



Proficiency Historian 9.1

Java APIs Data Contracts



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Package com.ge.ip.hds.helper

Class Summary

[DateAdapter](#)

[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

Class Summary

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Archive

[ArchiveStatistics](#)

[ArchiveStatusType](#)

[ArrayValue](#)

[CalculationModeType](#)

CalculationModeType

[CollectorOperationAction](#)

[CollectorProperty](#)

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[CollectorType](#)

[ConditionCollectionComparisonType](#)

[DHSServiceInfo](#)

DHSServiceInfo

[DHSServiceType](#)

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[DHSStorageType](#)

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[DataCriteria](#)

DataCriteria

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DataSample

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ErrorCode

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FilterModeType

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[HistorianDataServiceServer](#)

[HistorianOperationException](#)

HistorianOperationException

[HistorianOption](#)

[HistorianType](#)

[InterfaceDef](#)

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[ItemError](#)

[JobRecord](#)

[JobStatus](#)

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[TagPropertyBase](#)

[TagSamples](#)

[TagWithData](#)

[TimeResolutionType](#)

[TimeStampDeterminedByType](#)

[TrendData](#)

[TrendDataSample](#)

[UserDefinedType](#)

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

getStartTime

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

Returns:

the startTime

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€” 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€” 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

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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.ServiceResponse
```

< [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.ServiceResponse
```

< [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

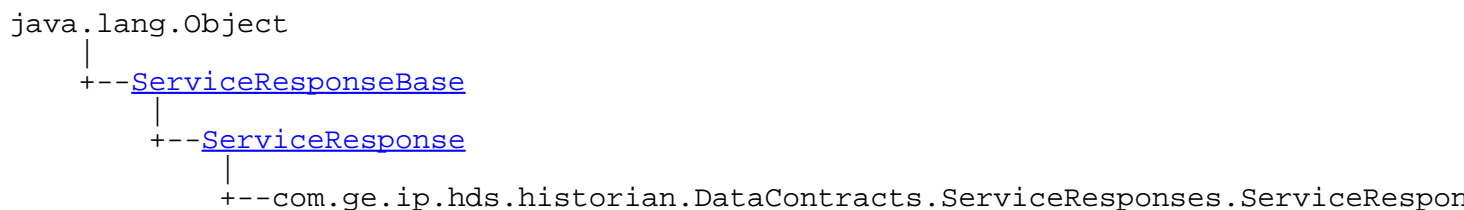
ServiceResponseInstanceHierarchicalBrowseResponse

```
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

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

< [Constructors](#) >

```
public class ServiceResponseInstanceListDHSStorage
extends ServiceResponse
```

Constructors

ServiceResponseInstanceListDHSStorage

```
public ServiceResponseInstanceListDHSStorage()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

Class ServiceResponseInstanceListDataProperty

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

< [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 ServiceResponseListItemError

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

< [Constructors](#) >

```
public class ServiceResponseListItemError
extends ServiceResponse
```

Constructors

ServiceResponseListItemError

```
public ServiceResponseListItemError()
```

com.ge.ip.hds.historian.DataContracts.ServiceResponses

Class ServiceResponseListJobRecord

```
java.lang.Object
|
+--ServiceResponseBase
|
+--ServiceResponse
|
+--com.ge.ip.hds.historian.DataContracts.ServiceResponses.ServiceResponse
```

< [Constructors](#) >

```
public class ServiceResponseListJobRecord
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
```

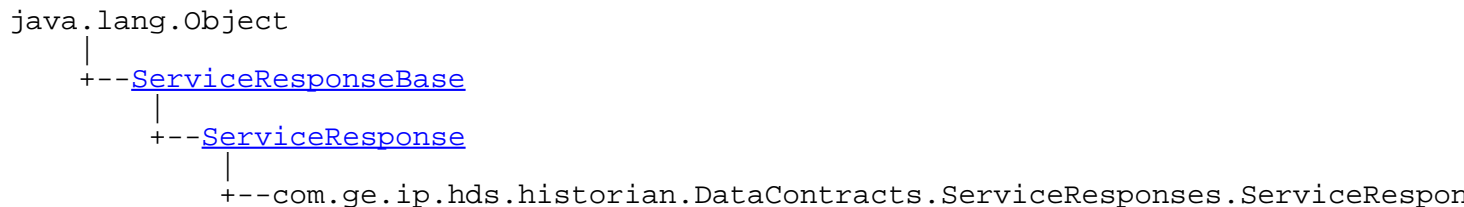
Constructors

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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