



Non-Commercial Software Disclosures

For FlexNet Publisher 2022 (11.19.1)

June 2022

Introduction

The document section lists FlexNet Publisher's use of all non-commercial software (NCS) that meets these criteria:

- The product needs the NCS in order to operate
- The NCS is not included with the runtime environment supported by the product; and
- The NCS was written by someone other than a Revenera employee or paid contractor

Non-commercial software (NCS) can be either open source software (OSS) or no-cost closed source software.

Summary of FlexNet Publisher Components that Use Non-Commercial Software

Production processes

| Component | Description | Distribution type | Notes |
|---|--|--|--|
| ladmin | License server manager | On-premises: Enterprise | Not available on HP-UX and FreeBSD |
| lmgrd | Legacy license server manager | On-premises: Enterprise | |
| vendor daemon | License server | On-premises: Enterprise | Producer builds their own vendor daemon |
| lmutil (and variations) | General licensing utility | On-premises: Enterprise | |
| VCG | Backoffice component, used in generating certificate licenses | Hybrid: Producer backoffice or backoffice hosted by Revenera | |
| FlexNet Licensing Service (FNPLicensingService) | Component that performs certain system-level operations, such as reading hard disk serial number, extracting virtualization attributes, or writing to anchors. | On-premises: Enterprise or consumer | Required on Windows, Linux and OS X platforms for most FNP deployments. On Windows, extracted from FNP_Act_Installer.dll |
| Client application | Producer's application – typically checks out licenses to use application features. | On-premises: Enterprise or consumer | lmflex is an example client application provided in the kit |
| Activation application | Producer's activation application, used to maintain license fulfillments in trusted storage. | On-premises: Enterprise or consumer | Examples provided in the kit include appactutil, serveractutil, appcomptranutil, servercomptranutil |

Non-production processes

Distribution type for all of these processes is: On-premises: Producer's licensing development team

| Component | Description | Platform notes |
|-----------|--|---|
| preptool | Prepping utility. Used by producers to link the activation library (libFNP) with client and activation applications. | All trusted storage (TS) platforms ¹ |
| lmstrip | Tool used by producers to obfuscate FNP symbols | |
| tcencrypt | Tool used to encrypt a producer's trusted configuration | All TS platforms |
| xmlsign | Signs various xml artifacts with publisher keys | All TS platforms |
| tsreset | Tool used in testing to reset or delete trusted storage | All TS platforms |

Production libraries

| Name | Description | Static/Dynamic library | Distribution type | Licensing processes or products that link/load this library |
|--------------------------|---|---------------------------|--|--|
| liblmgr (and variations) | Original lmflex library | Either, default is static | On-premises: Enterprise or consumer | lmgrd, lmutil, vendor daemon, producer client applications, producer activation applications, VCG |
| libFNP | Activation library. Required for performing activation transactions, accessing TS, and implementing secure data types (SDTs). Extracted from preparchive_11.19.1.yaa using preptool. | dynamic | On-premises: Enterprise or consumer | Producer's activation applications. Producer's clients and vendor daemons that use trusted storage. Producer's clients that implement SDTs. |
| FNPCommsSoap | Activation comms library | dynamic | On-premises: Enterprise or consumer | Producer's activation applications |
| responsegen | Backoffice component used for processing activation transactions | dynamic | Hybrid: Producer backoffice or backoffice hosted by Reverera | FlexNet Operations FlexNet Operations Cloud Producer's custom back office. |
| FNP_Act_Installer | Provides MSI-compatible interface for installing the Windows FlexNet Licensing Service | dynamic | On-premises: Enterprise or consumer | <i>Example</i> utilities installanchorservice.exe and uninstallanchorservice.exe. Producer's Windows installer |

¹ HP-UX and FreeBSD are certificate-only (non-TS platforms)

Non Commercial Software Used in FlexNet Publisher Components

Notes

- None of the licenses referenced below require that a separate copy of the NCS source be made available, whether or not it was modified by Revenera.
- *FNP-Licensing-11.19.1-NCSD License Texts.pdf* contains separate copies of generic license texts. Non-standard licenses and permissions are quoted in the Appendices of this document

| NCS Name | NCS Version | NCS Type | Web link | License text | Revenera and Customer distributions | Linkage | Library | How recipient can use their copy | Modified? | FNP component | FNP platform |
|---------------------------------|-------------|-------------------------------|---|---|--------------------------------------|---------|---------------------------------------|--|------------------|--|------------------------------|
| Pthreads4w | 3.0.0 | source code | https://sourceforge.net/projects/pthreads4w/ | https://www.apache.org/licenses/LICENSE-2.0 | As compiled code, always distributed | static | libpthread.lib | Recipient must use copy distributed with product | No | liblmgr | Windows |
| OpenSSL | 1.1.1n | source code | https://www.openssl.org/ | https://www.openssl.org/source/license.txt | As compiled code, always distributed | static | libcrypto.a, libssl.a | Recipient must use copy distributed with product | No | FnpCommsSoap | All non-Windows TS platforms |
| libexpat | 2.4.1 | source code | https://libexpat.github.io/ | https://github.com/libexpat/libexpat/blob/release-2.4.1/expat/COPYING | As compiled code, always distributed | static | libexpat.a, libexpat.lib | Recipient must use copy distributed with product | No | libFNP | All TS platforms |
| VM Back ² | 060510 | source code | https://sites.google.com/site/chitchatvmback/vmtools#vmw | https://opensource.org/licenses/MIT | As compiled code, always distributed | static | Compiled directly into FNP components | Recipient must use copy distributed with product | Yes | libFNP liblmgr FlexNet Licensing Service | Windows Linux |
| Boost | 1.56.0 | source code | http://www.boost.org/ | http://www.boost.org/LICENSE_1_0.txt | As compiled code, always distributed | static | libBoost.a, libBoost.lib | Recipient must use copy distributed with product | Yes ³ | libFNP FNPCommsSoap xmlsign tcencrypt preptool tsreset responsegen | All TS platforms |
| Generative Programming Examples | N/A | source code examples | http://www.amazon.com/Generative-Programming-Methods-Tools-Applications/dp/0201309777 | Appendix B: Generative Programming Permission Email | As compiled code, always distributed | static | Compiled directly into FNP components | Recipient must use copy distributed with product | Yes | libFNP FNPCommsSoap xmlsign tcencrypt preptool tsreset responsegen | All TS platforms |
| libElf | 0.8.13 | source code and shared object | http://freecode.com/projects/libelf | http://www.gnu.org/licenses/old-licenses/lgpl-2.0.en.html | As compiled code, always distributed | dynamic | libelf.so.0 | Recipient must use copy distributed with product | No | lmstrip | Linux HP-UX |

² VM Back is a VMware hypervisor detection technique – a secondary technique used by FlexNet Publisher adapted in internal cmn_vm_vmware*.c source files.

³ Added operations_posix_windows_fnp.cpp, which is derived from and replaces the original operations_posix_windows.cpp file. The edit corrects various faulty platform-specific directory operations - in particular, on Solaris and AIX.

| | | | | | | | | | | | |
|----------------------|--|-------------|---|--|--------------------------------------|--------|-------------------------|--|----|--|------------------|
| Crypto++ | 8.6 | source code | https://www.cryptopp.com/ | https://www.cryptopp.com/License.txt | As compiled code, always distributed | static | libcryptopp.a/lib | Recipient must use copy distributed with product | No | libFNP responsegen tcencrypt FlexNet Licensing Service | All TS platforms |
| GCC Run Time Library | 5.5.0 4.8.5 4.4.3 4.2.1 4.0.4 3.4.4 | source code | https://gcc.gnu.org/ | http://www.gnu.org/licenses/old-licenses/gpl-2.0.en.html GPL v2.0 with special exception, refer Appendix A: GPL v2 special exception for GCC | As compiled code, always distributed | static | libstdc++.a libgcc.a | Recipient must use copy distributed with product | No | liblmg libFNP FNPCOMMSOAP xmlsign tcencrypt preptool tsreset responsegen FlexNet Licensing Service | All non-Windows |

Version Break-up by Platform

This section shows the version break-up by the platform for the following NCS:

- [GCC Runtime Library Version](#)

GCC Runtime Library Version

| Platform | Architecture | GCC Version |
|------------------------|-----------------------------|--|
| i86_lsb | 32bit | 4.8.5 |
| x64_lsb | 64bit | 4.8.5 |
| it64_hp11i | 64bit | 3.4.4 |
| arm64_linux | 64bit | 4.8.5 |
| i86_f8 | 32bit | 4.0.4 |
| x64_f8 | 64bit | 4.2.1 |
| x64_sun10 | 64bit | 5.5.0 |
| x86_sol10 | 32bit | 5.5.0 |
| universal_mac10 | Universal (32bit and 64bit) | GCC NA (but Apple LLVM version 6.0 is used) |
| x64_mac10 | 64bit | GCC NA (but Apple LLVM version 10.0.1 is used) |
| sun4_u10 | sparc 32 | 5.5.0 |
| sun64_u10 | sparc 64 | 5.5.0 |
| ppc_u5 | 32bit | 4.4.3 |
| rs64_u5 | 64bit | 4.4.3 |

Appendices

Appendix A: GPL v2 special exception for GCC

The following text appears in every header file and source code file used to build versions 3.4.4, 4.0.4 and 4.2.4 of the libstdc++ and libgcc libraries that FlexNet Publisher links with:

```
// This file is part of the GNU ISO C++ Library. This library is free
// software; you can redistribute it and/or modify it under the
// terms of the GNU General Public License as published by the
// Free Software Foundation; either version 2, or (at your option)
// any later version.
```

```
// This library is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
// GNU General Public License for more details.
```

```
// You should have received a copy of the GNU General Public License along
// with this library; see the file COPYING. If not, write to the Free
// Software Foundation, 59 Temple Place - Suite 330, Boston, MA 02111-1307,
// USA.
```

```
// As a special exception, you may use this file as part of a free software
// library without restriction. Specifically, if other files instantiate
// templates or use macros or inline functions from this file, or you compile
// this file and link it with other files to produce an executable, this
// file does not by itself cause the resulting executable to be covered by
// the GNU General Public License. This exception does not however
// invalidate any other reasons why the executable file might be covered by
// the GNU General Public License.
```

Appendix B: Generative Programming Permission Email

To: u.eisenecker@freenet.de ; czarnecki@acm.org
Sent: Monday, September 01, 2003 6:27 PM
Subject: RE: Request for use of code

Hello Krzysztof and Ulrich,

Thanks for your prompt reply (sorry I didn't get back to you sooner, as I was away from the office last week). We have included the following header comment section (that came with the original files) in the file containing your code.

```
/*  
*****/  
/*  
/* Generative Matrix Package - File "IF.h" */  
/*  
/*  
/* Category: Helper classes */  
/*  
/* Meta-Functions: */  
/* - IF */  
/*  
/*  
/* IF provides an if-then-else metafunction which works with VC++5.0. Some */  
/* additional classes are needed to work around some compiler problems. */  
/*  
/*  
/* (c) 1998 */  
/* Krzysztof Czarnecki */  
/* Ulrich Eisenecker */  
/* Tobias Neubert */  
/*  
*****/  
*/
```

Please let me know if you are happy with this or would like any further text added before we send this out.

Thanks for your help (and very useful code).

-----Original Message-----

To: Martin Gray
From: Ulrich Eisenecker [mailto:u.eisenecker@freenet.de]
Sent: 25 August 2003 19:49
Cc: Prof. Dr.-Ing. Krzysztof Czarnecki
Subject: Re: Request for use of code

Dear Martin,

thank you for your inquiry. We agree that you use the requested template-metaprogramming functions for commercial purpose. Please include a short notice in the source files which identifies Krzysztof Czarnecki and Ulrich W. Eisenecker as authors. Please notice that we are not responsible for using the requested template-metaprogramming functions, any damage or loss which results from their use, and that we are not liable with any other respect of their use.

Best wishes,

Krzysztof & Ulrich

----- Original Message -----

From: Martin Gray
To: eisenecker@informatik.fh-kl.de
Sent: Thursday, August 21, 2003 5:42 PM
Subject: Request for use of code

Hi there,

My question is regarding commercial use of the code you published on your website:

<http://www-ia.tu-ilmenau.de/~czarn/gmcl/download.html#source>

After reading your book on Generative Programming I have started to apply some of the techniques you described in my work. I have developed a template library and my company would like to deliver this template library as part of one of our products.

My template library currently makes use of the following files from your published code

IF.h
SWITCH.h

Can you let me know if there are any restrictions to using your code – do you allow it to be included it in the distribution of a commercial product in this way.

Kind regards,
Martin Gray

Appendix C: License Change from Apache License v2.0 for Pthreads4w

License Change

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With the agreement of all substantial relevant contributors Pthreads4w version 3, with the exception of four files, is being released under the terms of the Apache License v2.0. The APLv2 is compatible with the GPLv3 and LGPLv3 licenses and therefore this code may continue to be legally included within GPLv3 and LGPLv3 projects.

A substantial relevant contributor was defined as one who has contributed original code that implements a capability present in the releases going forward. This excludes several contributors who have contributed code that has been obsoleted, or have provided patches that fix bugs, reorganise code for aesthetic or practical purposes, or improve build processes. This distinction was necessary in order to move forward in the likelihood that not all contributors would be contactable. All contributors are listed in the file CONTRIBUTORS.

The four files that will remain LGPL but change to v3 are files used to configure the GNU environment builds:

```
aclocal.m4
configure.ac
GNUmakefile.in
tests/GNUmakefile.in
```

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The FlexNet Publisher development team has confirmed that the four files named above will NOT be used or distributed in their product.