

External Libraries used by NMM

Motama GmbH, Saarbruecken, Germany
(<http://www.motama.com>)

April 2010

Copyright (C) 2005-2010
Motama GmbH, Saarbruecken, Germany
<http://www.motama.com>

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with the Invariant Sections being all sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license can be found in the file COPYING.FDL.

THE DOCUMENT IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE DOCUMENT BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE DOCUMENT OR THE USE OR OTHER DEALINGS IN THE DOCUMENT.

This document lists all external libraries used by NMM. It also provides information on how to obtain and build these libraries for all platforms.

1. Precompiled External Libraries

Packages with precompiled binaries of most libraries are available for some platforms. We recommend using these packages because NMM is likely to work best with the provided versions of these libraries.

Table 1. Precompiled external library packages

Linux	(to be installed as part of used operating system)
Mac OS X	(to be installed as part of used operating system)
Windows	(installed automatically with NMM)

2. Used Libraries

The following external libraries are provided as precompiled binaries and source packages with NMM:

Table 2. External libraries

Name	Description
libxml2	XML parser
libiconv	Library required by libxml2
libltdl	Dynamic library support
getopt	getopt() implementation for Windows
threads-win32	POSIX threads implementation for Windows
zlib	Library required by libxml2
ntp	NMM on Windows uses parts of the ntp package
loki	The NMM Singleton class is based on ideas and source code of The Loki Library

For each external library, the following information is given:

Table 3. Information about an External Library

Name	The original package name of the library
Description	A brief description of the library
Version	The version of the library which works with NMM. NMM may or may not be compatible with newer versions of the library. If a custom version of the library is required, then this is indicated here.
Homepage	The official project homepage of the external library

Source	Name of the package which contains the full source code of the external library as well as build files required for building the library on all supported platforms. The package is either an original source package of the library or a customized source package which is based on an original source package.
Binary	List of platforms for which precompiled binaries of the library are provided.
Licence	The type of licence under which the external library is available. For custom licences (i.e. licences other than the well-known GNU licences), the full licence text is provided in this documentation.
Build Instructions	Instructions for building the library from provided sources and build files the on all platforms

2.1. libxml2

Table 4. libxml2

Name	libxml2
Description	XML parser
Version	2.4.23
Homepage	http://xmlsoft.org/
Source	tar.gz (../..../download/libxml2-2.4.23.tar.gz)
Binary	Windows

Licence:

Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which are covered by a similar licence but with different Copyright notices) all the files are:

Copyright (C) 1998–2003 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Daniel Veillard shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.

Build Instructions:

```
tar xzf libxml2-2.4.23.tar.gz
cd libxml2-2.4.23
./configure --enable-shared --disable-static
make
make install
```

2.2. libiconv

Table 5. libiconv

Name	libiconv
Description	Library required by libxml2
Version	1.11
Homepage	http://www.gnu.org/software/libiconv/
Source	tar.gz (../..../download/libiconv-1.11.tar.gz)
Binary	Windows
Licence	GNU LIBRARY GENERAL PUBLIC LICENSE Version 2

Build Instructions:

```
tar xzf libiconv-1.11.tar.gz
```

```
cd libiconv-1.11
./configure --enable-shared --disable-static
make
make install
```

2.3. getopt

Table 6. getopt

Name	libc
Description	getopt() implementation for Windows, taken from the GNU C library and compiled as an independent library
Version	?, with custom extensions by Motama GmbH
Homepage	http://www.gnu.org/software/libc/
Source	zip (../..../download/getopt.zip)
Binary	Windows
Licence	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1

Build Instructions (Windows):

- Unpack the file `getopt.zip`. It will create a directory named `getopt`.
- Open the file `getopt/getopt.sln` in Microsoft Visual Studio 2005.
- Select `Release` in the configuration selector and choose "Build Solution" from the "Build" menu. This will create optimized versions of `getopt.dll` and `getopt.lib` in the directory `getopt/Release`.
- Select `WinXP_Debug` in the configuration selector and choose "Build Solution" from the "Build" menu. This will create optimized versions of `getopt.dll` and `getopt.lib`, which link against the debug versions of the runtime libraries, in the directory `getopt/WinXP_Debug`.
- Copy all LIB, DLL and header files to the location where the NMM project files expect them to be.

2.4. pthreads-win32

Table 7. pthreads-win32

Name	pthreads-win32
Description	POSIX threads implementation for Windows

Version	?, with build files provided by Motama GmbH
Homepage	http://sourceware.org/threads-win32/
Source	zip (.../download/threads_2005_03_08.zip)
Binary	Windows
Licence	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1

Build Instructions (Windows):

- Unpack the file `threads_2005_03_08.zip`. It will create a directory named `threads_2005_03_08`.
- Open the file `threads_2005_03_08/thread.sln` in Microsoft Visual Studio 2005.
- Select `Release` in the configuration selector and choose "Build Solution" from the "Build" menu. This will create optimized versions of `pthreadVC.dll` and `pthreadVC.lib` in the directory `threads_2005_03_08`.
- Select `WinXP_Debug` in the configuration selector and choose "Build Solution" from the "Build" menu. This will create optimized versions of `pthreadVC.dll` and `pthreadVC.lib`, which link against the debug versions of the runtime libraries, in the directory `threads_2005_03_08`.
- Copy all LIB, DLL and header files to the location where the NMM project files expect them to be. Rename `pthreadVC.lib` and `pthreadVC.dll` to `pthreadVC2.lib` and `pthreadVC2.dll` respectively.

2.5. zlib

Table 8. zlib

Name	zlib
Description	Library required by libxml2
Version	1.2.3
Homepage	http://www.zlib.net/
Source	tar.gz (.../download/zlib-1.2.3.tar.gz)
Binary	Windows

Licence:

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005
```

```
Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler
```

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly jloup@gzip.org
Mark Adler madler@alumni.caltech.edu

*/

Build Instructions:

```
tar xzf zlib-1.2.3.tar.gz
cd zlib-1.2.3
./configure --enable-shared --disable-static
make
make install
```

2.6. ntp

Table 9. ogmtools

Name	ntp
Description	NMM on Windows uses parts of the ntp package
Version	unkown
Homepage	http://www.ntp.org
Source	undisclosed
Binary	Part of the Windows binary release

Licence:

```
*****
*
* Copyright (c) David L. Mills 1992-2009
*
* Permission to use, copy, modify, and distribute this software and
* its documentation for any purpose with or without fee is hereby
* granted, provided that the above copyright notice appears in all
* copies and that both the copyright notice and this permission
* notice appear in supporting documentation, and that the name
* University of Delaware not be used in advertising or publicity
* pertaining to distribution of the software without specific,
* written prior permission. The University of Delaware makes no
* representations about the suitability this software for any
* purpose. It is provided "as is" without express or implied
* warranty.
*
*****
```

2.7. The Loki Library

Table 10. The Loki Library

Name	The Loki Library
Description	The NMM Singleton class is based on ideas and source code of The Loki Library
Version	unkown
Homepage	http://loki-lib.sourceforge.net/
Source	nmm/utills/Singleton.hpp
Binary	Part nmm_utils.so and nmm_utils.dll

Licence:

```
////////////////////////////////////
// The Loki Library
// Copyright (c) 2001 by Andrei Alexandrescu
// This code accompanies the book:
// Alexandrescu, Andrei. "Modern C++ Design: Generic Programming and Design
// Patterns Applied". Copyright (c) 2001. Addison-Wesley.
// Permission to use, copy, modify, distribute and sell this software for any
// purpose is hereby granted without fee, provided that the above copyright
// notice appear in all copies and that both that copyright notice and this
// permission notice appear in supporting documentation.
// The author or Addison-Welsey Longman make no representations about the
// suitability of this software for any purpose. It is provided "as is"
// without express or implied warranty.
```


////////////////////////////////////