

Release Note JOPC-Bridge v4.6.0000

Project Name: JOPC-Bridge

Abstract:

This document contains the release note for product JOPC-Bridge v4.6.0000.

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What's New

- Support for multiple JOPC-Bridge processes with one dongle.
- Support unsigned integer data types and arrays
 - DATA_TYPE_UI1 and DATA_TYPE_UI1_ARRAY
 - DATA_TYPE_UI2 and DATA_TYPE_UI2_ARRAY
 - DATA_TYPE_UI4 and DATA_TYPE_UI4_ARRAY

Fixed Bugs

- Fixed use of DATA_TYPE_I8 and DATA_TYPE_I8_ARRAY

Known Issues

- When creating a `javax.swing.JFileChooser` object with JRE v1.5.0_06 while connected to an OPC server will cause JOPC-Bridge to silently disconnect. This is due to an OS-specific function not residing in the domain of our software. To avoid that behavior the following workarounds are recommended:
 - a) disconnect and reconnect after creating a `JFileChooser`. All `OpcGroups` and `OpcItems` must be re-created
 - b) use alternative classes such as `java.awt.FileDialog`
 - c) create `JFileChooser` prior to connecting and reuse the object
 - d) use JRE v1.6.0
- When accessing JOPC-Bridge via RMI, special precaution must be taken with RMI timeouts. The property `sun.rmi.transport.connectionTimeout` (default: 15sec) must be higher than the longest time interval between two consecutive calls to JOPC-Bridge functions, e.g. between two `getStatus` requests.
- With Sun's Virtual Machine in JRE v1.5.0_06 up to v1.6, memory leaks can occur when using `OpcEvents` and `OpcAdviseSinks` due to a bug in the virtual machine (Sun Developer Network, Bug ID 6399321). It is recommended to use JRE v1.5.0_05 which is the latest version not showing the symptoms.
- Improperly configured DCOM settings can prevent successful connection to the OPC Server. Please check the following resources for more information on DCOM.
 - <http://www.opcfoundation.org/> > Downloads > White Papers
 - <http://www.opcconnect.com/dcomcfg.php>
- If you have been using v2.0 and want to upgrade to version v4, please take a note that the package structure of the Java classes and the has changed. The package name no more starts with `ch.sulzer.jpc.**` but with `com.netmodule.jpc.**`. Your application must use the new packages. Some IDE's (e.g. JBuilder or Eclipse) provide support for package migration. The name of the dll has changed as well. It is now called `JOPC-Bridge.dll`. The old `OPCBridge.dll` is no more required and should be removed.

Additional Information

- The evaluation mode of JOPC-Bridge is restricted to
 - 3 OpcGroups (OPC DA restriction)
 - 20 Opcltem additions (OPC DA restriction)
 - 4000 Opcltem notifications (OPC DA restriction)
 - 200 OpcEvents (OPC AE restriction)
- After successful registration for OPC DA and/or OPC AE the registered part will work in runtime mode and have no restrictions. The rest of the product will remain in evaluation mode.

System Requirements

- Operating System: Microsoft Windows 2000, Windows XP or similar
- Hard Disk: 1 MB free space.
- Java Runtime Environment: JRE 1.4 or later
- Other: OPC Server DA 1.0, DA 2.0, DA 3.0 and/or AE 1.0

Version History

v4.6.0000 (Build 2008-03-12)

- New: Support for multiple processes with dongle licenses.
- New: Support for unsigned integers and unsigned integer array data types.
- Fixed: Use of I8 and I8 array.

v4.5.0000 (Build 2007-02-07)

- New: Support for dongles instead of hardware related licenses.
- Fixed: Read of R4 array and I8 array (case 4645)
- Fixed: GUI warnings about license issues threw an exception when no windowing facility was available. (case 5013)

v4.4.0000 (Build 2007-01-10)

- Fixed: Frequent calling of writeSync in JVM server mode led to VM crash (case 3797, 3798, 3799)
- Fixed: Made release of OpcGroups and OpcServer more error-prone.
- Fixed: Be more tolerant with return code when creating OpcEventSubscriptions. (case 2927).
- Fixed: Disconnect of JOPC-Bridge left resources open in the server. With a fix of OpcGroup interface releasing the server now can shutdown after a disconnect (case 2699).

v4.3.0000 (Build 2006-07-18)

- New: Restricted evaluation and fully functional runtime mode through licenses.
- Improved: Detailed error messages for DCOM errors available.
- Improved: Logging messages extended

v4.2.0000 (Build 2006-06-13)

- New: Logging to console mechanism with configurable log levels.
- New: JOPC-Bridge class can convert OPC error codes to error strings.
- New: Opcltem now supports the variant types I1, I2, I4, I8, R4, R8, BOOL and BSTR.
- New: Alarms and Events can be acknowledged.
- Updated: JOPC-Bridge will register itself under the client name "JOPC-Bridge" at the server.

v4.1.0000 (Build 2006-05-16)

- New: OpcCommonServer can obtain a list of all OPC servers on a machine.
- New: OpcGroup allows to modify its group attributes (UpdateRate, TimeBias, Active flag, PercentDeadband and LocalizationID).
- New: The client can subscribe for a OPC server shutdown notification.
- Improved: The two tools OPCDACLient and OPCEClient can search for available OPC servers on a host.
- Improved: Documentation of the API in Javadoc style.

v4.0.0004 (Build 2006-04-28)

- New: Opcltem.addItems() can now return the access rights of the added items.
- Updated: OpcGroup.registerAdviceSink() was replaced by new method OpcGroup.registerAdviseSink().

v4.0.0003 (Build 2006-02-03)

- New: In OPCServer.addGroup () the additional parameter 'dwRequestedUpdateRate' allows to set an update rate for the new group.

v4.0.0002 (Build 2005-10-25)

- Fixed: In OPCGroup::Read(): In case S_FALSE return item[i] instead of NULL

v4.0.0001 (Build 2005-10-13)

- Fixed: Removed memory leak in OPCGroup::writeSync and OPCGroup::writeAsync.

v4.0.0000 (Build 2005-06-24)

- New: Support of OPC DA 3.0
- Improved: Additional array types for Opcltem:

A.1	BooleanArray
A.2	StringArray
A.3	DoubleArray
A.4	ByteArray

v3.0.0000 (Build 2004-12-15)

- Updated: Integration of OPC-AE (OPC Alarms und Events)
- Updated: Package name change from sulzer to com_netmodule.
- New: Version query

v2.0.0004 (Build 2003-07-02)

- Improved: Boolean query changed, for compatibility with Foxboro OPCServer.

v2.0.0003 (Build 2003-06-17, Changed 2003-04-23)

- Updated: Changed class name JpcOpcData to Opcltem.

v2.0.0002 (Build 2003-02-07)

- Fixed: OPCBridge works also together with OPC 1.0.
- Improved: Changes in OPCGroup::destroy() and OPCServer::disconnect()

v2.0.0001 (Build 2002-10-03)

- New: OpcServer.getStatus() returns an object of type OpcServerStatus. This instance can be used to obtain the OPC server's software versions.

v2.0.0000 (Build 2002-05-21)

- New: OPC-Data Access Specification 2.0 implemented