Release Notes for EDIABAS 7.3.0 Build 501

1. General

Supported platforms

The delivery of EDIABAS version 7.3 software supports the following platforms:

- Windows 7/XP (WIN32)
- .NET Framework 4.0/3.5/2.0/1.1 (WIN32)

The target systems PocketPC/WindowsMobile 2003/2005 (WinCE) are no longer supported.

Interface connections

The EDIABAS version 7.3 supports the following interfaces under Windows 7/XP (Win32):

- ZGW interface via Ethernet (XENET32.DLL)
- Standard interface (XSTD32.DLL)
- EDIC interfaces (XEDIC32.DLL, XEDICC32.DLL) for Windows XP
- Proxy interface (XPROXY32.DLL)
- XRemote interface (XREMOT32.DLL) + IFH server (IFHSRV32.EXE, NMSIFH32.DLL)
- XRemote+interface (XRPLUS32.DLL) + IFH server (IFHSRV32.EXE, NMSIFHPLUS32.DLL)
- XTele interface (XTELE32.DLL) for TeleServices version 7.1.x.x for Windows XP
- XNul interface (XNUL32.DLL)

For the proper function of the EDIC interface with tracing functionality the EDIC-BMW-Software with minimum version 7.54/7.54a is required.

The use of other interfaces is not possible. The interface connections of former EDIABAS versions must not be combined with this EDIABAS Version.

APIs

The API DLL for Win32 (API32.DLL) supports the optionally EDIABAS controller service. The existing DLL functions are still supported, however the behavior of the functions is modified:

> *void closeServer()*   ⇨ Ignored
> *BOOL enableServer(0..1)* ⇨ Changing the default IFH locking behaviour:
>> *0* = Suppress IFH locking
>>> (if controller service is running)
>> *1* = Retrieve IFH locking availability
>>> (depends on whether controller service is running)

The EDIABAS Application Development Kit contains libraries for Visual C++ 2010 SP1 / 2008 SP1 / 6.0 SP6 (API32.LIB) and modules for Visual Basic 2010 SP1 / 2008 SP1 / 2005 SP1 / 2003 SP1 (API.VB) as well as Visual Basic 6.0 SP6 / 4.0 (API.BAS).

The EDIABAS Runtime System includes APIs for .NET Framework 4.0/3.5/2.0/1.1 under WIN32 (APINET32.DLL, APIVBNET32.DLL). The API for the .NET Framework is only usable, if it is in the program directory of EDIABAS (BIN).

2. Changes and enhancements

Changes for Windows 7

The BESTVIEW debugger (BESTVW32.EXE) shows the help file BESTVW32.CHM (HTML help format). The previous help file of BESTVIEW (BESTVW32.HLP) is no longer supported.

The EDIABAS controller service (EBASCS32.EXE) has an automatic administrator request for Windows 7. In Windows explorer, the program icon is displayed with an administrator shield. During each install/uninstall the administrator login informations are requested by Windows 7.

The BEST2 compiler BEST2WIN.EXE is now a Win32 application and can also be used under the Win64 platform of Windows 7. Both BEST2 compiler (BEST2.EXE, BEST2WIN.EXE) shows the progress in the taskbar button (only Windows 7).

The IFH server (IFHSRV32.EXE) shows existing connection and communication phases in the taskbar button (only Windows 7).

The EDIABAS tracer (TRACEX32.DLL) provides the trace synronization of concurrent processes within the same user account. For a trace synchronization with other processes, administrator user rights are required.

PE

The utility PE now has additional exit codes for the function check (when called with command line parameter –C):

> 0 if at least 1 SGBD password is the same
>   = "EXECUTABLE (on installed EDIABAS)"
> 1 in appearance of a general error
> 2 if no SGBD password is the same
>   = "NOT EXECUTABLE (on installed EDIABAS)"
> 3 if no SGBD password is defined
>   = "EXECUTABLE (not protected)"

BEST2 compiler for Win32

The BEST2 compiler BEST2WIN.EXE is now available as a Win32 application.

Both BEST2 compilers (BEST2.EXE, BEST2WIN.EXE) are showing now the remaining compilation time. The progress informations are displayed within the taskbar, when the console window is minimized.

The BEST development kit contains only the help files BEST2.CHM/BESTVW32.CHM (HTML help format).

The help file BEST2.CHM has been updated for the new BEST2 compiler (BEST2WIN.EXE).

Network components (Win32)

The IFH server IFHSRV32.EXE now has a thread-based connection management. The previous timing configurations are obsolete and are now longer supported.

The IFH server now performs the following synchronization objects for Win32:
- Mutex "NETMAN_SERVER_MUTEX"
- Event "NETMAN_SERVER_ENABLE" (Manual-Reset-Event)

- Event "NETMAN_SERVER_DISABLE" (Manual-Reset-Event)
- Event "NETMAN_SERVER_EXIT" (Manual-Reset-Event)
- Event "NETMAN_SERVER_ENABLED" (Auto-Reset-Event)
- Event "NETMAN_SERVER_DISABLED" (Auto-Reset-Event)

The IFH server will be activated automatically after it has started. All named synchronization objects are only accessible for processes within the same login session.

The network components NETTCP32.DLL/NETPRO32.DLL have been enhanced for unloading under Windows 7.

3. Corrections

Correction of XRPLUS interface (V7.3.0 Build 500) – Win32
→ Defect #106

Correction of error handling for ICOM address mapping.

The shutdown procedure has been revised to improve stability and resource management.

Correction of XRPLUS interface (V7.3.0 Build 501) – Win32
→ Defect #106

The runtime-management of threads has been corrected.

The shutdown procedure has been corrected.

Correction of XSTD/XENET interfaces, Proxy (RDRIFH) and NMSIFHPLUS (V7.3.0 Build 501) – Win32

The runtime-management of threads has been corrected.

4. Documentation

The following updated documentation is valid for EDIABAS-Version 7.3:

EDIABAS user's guide
- Release Notes V7.3.0 Build 501   (Release.pdf)
- User manual/Installation guide   (HTML/CHM)   Version 7o
- Error reference   (HTML/CHM)   Version 7c
- ECU simulator   (HTML/CHM)   Version 7c

EDIABAS BEST developer's guide
- BEST user manual   (HTML/CHM)   Version 7f
- BEST/2 language description   (HTML/CHM)   Version 7c
- BEST/2 function primer   (HTML/CHM)   Version 7d

EDIABAS API developer's guide
- API user manual   (HTML/CHM)   Version 7f
- API interface description   (HTML/CHM)   Version 7d
- API function primer   (HTML/CHM)   Version 7c
- Transparent mode interface description (HTML/CHM)   Version 7b