

FieldTalk™ Modbus Master Library, Java™ Edition

FT-MBMP-JAVA-EVAL Read Me Notes

Revision 2.6.5, 2021-01-18

Welcome to the evaluation of FieldTalk™ Modbus Master Library, Java™ Edition!

This evaluation package allows you to:

- Read the product manual
- Browse the Modbus Master library API documentation
- Study the source code of the Modbus examples provided
- Modify and compile the Modbus examples
- Create your own Modbus programs and test them using the library

Documentation

To browse the *API Documentation* please click here [[doc/html/index.html](#)].

To read or print the *Product Manual* please click here [[doc/README.pdf](#)].

Please refer to the additional *Application Notes* published on our web site: <http://www.modbusdriver.com/doc>

Limitations and Restrictions

The evaluation version is functional limited to 100 modbus operations. Once 100 operations are reached, all library functions will throw and `EvaluationExpiredException` exception.

In addition it does not contain any redistributable components. You must not redistribute any source, class, jar or library files.

This package is provided for the purpose of evaluating whether to purchase an ongoing license to use the Package.

THE EVALUATION PERIOD IS LIMITED TO 30 DAYS and does not include the right to reproduce and distribute Applications using the Package. At the end of the evaluation period, if You do not purchase a license, You must uninstall the Package from the computers or devices You installed it on.

THE EVALUATION VERSION IS FUNCTIONAL LIMITED TO 100 MODBUS OPERATIONS!

Files part of the package

README, README.pdf
These Read Me notes.

LICENSE-LIB, LICENSE-LIB.pdf
Library License containing the Terms & Conditions of use of this software.

doc\README.pdf

Documentation in PDF format.

doc\html\index.html

Documentation in HTML format.

samples

Directory with example programs as a starting point for your application.

lib\mbusmaster.jar

Jar package containing the *FieldTalk* library. This jar file is distributed with your application.

lib\javacomm20-win32.zip

Java Communication API for Windows from Sun Microsystems, Inc. We ship this 3rd party product together with our product so Windows user can run the example programs. A Java COMM API extension must be installed first in order to use serial communication!

src

FieldTalk library source code files. Only required if it is desired to re-compile the library with custom settings. The precompiled jar archive should be sufficient for most applications.

Distributable components

This is an evaluation edition and does not contain any redistributable components.



You must not redistribute any executables, source, class, jar or library files which are based on this evaluation edition.

Release history

2.6.5 (2021-01-18)

Enhancements

- Added MBAP ID validation

2.6.4 (2012-10-26)

Bug fixes

- Changed handling of IOException which caused failing of the MbusRtuOverTcpProtocol.

2.6.3 (2011-10-31)

Bug fixes

- New method of waiting for silence in RTU. Disabled monitor thread mechanism. Caused phantom time-outs with SerialIO serial library.

2.6.2 (2011-03-23)

API changes

- RTU over TCP protocol added, which is also known as encapsulated RTU. This protocol flavour is for example used by ISaGraf Soft-PLCs.

2.6.1 (2011-01-20)

Documentation

- Fixed error in documentation of Modbus function 22 / maskWriteRegister.

API changes

- Maximum supported slave ID increased from 247 to 255
- Defaults for serial protocols changed to 19200 and even parity as per Modbus specification.
- MbusAsciiMessaging, MbusTcpMessaging, MbusRtuMessaging: classes now declared public
- Removed redundant and rarely used overloaded method `openProtocol(string portName, Int32 baudRate)`. Use `openProtocol(portName, baudRate, dataBits, stopBits, parity)` instead.

Enhancements

- Serial Modbus comm port initialisation now ignores errors for unsupported API functions like `setFlowControlMode`. Not all comm APIs seem to support them.
- Modbus/TCP: `openProtocol` now honours timeout setting for connections if running on JDK 1.4 or higher.

Bug fixes

- ENRON support for `writeMultipleRegisters` fixed.

2.2 (2004-03-17)

- Vendor specific Read Log History function (FC 100) added.
- ELAM Modbus extension support added.

2.1 (2003-09-09)

- Added Daniel/Enron 32-bit mode support. The 32-bit configuration settings can now be applied on a per slave basis.
- Result buffer is not cleared anymore. It is now up to the user application to invalidate data after a data retrieval function has failed (Clearing the result buffer caused problems in multi-threaded apps).

- New configuration methods: `configureStandard32BitMode()`, `configureLittleEndianFloats()`, `configureStandard32BitMode(int slaveAddr)`, `configureSingleReg32BitMode(int slaveAddr)`, `configureCountFromOne(int slaveAddr)`, `configureCountFromZero(int slaveAddr)`, `configureCountFromOne()`, `configureLittleEndianInts(int slaveAddr)`, `configureSingleReg32BitMode()`, `configureBigEndianInts(int slaveAddr)`, `configureCountFromZero()`, `configureLittleEndianFloats(int slaveAddr)`, `configureLittleEndianInts()`, `configureSwappedFloats(int slaveAddr)`

2.0 (2003-08-15)

- Logger class changed, it does not depend on the availability of Swing anymore. Swing is not available on some stripped down Java micro editions. Logger now supports debug log configuration via a `logger.properties` file. Renamed `closeConnection` and `closePort` methods to `closeProtocol`. Renamed `openConnection` and `openPort` methods to `openProtocol`. `openProtocol` (formerly `openPort`) method opens serial port now with NO PARITY. Implemented new time-out mechanism which uses a monitor thread. The old mechanism relied on the COMM API's time-out function which did not work reliable due to a bug in Microsoft's Win98 COMM driver. Small changes to compile against TINI SDK 1.11.

1.1 (2002-02-18)

- Class `MbusSerialMasterProtocol` made public, `MbusTcpProtocol.setPort()` validates now port parameter passed, `MbusTcpProtocol.isConnected()` renamed to `MbusTcpProtocol.isOpen()`, `isOpen()` introduced in `MbusMasterFunctions`.

1.0 (2002-02-10)

- First release

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