Non-Commercial Software Disclosures

For FlexNet Publisher 2020 (11.17.2)

November 2020

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
lmadmin	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_11.17.2.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 Revenera	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	*Example* 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-11.17.2-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
OpenSSL	1.1.0k	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	2.2.9	source code	https://libexpat.github.io/	https://github.com/libexpat/libexpat/blob/release-2-2-9/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
Crypto++	5.4	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	All TS platforms

[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.

										tcencrypt FlexNet Licensing Service	
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	liblmgr libFNP FNPCommsSoap xmlsign tcencrypt preptool tsreset responsegen FlexNet Licensing Service	All non-Windows

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 Krzystof 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,

Krzystof & 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