spaced within the time range defined by start time and end time for most sampling modes.

# Constructors

## DataSample

```
public DataSample()
```

# Methods

## SetDoubleValue

```
public void SetDoubleValue(java.lang.Double doubleValue)
```

**Parameters:**

doubleValue - double Value to set

---

## SetStringValue

```
public void SetStringValue(java.lang.String value)
```

**Parameters:**

value - String Value to set

---

## getArrayValue

```
public ArrayValue getArrayValue(NativeDataType dataType)
```

**Parameters:**

dataType - NativeDataType

**Returns:**

ArrayValue

---

## getBlobValue

```
public byte[] getBlobValue()
```

**Returns:**

Value as blob

---

## getBooleanValue

```
public boolean getBooleanValue()
```

**Returns:**

Value as boolean

---

## getDoubleValue

```
public double getDoubleValue()
```

**Returns:**

Value as double

---

## getIntegerValue

```
public int getIntegerValue()
```

**Returns:**

Value as integer

---

## getLongValue

```
public long getLongValue()
```

**Returns:**

Value as long

---

## getMultipleFieldValue

```
public com.google.gson.internal.LinkedTreeMap getMultipleFieldValue()
```

**Returns:**

Map of MultipleFieldValue

---

## getMultipleFieldValue

```
public MultiFieldValue getMultipleFieldValue(UserDefinedType userDefinedType)
```

**Parameters:**

userDefinedType - UserDefinedType

**Returns:**

MultiFieldValue

---

## getQuality

```
public QualityStatus getQuality()
```

Data type consisting of a set of named values called elements, members or enumerators of the type. Property values reflect quality as "quality is good" or " quality is bad".

Value and Status: 0 â€œ Bad ,1 â€œ Uncertain, 2 â€œ NA, 3 â€œ Good

**Returns:**

QualityStatus

---

## getStringValue

```
public java.lang.String getStringValue()
```

**Returns:**

Value as String

---

## getTimeStamp

```
public java.util.Date getTimeStamp()
```

Start and end times of the query. If no start time is specified, the start time is two hours prior to running the query.

If no EndTime is specified, the end time is the time the query runs.

**Returns:**

TimeStamp

---

## getValue

```
public java.lang.String getValue()
```

Format for a multi field tag like { "field1":"1","field2":"1000.0" } (user defined type tag).  
JavaScript code can parse the value string as a JSON object. All field values are string.

**Returns:**

Value

---

## isNullValue

```
public boolean isNullValue()
```

---

## setArrayValue

```
public void setArrayValue(ArrayValue arrayValue)
```

**Parameters:**

arrayValue - ArrayValue to set

---

## setBlobValue

```
public void setBlobValue(byte[] blobValue)
```

**Parameters:**

blobValue - blob Value to set

---

## setBooleanValue

```
public void setBooleanValue(boolean boolValue)
```

**Parameters:**

boolValue - boolean Value to set

---

## setIntegerValue

```
public void setIntegerValue(java.lang.Integer intValue)
```

### Parameters:

intValue - integer Value to set

---

## setLongValue

```
public void setLongValue(java.lang.Long longValue)
```

### Parameters:

longValue - long Value to set

---

## setMultipleFieldValue

```
public void setMultipleFieldValue(MultiFieldValue multiFieldValue)
```

### Parameters:

multiFieldValue - MultiFieldValue to set

---

## setQuality

```
public void setQuality(QualityStatus quality)
```

### Parameters:

quality - QualityStatus to set

---

## setTimeStamp

```
public void setTimeStamp(java.util.Date timestamp)
```

### Parameters:

timestamp - TimeStamp to set

---

## setValue

```
public void setValue(java.lang.String value)
```

### Parameters:

value - Value to set

---

com.ge.ip.hds.historian.DataContracts

## Class DataStorageType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.DataStorageType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class DataStorageType
extends java.lang.Enum
```

## Fields

### HistoricalStore

```
public static final DataStorageType HistoricalStore
value = 0
```

### ScadaBufferStore

```
public static final DataStorageType ScadaBufferStore
value = 1
```

## Methods

### getDataStorageType

```
public int getDataStorageType()
```

### Returns:

dataStorageType



---

## getDataStorageType

```
public static DataStorageType getDataStorageType(int value)
```

### Parameters:

value - integer value of dataStorageType

### Returns:

dataStorageType

---

## valueOf

```
public static DataStorageType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.DataStorageType[] values()
```

---

**com.ge.ip.hds.historian.DataContracts**

# Class DataStore

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.DataStore
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class DataStore  
extends java.lang.Object
```

## Constructors

### DataStore

```
public DataStore()
```

## Methods

## getDHSStorageName

```
public java.lang.String getDHSStorageName()
```

**Returns:**

name of DHSStorage

---

## getDescription

```
public java.lang.String getDescription()
```

**Returns:**

Description

---

## getHref

```
public java.lang.String getHref(java.lang.String relation)
```

---

## getId

```
public java.util.UUID getId()
```

**Returns:**

UUID

---

## getIsDefault

```
public boolean getIsDefault()
```

**Returns:**

IsDefault

---

## getIsSystem

```
public boolean getIsSystem()
```

**Returns:**

IsSystem

---

## getLinks

```
public com.ge.ip.hds.historian.DataContracts.Link[] getLinks()
```

**Returns:**

array of links

---

## getName

```
public java.lang.String getName()
```

**Returns:**

name of data store

---

## getNumberOfTags

```
public int getNumberOfTags()
```

**Returns:**

NumberOfTags

---

## getState

```
public DataStoreState getState()
```

**Returns:**

DataStoreState

---

## getStorageType

```
public DataStorageType getStorageType()
```

**Returns:**

DataStorageType

---

## setDHSStorageName

```
public void setDHSStorageName(java.lang.String DHSStorageName)
```

### Parameters:

DHSStorageName - DHSStorageName to set

---

## setDescription

```
public void setDescription(java.lang.String description)
```

### Parameters:

description - Description to set

---

## setId

```
public void setId(java.util.UUID id)
```

### Parameters:

id - UUID to set

---

## setIsDefault

```
public void setIsDefault(boolean isDefault)
```

### Parameters:

isDefault - set flag IsDefault

---

## setIsSystem

```
public void setIsSystem(boolean isSystem)
```

### Parameters:

isSystem - set flag IsSystem

---

## setLinks

```
public void setLinks(com.ge.ip.hds.historian.DataContracts.Link[] links)
```

### Parameters:

links - array of links to set

---

## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - Data store name to set

---

## setNumberOfTags

```
public void setNumberOfTags(int numberOfTags)
```

### Parameters:

numberOfTags - NumberOfTags to set

---

## setState

```
public void setState(DataStoreState state)
```

### Parameters:

state - DataStoreState to set

---

## setStorageType

```
public void setStorageType(DataStorageType storageType)
```

### Parameters:

storageType - DataStorageType to set

---

## toString

```
public java.lang.String toString()
```

### Overrides:

toString in class java.lang.Object

---

com.ge.ip.hds.historian.DataContracts

## Class DataStoreState

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.DataStoreState
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class DataStoreState
extends java.lang.Enum
```

## Fields

### DataStoreInError

```
public static final DataStoreState DataStoreInError
value = 3
```

---

### DataStoreRunning

```
public static final DataStoreState DataStoreRunning
value = 2
```

---

### DataStoreStarting

```
public static final DataStoreState DataStoreStarting
value = 1
```

---

### DataStoreStopped

```
public static final DataStoreState DataStoreStopped
    value = 0
```

## Methods

### getDataStoreState

```
public int getDataStoreState()
```

**Returns:**

dataStoreState

### getDataStoreState

```
public static DataStoreState getDataStoreState(int value)
```

**Parameters:**

value - integer value of dataStoreState

**Returns:**

dataStoreState

### valueOf

```
public static DataStoreState valueOf(java.lang.String name)
```

### values

```
public static com.ge.ip.hds.historian.DataContracts.DataStoreState[] values()
```

**com.ge.ip.hds.historian.DataContracts**

## Class ElementValue

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.ElementValue
```

< [Constructors](#) > < [Methods](#) >

```
public class ElementValue
```

extends java.lang.Object

## Constructors

### ElementValue

```
public ElementValue()
```

## Methods

### SetDoubleValue

```
public void SetDoubleValue(java.lang.Double doubleValue)
```

**Parameters:**

doubleValue - double Value to set

---

### SetStringValue

```
public void SetStringValue(java.lang.String value)
```

**Parameters:**

value - String Value to set

---

### getBlobValue

```
public byte[] getBlobValue()
```

**Returns:**

blob value

---

### getBooleanValue

```
public boolean getBooleanValue()
```

**Returns:**

boolean value

---



## getDataType

```
public NativeDataType getDataType()
```

**Returns:**

NativeDataType

---

## getDoubleValue

```
public double getDoubleValue()
```

**Returns:**

Double value

---

## getIntegerValue

```
public int getIntegerValue()
```

**Returns:**

integer value

---

## getLongValue

```
public long getLongValue()
```

**Returns:**

long value

---

## getStringValue

```
public java.lang.String getStringValue()
```

**Returns:**

String Value

---

## getValue

```
public java.lang.String getValue()
```

**Returns:**

Value

---

## isNullValue

```
public boolean isNullValue()
```

**Returns:**

true, if value is null

---

## setBlobValue

```
public void setBlobValue(byte[] blobValue)
```

**Parameters:**

blobValue - blob Value to set

---

## setBooleanValue

```
public void setBooleanValue(boolean boolValue)
```

**Parameters:**

boolValue - boolean Value to set

---

## setDataType

```
public void setDataType(NativeDataType dataType)
```

**Parameters:**

dataType - NativeDataType to set

---

## setIntegerValue

```
public void setIntegerValue(java.lang.Integer intValue)
```

### Parameters:

intValue - integer Value to set

---

## setLongValue

```
public void setLongValue(java.lang.Long longValue)
```

### Parameters:

longValue - long Value to set

---

## setValue

```
public void setValue(java.lang.String value)
```

### Parameters:

value - Value to set

---

com.ge.ip.hds.historian.DataContracts

# Class EnumeratedSetProperty

```
java.lang.Object  
|  
+-- EnumeratedSetPropertyBase  
|  
+-- com.ge.ip.hds.historian.DataContracts.EnumeratedSetProperty
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class EnumeratedSetProperty  
extends EnumeratedSetPropertyBase
```

## Constructors

### EnumeratedSetProperty

```
public EnumeratedSetProperty()
```

## Methods

### getAdministratorSecurityGroup

```
public java.lang.String getAdministratorSecurityGroup()
```

**Returns:**

the AdministratorSecurityGroup

---

### getEnumeratedState

```
public java.util.List getEnumeratedState()
```

**Returns:**

the EnumeratedState

---

### getLastModifiedTime

```
public java.util.Date getLastModifiedTime()
```

**Returns:**

the LastModifiedTime

---

### getLastModifiedUser

```
public java.lang.String getLastModifiedUser()
```

**Returns:**

the LastModifiedUser

---

### getNumberOfStates

```
public int getNumberOfStates()
```

**Returns:**

the NumberOfStates

---

## getNumberOfTagReferences

```
public int getNumberOfTagReferences()
```

**Returns:**

the NumberOfTagReferences

---

## getStateRawValueDataType

```
public NativeDataType getStateRawValueDataType()
```

**Returns:**

the StateRawValueDataType

---

## setAdministratorSecurityGroup

```
public void setAdministratorSecurityGroup(java.lang.String administratorSecurityGroup)
```

**Parameters:**

administratorSecurityGroup - the AdministratorSecurityGroup to set

---

## setEnumeratedState

```
public void setEnumeratedState(java.util.List enumeratedState)
```

**Parameters:**

enumeratedState - the EnumeratedState to set

---

## setLastModifiedTime

```
public void setLastModifiedTime(java.util.Date lastModifiedTime)
```

**Parameters:**

lastModifiedTime - the LastModifiedTime to set

---

## setLastModifiedUser

```
public void setLastModifiedUser(java.lang.String lastModifiedUser)
```

### Parameters:

lastModifiedUser - the LastModifiedUser to set

---

## setNumberOfStates

```
public void setNumberOfStates(int numberOfStates)
```

### Parameters:

numberOfStates - the NumberOfStates to set

---

## setNumberOfTagReferences

```
public void setNumberOfTagReferences(int numberOfTagReferences)
```

### Parameters:

numberOfTagReferences - the NumberOfTagReferences to set

---

## setStateRawValueType

```
public void setStateRawValueType(NativeDataType stateRawValueType)
```

### Parameters:

stateRawValueType - the StateRawValueType to set

---

com.ge.ip.hds.historian.DataContracts

# Class EnumeratedSetPropertyBase

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.EnumeratedSetPropertyBase
```

### Direct Known Subclasses:

[EnumeratedSetProperty](#)

---

< [Constructors](#) > < [Methods](#) >

---

```
public class EnumeratedSetPropertyBase  
extends java.lang.Object
```

## Constructors

### EnumeratedSetPropertyBase

```
public EnumeratedSetPropertyBase()
```

## Methods

### getDescription

```
public java.lang.String getDescription()
```

**Returns:**

the Description

---

### getLinks

```
public java.util.List getLinks()
```

**Returns:**

the Links

---

### getName

```
public java.lang.String getName()
```

**Returns:**

the Name

---

### setDescription

```
public void setDescription(java.lang.String description)
```

**Parameters:**

description - the Description to set

---

## setLinks

```
public void setLinks(java.util.List links)
```

### Parameters:

links - the Links to set

---

## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - the Name to set

---

com.ge.ip.hds.historian.DataContracts

# Class EnumeratedSetStateName

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.EnumeratedSetStateName
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class EnumeratedSetStateName  
extends java.lang.Object
```

## Constructors

### EnumeratedSetStateName

```
public EnumeratedSetStateName()
```

## Methods

### getReservedForFuture

```
public int getReservedForFuture()
```

### Returns:

the ReservedForFuture



---

## getStateName

```
public java.lang.String getStateName()
```

**Returns:**

the StateName

---

## setReservedForFuture

```
public void setReservedForFuture(int reservedForFuture)
```

**Parameters:**

reservedForFuture - the ReservedForFuture to set

---

## setStateName

```
public void setStateName(java.lang.String stateName)
```

**Parameters:**

stateName - the StateName to set

---

**com.ge.ip.hds.historian.DataContracts**

# Class EnumeratedSetStateProperty

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.EnumeratedSetStateProperty
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class EnumeratedSetStateProperty  
extends java.lang.Object
```

## Constructors

### EnumeratedSetStateProperty

```
public EnumeratedSetStateProperty()
```

## Methods

### getDescription

```
public java.lang.String getDescription()
```

**Returns:**

the Description

---

### getNumStatesNames

```
public int getNumStatesNames()
```

**Returns:**

the NumStatesNames

---

### getStateHighRawValue

```
public java.lang.String getStateHighRawValue()
```

**Returns:**

the StateHighRawValue

---

### getStateLowRawValue

```
public java.lang.String getStateLowRawValue()
```

**Returns:**

the StateLowRawValue

---

### getStatesNames

```
public java.util.List getStatesNames()
```

**Returns:**

the StatesNames

---

## setDescription

```
public void setDescription(java.lang.String description)
```

### Parameters:

description - the Description to set

---

## setNumStatesNames

```
public void setNumStatesNames(int numStatesNames)
```

### Parameters:

numStatesNames - the NumStatesNames to set

---

## setStateHighRawValue

```
public void setStateHighRawValue(java.lang.String stateHighRawValue)
```

### Parameters:

stateHighRawValue - the StateHighRawValue to set

---

## setStateLowRawValue

```
public void setStateLowRawValue(java.lang.String stateLowRawValue)
```

### Parameters:

stateLowRawValue - the StateLowRawValue to set

---

## setStatesNames

```
public void setStatesNames(java.util.List statesNames)
```

### Parameters:

statesNames - the StatesNames to set

---

com.ge.ip.hds.historian.DataContracts

# Class ErrorCode

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.ErrorCode
```

## All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class ErrorCode
extends java.lang.Enum
```

# ErrorCode

ErrorCode specifies what type of error has occurred at historian server side

## Fields

### ARCHIVE\_IN\_SYNC

```
public static final ErrorCode ARCHIVE_IN_SYNC
    value = -40
```

### AccessDenied

```
public static final ErrorCode AccessDenied
    value = -8
```

Insufficient permissions for operation.

### AlarmArchiverUnavailable

```
public static final ErrorCode AlarmArchiverUnavailable
    value = -26
```

Alarm and Event subsystem unreachable.

### ArgumentException

```
public static final ErrorCode ArgumentException
    value = -27
```

A supplied argument is invalid.

---

## ArgumentNullException

```
public static final ErrorCode ArgumentNullException  
    value = -28
```

A supplied argument is NULL.

---

## ArgumentOutOfRangeException

```
public static final ErrorCode ArgumentOutOfRangeException  
    value = -29
```

A supplied argument is outside the valid range.

---

## BackupInsufficientSpace

```
public static final ErrorCode BackupInsufficientSpace  
    value = -22
```

Insufficient disk space to perform backup.

---

## CircularReference

```
public static final ErrorCode CircularReference  
    value = -21
```

Circular reference detected in calculation.

---

## ClientBufferManagerCommunicationError

```
public static final ErrorCode ClientBufferManagerCommunicationError  
    value = 7
```

Service call to central buffer server fail

---

## CollectorNotFound

```
public static final ErrorCode CollectorNotFound  
    value = -4
```

The given collector does not exist on the server.

---

## DHS\_SERVICE\_IN\_USE

```
public static final ErrorCode DHS_SERVICE_IN_USE
    value = -37
```

---

## DHS\_STORAGE\_IN\_USE

```
public static final ErrorCode DHS_STORAGE_IN_USE
    value = -38
```

---

## DHS\_TOO\_MANY\_NODES\_IN\_MIRROR

```
public static final ErrorCode DHS_TOO_MANY_NODES_IN_MIRROR
    value = -39
```

---

## DeleteOutsideActiveRange

```
public static final ErrorCode DeleteOutsideActiveRange
    value = -25
```

Attempted data delete outside allowed modification interval.

---

## DuplicateCollector

```
public static final ErrorCode DuplicateCollector
    value = -19
```

The given collector name already exists on the server.

---

## DuplicateData

```
public static final ErrorCode DuplicateData
    value = -6
```

Attempt to overwrite an existing data sample.

---

## EXISTING\_USERDEF\_REFERENCES

```
public static final ErrorCode EXISTING_USERDEF_REFERENCES
    value = -34
```

---

## Failed

```
public static final ErrorCode Failed
    value = -1
```

Operation failed.

---

## INVALID\_ARCHIVE\_NAME

```
public static final ErrorCode INVALID_ARCHIVE_NAME  
    value = -41
```

---

## INVALID\_DHS\_NODENAME

```
public static final ErrorCode INVALID_DHS_NODENAME  
    value = -36
```

---

## INVALID\_FILENAME

```
public static final ErrorCode INVALID_FILENAME  
    value = -43
```

---

## INVALID\_TAGNAME\_DELETEDTAG

```
public static final ErrorCode INVALID_TAGNAME_DELETEDTAG  
    value = -35
```

---

## InternalLicenseError

```
public static final ErrorCode InternalLicenseError  
    value = -17  
    Internal license error.
```

---

## InvalidCustomDataType

```
public static final ErrorCode InvalidCustomDataType  
    value = -33  
    The Custom data type is not supported.
```

---

## InvalidDataStore

```
public static final ErrorCode InvalidDataStore  
    value = -31  
    The requested data store was not found.
```

---

## InvalidEnumeratedSet

```
public static final ErrorCode InvalidEnumeratedSet
    value = -30
    The requested Enumerated Set was not found.
```

---

## InvalidHistorianServer

```
public static final ErrorCode InvalidHistorianServer
    value = 12
    No valid server or historian server name isn't in the server list
```

---

## InvalidParameter

```
public static final ErrorCode InvalidParameter
    value = 10
    Invalid parameter
```

---

## InvalidServerVersion

```
public static final ErrorCode InvalidServerVersion
    value = -23
    Operation unsupported due to server version.
```

---

## InvalidSession

```
public static final ErrorCode InvalidSession
    value = 1
    Session id is invalid
```

---

## InvalidTagname

```
public static final ErrorCode InvalidTagname
    value = -14
    The requested tag was not found.
```

---

## InvalidUsername

```
public static final ErrorCode InvalidUsername
    value = -7
    Bad user name or password.
```

---



## LicensedConnectionCountExceeded

```
public static final ErrorCode LicensedConnectionCountExceeded  
    value = -16
```

Number of licensed server connections exceeded.

---

## LicensedTagCountExceeded

```
public static final ErrorCode LicensedTagCountExceeded  
    value = -15
```

Number of licensed tags exceeded.

---

## NoValidClientBufferManager

```
public static final ErrorCode NoValidClientBufferManager  
    value = 4
```

No valid client buffer manager

---

## NoValue

```
public static final ErrorCode NoValue  
    value = 18
```

No available tag data.

---

## NoValueInDataSet

```
public static final ErrorCode NoValueInDataSet  
    value = 5
```

No value in returned dataset

---

## NotConnected

```
public static final ErrorCode NotConnected  
    value = -3
```

Not connected to Historian server.

---

## NotLicensed

```
public static final ErrorCode NotLicensed  
    value = -20
```

Server or feature is not licensed.

---

## NotPermitted

```
public static final ErrorCode NotPermitted
    value = -32
    Operation not permitted.
```

---

## NotSupported

```
public static final ErrorCode NotSupported
    value = -5
    Operation not supported.
```

---

## QueryResultSizeExceeded

```
public static final ErrorCode QueryResultSizeExceeded
    value = -24
    Upper limit on query results exceeded.
```

---

## SessionExpired

```
public static final ErrorCode SessionExpired
    value = 2
    Session has expired
```

---

## Success

```
public static final ErrorCode Success
    value = 0
    Operation successful.
```

---

## TOO\_MANY\_RESYNC\_TASKS

```
public static final ErrorCode TOO_MANY_RESYNC_TASKS
    value = -42
```

---

## TagNotExisting

```
public static final ErrorCode TagNotExisting
    value = 6
    Tag doesn't exist
```

---

## TagSearchResultIsHuge

```
public static final ErrorCode TagSearchResultIsHuge
    value = 11
    Tag Search Criteria result was more than 5000
```

---

## TagTypeNotSupported

```
public static final ErrorCode TagTypeNotSupported
    value = 8
    Tag type doesn't support
```

---

## Timeout

```
public static final ErrorCode Timeout
    value = -2
    Operation failed due to timeout.
```

---

## UnknownError

```
public static final ErrorCode UnknownError
    value = 3
    Unknow error, please check server log
```

---

## ValueTypeNotMatchTagDataType

```
public static final ErrorCode ValueTypeNotMatchTagDataType
    value = 9
    Value type doesn't match tag data type
```

---

## WriteArchiveOffline

```
public static final ErrorCode WriteArchiveOffline
    value = -10
    Attempted data write to an offline archive.
```

---

## WriteArchiveReadOnly

```
public static final ErrorCode WriteArchiveReadOnly
    value = -11
```

Attempted data write to a read-only archive.

---

## WriteInFuture

```
public static final ErrorCode WriteInFuture  
    value = -9
```

Attempted data write too far in the future.

---

## WriteNoArchiveAvailable

```
public static final ErrorCode WriteNoArchiveAvailable  
    value = -13
```

Attempted data write with no available archives.

---

## WriteOutsideActiveRange

```
public static final ErrorCode WriteOutsideActiveRange  
    value = -12
```

Attempted data write beyond the configured active range.

---

## Methods

### getErrorCode

```
public int getErrorCode()
```

This method gets value of errorcode

**Returns:**

integer value

---

### getErrorCode

```
public static ErrorCode getErrorCode(int value)
```

This method retrieves errorcode from given value

**Parameters:**

value - integer

**Returns:**

ErrorCode

---

## valueOf

```
public static ErrorCode valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.ErrorCode[] values()
```

---

**com.ge.ip.hds.historian.DataContracts**

# Class FieldValue

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.FieldValue
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class FieldValue  
extends java.lang.Object
```

## Constructors

### FieldValue

```
public FieldValue()
```

## Methods

### SetDoubleValue

```
public void SetDoubleValue(java.lang.Double doubleValue)
```

**Parameters:**

doubleValue - double value to set

---

## SetStringValue

```
public void SetStringValue(java.lang.String value)
```

### Parameters:

value - String value to set

---

## getBlobValue

```
public byte[] getBlobValue()
```

### Returns:

blob value

---

## getBooleanValue

```
public boolean getBooleanValue()
```

### Returns:

boolean value

---

## getDataType

```
public NativeDataType getDataType()
```

### Returns:

NativeDataType

---

## getDoubleValue

```
public double getDoubleValue()
```

### Returns:

double value

---

## getIntegerValue

```
public int getIntegerValue()
```

**Returns:**

integer value

---

## getLongValue

```
public long getLongValue()
```

**Returns:**

long value

---

## getName

```
public java.lang.String getName()
```

**Returns:**

name

---

## getStringValue

```
public java.lang.String getStringValue()
```

**Returns:**

String value

---

## getValue

```
public java.lang.String getValue()
```

**Returns:**

value

---

## isNullValue

```
public boolean isNullValue()
```

**Returns:**

true, if value is null

---

## setBlobValue

```
public void setBlobValue(byte[] blobValue)
```

**Parameters:**

blobValue - blob value to set

---

## setBooleanValue

```
public void setBooleanValue(boolean boolValue)
```

**Parameters:**

boolValue - boolean value to set

---

## setDataType

```
public void setDataType(NativeDataType dataType)
```

**Parameters:**

dataType - NativeDataType to set

---

## setIntegerValue

```
public void setIntegerValue(java.lang.Integer intValue)
```

**Parameters:**

intValue - integer value to set

---



## setLongValue

```
public void setLongValue(java.lang.Long longValue)
```

### Parameters:

longValue - long value to set

---

## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - name to set

---

## setValue

```
public void setValue(java.lang.String value)
```

### Parameters:

value - value to set

---

com.ge.ip.hds.historian.DataContracts

# Class FilterComparisonModeType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.FilterComparisonModeType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class FilterComparisonModeType
extends java.lang.Enum
```

## Fields

### AllBitsNotSet

```
public static final FilterComparisonModeType AllBitsNotSet
    value = 14
```

---

## AllBitsSet

```
public static final FilterComparisonModeType AllBitsSet
    value = 11
```

---

## AnyBitNotSet

```
public static final FilterComparisonModeType AnyBitNotSet
    value = 13
```

---

## AnyBitSet

```
public static final FilterComparisonModeType AnyBitSet
    value = 12
```

---

## Equal

```
public static final FilterComparisonModeType Equal
    value = 1
```

---

## EqualFirst

```
public static final FilterComparisonModeType EqualFirst
    value = 2
```

---

## EqualLast

```
public static final FilterComparisonModeType EqualLast
    value = 3
```

---

## GreaterThan

```
public static final FilterComparisonModeType GreaterThan
    value = 6
```

---

## GreaterThanEqual

```
public static final FilterComparisonModeType GreaterThanEqual
```

value = 8

---

## InAlarmCondition

```
public static final FilterComparisonModeType InAlarmCondition
    value = 9
```

---

## InAlarmSubCondition

```
public static final FilterComparisonModeType InAlarmSubCondition
    value = 10
```

---

## LessThan

```
public static final FilterComparisonModeType LessThan
    value = 5
```

---

## LessThanEqual

```
public static final FilterComparisonModeType LessThanEqual
    value = 7
```

---

## NotEqual

```
public static final FilterComparisonModeType NotEqual
    value = 4
```

---

## Undefined

```
public static final FilterComparisonModeType Undefined
    value = 0
```

---

## Methods

### getFilterComparisonModeType

```
public int getFilterComparisonModeType()
```

**Returns:**

integer value of filterComparisonModeType

---

## getFilterComparisonModeType

```
public static FilterComparisonModeType getFilterComparisonModeType(int value)
```

### Parameters:

value - integer value of filterComparisonModeType

### Returns:

filterComparisonModeType

---

## valueOf

```
public static FilterComparisonModeType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.FilterComparisonModeType[]  
values()
```

---

com.ge.ip.hds.historian.DataContracts

## Class FilterModeType

```
java.lang.Object  
|  
+-- java.lang.Enum  
    |  
    +-- com.ge.ip.hds.historian.DataContracts.FilterModeType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class FilterModeType  
extends java.lang.Enum
```

## FilterModeType

The FilterModeType parameter defines how time periods before and after transitions in the filter condition should be handled.

## Fields

## AfterTime

```
public static final FilterModeType AfterTime  
    value = 3
```

Retrieves data from the timestamp of the True filter condition to the timestamp of the next False condition.

---

## BeforeAndAfterTime

```
public static final FilterModeType BeforeAndAfterTime  
    value = 4
```

Retrieves data from the timestamp of the last False filter condition to the timestamp of the next False condition.

---

## BeforeTime

```
public static final FilterModeType BeforeTime  
    value = 2
```

Retrieves data from the timestamp of the last False filter condition to the timestamp of the next True condition.

---

## ExactTime

```
public static final FilterModeType ExactTime  
    value = 1
```

Retrieves data for the exact times that the filter condition is True.

---

## Undefined

```
public static final FilterModeType Undefined  
    value = 0
```

## Methods

### getFilterModeType

```
public int getFilterModeType()
```

**Returns:**

integer value of filterModeType

---

## getFilterModeType

```
public static FilterModeType getFilterModeType(int value)
```

### Parameters:

value - integer value of filterModeType

### Returns:

filterModeType

---

## valueOf

```
public static FilterModeType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.FilterModeType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class HierarchicalBrowseResponse

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.HierarchicalBrowseResponse
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class HierarchicalBrowseResponse  
extends java.lang.Object
```

## Constructors

### HierarchicalBrowseResponse

```
public HierarchicalBrowseResponse()
```

---

## Methods

## getFullLeafNames

```
public java.util.List getFullLeafNames()
```

**Returns:**

the FullLeafNames

---

## getFullNodeNames

```
public java.util.List getFullNodeNames()
```

**Returns:**

the FullNodeNames

---

## getLeafNames

```
public java.util.List getLeafNames()
```

**Returns:**

the LeafNames

---

## getNodeNames

```
public java.util.List getNodeNames()
```

**Returns:**

the NodeNames

---

## getTags

```
public java.util.List getTags()
```

**Returns:**

the Tags

---

## setFullNodeNames

```
public void setFullNodeNames(java.util.List FullNodeNames)
```

### Parameters:

FullNodeNames - the FullNodeNames to set

---

## setNodeNames

```
public void setNodeNames(java.util.List NodeNames)
```

### Parameters:

NodeNames - the NodeNames to set

---

## setTags

```
public void setTags(java.util.List Tags)
```

### Parameters:

Tags - the Tags to set

---

com.ge.ip.hds.historian.DataContracts

# Class HistorianConfiguration

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.HistorianConfiguration
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class HistorianConfiguration  
extends java.lang.Object
```

## Constructors

### HistorianConfiguration

```
public HistorianConfiguration()
```



## Methods

### getActualDataStores

```
public long getActualDataStores()
```

**Returns:**

the ActualDataStores

---

### getActualScadaBufferTags

```
public long getActualScadaBufferTags()
```

**Returns:**

the ActualScadaBufferTags

---

### getActualTags

```
public long getActualTags()
```

**Returns:**

the ActualTags

---

### getActualUsers

```
public int getActualUsers()
```

**Returns:**

the ActualUsers

---

### getCollectorsLastModifiedTime

```
public java.util.Date getCollectorsLastModifiedTime()
```

**Returns:**

the CollectorsLastModifiedTime

---

## getCollectorsLastModifiedUser

```
public java.lang.String getCollectorsLastModifiedUser()
```

**Returns:**

the CollectorsLastModifiedUser

---

## getEnumeratedSetLastModifiedTime

```
public java.util.Date getEnumeratedSetLastModifiedTime()
```

**Returns:**

the EnumeratedSetLastModifiedTime

---

## getEnumeratedSetLastModifiedUser

```
public java.lang.String getEnumeratedSetLastModifiedUser()
```

**Returns:**

the EnumeratedSetLastModifiedUser

---

## getFeatures

```
public LicensedFeatures getFeatures()
```

**Returns:**

the Features

---

## getLicensedScadaBufferDuration

```
public long getLicensedScadaBufferDuration()
```

**Returns:**

the LicensedScadaBufferDuration

---

## getMaxDataStores

```
public long getMaxDataStores()
```

**Returns:**

the MaxDataStores

---

## getMaxScadaBufferTags

```
public long getMaxScadaBufferTags()
```

**Returns:**

the MaxScadaBufferTags

---

## getMaxTags

```
public long getMaxTags()
```

**Returns:**

the MaxTags

---

## getMaxUsers

```
public int getMaxUsers()
```

**Returns:**

the MaxUsers

---

## getProductType

```
public HistorianType getProductType()
```

**Returns:**

the ProductType

---

## getServerVersion

```
public java.lang.String getServerVersion()
```

**Returns:**

the ServerVersion

---

## getTagsLastModifiedTime

```
public java.util.Date getTagsLastModifiedTime()
```

**Returns:**

the TagsLastModifiedTime

---

## getTagsLastModifiedUser

```
public java.lang.String getTagsLastModifiedUser()
```

**Returns:**

the TagsLastModifiedUser

---

## setActualDataStores

```
public void setActualDataStores(long actualDataStores)
```

**Parameters:**

actualDataStores - the ActualDataStores to set

---

## setActualScadaBufferTags

```
public void setActualScadaBufferTags(long actualScadaBufferTags)
```

**Parameters:**

actualScadaBufferTags - the ActualScadaBufferTags to set

---

## setActualTags

```
public void setActualTags(long actualTags)
```

### Parameters:

actualTags - the ActualTags to set

---

## setActualUsers

```
public void setActualUsers(int actualUsers)
```

### Parameters:

actualUsers - the ActualUsers to set

---

## setCollectorsLastModifiedTime

```
public void setCollectorsLastModifiedTime(java.util.Date  
collectorsLastModifiedTime)
```

### Parameters:

collectorsLastModifiedTime - the CollectorsLastModifiedTime to set

---

## setCollectorsLastModifiedUser

```
public void setCollectorsLastModifiedUser(java.lang.String  
collectorsLastModifiedUser)
```

### Parameters:

collectorsLastModifiedUser - the CollectorsLastModifiedUser to set

---

## setEnumeratedSetLastModifiedTime

```
public void setEnumeratedSetLastModifiedTime(java.util.Date  
enumeratedSetLastModifiedTime)
```

### Parameters:

enumeratedSetLastModifiedTime - the EnumeratedSetLastModifiedTime to set

---

## setEnumeratedSetLastModifiedUser

```
public void setEnumeratedSetLastModifiedUser(java.lang.String  
enumeratedSetLastModifiedUser)
```

### Parameters:

enumeratedSetLastModifiedUser - the EnumeratedSetLastModifiedUser to set

---

## setFeatures

```
public void setFeatures(LicensedFeatures features)
```

### Parameters:

features - the Features to set

---

## setLicensedScadaBufferDuration

```
public void setLicensedScadaBufferDuration(long licensedScadaBufferDuration)
```

### Parameters:

licensedScadaBufferDuration - the LicensedScadaBufferDuration to set

---

## setMaxDataStores

```
public void setMaxDataStores(long maxDataStores)
```

### Parameters:

maxDataStores - the MaxDataStores to set

---

## setMaxScadaBufferTags

```
public void setMaxScadaBufferTags(long maxScadaBufferTags)
```

### Parameters:

maxScadaBufferTags - the MaxScadaBufferTags to set

---

## setMaxTags

```
public void setMaxTags(long maxTags)
```

**Parameters:**

maxTags - the MaxTags to set

---

## setMaxUsers

```
public void setMaxUsers(int maxUsers)
```

**Parameters:**

maxUsers - the MaxUsers to set

---

## setProductType

```
public void setProductType(HistorianType productType)
```

**Parameters:**

productType - the ProductType to set

---

## setServerVersion

```
public void setServerVersion(java.lang.String serverVersion)
```

**Parameters:**

serverVersion - the ServerVersion to set

---

## setTagsLastModifiedTime

```
public void setTagsLastModifiedTime(java.util.Date tagsLastModifiedTime)
```

**Parameters:**

tagsLastModifiedTime - the TagsLastModifiedTime to set

---

## setTagsLastModifiedUser

```
public void setTagsLastModifiedUser(java.lang.String tagsLastModifiedUser)
```

### Parameters:

tagsLastModifiedUser - the TagsLastModifiedUser to set

---

com.ge.ip.hds.historian.DataContracts

## Class HistorianDataServiceServer

```
java.lang.Object
|
|--com.ge.ip.hds.historian.DataContracts.HistorianDataServiceServer
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class HistorianDataServiceServer
extends java.lang.Object
```

## Constructors

### HistorianDataServiceServer

```
public HistorianDataServiceServer()
```

## Methods

### getServerName

```
public java.lang.String getServerName()
```

#### Returns:

the ServerName

---

### isIsDefault

```
public boolean isIsDefault()
```

#### Returns:

the IsDefault



---

## setIsDefault

```
public void setIsDefault(boolean IsDefault)
```

### Parameters:

IsDefault - the IsDefault to set

---

## setServerName

```
public void setServerName(java.lang.String ServerName)
```

### Parameters:

ServerName - the ServerName to set

---

com.ge.ip.hds.historian.DataContracts

# Class HistorianOperationException

```
java.lang.Object
|
+-- java.lang.Throwable
|   |
|   +-- java.lang.Exception
|       |
|       +-- com.ge.ip.hds.historian.DataContracts.HistorianOperationException
```

### All Implemented Interfaces:

java.io.Serializable

---

< [Constructors](#) > < [Methods](#) >

---

```
public class HistorianOperationException
extends java.lang.Exception
```

# HistorianOperationException

Custom Exception class that specifies invalid operation in Historian.

## Constructors

# HistorianOperationException

```
public HistorianOperationException(ErrorCode errorCode,  
                                  java.lang.String errorMessage)
```

## Parameters:

errorCode - error code of exception  
errorMessage - error message of exception

## Methods

### getErrorCode

```
public ErrorCode getErrorCode()
```

This method is used to retrieve ErrorCode from the exception

#### Returns:

ErrorCode

### getErrorMessage

```
public java.lang.String getErrorMessage()
```

This method is used to retrieve message Code from the exception

#### Returns:

String

---

com.ge.ip.hds.historian.DataContracts

## Class HistorianOption

```
java.lang.Object  
|  
+-- java.lang.Enum  
|  
+-- com.ge.ip.hds.historian.DataContracts.HistorianOption
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class HistorianOption  
extends java.lang.Enum
```

## Fields

### ArchiveActiveHours

```
public static final HistorianOption ArchiveActiveHours  
    value = 3
```

---

### ArchiveAutomaticFreeSpaceHardLimit

```
public static final HistorianOption ArchiveAutomaticFreeSpaceHardLimit  
    value = 59
```

---

### ArchiveBackupNumArchivesToBackup

```
public static final HistorianOption ArchiveBackupNumArchivesToBackup  
    value = 22
```

---

### ArchiveDataBucketSize

```
public static final HistorianOption ArchiveDataBucketSize  
    value = 41
```

---

### ArchiveDefaultPath

```
public static final HistorianOption ArchiveDefaultPath  
    value = 2
```

---

### ArchiveDefaultSize

```
public static final HistorianOption ArchiveDefaultSize  
    value = 4
```

---

### ArchiveDuration

```
public static final HistorianOption ArchiveDuration  
    value = 51
```

---

### ArchiveDurationType

```
public static final HistorianOption ArchiveDurationType
```

value = 50

---

## ArchiveIndexCountSize

```
public static final HistorianOption ArchiveIndexCountSize
    value = 42
```

---

## ArchiveSizeIncrement

```
public static final HistorianOption ArchiveSizeIncrement
    value = 1
```

---

## ArchiveTotalDuration

```
public static final HistorianOption ArchiveTotalDuration
    value = 49
```

---

## ArchiveUseCaching

```
public static final HistorianOption ArchiveUseCaching
    value = 54
```

---

## ArchiverBackupType

```
public static final HistorianOption ArchiverBackupType
    value = 58
```

---

## ArchiverObsolete2

```
public static final HistorianOption ArchiverObsolete2
    value = 53
```

---

## ArchiverRepeatingValueStorageOptimization

```
public static final HistorianOption ArchiverRepeatingValueStorageOptimization
    value = 56
```

---

## ArchiverTcpPort

```
public static final HistorianOption ArchiverTcpPort
    value = 57
```

---

## AutoCreateArchives

```
public static final HistorianOption AutoCreateArchives  
    value = 5
```

---

## CollectorIdleTime

```
public static final HistorianOption CollectorIdleTime  
    value = 52
```

---

## ConfigurationSystemName

```
public static final HistorianOption ConfigurationSystemName  
    value = 60
```

---

## DefaultArchiveBackupPath

```
public static final HistorianOption DefaultArchiveBackupPath  
    value = 10
```

---

## DefaultBaseArchiveFilename

```
public static final HistorianOption DefaultBaseArchiveFilename  
    value = 8
```

---

## DefaultBaseArchiveName

```
public static final HistorianOption DefaultBaseArchiveName  
    value = 9
```

---

## FreeSpaceRequiredForAutoArchives

```
public static final HistorianOption FreeSpaceRequiredForAutoArchives  
    value = 6
```

---

## Max

```
public static final HistorianOption Max  
    value = 61
```

---

## MessageOnDataUpdate

```
public static final HistorianOption MessageOnDataUpdate  
    value = 12
```

---

## OverwriteOldArchives

```
public static final HistorianOption OverwriteOldArchives  
    value = 7
```

---

## SecurityAllowAnonymousClients

```
public static final HistorianOption SecurityAllowAnonymousClients  
    value = 39
```

---

## SecurityAnonymousUsername

```
public static final HistorianOption SecurityAnonymousUsername  
    value = 40
```

---

## SecurityDomain

```
public static final HistorianOption SecurityDomain  
    value = 19
```

---

## SecurityGroupsNodeName

```
public static final HistorianOption SecurityGroupsNodeName  
    value = 20
```

---

## SecurityStrictClientAuthentication

```
public static final HistorianOption SecurityStrictClientAuthentication  
    value = 47
```

---

## SecurityStrictCollectorAuthentication

```
public static final HistorianOption SecurityStrictCollectorAuthentication  
    value = 48
```

---

## SecurityUseClientLoginUser

```
public static final HistorianOption SecurityUseClientLoginUser  
    value = 30
```

---

## SecurityUseLocalGroups

```
public static final HistorianOption SecurityUseLocalGroups  
    value = 18
```

---

## ServerAllowConcurrentClientWork

```
public static final HistorianOption ServerAllowConcurrentClientWork  
    value = 45
```

---

## ServerAllowDataOverwrites

```
public static final HistorianOption ServerAllowDataOverwrites  
    value = 35
```

---

## ServerAllowMessageThrottling

```
public static final HistorianOption ServerAllowMessageThrottling  
    value = 46
```

---

## ServerAuditMessage

```
public static final HistorianOption ServerAuditMessage  
    value = 23
```

---

## ServerAuditStatus

```
public static final HistorianOption ServerAuditStatus  
    value = 24
```

---

## ServerCacheSize

```
public static final HistorianOption ServerCacheSize  
    value = 37
```

---

## ServerCreateOfflineArchives

```
public static final HistorianOption ServerCreateOfflineArchives  
    value = 11
```

---

## ServerDemoMode

```
public static final HistorianOption ServerDemoMode  
    value = 33
```

---

## ServerEquipmentDelimiter

```
public static final HistorianOption ServerEquipmentDelimiter  
    value = 38
```

---

## ServerMaintainAutoRecoveryFiles

```
public static final HistorianOption ServerMaintainAutoRecoveryFiles  
    value = 31
```

---

## ServerMaxIntervalRetrievalCount

```
public static final HistorianOption ServerMaxIntervalRetrievalCount  
    value = 28
```

---

## ServerMaxQueryTimeSeconds

```
public static final HistorianOption ServerMaxQueryTimeSeconds  
    value = 29
```

---

## ServerMaximumMemoryBufferSize

```
public static final HistorianOption ServerMaximumMemoryBufferSize  
    value = 26
```

---

## ServerMemoryLoad

```
public static final HistorianOption ServerMemoryLoad  
    value = 36
```

---



## ServerMinimumDiskFreeBufferSize

```
public static final HistorianOption ServerMinimumDiskFreeBufferSize  
    value = 25
```

---

## ServerNumCollectorWriteThreads

```
public static final HistorianOption ServerNumCollectorWriteThreads  
    value = 21
```

---

## ServerNumDataWriteThreads

```
public static final HistorianOption ServerNumDataWriteThreads  
    value = 17
```

---

## ServerNumFastReadThreads

```
public static final HistorianOption ServerNumFastReadThreads  
    value = 14
```

---

## ServerNumGenericWriteThreads

```
public static final HistorianOption ServerNumGenericWriteThreads  
    value = 16
```

---

## ServerNumReadThreads

```
public static final HistorianOption ServerNumReadThreads  
    value = 15
```

---

## ServerNumWriteThreads

```
public static final HistorianOption ServerNumWriteThreads  
    value = 44
```

---

## ServerOptimizeForRemoteCollectors

```
public static final HistorianOption ServerOptimizeForRemoteCollectors  
    value = 27
```

---

## ServerRunningInCluster

```
public static final HistorianOption ServerRunningInCluster  
    value = 32
```

---

## ServerStoreUserQualityStatus

```
public static final HistorianOption ServerStoreUserQualityStatus  
    value = 34
```

---

## ServerTargetPrivateBytes

```
public static final HistorianOption ServerTargetPrivateBytes  
    value = 43
```

---

## ServerWorkerThreadsEnabled

```
public static final HistorianOption ServerWorkerThreadsEnabled  
    value = 13
```

---

## TagBrowseStructElements

```
public static final HistorianOption TagBrowseStructElements  
    value = 55
```

---

## Undefined

```
public static final HistorianOption Undefined  
    value = 0
```

## Methods

### getHistorianOption

```
public int getHistorianOption()
```

**Returns:**

integer value of historianOption

---

## getHistorianOption

```
public static HistorianOption getHistorianOption(int value)
```

### Parameters:

value - integer value of historianOption

### Returns:

HistorianOption

---

## valueOf

```
public static HistorianOption valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.HistorianOption[] values()
```

---

**com.ge.ip.hds.historian.DataContracts**

## Class HistorianType

```
java.lang.Object  
|  
+-- java.lang.Enum  
|  
+-- com.ge.ip.hds.historian.DataContracts.HistorianType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class HistorianType  
extends java.lang.Enum
```

## Fields

## PlantHistorian

```
public static final HistorianType PlantHistorian  
value = 0
```

---

# ScadaHistorian

```
public static final HistorianType ScadaHistorian  
    value = 1
```

## Methods

### getHistorianType

```
public int getHistorianType()
```

**Returns:**

int value of historianType

---

### getHistorianType

```
public static HistorianType getHistorianType(int value)
```

**Parameters:**

value - int value of historianType

**Returns:**

HistorianType

---

### valueOf

```
public static HistorianType valueOf(java.lang.String name)
```

---

### values

```
public static com.ge.ip.hds.historian.DataContracts.HistorianType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class InterfaceDef

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.InterfaceDef
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class InterfaceDef
extends java.lang.Object
```

## Constructors

### InterfaceDef

```
public InterfaceDef()
```

## Methods

### getGeneral1Description

```
public java.lang.String getGeneral1Description()
```

**Returns:**

general1Description

---

### getGeneral2Description

```
public java.lang.String getGeneral2Description()
```

**Returns:**

general2Description

---

### getGeneral3Description

```
public java.lang.String getGeneral3Description()
```

**Returns:**

general3Description

---

## getGeneral4Description

```
public java.lang.String getGeneral4Description()
```

**Returns:**

general4Description

---

## getGeneral5Description

```
public java.lang.String getGeneral5Description()
```

**Returns:**

general5Description

---

## getInterfaceDefName

```
public java.lang.String getInterfaceDefName()
```

**Returns:**

InterfaceDefName

---

## getInterfaceType

```
public long getInterfaceType()
```

**Returns:**

InterfaceType

---

## getIsSystemInterface

```
public int getIsSystemInterface()
```

**Returns:**

IsSystemInterface

---

## setGeneral1Description

```
public void setGeneral1Description(java.lang.String general1Description)
```

**Parameters:**

general1Description - set general1Description

---

## setGeneral2Description

```
public void setGeneral2Description(java.lang.String general2Description)
```

**Parameters:**

general2Description - set general2Description

---

## setGeneral3Description

```
public void setGeneral3Description(java.lang.String general3Description)
```

**Parameters:**

general3Description - set general3Description

---

## setGeneral4Description

```
public void setGeneral4Description(java.lang.String general4Description)
```

**Parameters:**

general4Description - set general4Description

---

## setGeneral5Description

```
public void setGeneral5Description(java.lang.String general5Description)
```

**Parameters:**

general5Description - set general5Description

---

## setInterfaceDefName

```
public void setInterfaceDefName(java.lang.String interfaceDefName)
```

### Parameters:

interfaceDefName - set InterfaceDefName

---

## setInterfaceType

```
public void setInterfaceType(long interfaceType)
```

### Parameters:

interfaceType - set InterfaceType

---

com.ge.ip.hds.historian.DataContracts

## Class InterfaceType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.InterfaceType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class InterfaceType
extends java.lang.Enum
```

## Fields

### Undefined

```
public static final InterfaceType Undefined
value = 0
```

---

### ihCIMME

```
public static final InterfaceType ihCIMME
value = 14
```

---



## ihCIMPE

```
public static final InterfaceType ihCIMPE  
    value = 12
```

---

## ihCalcEngine

```
public static final InterfaceType ihCalcEngine  
    value = 8
```

---

## ihCustom

```
public static final InterfaceType ihCustom  
    value = 16
```

---

## ihFile

```
public static final InterfaceType ihFile  
    value = 4
```

---

## ihIFix

```
public static final InterfaceType ihIFix  
    value = 1
```

---

## ihIFixLabData

```
public static final InterfaceType ihIFixLabData  
    value = 5
```

---

## ihManualEntry

```
public static final InterfaceType ihManualEntry  
    value = 6
```

---

## ihOPC

```
public static final InterfaceType ihOPC  
    value = 3
```

---

## ihOPCAE

```
public static final InterfaceType ihOPCAE  
    value = 11
```

---

## ihOther

```
public static final InterfaceType ihOther  
    value = 7
```

---

## ihPI

```
public static final InterfaceType ihPI  
    value = 10
```

---

## ihPIDistributor

```
public static final InterfaceType ihPIDistributor  
    value = 13
```

---

## ihPerfTag

```
public static final InterfaceType ihPerfTag  
    value = 15
```

---

## ihRandom

```
public static final InterfaceType ihRandom  
    value = 2
```

---

## ihServerToServer

```
public static final InterfaceType ihServerToServer  
    value = 9
```

---

## ihServerToServerDistributor

```
public static final InterfaceType ihServerToServerDistributor  
    value = 17
```

---

# ihWindowsPerfMon

```
public static final InterfaceType ihWindowsPerfMon  
    value = 18
```

## Methods

### getInterfaceType

```
public int getInterfaceType()
```

**Returns:**

int value of InterfaceType

---

### getInterfaceType

```
public static InterfaceType getInterfaceType(int value)
```

**Parameters:**

value - int value of InterfaceType

**Returns:**

InterfaceType

---

### valueOf

```
public static InterfaceType valueOf(java.lang.String name)
```

---

### values

```
public static com.ge.ip.hds.historian.DataContracts.InterfaceType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

## Class ItemError

```
java.lang.Object
```

```
|--com.ge.ip.hds.historian.DataContracts.ItemError
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class ItemError  
extends java.lang.Object
```

## Constructors

### ItemError

```
public ItemError()
```

## Methods

### getErrorCode

```
public ErrorCode getErrorCode()
```

**Returns:**

the ErrorCode

---

### getTagName

```
public java.lang.String getTagName()
```

**Returns:**

the TagName

---

### setErrorCode

```
public void setErrorCode(ErrorCode errorCode)
```

**Parameters:**

errorCode - the ErrorCode to set

---

### setTagName

```
public void setTagName(java.lang.String tagName)
```

**Parameters:**

tagName - the TagName to set

---

com.ge.ip.hds.historian.DataContracts

# Class JobRecord

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.JobRecord
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class JobRecord
extends java.lang.Object
```

## Constructors

### JobRecord

```
public JobRecord()
```

## Methods

### getCompleteTime

```
public java.util.Date getCompleteTime()
```

**Returns:**

the completeTime

---

### getDescription

```
public java.lang.String getDescription()
```

**Returns:**

the description

---

## getErrorMessage

```
public java.lang.String getErrorMessage()
```

**Returns:**

the errorMessage

---

## getJobId

```
public int getJobId()
```

**Returns:**

the jobId

---

## getLinks

```
public com.ge.ip.hds.historian.DataContracts.Link[] getLinks()
```

**Returns:**

the Links

---

## getPercentage

```
public short getPercentage()
```

**Returns:**

the percentage

---

## getServiceName

```
public java.lang.String getServiceName()
```

**Returns:**

the serviceName

---

## getTime

```
public java.util.Date getTime()
```

**Returns:**

the time

---

## getStatus

```
public JobStatus getStatus()
```

**Returns:**

the status

---

## getStep

```
public short getStep()
```

**Returns:**

the step

---

## getUser

```
public java.lang.String getUser()
```

**Returns:**

the user

---

## setDescription

```
public void setDescription(java.lang.String description)
```

**Parameters:**

description - the description to set

---

## setErrorMessagE

```
public void setErrorMessagE(java.lang.String errorMessage)
```

### Parameters:

errorMessage - the errorMessage to set

---

## setJobId

```
public void setJobId(int jobId)
```

### Parameters:

jobId - the jobId to set

---

## setLinks

```
public void setLinks(com.ge.ip.hds.historian.DataContracts.Link[] Links)
```

### Parameters:

Links - the Links to set

---

## setPercentage

```
public void setPercentage(short percentage)
```

### Parameters:

percentage - the percentage to set

---

## setServiceName

```
public void setServiceName(java.lang.String serviceName)
```

### Parameters:

serviceName - the serviceName to set

---



## setStartTime

```
public void setStartTime(java.util.Date startTime)
```

### Parameters:

startTime - the startTime to set

---

## setStatus

```
public void setStatus(JobStatus status)
```

### Parameters:

status - the status to set

---

## setStep

```
public void setStep(short step)
```

### Parameters:

step - the step to set

---

## setUser

```
public void setUser(java.lang.String user)
```

### Parameters:

user - the user to set

---

**com.ge.ip.hds.historian.DataContracts**

## Class JobStatus

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.JobStatus
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class JobStatus
```

extends java.lang.Enum

## Fields

### Cancelled

```
public static final JobStatus Cancelled  
    value = 6
```

---

### Cancelling

```
public static final JobStatus Cancelling  
    value = 5
```

---

### Failed

```
public static final JobStatus Failed  
    value = 4
```

---

### Processing

```
public static final JobStatus Processing  
    value = 1
```

---

### Succeeded

```
public static final JobStatus Succeeded  
    value = 2
```

---

### Undefined

```
public static final JobStatus Undefined  
    value = 0
```

## Methods

## getCollectorType

```
public static JobStatus getCollectorType(int value)
```

### Parameters:

value - int value of jobStatus

### Returns:

jobStatus

---

## getJobStatus

```
public int getJobStatus()
```

### Returns:

int value of jobStatus

---

## valueOf

```
public static JobStatus valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.JobStatus[] values()
```

---

**com.ge.ip.hds.historian.DataContracts**

## Class JobType

```
java.lang.Object
|
+-- java.lang.Enum
    |
    +-- com.ge.ip.hds.historian.DataContracts.JobType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class JobType
extends java.lang.Enum
```

## Fields

### BackupArchive

```
public static final JobType BackupArchive  
    value = 2
```

---

### RemoveArchive

```
public static final JobType RemoveArchive  
    value = 5
```

---

### ReplicateNode

```
public static final JobType ReplicateNode  
    value = 4
```

---

### RestoreArchive

```
public static final JobType RestoreArchive  
    value = 3
```

---

### ResyncArchive

```
public static final JobType ResyncArchive  
    value = 1
```

---

### Undefined

```
public static final JobType Undefined  
    value = 0
```

## Methods

### getJobType

```
public int getJobType()
```

**Returns:**

int value of jobType

---

## getJobType

```
public static JobType getJobType(int value)
```

**Parameters:**

value - int value of jobType

**Returns:**

jobType

---

## valueOf

```
public static JobType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.JobType[] values()
```

---

**com.ge.ip.hds.historian.DataContracts**

# Class LicensedFeatures

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.LicensedFeatures
```

**All Implemented Interfaces:**

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class LicensedFeatures
extends java.lang.Enum
```

## Fields

## CalculationCollector

```
public static final LicensedFeatures CalculationCollector
    value = 2
```

---

## CollectorRedundancy

public static final [LicensedFeatures](#) CollectorRedundancy  
value = 8

---

## ElectronicSignatures

public static final [LicensedFeatures](#) ElectronicSignatures  
value = 1

---

## HDAServer

public static final [LicensedFeatures](#) HDAServer  
value = 16

---

## HistoricalDataStores

public static final [LicensedFeatures](#) HistoricalDataStores  
value = 32

---

## MicrosecondSupport

public static final [LicensedFeatures](#) MicrosecondSupport  
value = 128

---

## ScadaBufferDataStores

public static final [LicensedFeatures](#) ScadaBufferDataStores  
value = 64

---

## ServerToServerCollector

public static final [LicensedFeatures](#) ServerToServerCollector  
value = 4

---

## ServerToServerDistributor

public static final [LicensedFeatures](#) ServerToServerDistributor  
value = 256

## Methods

### getLicensedFeatures

```
public int getLicensedFeatures()
```

**Returns:**

int value of licensedFeatures

---

### getLicensedFeatures

```
public static LicensedFeatures getLicensedFeatures(int value)
```

**Parameters:**

value - int value of licensedFeatures

**Returns:**

licensedFeatures

---

### valueOf

```
public static LicensedFeatures valueOf(java.lang.String name)
```

---

### values

```
public static com.ge.ip.hds.historian.DataContracts.LicensedFeatures[]  
values()
```

---

**com.ge.ip.hds.historian.DataContracts**

## Class Link

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.Link
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class Link  
extends java.lang.Object
```

## Constructors

### Link

```
public Link()
```

## Methods

### getHref

```
public java.lang.String getHref()
```

**Returns:**

Href

---

### getRelation

```
public java.lang.String getRelation()
```

**Returns:**

the Relation

---

### setHref

```
public void setHref(java.lang.String href)
```

**Parameters:**

href - Href to set

---

### setRelation

```
public void setRelation(java.lang.String relation)
```

**Parameters:**

relation - relation to set

---



com.ge.ip.hds.historian.DataContracts

# Class LoggingLevel

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.LoggingLevel
```

## All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class LoggingLevel
extends java.lang.Enum
```

## Fields

### Critical

```
public static final LoggingLevel Critical
    value = 1
```

---

### Debug

```
public static final LoggingLevel Debug
    value = 5
```

---

### Error

```
public static final LoggingLevel Error
    value = 2
```

---

### Info

```
public static final LoggingLevel Info
    value = 4
```

---

### None

```
public static final LoggingLevel None
    value = 0
```

---

## Stack

```
public static final LoggingLevel Stack  
    value = 6
```

---

## Warning

```
public static final LoggingLevel Warning  
    value = 3
```

## Methods

### getLoggingLevel

```
public int getLoggingLevel()
```

**Returns:**

int value of loggingLevel

---

### getLoggingLevel

```
public static LoggingLevel getLoggingLevel(int value)
```

**Parameters:**

value - int value of loggingLevel

**Returns:**

loggingLevel

---

### valueOf

```
public static LoggingLevel valueOf(java.lang.String name)
```

---

### values

```
public static com.ge.ip.hds.historian.DataContracts.LoggingLevel[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class Message

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.Message
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class Message
extends java.lang.Object
```

## Constructors

### Message

```
public Message()
```

## Methods

### getNumber

```
public int getNumber()
```

**Returns:**

the Number

---

### getSubstitutions

```
public java.util.List getSubstitutions()
```

**Returns:**

the Substitutions

---

### getText

```
public java.lang.String getText()
```

**Returns:**

the Text

---

## getTime

```
public java.util.Date getTime()
```

**Returns:**

the Time

---

## getTopic

```
public MessageTopic getTopic()
```

**Returns:**

the Topic

---

## getUsername

```
public java.lang.String getUsername()
```

**Returns:**

the Username

---

## setNumber

```
public void setNumber(int number)
```

**Parameters:**

number - the Number to set

---

## setSubstitutions

```
public void setSubstitutions(java.util.List substitutions)
```

**Parameters:**

substitutions - the Substitutions to set

---

## setText

```
public void setText(java.lang.String text)
```

### Parameters:

text - the Text to set

---

## setTime

```
public void setTime(java.util.Date time)
```

### Parameters:

time - the Time to set

---

## setTopic

```
public void setTopic(MessageTopic topic)
```

### Parameters:

topic - the Topic to set

---

## setUsername

```
public void setUsername(java.lang.String username)
```

### Parameters:

username - the Username to set

---

com.ge.ip.hds.historian.DataContracts

## Class MessageTopic

```
java.lang.Object
|
+-- java.lang.Enum
    |
    +-- com.ge.ip.hds.historian.DataContracts.MessageTopic
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class MessageTopic
```

extends java.lang.Enum

## Fields

### Alerts

```
public static final MessageTopic Alerts  
    value = 56
```

---

### All

```
public static final MessageTopic All  
    value = 127
```

---

### Configuration

```
public static final MessageTopic Configuration  
    value = 2
```

---

### Connections

```
public static final MessageTopic Connections  
    value = 1
```

---

### DataStoreTagHistory

```
public static final MessageTopic DataStoreTagHistory  
    value = 64
```

---

### General

```
public static final MessageTopic General  
    value = 4
```

---

### Messages

```
public static final MessageTopic Messages  
    value = 71
```

---

## Performance

```
public static final MessageTopic Performance
    value = 16
```

---

## Security

```
public static final MessageTopic Security
    value = 32
```

---

## ServiceControl

```
public static final MessageTopic ServiceControl
    value = 8
```

## Methods

### getMessageTopic

```
public int getMessageTopic()
```

**Returns:**

int vale of messageTopic

---

### getMessageTopic

```
public static MessageTopic getMessageTopic(int value)
```

**Parameters:**

value - int value of messageTopic

**Returns:**

messageTopic

---

### valueOf

```
public static MessageTopic valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.MessageTopic[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class MultiField

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.MultiField
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class MultiField
extends java.lang.Object
```

## Constructors

### MultiField

```
public MultiField()
```

## Methods

### getDescription

```
public java.lang.String getDescription()
```

**Returns:**

Description

---

### getFieldValueDataType

```
public NativeDataType getFieldValueDataType()
```

**Returns:**

NativeDataType

---



## getIsMasterField

```
public boolean getIsMasterField()
```

**Returns:**

IsMasterField

---

## getName

```
public java.lang.String getName()
```

**Returns:**

name

---

## setDescription

```
public void setDescription(java.lang.String description)
```

**Parameters:**

description - Description to set

---

## setFieldValueDataType

```
public void setFieldValueDataType(NativeDataType fieldValueDataType)
```

**Parameters:**

fieldValueDataType - data type to set

---

## setIsMasterField

```
public void setIsMasterField(boolean isMasterField)
```

**Parameters:**

isMasterField - set flag IsMasterField

---

## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - name to set

---

com.ge.ip.hds.historian.DataContracts

## Class MultiFieldType

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.MultiFieldType
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class MultiFieldType
extends java.lang.Object
```

## Constructors

### MultiFieldType

```
public MultiFieldType()
```

## Methods

### getAdministratorSecurityGroup

```
public java.lang.String getAdministratorSecurityGroup()
```

### Returns:

name of AdministratorSecurityGroup

---

### getDescription

```
public java.lang.String getDescription()
```

### Returns:

Description

---

## getFields

```
public com.ge.ip.hds.historian.DataContracts.MultiField[] getFields()
```

**Returns:**

list of MultiField

---

## getLastModified

```
public java.util.Date getLastModified()
```

**Returns:**

lastModified

---

## getLastModifiedUser

```
public java.lang.String getLastModifiedUser()
```

**Returns:**

lastModifiedUser

---

## getName

```
public java.lang.String getName()
```

**Returns:**

Name

---

## getNumberOfFields

```
public int getNumberOfFields()
```

**Returns:**

NumberOfFields

---

## getNumberOfTagReferences

```
public int getNumberOfTagReferences()
```

**Returns:**

NumberOfTagReferences

---

## getStoreFieldQualities

```
public boolean getStoreFieldQualities()
```

**Returns:**

StoreFieldQualities

---

## setAdministratorSecurityGroup

```
public void setAdministratorSecurityGroup(java.lang.String administratorSecurityGroup)
```

**Parameters:**

administratorSecurityGroup - name of AdministratorSecurityGroup to set

---

## setDescription

```
public void setDescription(java.lang.String description)
```

**Parameters:**

description - Description to set

---

## setFields

```
public void setFields(com.ge.ip.hds.historian.DataContracts.MultiField[] fields)
```

**Parameters:**

fields - list of MultiFields to set

---

## setLastModified

```
public void setLastModified(java.util.Date lastModified)
```

### Parameters:

lastModified - lastModified date to set

---

## setLastModifiedUser

```
public void setLastModifiedUser(java.lang.String lastModifiedUser)
```

### Parameters:

lastModifiedUser - lastModifiedUser to set

---

## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - Name to set

---

## setNumberOfFields

```
public void setNumberOfFields(int numberOfFields)
```

### Parameters:

numberOfFields - NumberOfFields to set

---

## setNumberOfTagReferences

```
public void setNumberOfTagReferences(int numberOfTagReferences)
```

### Parameters:

numberOfTagReferences - NumberOfTagReferences to set

---

## setStoreFieldQualities

```
public void setStoreFieldQualities(boolean storeFieldQualities)
```

### Parameters:

storeFieldQualities - set flag StoreFieldQualities

---

com.ge.ip.hds.historian.DataContracts

## Class MultiFieldValue

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.MultiFieldValue
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class MultiFieldValue
extends java.lang.Object
```

## Constructors

### MultiFieldValue

```
public MultiFieldValue()
```

## Methods

### getNumFields

```
public int getNumFields()
```

### Returns:

number of fields

---

### getValues

```
public com.ge.ip.hds.historian.DataContracts.FieldValue[] getValues()
```

### Returns:

list of FieldValue

---

## setNumFields

```
public void setNumFields(int numFields)
```

### Parameters:

numFields - number of fields to set

---

## setValues

```
public void setValues(com.ge.ip.hds.historian.DataContracts.FieldValue[] values)
```

### Parameters:

values - list of FieldValue to set

---

com.ge.ip.hds.historian.DataContracts

# Class NativeDataType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.NativeDataType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class NativeDataType
extends java.lang.Enum
```

## Fields

### Array

```
public static final NativeDataType Array
value = 17
```

Returns an array of tags from your data source. You can specify orientation, size, and number of rows returned in the array.

---

## Blob

```
public static final NativeDataType Blob
    value = 8
```

Stores tags as binary large objects.

The Blob datatype generally refers to undetermined binary data types, such as an Excel spreadsheet, a PDF file, or a Word file.

---

## Bool

```
public static final NativeDataType Bool
    value = 15
```

(one byte) â€“ Stores boolean values. Valid values for the boolean data type are 0=FALSE and 1=TRUE.

If the user sends zero, the value is taken as zero. Anything other than zero, the value is treated as one.

---

## Byte

```
public static final NativeDataType Byte
    value = 14
```

(one byte) â€“ Stores integer values. Valid values for the byte data type are -128 to +127.

---

## DoubleFloat

```
public static final NativeDataType DoubleFloat
    value = 3
```

(eight bytes) â€“ Stores decimal values up to 15 places.

Valid values for the double float data type are 2.2250738585072014e-308 to 1.7976931348623158e+308.

---

## DoubleInteger

```
public static final NativeDataType DoubleInteger
    value = 5
```

(four bytes) â€“ Stores whole numbers, without decimal places.

Valid values for the double integer data type are -2147483648 to +2147483648.

---

## FixedString

```
public static final NativeDataType FixedString
    value = 6
```

(Configured by user) â€“ Stores string data of a fixed size. Valid values are between 0 and 255 bytes.



---

## Float

```
public static final NativeDataType Float
    value = 2
    Single float.
```

---

## Integer

```
public static final NativeDataType Integer
    value = 4
    Single integer.
```

---

## MultiField

```
public static final NativeDataType MultiField
    value = 16
    Stores string data that has multiple words.
```

---

## QuadInteger

```
public static final NativeDataType QuadInteger
    value = 10
    (eight bytes) â€œ Stores whole numbers without decimal places.
    Valid values for the quad integer data type are -9,223,372,036,854,775,808 (negative nine
    quintillion) to +9,223,372,036,854,775,807 (positive nine quintillion).
```

---

## Scaled

```
public static final NativeDataType Scaled
    value = 1
    (two bytes) â€œ Lets you store a four-byte float as a twobyte integer in the Historian archive.
    The scaled data type saves disk space but sacrifices data precision as a result.
```

---

## Time

```
public static final NativeDataType Time
    value = 9
    Returns or sets the type of time stamping applied to data at collection time.
```

---

## UDoubleInteger

```
public static final NativeDataType UDoubleInteger  
    value = 12
```

(Unsigned Double Integer) (four bytes) â€“ Stores whole numbers without decimal places.

Valid values for the unsigned double integer data type are 0 to 4,294,967, 295 (4.2 billion).

---

## UQuadInteger

```
public static final NativeDataType UQuadInteger  
    value = 11
```

(Unsigned Quad Integer) (eight bytes) â€“ Stores whole numbers without decimal places.

Valid values for the unsigned quad integer data type are 0 to 18,446,744,073,709,551,615 (19 quintillion).

---

## USingleInteger

```
public static final NativeDataType USingleInteger  
    value = 13
```

(Unsigned Single Integer) (two bytes) â€“ Stores whole numbers without decimal places. Valid values for the unsigned single integer data type are 0 to 65535.

---

## Undefined

```
public static final NativeDataType Undefined  
    value = 0
```

Data type is not defined.

---

## VariableString

```
public static final NativeDataType VariableString  
    value = 7
```

(No fixed size) â€“ Stores string values of undetermined size.

This data type is useful if you cannot rely on a constant string length from your data source.

---

## Methods

## getNativeDataType

```
public int getNativeDataType()
```

**Returns:**

int value of nativeDataType

---

## getNativeDataType

```
public static NativeDataType getNativeDataType(int value)
```

**Parameters:**

value - int value of nativeDataType

**Returns:**

NativeDataType

---

## valueOf

```
public static NativeDataType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.NativeDataType[] values()
```

---

**com.ge.ip.hds.historian.DataContracts**

# Class PerformanceCounters

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.PerformanceCounters
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class PerformanceCounters  
extends java.lang.Object
```

## Constructors

# PerformanceCounters

```
public PerformanceCounters()
```

## Methods

### getArchiveAverageEventRate

```
public java.util.List getArchiveAverageEventRate()
```

**Returns:**

the ArchiveAverageEventRate

---

### getArchiveAverageReadRawRate

```
public java.util.List getArchiveAverageReadRawRate()
```

**Returns:**

the ArchiveAverageReadRawRate

---

### getArchiveSpaceEfficiency

```
public java.lang.String getArchiveSpaceEfficiency()
```

**Returns:**

the ArchiveSpaceEfficiency

---

### getArchiveStats

```
public ArchiveStatistics getArchiveStats()
```

**Returns:**

the ArchiveStats

---

## getAverageAlarmRate

```
public java.lang.String getAverageAlarmRate()
```

**Returns:**

the AverageAlarmRate

---

## getHistConfig

```
public HistorianConfiguration getHistConfig()
```

**Returns:**

the HistConfig

---

## getHistLicensedArrayCount

```
public java.lang.String getHistLicensedArrayCount()
```

**Returns:**

the HistLicensedArrayCount

---

## getScadaLicensedArrayCount

```
public java.lang.String getScadaLicensedArrayCount()
```

**Returns:**

the ScadaLicensedArrayCount

---

## getTotalAlarms

```
public java.lang.String getTotalAlarms()
```

**Returns:**

the TotalAlarms

---

## setArchiveAverageEventRate

```
public void setArchiveAverageEventRate(java.util.List archiveAverageEventRate)
```

### Parameters:

archiveAverageEventRate - the ArchiveAverageEventRate to set

---

## setArchiveAverageReadRawRate

```
public void setArchiveAverageReadRawRate(java.util.List  
archiveAverageReadRawRate)
```

### Parameters:

archiveAverageReadRawRate - the ArchiveAverageReadRawRate to set

---

## setArchiveSpaceEfficiency

```
public void setArchiveSpaceEfficiency(java.lang.String archiveSpaceEfficiency)
```

### Parameters:

archiveSpaceEfficiency - the ArchiveSpaceEfficiency to set

---

## setArchiveStats

```
public void setArchiveStats(ArchiveStatistics archiveStats)
```

### Parameters:

archiveStats - the ArchiveStats to set

---

## setAverageAlarmRate

```
public void setAverageAlarmRate(java.lang.String averageAlarmRate)
```

### Parameters:

averageAlarmRate - the AverageAlarmRate to set

---

## setHistConfig

```
public void setHistConfig(HistorianConfiguration histConfig)
```

### Parameters:

histConfig - the HistConfig to set

---

## setHistLicensedArrayCount

```
public void setHistLicensedArrayCount(java.lang.String histLicensedArrayCount)
```

### Parameters:

histLicensedArrayCount - the HistLicensedArrayCount to set

---

## setScadaLicensedArrayCount

```
public void setScadaLicensedArrayCount(java.lang.String  
scadaLicensedArrayCount)
```

### Parameters:

scadaLicensedArrayCount - the ScadaLicensedArrayCount to set

---

## setTotalAlarms

```
public void setTotalAlarms(java.lang.String totalAlarms)
```

### Parameters:

totalAlarms - the TotalAlarms to set

---

com.ge.ip.hds.historian.DataContracts

## Class QualityStatus

```
java.lang.Object  
|  
+-- java.lang.Enum  
|  
+-- com.ge.ip.hds.historian.DataContracts.QualityStatus
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class QualityStatus
extends java.lang.Enum
```

## Fields

### Bad

```
public static final QualityStatus Bad
    value = 0
```

---

### Good

```
public static final QualityStatus Good
    value = 3
```

---

### NA

```
public static final QualityStatus NA
    value = 2
```

---

### Uncertain

```
public static final QualityStatus Uncertain
    value = 1
```

## Methods

### getQualityStatus

```
public int getQualityStatus()
```

**Returns:**

int value of qualityStatus

---



## getQualityStatus

```
public static QualityStatus getQualityStatus(int value)
```

### Parameters:

value - int value of qualityStatus

### Returns:

QualityStatus

---

## valueOf

```
public static QualityStatus valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.QualityStatus[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class QueryModifierProperty

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.QueryModifierProperty
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class QueryModifierProperty  
extends java.lang.Object
```

## Constructors

### QueryModifierProperty

```
public QueryModifierProperty()
```

## Methods

## getDescription

```
public java.lang.String getDescription()
```

**Returns:**

the Description

---

## getName

```
public java.lang.String getName()
```

**Returns:**

the Name

---

## getQueryModifierEnum

```
public long getQueryModifierEnum()
```

**Returns:**

the QueryModifierEnum

---

## setDescription

```
public void setDescription(java.lang.String description)
```

**Parameters:**

description - the Description to set

---

## setName

```
public void setName(java.lang.String name)
```

**Parameters:**

name - the Name to set

---

## setQueryModifierEnum

```
public void setQueryModifierEnum(long queryModifierEnum)
```

### Parameters:

queryModifierEnum - the QueryModifierEnum to set

---

com.ge.ip.hds.historian.DataContracts

## Class SamplingModeType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.SamplingModeType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class SamplingModeType
extends java.lang.Enum
```

## SamplingModeType

The SamplingModeType parameter is the mode of sampling data from the archive. The default setting for the Sampling Mode is Calculated.

## Fields

### Calculated

```
public static final SamplingModeType Calculated
value = 6
```

---

### CurrentValue

```
public static final SamplingModeType CurrentValue
value = 1
```

---

### Interpolated

```
public static final SamplingModeType Interpolated  
    value = 2
```

---

## InterpolatedToRaw

```
public static final SamplingModeType InterpolatedToRaw  
    value = 8
```

---

## Lab

```
public static final SamplingModeType Lab  
    value = 7
```

---

## LabToRaw

```
public static final SamplingModeType LabToRaw  
    value = 10
```

---

## RawByFilterToggling

```
public static final SamplingModeType RawByFilterToggling  
    value = 11
```

---

## RawByNumber

```
public static final SamplingModeType RawByNumber  
    value = 5
```

---

## RawByTime

```
public static final SamplingModeType RawByTime  
    value = 4
```

---

## Trend

```
public static final SamplingModeType Trend  
    value = 3
```

---

## TrendToRaw

```
public static final SamplingModeType TrendToRaw
```

value = 9

---

## Undefined

```
public static final SamplingModeType Undefined  
    value = 0
```

## Methods

### getSamplingModeType

```
public int getSamplingModeType()
```

**Returns:**

int value of samplingModeType

---

### getSamplingModeType

```
public static SamplingModeType getSamplingModeType(int value)
```

**Parameters:**

value - int value of samplingModeType

**Returns:**

samplingModeType

---

### valueOf

```
public static SamplingModeType valueOf(java.lang.String name)
```

---

### values

```
public static com.ge.ip.hds.historian.DataContracts.SamplingModeType[]  
values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class ServiceResponse

```
java.lang.Object
|
+--ServiceResponseBase
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponse
```

## Direct Known Subclasses:

[ServiceResponseInstanceArchive](#), [ServiceResponseInstanceArchiveStatistics](#), [ServiceResponseInstanceBoolean](#), [ServiceResponseInstanceCollectorProperty](#), [ServiceResponseInstanceCollectorStatistics](#), [ServiceResponseInstanceCollectorTagBrowseResult](#), [ServiceResponseInstanceDHSService](#), [ServiceResponseInstanceDHSSStorage](#), [ServiceResponseInstanceDataCriteria](#), [ServiceResponseInstanceDataStore](#), [ServiceResponseInstanceDateTime](#), [ServiceResponseInstanceEnumeratedSetProperty](#), [ServiceResponseInstanceHierarchicalBrowseResponse](#), [ServiceResponseInstanceHistorianConfiguration](#), [ServiceResponseInstanceInterfaceDef](#), [ServiceResponseInstanceJobRecord](#), [ServiceResponseInstanceListArchive](#), [ServiceResponseInstanceListCollectorPropertyBase](#), [ServiceResponseInstanceListDHSService](#), [ServiceResponseInstanceListDHSSStorage](#), [ServiceResponseInstanceListDataProperty](#), [ServiceResponseInstanceListDataStore](#), [ServiceResponseInstanceListEnumeratedSetPropertyBase](#), [ServiceResponseInstanceListInterfaceDef](#), [ServiceResponseInstanceListItemError](#), [ServiceResponseInstanceListJobRecord](#), [ServiceResponseInstanceListMessage](#), [ServiceResponseInstanceListQueryModifierProperty](#), [ServiceResponseInstanceListString](#), [ServiceResponseInstanceListTagPropertyBase](#), [ServiceResponseInstanceListTagSamples](#), [ServiceResponseInstanceListTrendData](#), [ServiceResponseInstanceListUserDefinedTypes](#), [ServiceResponseInstancePerformanceCounters](#), [ServiceResponseInstanceString](#), [ServiceResponseInstanceTagProperty](#), [ServiceResponseInstanceUserDefinedType](#), [ServiceResponseStringMap](#)

---

< [Constructors](#) > < [Methods](#) >

---

```
public class ServiceResponse
extends ServiceResponseBase
```

## Constructors

### ServiceResponse

```
public ServiceResponse()
```

## Methods

## getData

```
public java.lang.Object getData()
```

### Returns:

data of type T

---

## setData

```
public void setData(java.lang.Object data)
```

### Parameters:

data - set data of type T

---

com.ge.ip.hds.historian.DataContracts

# Class ServiceResponseBase

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.ServiceResponseBase
```

### Direct Known Subclasses:

[ServiceResponse](#)

---

< [Constructors](#) > < [Methods](#) >

---

```
public class ServiceResponseBase  
extends java.lang.Object
```

## Constructors

## ServiceResponseBase

```
public ServiceResponseBase()
```

## Methods

## getErrorCode

```
public ErrorCode getErrorCode()
```

**Returns:**

ErrorCode

---

## getErrorMessage

```
public java.lang.String getErrorMessage()
```

**Returns:**

error message

---

## setErrorCode

```
public void setErrorCode(ErrorCode errorCode)
```

**Parameters:**

errorCode - ErrorCode to set

---

## setErrorMessage

```
public void setErrorMessage(java.lang.String errorMessage)
```

**Parameters:**

errorMessage - error message to set

---

com.ge.ip.hds.historian.DataContracts

## Class TagCalcType

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- com.ge.ip.hds.historian.DataContracts.TagCalcType
```

**All Implemented Interfaces:**

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class TagCalcType
```



extends java.lang.Enum

## Fields

### AnalyticTag

```
public static final TagCalcType AnalyticTag  
    value = 1
```

---

### RawTag

```
public static final TagCalcType RawTag  
    value = 0
```

## Methods

### getTagCalcType

```
public int getTagCalcType()
```

**Returns:**

int value of TagCalcType

---

### getTagCalcType

```
public static TagCalcType getTagCalcType(int value)
```

**Parameters:**

value - int value of TagCalcType

**Returns:**

TagCalcType

---

### valueOf

```
public static TagCalcType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.TagCalcType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class TagProperty

```
java.lang.Object
|
+-- TagPropertyBase
|
+-- com.ge.ip.hds.historian.DataContracts.TagProperty
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class TagProperty
extends TagPropertyBase
```

## Constructors

### TagProperty

```
public TagProperty()
```

## Methods

### getAdministratorSecurityGroup

```
public java.lang.String getAdministratorSecurityGroup()
```

**Returns:**

AdministratorSecurityGroup

---

### getArchiveAbsoluteDeadband

```
public double getArchiveAbsoluteDeadband()
```

**Returns:**

archiveAbsoluteDeadband

---

## getArchiveAbsoluteDeadbanding

public boolean **getArchiveAbsoluteDeadbanding**()

**Returns:**

ArchiveAbsoluteDeadbanding

---

## getArchiveCompression

public boolean **getArchiveCompression**()

**Returns:**

ArchiveCompression

---

## getArchiveCompressionTimeout

public int **getArchiveCompressionTimeout**()

**Returns:**

ArchiveCompressionTimeout

---

## getArchiveDeadbandPercentRange

public float **getArchiveDeadbandPercentRange**()

**Returns:**

ArchiveDeadbandPercentRange

---

## getCalcType

public [TagCalcType](#) **getCalcType**()

**Returns:**

CalcType

---

## getCalculationDependencies

```
public java.lang.String[] getCalculationDependencies()
```

**Returns:**

array of calculationDependencies

---

## getCollectionInterval

```
public int getCollectionInterval()
```

**Returns:**

CollectionInterval

---

## getCollectionOffset

```
public int getCollectionOffset()
```

**Returns:**

CollectionOffset

---

## getCollectionType

```
public DataCollectionType getCollectionType()
```

**Returns:**

DataCollectionType

---

## getCollectorAbsoluteDeadband

```
public double getCollectorAbsoluteDeadband()
```

**Returns:**

collectorAbsoluteDeadband

---

## getCollectorAbsoluteDeadbanding

```
public boolean getCollectorAbsoluteDeadbanding()
```

**Returns:**

CollectorAbsoluteDeadbanding

---

## getCollectorCompression

```
public boolean getCollectorCompression()
```

**Returns:**

CollectorCompression

---

## getCollectorCompressionTimeout

```
public int getCollectorCompressionTimeout()
```

**Returns:**

collectorCompressionTimeout

---

## getCollectorDeadbandPercentRange

```
public float getCollectorDeadbandPercentRange()
```

**Returns:**

CollectorDeadbandPercentRange

---

## getCollectorName

```
public java.lang.String getCollectorName()
```

**Returns:**

collector name

---

## getCollectorType

```
public CollectorType getCollectorType()
```

**Returns:**

CollectorType

---

## getComment

```
public java.lang.String getComment()
```

**Returns:**

Comment

---

## getConditionCollectionCompareValue

```
public java.lang.String getConditionCollectionCompareValue()
```

**Returns:**

conditionCollectionCompareValue

---

## getConditionCollectionComparison

```
public ConditionCollectionComparisonType getConditionCollectionComparison()
```

**Returns:**

ConditionCollectionComparisonType

---

## getConditionCollectionEnabled

```
public boolean getConditionCollectionEnabled()
```

**Returns:**

ConditionCollectionEnabled

---

## getConditionCollectionMarkers

```
public boolean getConditionCollectionMarkers()
```

**Returns:**

ConditionCollectionMarkers

---

## getConditionCollectionTriggerTag

```
public java.lang.String getConditionCollectionTriggerTag()
```

**Returns:**

conditionCollectionTriggerTag

---

## getDataDensity

```
public DataDensityType getDataDensity()
```

**Returns:**

DataDensityType

---

## getDataStoreName

```
public java.lang.String getDataStoreName()
```

**Returns:**

DataStoreName

---

## getDataType

```
public NativeDataType getDataType()
```

**Returns:**

NativeDataType

---

## getEngineeringUnits

```
public java.lang.String getEngineeringUnits()
```

**Returns:**

EngineeringUnits

---

## getEnumeratedSetName

```
public java.lang.String getEnumeratedSetName()
```

**Returns:**

EnumeratedSetName

---

## getFixedStringLength

```
public java.lang.Byte getFixedStringLength()
```

**Returns:**

FixedStringLength

---

## getGeneral1

```
public java.lang.String getGeneral1()
```

**Returns:**

General1

---

## getGeneral2

```
public java.lang.String getGeneral2()
```

**Returns:**

General2

---



## getGeneral3

```
public java.lang.String getGeneral3()
```

**Returns:**

General3

---

## getGeneral4

```
public java.lang.String getGeneral4()
```

**Returns:**

General4

---

## getGeneral5

```
public java.lang.String getGeneral5()
```

**Returns:**

General5

---

## getHiEngineeringUnits

```
public double getHiEngineeringUnits()
```

**Returns:**

HiEngineeringUnits

---

## getHiScale

```
public double getHiScale()
```

**Returns:**

HiScale

---

## getId

```
public java.util.UUID getId()
```

**Returns:**

UUID

---

## getInputScaling

```
public boolean getInputScaling()
```

**Returns:**

InputScaling

---

## getLastModified

```
public java.util.Date getLastModified()
```

**Returns:**

LastModifiedUser date

---

## getLastModifiedUser

```
public java.lang.String getLastModifiedUser()
```

**Returns:**

LastModifiedUser

---

## getLoEngineeringUnits

```
public double getLoEngineeringUnits()
```

**Returns:**

LoEngineeringUnits

---

## getLoScale

```
public double getLoScale()
```

**Returns:**

LoScale

---

## getLoadBalancing

```
public boolean getLoadBalancing()
```

## getReadSecurityGroup

```
public java.lang.String getReadSecurityGroup()
```

**Returns:**

ReadSecurityGroup

---

## getServerId

```
public java.lang.String getServerId()
```

**Returns:**

ServerId

---

## getSourceAddress

```
public java.lang.String getSourceAddress()
```

**Returns:**

SourceAddress

---

## getSpikeLogic

```
public boolean getSpikeLogic()
```

**Returns:**

SpikeLogic

---

## getSpikeLogicOverride

```
public boolean getSpikeLogicOverride()
```

**Returns:**

SpikeLogicOverride

---

## getStepValue

```
public boolean getStepValue()
```

**Returns:**

StepValue

---

## getTimeResolution

```
public TimeResolutionType getTimeResolution()
```

**Returns:**

TimeResolutionType

---

## getTimeStampType

```
public TimeStampDeterminedByType getTimeStampType()
```

**Returns:**

TimeStampDeterminedByType

---

## getUTCBias

```
public int getUTCBias()
```

**Returns:**

UTCBias

---

## getWriteSecurityGroup

```
public java.lang.String getWriteSecurityGroup()
```

**Returns:**

WriteSecurityGroup

---

## setAdministratorSecurityGroup

```
public void setAdministratorSecurityGroup(java.lang.String administratorSecurityGroup)
```

**Parameters:**

administratorSecurityGroup - AdministratorSecurityGroup name to set

---

## setArchiveAbsoluteDeadband

```
public void setArchiveAbsoluteDeadband(double archiveAbsoluteDeadband)
```

**Parameters:**

archiveAbsoluteDeadband - archiveAbsoluteDeadband to set

---

## setArchiveAbsoluteDeadbanding

```
public void setArchiveAbsoluteDeadbanding(boolean archiveAbsoluteDeadbanding)
```

**Parameters:**

archiveAbsoluteDeadbanding - set flag ArchiveAbsoluteDeadbanding

---

## setArchiveCompression

```
public void setArchiveCompression(boolean archiveCompression)
```

**Parameters:**

archiveCompression - ArchiveCompression to set

---

## setArchiveCompressionTimeout

```
public void setArchiveCompressionTimeout(int archiveCompressionTimeout)
```

### Parameters:

archiveCompressionTimeout - ArchiveCompressionTimeout to set

---

## setArchiveDeadbandPercentRange

```
public void setArchiveDeadbandPercentRange(float archiveDeadbandPercentRange)
```

### Parameters:

archiveDeadbandPercentRange - ArchiveDeadbandPercentRange to set

---

## setCalcType

```
public void setCalcType(TagCalcType calcType)
```

### Parameters:

calcType - CalcType to set

---

## setCalculationDependencies

```
public void setCalculationDependencies(java.lang.String[]  
calculationDependencies)
```

### Parameters:

calculationDependencies - array of calculationDependencies to set

---

## setCollectionInterval

```
public void setCollectionInterval(int collectionInterval)
```

### Parameters:

collectionInterval - CollectionInterval to set

---

## setCollectionOffset

```
public void setCollectionOffset(int collectionOffset)
```

### Parameters:

collectionOffset - CollectionOffset to set

---

## setCollectionType

```
public void setCollectionType(DataCollectionType collectionType)
```

### Parameters:

collectionType - DataCollectionType to set

---

## setCollectorAbsoluteDeadband

```
public void setCollectorAbsoluteDeadband(double collectorAbsoluteDeadband)
```

### Parameters:

collectorAbsoluteDeadband - collectorAbsoluteDeadband to set

---

## setCollectorAbsoluteDeadbanding

```
public void setCollectorAbsoluteDeadbanding(boolean collectorAbsoluteDeadbanding)
```

### Parameters:

collectorAbsoluteDeadbanding - set flag CollectorAbsoluteDeadbanding

---

## setCollectorCompression

```
public void setCollectorCompression(boolean collectorCompression)
```

### Parameters:

collectorCompression - set flag CollectorCompression

---

## setCollectorCompressionTimeout

```
public void setCollectorCompressionTimeout(int collectorCompressionTimeout)
```

### Parameters:

collectorCompressionTimeout - collectorCompressionTimeout to set

---

## setCollectorDeadbandPercentRange

```
public void setCollectorDeadbandPercentRange(float collectorDeadbandPercentRange)
```

### Parameters:

collectorDeadbandPercentRange - CollectorDeadbandPercentRange to set

---

## setCollectorName

```
public void setCollectorName(java.lang.String collectorName)
```

### Parameters:

collectorName - collector name to set

---

## setCollectorType

```
public void setCollectorType(CollectorType collectorType)
```

### Parameters:

collectorType - CollectorType to set

---

## setComment

```
public void setComment(java.lang.String comment)
```

### Parameters:

comment - Comment to set

---



## setConditionCollectionCompareValue

```
public void setConditionCollectionCompareValue(java.lang.String  
conditionCollectionCompareValue)
```

### Parameters:

conditionCollectionCompareValue - conditionCollectionCompareValue to set

---

## setConditionCollectionComparison

```
public void setConditionCollectionComparison(ConditionCollectionComparisonType  
conditionCollectionComparison)
```

### Parameters:

conditionCollectionComparison - ConditionCollectionComparisonType to set

---

## setConditionCollectionEnabled

```
public void setConditionCollectionEnabled(boolean conditionCollectionEnabled)
```

### Parameters:

conditionCollectionEnabled - set flag ConditionCollectionEnabled

---

## setConditionCollectionMarkers

```
public void setConditionCollectionMarkers(boolean conditionCollectionMarkers)
```

### Parameters:

conditionCollectionMarkers - set flag ConditionCollectionMarkers

---

## setConditionCollectionTriggerTag

```
public void setConditionCollectionTriggerTag(java.lang.String  
conditionCollectionTriggerTag)
```

### Parameters:

conditionCollectionTriggerTag - conditionCollectionTriggerTag to set

---

## setDataDensity

```
public void setDataDensity(DataDensityType dataDensity)
```

### Parameters:

dataDensity - DataDensityType to set

---

## setDataStoreName

```
public void setDataStoreName(java.lang.String dataStoreName)
```

### Parameters:

dataStoreName - DataStoreName to set

---

## setDataType

```
public void setDataType(NativeDataType dataType)
```

### Parameters:

dataType - NativeDataType to set

---

## setEngineeringUnits

```
public void setEngineeringUnits(java.lang.String engineeringUnits)
```

### Parameters:

engineeringUnits - EngineeringUnits to set

---

## setEnumeratedSetName

```
public void setEnumeratedSetName(java.lang.String enumeratedSetName)
```

### Parameters:

enumeratedSetName - EnumeratedSetName to set

---

## setFixedStringLength

```
public void setFixedStringLength(java.lang.Byte fixedStringLength)
```

**Parameters:**

fixedStringLength - FixedStringLength to set

---

## setGeneral1

```
public void setGeneral1(java.lang.String general1)
```

**Parameters:**

general1 - set string General1

---

## setGeneral2

```
public void setGeneral2(java.lang.String general2)
```

**Parameters:**

general2 - set string General2

---

## setGeneral3

```
public void setGeneral3(java.lang.String general3)
```

**Parameters:**

general3 - set string General3

---

## setGeneral4

```
public void setGeneral4(java.lang.String general4)
```

**Parameters:**

general4 - set string General4

---

## setGeneral5

```
public void setGeneral5(java.lang.String general5)
```

**Parameters:**

general5 - set string General5

---

## setHiEngineeringUnits

```
public void setHiEngineeringUnits(double hiEngineeringUnits)
```

**Parameters:**

hiEngineeringUnits - HiEngineeringUnits to set

---

## setHiScale

```
public void setHiScale(double hiScale)
```

**Parameters:**

hiScale - HiScale to set

---

## setId

```
public void setId(java.util.UUID id)
```

**Parameters:**

id - UUID to set

---

## setInputScaling

```
public void setInputScaling(boolean inputScaling)
```

**Parameters:**

inputScaling - set flag InputScaling

---

## setLastModified

```
public void setLastModified(java.util.Date lastModified)
```

### Parameters:

lastModified - LastModified date to set

---

## setLastModifiedUser

```
public void setLastModifiedUser(java.lang.String lastModifiedUser)
```

### Parameters:

lastModifiedUser - LastModifiedUser to set

---

## setLoEngineeringUnits

```
public void setLoEngineeringUnits(double loEngineeringUnits)
```

### Parameters:

loEngineeringUnits - LoEngineeringUnits to set

---

## setLoScale

```
public void setLoScale(double loScale)
```

### Parameters:

loScale - LoScale to set

---

## setLoadBalancing

```
public void setLoadBalancing(boolean loadBalancing)
```

---

## setReadSecurityGroup

```
public void setReadSecurityGroup(java.lang.String readSecurityGroup)
```

### Parameters:

readSecurityGroup - ReadSecurityGroup name to set

---

## setServerId

```
public void setServerId(java.lang.String serverId)
```

**Parameters:**

serverId - ServerId to set

---

## setSourceAddress

```
public void setSourceAddress(java.lang.String sourceAddress)
```

**Parameters:**

sourceAddress - SourceAddress to set

---

## setSpikeLogic

```
public void setSpikeLogic(boolean spikeLogic)
```

**Parameters:**

spikeLogic - set flag SpikeLogic

---

## setSpikeLogicOverride

```
public void setSpikeLogicOverride(boolean spikeLogicOverride)
```

**Parameters:**

spikeLogicOverride - set flag SpikeLogicOverride

---

## setStepValue

```
public void setStepValue(boolean stepValue)
```

**Parameters:**

stepValue - set flag StepValue

---

## setTimeResolution

```
public void setTimeResolution(TimeResolutionType timeResolution)
```

### Parameters:

timeResolution - TimeResolutionType to set

---

## setTimeStampType

```
public void setTimeStampType(TimeStampDeterminedByType timeStampType)
```

### Parameters:

timeStampType - TimeStampDeterminedByType to set

---

## setUTCBias

```
public void setUTCBias(int utcBias)
```

### Parameters:

utcBias - UTCBias to set

---

## setWriteSecurityGroup

```
public void setWriteSecurityGroup(java.lang.String writeSecurityGroup)
```

### Parameters:

writeSecurityGroup - WriteSecurityGroup name to set

---

com.ge.ip.hds.historian.DataContracts

# Class TagPropertyBase

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.TagPropertyBase
```

### Direct Known Subclasses:

[TagProperty](#)

---

< [Constructors](#) > < [Methods](#) >

---

```
public class TagPropertyBase
extends java.lang.Object
```

## Constructors

### TagPropertyBase

```
public TagPropertyBase()
```

## Methods

### getCollectionDisabled

```
public boolean getCollectionDisabled()
```

**Returns:**

CollectionDisabled

---

### getDescription

```
public java.lang.String getDescription()
```

**Returns:**

Description

---

### getHasAlias

```
public boolean getHasAlias()
```

**Returns:**

HasAlias

---

### getHref

```
public java.lang.String getHref(java.lang.String relation)
```

---



## getLinks

```
public com.ge.ip.hds.historian.DataContracts.Link[] getLinks()
```

**Returns:**

array of links

---

## getName

```
public java.lang.String getName()
```

**Returns:**

name

---

## getNumberOfElements

```
public long getNumberOfElements()
```

**Returns:**

numberOfElements

---

## getUserDefinedTypeName

```
public java.lang.String getUserDefinedTypeName()
```

**Returns:**

UserDefinedTypeName

---

## setCollectionDisabled

```
public void setCollectionDisabled(boolean collectionDisabled)
```

**Parameters:**

collectionDisabled - set flag CollectionDisabled

---

## setDescription

```
public void setDescription(java.lang.String description)
```

### Parameters:

description - Description to set

---

## setHasAlias

```
public void setHasAlias(boolean HasAlias)
```

### Parameters:

HasAlias - set flag HasAlias

---

## setLinks

```
public void setLinks(com.ge.ip.hds.historian.DataContracts.Link[] links)
```

### Parameters:

links - array of links to set

---

## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - name to set

---

## setNumberOfElements

```
public void setNumberOfElements(long numberOfElements)
```

### Parameters:

numberOfElements - numberOfElements to set

---

## setUserDefinedTypeName

```
public void setUserDefinedTypeName(java.lang.String userDefinedTypeName)
```

### Parameters:

userDefinedTypeName - UserDefinedTypeName to set

---

## toString

```
public java.lang.String toString()
```

### Overrides:

toString in class java.lang.Object

---

com.ge.ip.hds.historian.DataContracts

# Class TagSamples

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.TagSamples
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class TagSamples
extends java.lang.Object
```

## Constructors

### TagSamples

```
public TagSamples()
```

## Methods

### getDataType

```
public java.lang.String getDataType()
```

### Returns:

DataType

---

## getErrorCode

```
public ErrorCode getErrorCode()
```

**Returns:**

ErrorCode

---

## getNativeDataType

```
public NativeDataType getNativeDataType()
```

**Returns:**

NativeDataType

---

## getSamples

```
public com.ge.ip.hds.historian.DataContracts.DataSample[] getSamples()
```

**Returns:**

array of DataSample

---

## getTagName

```
public java.lang.String getTagName()
```

**Returns:**

tag name

---

## setDataType

```
public void setDataType(NativeDataType nativeDataType)
```

**Parameters:**

nativeDataType - NativeDataType to set

---

## setDataType

```
public void setDataType(java.lang.String dataType)
```

### Parameters:

dataType - DataType to set

---

## setErrorCode

```
public void setErrorCode(ErrorCode errorCode)
```

### Parameters:

errorCode - ErrorCode to set

---

## setSamples

```
public void setSamples(com.ge.ip.hds.historian.DataContracts.DataSample[] samples)
```

### Parameters:

samples - array of DataSample to set

---

## setTagName

```
public void setTagName(java.lang.String tagName)
```

### Parameters:

tagName - tag name to set

---

com.ge.ip.hds.historian.DataContracts

## Class TagWithData

```
java.lang.Object  
|  
+--com.ge.ip.hds.historian.DataContracts.TagWithData
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class TagWithData  
extends java.lang.Object
```

# Constructors

## TagWithData

```
public TagWithData()
```

# Methods

## getDataSamples

```
public com.ge.ip.hds.historian.DataContracts.DataSample[] getDataSamples()
```

**Returns:**

array of DataSample

---

## getDataType

```
public java.lang.String getDataType()
```

**Returns:**

DataType

---

## getNativeDataType

```
public NativeDataType getNativeDataType()
```

**Returns:**

NativeDataType

---

## getTagName

```
public java.lang.String getTagName()
```

**Returns:**

tag name

---

## setDataSamples

```
public void setDataSamples(com.ge.ip.hds.historian.DataContracts.DataSample[] dataSamples)
```

### Parameters:

dataSamples - array of DataSample to set

---

## setDataType

```
public void setDataType(NativeDataType nativeDataType)
```

### Parameters:

nativeDataType - NativeDataType to set

---

## setDataType

```
public void setDataType(java.lang.String dataType)
```

### Parameters:

dataType - DataType to set

---

## setTagName

```
public void setTagName(java.lang.String tagName)
```

### Parameters:

tagName - tag name to set

---

com.ge.ip.hds.historian.DataContracts

## Class TimeResolutionType

```
java.lang.Object
|
+-- java.lang.Enum
    |
    +-- com.ge.ip.hds.historian.DataContracts.TimeResolutionType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class TimeResolutionType  
extends java.lang.Enum
```

## Fields

### Microseconds

```
public static final TimeResolutionType Microseconds  
    value = 2
```

---

### Milliseconds

```
public static final TimeResolutionType Milliseconds  
    value = 1
```

---

### Nanoseconds

```
public static final TimeResolutionType Nanoseconds  
    value = 3
```

---

### Seconds

```
public static final TimeResolutionType Seconds  
    value = 0
```

## Methods

### getTimeResolutionType

```
public int getTimeResolutionType()
```

**Returns:**

int value of timeResolutionType

---



## getTimeResolutionType

```
public static TimeResolutionType getTimeResolutionType(int value)
```

### Parameters:

value - int value of timeResolutionType

### Returns:

timeResolutionType

---

## valueOf

```
public static TimeResolutionType valueOf(java.lang.String name)
```

---

## values

```
public static com.ge.ip.hds.historian.DataContracts.TimeResolutionType[]  
values()
```

---

com.ge.ip.hds.historian.DataContracts

## Class TimeStampDeterminedByType

```
java.lang.Object  
|  
+-- java.lang.Enum  
|   |  
|   +-- com.ge.ip.hds.historian.DataContracts.TimeStampDeterminedByType
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class TimeStampDeterminedByType  
extends java.lang.Enum
```

## Fields

## Collector

```
public static final TimeStampDeterminedByType Collector  
value = 2
```

---

## Source

```
public static final TimeStampDeterminedByType Source  
    value = 1
```

## Methods

### getTimeStampDeterminedByType

```
public int getTimeStampDeterminedByType()
```

**Returns:**

int value of timeStampDeterminedByType

---

### getTimeStampDeterminedByType

```
public static TimeStampDeterminedByType getTimeStampDeterminedByType(int  
value)
```

**Parameters:**

value - int value of timeStampDeterminedByType

**Returns:**

timeStampDeterminedByType

---

### valueOf

```
public static TimeStampDeterminedByType valueOf(java.lang.String name)
```

---

### values

```
public static  
com.ge.ip.hds.historian.DataContracts.TimeStampDeterminedByType[] values()
```

---

com.ge.ip.hds.historian.DataContracts

# Class TrendData

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.TrendData
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class TrendData
extends java.lang.Object
```

## Constructors

### TrendData

```
public TrendData()
```

## Methods

### getChildren

```
public java.util.List getChildren()
```

**Returns:**

the Children

---

### getClassName

```
public java.lang.String getClassName()
```

**Returns:**

the ClassName

---

### getDataType

```
public java.lang.String getDataType()
```

**Returns:**

the DataType

---

## getDimensions

```
public java.util.List getDimensions()
```

**Returns:**

the Dimensions

---

## getDisplayName

```
public java.lang.String getDisplayName()
```

**Returns:**

the DisplayName

---

## getEquipmentId

```
public java.util.UUID getEquipmentId()
```

**Returns:**

the EquipmentId

---

## getErrorMsg

```
public java.lang.String getErrorMsg()
```

**Returns:**

the ErrorMsg

---

## getNativeDataType

```
public NativeDataType getNativeDataType()
```

---

## getPropertyName

```
public java.lang.String getPropertyName()
```

**Returns:**

the PropertyName

---

## getTagName

```
public java.lang.String getTagName()
```

**Returns:**

the TagName

---

## getTagSource

```
public java.lang.String getTagSource()
```

**Returns:**

the TagSource

---

## getTrend

```
public java.util.List getTrend()
```

**Returns:**

the Trend

---

## getTrendType

```
public java.lang.String getTrendType()
```

**Returns:**

the TrendType

---

## setChildren

```
public void setChildren(java.util.List children)
```

**Parameters:**

children - the Children to set

---

## setClassName

```
public void setClassName(java.lang.String className)
```

### Parameters:

className - the ClassName to set

---

## setDataType

```
public void setDataType(NativeDataType nativeDataType)
```

## setDataType

```
public void setDataType(java.lang.String dataType)
```

### Parameters:

dataType - the DataType to set

---

## setDimensions

```
public void setDimensions(java.util.List dimensions)
```

### Parameters:

dimensions - the Dimensions to set

---

## setDisplayName

```
public void setDisplayName(java.lang.String displayName)
```

### Parameters:

displayName - the DisplayName to set

---

## setEquipmentId

```
public void setEquipmentId(java.util.UUID equipmentId)
```

### Parameters:

equipmentId - the EquipmentId to set

---

## setErrorMsg

```
public void setErrorMsg(java.lang.String errorMsg)
```

**Parameters:**

errorMsg - the ErrorMsg to set

---

## setPropertyName

```
public void setPropertyName(java.lang.String propertyName)
```

**Parameters:**

propertyName - the PropertyName to set

---

## setTagName

```
public void setTagName(java.lang.String tagName)
```

**Parameters:**

tagName - the TagName to set

---

## setTagSource

```
public void setTagSource(java.lang.String tagSource)
```

**Parameters:**

tagSource - the TagSource to set

---

## setTrend

```
public void setTrend(java.util.List trend)
```

**Parameters:**

trend - the Trend to set

---

## setTrendType

```
public void setTrendType(java.lang.String trendType)
```

### Parameters:

trendType - the TrendType to set

---

com.ge.ip.hds.historian.DataContracts

## Class TrendDataSample

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.TrendDataSample
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class TrendDataSample
extends java.lang.Object
```

## Constructors

### TrendDataSample

```
public TrendDataSample()
```

## Methods

### getComment

```
public java.lang.String getComment()
```

### Returns:

the Comment

---

### getDataType

```
public java.lang.String getDataType()
```

### Returns:

the DataType



---

## getDescription

```
public java.lang.String getDescription()
```

**Returns:**

the Description

---

## getEngineeringUnits

```
public java.lang.String getEngineeringUnits()
```

**Returns:**

the EngineeringUnits

---

## getError

```
public int getError()
```

**Returns:**

the Error

---

## getErrorMsg

```
public java.lang.String getErrorMsg()
```

**Returns:**

the ErrorMsg

---

## getHiEngUnits

```
public java.lang.String getHiEngUnits()
```

**Returns:**

the HiEngUnits

---

## getLowEngUnits

```
public java.lang.String getLowEngUnits()
```

**Returns:**

the LowEngUnits

---

## getName

```
public java.lang.String getName()
```

**Returns:**

the Name

---

## getQuality

```
public java.lang.Boolean getQuality()
```

**Returns:**

the Quality

---

## getStoreMillisecond

```
public java.lang.Boolean getStoreMillisecond()
```

**Returns:**

the StoreMillisecond

---

## getTagName

```
public java.lang.String getTagName()
```

**Returns:**

the TagName

---

## getTimestamp

```
public java.util.Date getTimestamp()
```

**Returns:**

the Timestamp

---

## getValue

```
public java.lang.Object getValue()
```

**Returns:**

the Value

---

## setComment

```
public void setComment(java.lang.String comment)
```

**Parameters:**

comment - the Comment to set

---

## setDataType

```
public void setDataType(java.lang.String dataType)
```

**Parameters:**

dataType - the DataType to set

---

## setDescription

```
public void setDescription(java.lang.String description)
```

**Parameters:**

description - the Description to set

---

## setEngineeringUnits

```
public void setEngineeringUnits(java.lang.String engineeringUnits)
```

### Parameters:

engineeringUnits - the EngineeringUnits to set

---

## setError

```
public void setError(int error)
```

### Parameters:

error - the Error to set

---

## setErrorMsg

```
public void setErrorMsg(java.lang.String errorMsg)
```

### Parameters:

errorMsg - the ErrorMsg to set

---

## setHiEngUnits

```
public void setHiEngUnits(java.lang.String hiEngUnits)
```

### Parameters:

hiEngUnits - the HiEngUnits to set

---

## setLowEngUnits

```
public void setLowEngUnits(java.lang.String lowEngUnits)
```

### Parameters:

lowEngUnits - the LowEngUnits to set

---

## setName

```
public void setName(java.lang.String name)
```

### Parameters:

name - the Name to set

---

## setQuality

```
public void setQuality(java.lang.Boolean quality)
```

### Parameters:

quality - the Quality to set

---

## setStoreMillisecond

```
public void setStoreMillisecond(java.lang.Boolean storeMillisecond)
```

### Parameters:

storeMillisecond - the StoreMillisecond to set

---

## setTagName

```
public void setTagName(java.lang.String tagName)
```

### Parameters:

tagName - the TagName to set

---

## setTimestamp

```
public void setTimestamp(java.util.Date timestamp)
```

### Parameters:

timestamp - the Timestamp to set

---

## setValue

```
public void setValue(java.lang.Object value)
```

### Parameters:

value - the Value to set

---

com.ge.ip.hds.historian.DataContracts

## Class UserDefinedType

```
java.lang.Object
|
+--com.ge.ip.hds.historian.DataContracts.UserDefinedType
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class UserDefinedType
extends java.lang.Object
```

## Constructors

### UserDefinedType

```
public UserDefinedType()
```

## Methods

### getDataType

```
public int getDataType()
```

### Returns:

DataType

---

## getHref

```
public java.lang.String getHref(java.lang.String relation)
```

**Parameters:**

relation - reation to set

**Returns:**

Href

---

## getLinks

```
public com.ge.ip.hds.historian.DataContracts.Link[] getLinks()
```

**Returns:**

list if links

---

## getType

```
public MultiFieldType getType()
```

**Returns:**

MultiFieldType

---

## setDataType

```
public void setDataType(int dataType)
```

**Parameters:**

dataType - datatype to set

---

## setLinks

```
public void setLinks(com.ge.ip.hds.historian.DataContracts.Link[] links)
```

**Parameters:**

links - list of links to set

---

## setType

```
public void setType(MultiFieldType type)
```

### Parameters:

type - MultiFieldType to set



# Package

## com.ge.ip.hds.historian.DataContracts.ServiceR

### Class Summary

[ServiceResponseInstanceArchive](#)

[ServiceResponseInstanceArchiveStatistics](#)

[ServiceResponseInstanceBoolean](#)

[ServiceResponseInstanceCollectorProperty](#)

[ServiceResponseInstanceCollectorStatistics](#)

[ServiceResponseInstanceCollectorTagBrowseResult](#)

[ServiceResponseInstanceDHSService](#)

[ServiceResponseInstanceDHSSStorage](#)

[ServiceResponseInstanceDataCriteria](#)

[ServiceResponseInstanceDataStore](#)

[ServiceResponseInstanceDateTime](#)

[ServiceResponseInstanceEnumeratedSetProperty](#)

[ServiceResponseInstanceHierarchicalBrowseResponse](#)

[ServiceResponseInstanceHistorianConfiguration](#)

[ServiceResponseInstanceInterfaceDef](#)

[ServiceResponseInstanceJobRecord](#)

[ServiceResponseInstanceListArchive](#)

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[ServiceResponseInstanceListDHSService](#)

[ServiceResponseInstanceListDHSSStorage](#)

[ServiceResponseInstanceListDataProperty](#)

[ServiceResponseInstanceListDataStore](#)

[ServiceResponseInstanceListEnumeratedSetPropertyBase](#)

[ServiceResponseInstanceListInterfaceDef](#)

[ServiceResponseInstanceListItemError](#)

[ServiceResponseInstanceListJobRecord](#)

[ServiceResponseInstanceListMessage](#)

[ServiceResponseInstanceListQueryModifierProperty](#)

[ServiceResponseInstanceListString](#)

[ServiceResponseInstanceListTagPropertyBase](#)

[ServiceResponseInstanceListTagSamples](#)

[ServiceResponseInstanceListTrendData](#)

[ServiceResponseInstanceListUserDefinedTypes](#)

[ServiceResponseInstancePerformanceCounters](#)

[ServiceResponseInstanceString](#)

[ServiceResponseInstanceTagProperty](#)

[ServiceResponseInstanceUserDefinedType](#)

[ServiceResponseStringMap](#)

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class ServiceResponseInstanceArchive

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceRespon
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceArchive  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceArchive**

```
public ServiceResponseInstanceArchive()
```

---

```
com.ge.ip.hds.historian.DataContracts.ServiceResponses
```

## Class

### **ServiceResponseInstanceArchiveStatistics**

```
java.lang.Object  
|  
+--ServiceResponseBase  
|  
+--ServiceResponse  
|  
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceRespon
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceArchiveStatistics  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceArchiveStatistics**

```
public ServiceResponseInstanceArchiveStatistics()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceBoolean

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponseInstanceBoolean
```

< [Constructors](#) >

```
public class ServiceResponseInstanceBoolean
extends ServiceResponse
```

## Constructors

### ServiceResponseInstanceBoolean

```
public ServiceResponseInstanceBoolean()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceCollectorProperty

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponseInstanceCollectorProperty
```

< [Constructors](#) >

```
public class ServiceResponseInstanceCollectorProperty
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceCollectorProperty

```
public ServiceResponseInstanceCollectorProperty()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceCollectorStatistics

```
java.lang.Object
```

```
|--ServiceResponseBase
```

```
|--ServiceResponse
```

```
---com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceCollectorStatistics
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceCollectorStatistics

```
public ServiceResponseInstanceCollectorStatistics()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceCollectorTagBrowser

```
java.lang.Object
```

```
|--ServiceResponseBase
```

```
|--ServiceResponse
```

```
---com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceCollectorTagBrowseResult  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceCollectorTagBrowseResult**

```
public ServiceResponseInstanceCollectorTagBrowseResult()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

### **Class ServiceResponseInstanceDHSService**

```
java.lang.Object  
|  
+--ServiceResponseBase  
|  
+--ServiceResponse  
|  
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceRespon
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceDHSService  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceDHSService**

```
public ServiceResponseInstanceDHSService()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceDHSStorage

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponseInstanceDHSStorage
```

< [Constructors](#) >

```
public class ServiceResponseInstanceDHSStorage
extends ServiceResponse
```

## Constructors

### ServiceResponseInstanceDHSStorage

```
public ServiceResponseInstanceDHSStorage()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceDataCriteria

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponseInstanceDataCriteria
```

< [Constructors](#) >

```
public class ServiceResponseInstanceDataCriteria
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceDataCriteria

```
public ServiceResponseInstanceDataCriteria()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class ServiceResponseInstanceDataStore

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceDataStore
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceDataStore

```
public ServiceResponseInstanceDataStore()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class ServiceResponseInstanceDateTime

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceDateTime
extends ServiceResponse
```



## Constructors

### ServiceResponseInstanceDateTime

```
public ServiceResponseInstanceDateTime()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

### ServiceResponseInstanceEnumeratedSetProperty

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceEnumeratedSetProperty
extends ServiceResponse
```

## Constructors

### ServiceResponseInstanceEnumeratedSetProperty

```
public ServiceResponseInstanceEnumeratedSetProperty()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceHierarchicalBrowseResponse



< [Constructors](#) >

```
public class ServiceResponseInstanceHierarchicalBrowseResponse
extends ServiceResponse
```

## Constructors

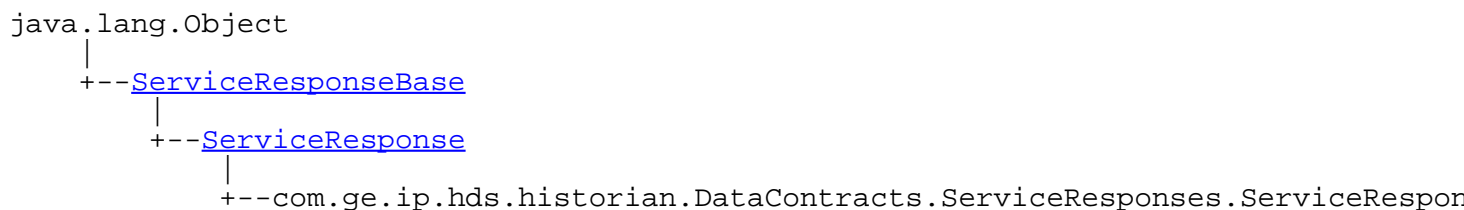
## ServiceResponseInstanceHierarchicalBrowseResponse

```
public ServiceResponseInstanceHierarchicalBrowseResponse()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceHistorianConfiguration



< [Constructors](#) >

```
public class ServiceResponseInstanceHistorianConfiguration
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceHistorianConfiguration

```
public ServiceResponseInstanceHistorianConfiguration()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class ServiceResponseInstanceInterfaceDef

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceInterfaceDef
extends ServiceResponse
```

## Constructors

## ServiceResponseInstanceInterfaceDef

```
public ServiceResponseInstanceInterfaceDef()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class ServiceResponseInstanceJobRecord

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceJobRecord
extends ServiceResponse
```

## Constructors

### ServiceResponseInstanceJobRecord

```
public ServiceResponseInstanceJobRecord()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class ServiceResponseInstanceListArchive

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListArchive
extends ServiceResponse
```

## Constructors

### ServiceResponseInstanceListArchive

```
public ServiceResponseInstanceListArchive()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class ServiceResponseInstanceListCollectorProperty

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListCollectorPropertyBase  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceListCollectorPropertyBase**

```
public ServiceResponseInstanceListCollectorPropertyBase()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

### **ServiceResponseInstanceListDHSService**

```
java.lang.Object  
|  
+--ServiceResponseBase  
|  
+--ServiceResponse  
|  
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceRespon
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListDHSService  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceListDHSService**

```
public ServiceResponseInstanceListDHSService()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceListDHSStorage



< [Constructors](#) >

```
public class ServiceResponseInstanceListDHSStorage
extends ServiceResponse
```

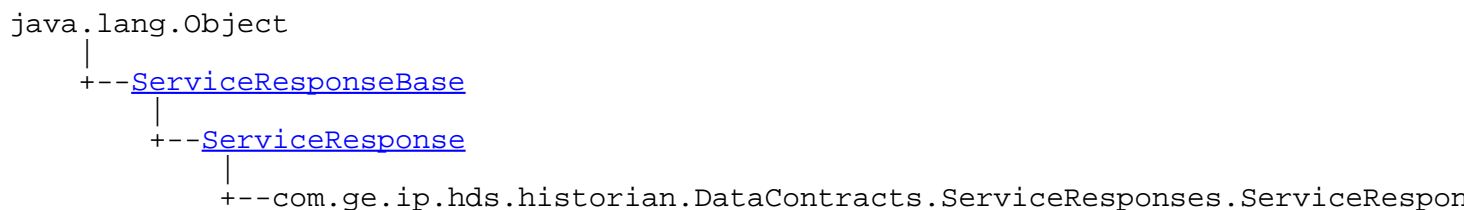
## Constructors

### ServiceResponseInstanceListDHSStorage

```
public ServiceResponseInstanceListDHSStorage()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceListDataProperty



< [Constructors](#) >

```
public class ServiceResponseInstanceListDataProperty
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceListDataProperty

```
public ServiceResponseInstanceListDataProperty()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceListDataStore

```
java.lang.Object
```

```
|--ServiceResponseBase
```

```
|--ServiceResponse
```

```
---com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListDataStore
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceListDataStore

```
public ServiceResponseInstanceListDataStore()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceListEnumeratedSetPro

```
java.lang.Object
```

```
|--ServiceResponseBase
```

```
|--ServiceResponse
```

```
---com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListEnumeratedSetPropertyBase  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceListEnumeratedSetPropertyBase**

```
public ServiceResponseInstanceListEnumeratedSetPropertyBase()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

### **ServiceResponseInstanceListInterfaceDef**

```
java.lang.Object  
|  
+--ServiceResponseBase  
|  
+--ServiceResponse  
|  
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceRespon
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListInterfaceDef  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceListInterfaceDef**

```
public ServiceResponseInstanceListInterfaceDef()
```

---



com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceListItemError



< [Constructors](#) >

```
public class ServiceResponseInstanceListItemError
extends ServiceResponse
```

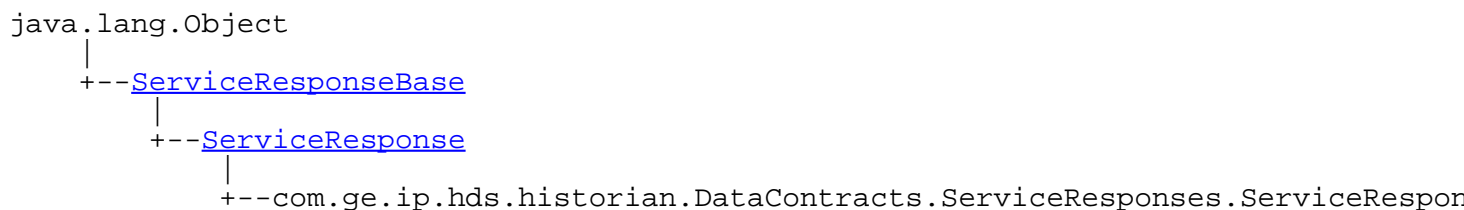
## Constructors

### ServiceResponseInstanceListItemError

```
public ServiceResponseInstanceListItemError()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceListJobRecord



< [Constructors](#) >

```
public class ServiceResponseInstanceListJobRecord
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceListJobRecord

```
public ServiceResponseInstanceListJobRecord()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class ServiceResponseInstanceListMessage

```
java.lang.Object
  |-- ServiceResponseBase
      |-- ServiceResponse
          |-- com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListMessage
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceListMessage

```
public ServiceResponseInstanceListMessage()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceListQueryModifierProperty

```
java.lang.Object
  |-- ServiceResponseBase
      |-- ServiceResponse
          |-- com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListQueryModifierProperty
extends ServiceResponse
```

## Constructors

### ServiceResponseInstanceListQueryModifierProperty

```
public ServiceResponseInstanceListQueryModifierProperty()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

### Class ServiceResponseInstanceListString

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListString
extends ServiceResponse
```

## Constructors

### ServiceResponseInstanceListString

```
public ServiceResponseInstanceListString()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceListTagPropertyBase



< [Constructors](#) >

```
public class ServiceResponseInstanceListTagPropertyBase
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceListTagPropertyBase

```
public ServiceResponseInstanceListTagPropertyBase()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceListTagSamples



< [Constructors](#) >

```
public class ServiceResponseInstanceListTagSamples
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceListTagSamples

```
public ServiceResponseInstanceListTagSamples()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceListTrendData

```
java.lang.Object
```

```
|--ServiceResponseBase
```

```
|--ServiceResponse
```

```
---com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceRespon
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListTrendData
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceListTrendData

```
public ServiceResponseInstanceListTrendData()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceListUserDefinedTypes

```
java.lang.Object
```

```
|--ServiceResponseBase
```

```
|--ServiceResponse
```

```
---com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceRespon
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceListUserDefinedTypes  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstanceListUserDefinedTypes**

```
public ServiceResponseInstanceListUserDefinedTypes()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

### **ServiceResponseInstancePerformanceCounters**

```
java.lang.Object  
|  
+--ServiceResponseBase  
|  
+--ServiceResponse  
|  
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceRespon
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstancePerformanceCounters  
extends ServiceResponse
```

## Constructors

### **ServiceResponseInstancePerformanceCounters**

```
public ServiceResponseInstancePerformanceCounters()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceString

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponseInstanceString
```

< [Constructors](#) >

```
public class ServiceResponseInstanceString
extends ServiceResponse
```

## Constructors

### ServiceResponseInstanceString

```
public ServiceResponseInstanceString()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

# Class ServiceResponseInstanceTagProperty

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponseInstanceTagProperty
```

< [Constructors](#) >

```
public class ServiceResponseInstanceTagProperty
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceTagProperty

```
public ServiceResponseInstanceTagProperty()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseInstanceUserDefinedType

```
java.lang.Object
```

```
|--ServiceResponseBase
```

```
|--ServiceResponse
```

```
---com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseInstanceUserDefinedType
extends ServiceResponse
```

## Constructors

# ServiceResponseInstanceUserDefinedType

```
public ServiceResponseInstanceUserDefinedType()
```

---

com.ge.ip.hds.historian.DataContracts.ServiceResponses

## Class

# ServiceResponseStringMap

```
java.lang.Object
```

```
|--ServiceResponseBase
```

```
|--ServiceResponse
```

```
---com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

---

< [Constructors](#) >

---

```
public class ServiceResponseStringMap
extends ServiceResponse
```



## Constructors

### **ServiceResponseStringMap**

```
public ServiceResponseStringMap()
```

# Package

## com.ge.ip.hds.historiandatacontractjava

### Class Summary

[Activator](#)

com.ge.ip.hds.historiandatacontractjava

## Class Activator

```
java.lang.Object
|
+--com.ge.ip.hds.historiandatacontractjava.Activator
```

### All Implemented Interfaces:

org.osgi.framework.BundleActivator

< [Constructors](#) > < [Methods](#) >

```
public class Activator
extends java.lang.Object
implements org.osgi.framework.BundleActivator
```

### Constructors

#### Activator

```
public Activator()
```

### Methods

#### start

```
public void start(org.osgi.framework.BundleContext context)
```

#### stop

```
public void stop(org.osgi.framework.BundleContext context)
```

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