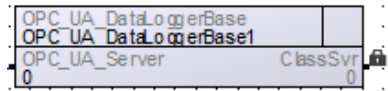


OPC-UA_DataLoggerBase

This is the base class for storing historical data of OpcUa data types. This class can only exist derived.



Using the Class

→ Serves as base class for storing OpcUa historical data.

Where the data is actually stored depends on the derivation of this class, the base class itself only provides the methods for storing and reading. The handling of the memory is done in the derivative.

→ This class also contains the interface to the C-functions "OPCUA_ParseLogValueToDataValue()" "OPCUA_ResetDataValue()" with which the byte string to be stored can be converted back into the actual OpcUa data types.

Interfaces

Server

ClassSvr	Class server			
	Data type	DINT	DefaultInitValue	-
	Value range	DINT	WriteProtected	TRUE
	Unit	-	Retentive	FALSE

Client

OPC-UA_Server	Object channel to the OPC-UA_Server class
---------------	---

Global Methods

LogHistoryData	<p>This method is called whenever a new value is to be logged from a node. The function call already contains the length and the pointer to the data, which must be stored as byte string in addition to the other transfer parameters.</p> <p>IN primaryKey the index with which the data can be assigned to the node ID</p> <p>IN statusCode the status of the value being stored</p> <p>IN sourceTime the time from the system over which the data point was changed</p> <p>IN serverTime the time from the server at which the data point was change</p> <p>IN valueType the type of the data point to be stored (required for reconversion)</p> <p>IN dataLength the length of the byte string to be stored</p> <p>IN data the pointer to the byte string containing the data</p> <p>OUT: retcode Return value 0 ... saved successfully !0 ... Error code</p>
LogHistoryEvent	Not yet implemented (prototype)
ReadHistoryData	<p>This method is called whenever historical data has to be read, e.g. because it is requested by a client.</p> <p>IN primaryKey the index of the node ID from which the data is needed</p> <p>IN startTime the start time of the requested data</p> <p>IN endTime the end time of the requested data</p> <p>IN isInverse indicates whether the data is needed from back to front</p> <p>IN numValues a pointer to the number of data points required</p> <p>IN results a pointer to the memory area where the results should be stored</p> <p>IN continuationPoint a pointer to the ContinuationPoint, if it was needed in a previous query</p> <p>IN continuationOffset the continuationOffset indicates how many values of the exact start time have already been read, if several exist</p> <p>OUT: retcode Return value 0 ... read successfully !0 ... error code</p>

Appendix

See class "OPC-UA_DataLoggerMerkerEx" for an example implementation to record data.