

FieldTalk™ Modbus Slave Library for .NET

FT-MBSV-NET-EVAL Read Me Notes

Revision 2.11.0, 2025-02-26

Welcome to the evaluation of FieldTalk™ Modbus Slave Library for .NET!

This evaluation package allows you to:

- Read the product manual
- Browse the Modbus Slave 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/FieldTalk.Modbus.Slave.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 return error code 3 `FTALK_EVALUATION_EXPIRED`.

In addition it does not contain any redistributable components. You must not redistribute any source, object 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\FieldTalk.Modbus.Slave.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\FieldTalk.Modbus.Slave.2.11.0.0.nupkg`

NuGet package with

- .NET interop libraries for .NET/.NET Core (with .NET Standard ≥ 2.0) and classic .NET Frameworks 4.8, 4.7, 4.6, 4.5, 4.0 and Mono 5.x, 4.x.
- Native code DLLs for Windows x86, x64, Arm32 and Arm64 processors
- Native code shared libraries for Linux x64, Arm32 and Arm64 processors

`lib\net`

.NET interop libraries for .NET 9.0, 8.0, 7.0, 6.0, 5.0 and .NET Core (with .NET Standard ≥ 2.0)

`lib\net40`

.NET interop libraries for classic .NET Frameworks 4.8, 4.7, 4.6, 4.5, 4.0 and Mono 5.x, 4.x.

`lib\net20`

.NET interop libraries for classic .NET Frameworks 3.5, 3.0, 2.0

`lib\netcf20`

.NET interop libraries for .NET Compact Frameworks 3.9, 3.7, 3.5, 2.0

`runtimes\win-...\native\libmbusslave.dll`

Native code DLLs for Windows x86, x64, Arm32 and Arm64 processors

`runtimes\linux-...\native\libmbusslave.dll`

Native code shared libraries for Linux x64, Arm32 and Arm64 processors

`runtimes\wce500-...\native\libmbusslave.dll`

Native code DLLs for Windows CE 5.0, 6.0 for x86 and ARMv4

`runtimes\wce800-...\native\libmbusslave.dll`

Native code DLLs for Embedded Compact 2013 (aka CE 8.0) for x86 and ARMv7 processors

Distributable components

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



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

Release history

2.11.0 (2025-02-26)

Enhancements

- First class support for .NET 9, fixed warning NETSDK1206 when compiling against .NET Core 8 and 9
- Added assembly and runtime files separate to nuget file

2.10.0 (2024-05-14)

Enhancements

- Added Modbus UDP protocol
- Added RTU over TCP protocol (encapsulated RTU)
- Modbus/TCP: Master connect, poll and disconnect event notification callbacks added.

API changes

- Renamed MbusSerialSlaveProtocol class to MbusSerialServerBase

Bug fixes

- Linux: The serverLoop() returned wrongly an error FTALK_FILEDES_EXCEEDED return code if it was interrupted by a signal. This only would occur running under Mono.

2.9.0 (2024-01-15)

Enhancements

- Additional master meta data is made available via the `MasterInfo` structure
- Updated .NET core examples to .NET Core 8

API changes

- Added `getMasterInfo()` function to data table interface.

Bug fixes

- Fixed misspelled `FTALK_MBUS_ILLEGAL_ADDRESS_RESPONSE` constant
- Fixed issue with VB.net samples not loading the reference *FieldTalk.Modbus.Slave.dll* and causing compile errors

2.8.1 (2021-06-21)

Enhancements

- Added `setConnectionTimeOut/getConnectionTimeOut` functions to `MbusTcpSlaveProtocol`

2.8.0 (2021-04-02)

Enhancements

- Added .NET Core support
- Added Windows 10 UWP ARM64 platform
- Added Linux ARM32 platform

2.7.4 (2019-10-31)

Bug fixes

- Fixed processing of broadcasts
- Fixed Modbus/TCP disconnection after *FC43 Read Device Identification* query
- Fixed incorrect number of objects reported for *Read Device ID* code 2 in Function code 43 *Read Device Identification*
- Silenced `System.MissingMethodException` message under Windows CE

2.7.3 (2019-03-08)

API changes

- Added `setFrameTolerance()` method for Modbus RTU .Enhancements
- Added .NET Core support for UWP for x86, x64 and ARM

2.7.2 (2019-02-25)

Enhancements

- Added .NET Core support for Linux ARM32 (Raspberry Pi et al)

2.7.1 (2018-05-11)

Bug fixes

- Callbacks for the new Modbus functions added in 2.7.0 `readDeviceIdentification`, `reportSlaveId`, `readFileRecord`, `writeFileRecord`, `reportRunIndicatorStatus` were not registered and not called. Same issue also caused execution on 32-bit Windows to fail.

2.7.0 (2018-04-06)

Enhancements

- .NET Core support added
- .NET Framework 4.7 and 4.6 validated
- Windows Embedded Compact support added
- Library is now a NuGet package
- Updated all examples to VS2017 project files
- Added Modbus function 20 Read File Records
- Added Modbus function 21 Write File Records
- Added Modbus function 43 / subfunction 14 Read Device Identification
- Added Modbus function 17 Report Slave ID
- Added RegisterConverter class

Other changes

- Assembly name changed to *FieldTalk*.Modbus.Slave.dll
- With the exception of Windows CE, support for Visual Studio 2005/2008 has been discontinued and the relevant project/solution files removed.

2.6.2 (2016-07-29)

Bug fixes

- Modbus function code 02 not working correctly: readCoilsTable was called instead of readInputDiscretesTable

2.6.1 (2016-01-29)

Bug fixes

- Fixed wrong init of RTU protocol introduced in 2.6.0 which could cause RTU's serverLoop not returning

2.6.0 2015-03-24

Enhancements

- Added VS2010 and VS2012 solution files for examples
- Added support for .NET framework versions 4.x (CLR version 4 based frameworks)

- Added Daniel/Enron 32-bit mode support.
- Improved time-out handling of `timeOutHandler()` callbacks
- COMn will now automatically be substituted with `\\.\COMn` for more convenient access to serial ports ≥ 10

API changes

- Namespace changed from *FieldTalk* to *FieldTalk.Modbus.Slave*

Bug fixes

- Fixed wrong `getConnectionStatus()` indication after TCP disconnection
- Modbus RTU: Reduced delay when replying.
- Fixed callback marshalling bug which affected Win CE ARM platform.

2.5.3 (2011-10-26)

Bug fixes

- Using -1 as parameter for `addDataTable` could cause an exception later when destructor is called

2.5.2 (2011-10-24)

Enhancements

- Added WinFormsSample
- Implemented `IDisposable` interface

Bug fixes

- `MbusTcpSlaveProtocol`'s `hostName` property was not working

2.5.1 (2010-01-28)

Enhancements

- Assembly is now signed and strong named

Bug fixes

- Coils and discretes were misaligned by 4.

2.5.0 (2009-11-24)

- First release