

libbasiccard / libbccrypto for Windows

Version 0.2.5

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Documentation last updated August 31, 2009

This is the additional documentation for the Microsoft Windows version of libbasiccard and libbccrypto.

Contents of the archive file

Directory 'bin'

- libbasiccard.dll and libbccrypto.dll: These are the compiled libraries. They have to be in the PATH to run an application which needs them.
- zccri.dll, zcbci.dll, zccrypt.dll: These are wrappers for libbasiccard and libbccrypto which emulate the official Windows API as published by ZeitControl. They allow libbasiccard and libbccrypto to be used as replacement for existing applications expecting the official API.
- bcsetreader.exe: An application to choose the smart card reader to be used as default reader by libbasiccard.
- calcdemo.exe: A command-line demo application which uses libbasiccard to communicate with a 'BasicCard Mini-Calculator'-card whose source code is provided with the BasicCard development environment.
Try running 'calcdemo 17+4' with an appropriate smart card inserted into the default reader.

Directory 'docs'

Contains this documentation and libbasiccard.pdf, the main reference for libbasiccard and libbccrypto.

Directory 'include'

Contains the necessary include files for your C compiler. If you use the MinGW compiler, you will also have to add 'mingw32\include' to your include file path.

Directory 'lib'

Contains import libraries for libbasiccard and libbccrypto. The following C compilers are supported:

- xxx-bcc.lib: Borland C++
- xxx-msvc.lib: Microsoft Visual C++
- xxx-gcc.a: GCC for Windows, specially MinGW

Link against these libraries and your application will use the DLLs as provided in 'bin'.

Directory 'mingw32'

The 'include' subdirectory provides include files which are needed if you use the MinGW compiler.

Notes about the Windows version

Common reader interface

- In the Windows version the way libbasiccard uses to determine the default reader differs from the one described in the main documentation:
 - If a default reader was set earlier during the run time of the current process, that reader is used
 - else if an environment variable named CRIREADER exists, its value is used as the name of the default reader
 - else if a registry entry at HKLM\Software\ZeitControl\ZCCRI\Default exists its value is used¹
 - Otherwise or in case the reader specified by one of the methods above does not exist, the first PC/SC reader will be used.

¹ This ensures compatibility with a default reader chosen via the official API.

- ZCCriSelectReaderDialog displays a selection dialog with a GUI.

Deployment

To deploy your application to your users you have to bundle it with libbasiccard.dll and/or libbccrypto.dll depending on which library your application uses. You can also deploy bcsetreader.exe if your application doesn't provide a way to set the default reader. If you linked your application against the official API and you don't want to relink it against the provided import libraries you also need to deploy the corresponding wrapper DLLs.

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Acknowledgments

Additionally to the acknowledgments in the main documentation I also want to thank Vincent Richomme for providing an import library and some header files used in the Microsoft Windows version of libbasiccard.

Contact

If you want to send bug-reports and feedback concerning libbasiccard, you can contact me via e-mail: czietz@gmx.net. For general questions about the BasicCard that have nothing to do with this implementation please write to ZeitControl or use their web based discussion board (<http://www.basiccard.com/>)