

LCU - Licensing Release Note v20.01-s002 - 05-10-2021

Summary of Changes in release v20.01-s002 (Windows Only)

- The license server, cdslmd and utilities are based on FLEXnet v11.17.1.0
- AWR daemon (awrd) is added to Cadence License Manager installer
- awrd is based on FLEXnet v11.15.1.0
- No other changes compared to v20.01-p001 LCU release

Compatibility

This release is based on FLEXnet v11.17.1.0.

There are no license file format changes and the updated license server is compatible with older Cadence releases.

Supported Platforms

Windows
Windows 10
Windows Server 2012
Windows Server 2016
Windows Server 2019

All platforms are for 64b only unless specified otherwise.

Licensing (Utilities and Daemons)

Cadence products are controlled using the FLEXlm licensing system. The licensing system determines which products are available and distributes licenses on a first-come, first-served basis until all licenses for a given product are in use. Licensing is normally transparent to the person using the Cadence application.

The LCU release contains the currently supported release of our FLEXlm based licensing tools. More information about the licensing tools is available in the Cadence License Manager manual, which can be accessed using the Cadence Documentation system.

Licensing Daemons

In addition to the standard Cadence license daemon (cdslmd), the LCU release also contains the following additional licensing daemons:

- alta
- altosda
- ambitd
- **awrd (added in this release, based on FLEXnet v11.15.1.0)**
- axislmd
- cadmosd
- cshape
- dailmd
- dsmtlmd
- g2c_d
- hlds
- k2techld
- NEOLINLD
- platod
- qtdaemon
- qtred
- simplexlmd
- spdaemon
- speedd
- verisityd
- verplex
- chrond
- xtensad
- sigrity
- tempusd

PREVIOUS RELEASE CHANGES

Summary of Changes in release v20.01-p001 (Windows Only)

*** 12/23/2020 *** (Version: 20.01-p001 - Windows Only) ***

- **The license server, cdsImd and utilities are based on FLEXnet v11.17.1.0**
- Cloud support for Windows was added
- DiagnosticServerDiagnostic.exe was removed from the release
- ImCheckExpiration.exe was removed from the release
- MAX_CONNECTIONS option - FlexNet have an issue with this option file. Cadence recommends not using this option
- Cadence recommends removing previous versions before installing this new version of the License server
- Imutil Imstat - this utility fails to get status of older servers if LM_PROJECT is used
- awrd daemon is located in AWR License Manager (not part of the Cadence License Manager installer)

*** 08/27/2019 *** (Version: 12.08-s005 - Windows Only) ***

- **The license server, cdsImd and utilities are based on FLEXnet v11.14.1.0**
 - Installer executable version modified to follow the Windows standard
 - License server binaries have not changed
1. Silent Install of Cadence License manager
 2. Ability to run Cadence License Server Configuration in Batch Mode
 - Required server configuration data is passed as command-line parameters to the utility
 - Supported parameters and exit codes and their description can be found in the Batch Mode Specification
 3. Support for dongle-10
 4. Add AWR License Manager flexIm binary

*** 07/31/2018 *** (Version: 12.08-s001 - Windows Only) ***

- **This release is based on FlexNet 11.14.1.0**
- Installer executable version modified to follow the Windows standard
- Is_flexid9_hasp4_support flag set to 1 (support of older HASP4 dongles)

*** 03/03/2017 *** (Version: 12.08-p001 - Windows Only) ***

- **This release is based on FlexNet 11.14.1.0**
- **Security Updates from Flexera**
- **xtensad - fixed to work with Tensilica-generated license file**
Previous version of xtensad may fail when some old license files generated by Tensilica were used. This was fixed to make the daemon work with both Tensilica-generated license as well as Cadence-generated licenses.
- **The FLEXID9 dongle drivers have been upgraded to the latest version 7.50**
- **Imgrd behavior if port number is greater 65535**
Previously, Imgrd would start when a port number > 65535 was specified on the SERVER line of the license file. Now, Imgrd exits with an "out of valid port range" server log message (FNP-14795).
- **Lmtools display of system information (Windows Only)**
Lmtools now displays (on the System Settings tab) both IPv4 and IPv6 addresses, if available (FNP-14234). The CPUID and disk volume serial number are no longer displayed, because they now have no licensing value (FNP-14425).
- **License server Windows service paths may now contain spaces (Windows Only)**
Previously, when the license server was installed as a Windows service, the service path was not quoted. This meant that service paths containing spaces would not install correctly.
- **Slower checkout due to multiple DNS lookups**
Some scenarios where multiple DNS lookups were inappropriately occurring, have been optimized (FNP-10340).
- **Imgrd license server as a Windows service failed to start (Windows Only)**
In FlexNet Publisher 2015 (11.13.1), a change was made to run Windows license server services with LocalService privilege instead of LocalSystem privilege, following the least-privilege security best practice. One inappropriate consequence is that a Imgrd Windows service, as installed by installs.exe or lmtools.exe, may not start. This is because a LocalService service does not by default have sufficient privilege to write the server debug log to (a subdirectory of) Windows Program Files or Users directories.
Flexera therefore recommends following Windows best-practice for writing application data by specifying debug log and report log locations within a subfolder of %SystemDrive%\ProgramData\. LocalService services do by default have sufficient privilege to write to ProgramData (sub) directories (FNP-11460).

*** 03/12/2016 *** (Version: 12.07-s001 - Windows Only) ***

- **This release is based on FlexNet 11.13.1.3**
- CCMPR01590923 - the required dongle DLL for 32b and 64b were not copied in the correct location in the System32 folder. This is corrected in this hotfix.
- CCMPR01577213 - the license configure tool requires VC++ 2005 redistributable which when not installed causes a "side-by-side error". The redistributable is now installed by the installer.
- CCMPR01577237 - when dongle is installed, most of the time the server service does not start until after the installation and the service is re-started. We added a note in the license configuration tool to guide users for this scenario. We also made changes to the license configure tool such this scenario does not happen as often.

*** 03/12/2016 *** (Version: 12.07-p001) ***

- **This release is based on FlexNet 11.13.1.3**
- **Delay when starting license server as a service**
Previously, when using lmtools or installs to install Imgrd as a service, or Imadmin -installService, an inappropriate dependency on the WMI Performance adapter service (wmiApSrv) was created. This dependency occasionally resulted in startup delays of the license server service. The wmiApSrv dependency has now been removed (FNP-11535).
- **Flexera have unsupported RHEL5.**
License server still works on RHEL5 but any issues needs to be reproduced in RHEL6 first before Flexera accepts the issue.

*** 02/12/2016 *** (Version: 12.06-p001) ***

- This release is based on FlexNet 11.13.1.2 which includes a fix for a security vulnerability [CVE-2015-8277](#). For more information, see **Cadence License Server - Security Vulnerability Info** section below.
- Sun Sparc Solaris is no longer supported - previous version (v12.05-xxx) is the last supported release on Sun Sparc Solaris.
- vendor daemon *atcad* is no longer supported. This vendor daemon was only supported under Sun Sparc Solaris which has been EOL'ed.

*** 09/15/2015 (Version: 2015-09-15) ***

- This release fixes an issue with the sigrity vendor daemon which doesn't handle some sigrity licenses properly.

*** 08/28/2015 (Version: 2015-08-25) ***

- IPv6 support
IPv6 IP addresses are now supported by the license server. The license server will default to using IPv6 addresses if the network environment allows it. Due to this change, any filters or options that uses IP address needs to be reviewed to make sure that the correct IP address is specified.

Note: As of this writing, client applications still does not support IPv6 so IPv6 is still not fully supported.

- Multiple dongle support for Windows 64-bit
this enhancement was added (requires update of the dongle driver included in this release).
- CCMPR01230864
dongle is not recognized by the server after 23 days, causes the license server to go down. Issue has been fixed (requires update of the dongle driver included in this release).
- License Server Memory Issues
Previously, a cumulative memory leak on license server may occur in the Vendor Daemon after each checkout request from a client. This issue is now resolved. (FNP-9805 and FNP-5728)
- Redundant-Server issue with lmdown
Previous versions of lmdown brings down all three servers. The new version of lmdown allows bringing down one of the 3 servers for maintenance. Usage are:
 - a. lmdown -q -c <3-server licensefile> will continue to display a prompt asking which node to shut down.
 - b. lmdown -q -all -c <3-server licensefile> will shut down all nodes without displaying a prompt.

(FNP-10655)

- Cadence now provides a License Server diagnostic utility (Windows only).
See "Cadence License Server Diagnostic Utility" section of the Cadence License Manager document for more details.
- CCMPR01451065
License servers goes down when the system runs out of file descriptors. A fix was added by Flexera such that the server stays up and resumes normal operation once file descriptors becomes available.
- Increased connections in lmgrd (Windows Only)
In prior releases, Windows lmgrd does not respond to FlexNet utilities or clients when more than 62 simultaneous connections were established. To increase the number of simultaneous connections, the file descriptor limit in lmgrd is increased to 1K for Windows only (FNP-9384)
- lmtools can now manage both 32-bit and 64-bit licensing services on 64-bit Windows
Previously, only the 32-bit lmtools could administer 32-bit services. Similarly, only the 64-bit lmtools could administer 64-bit services. Now each bitwidth lmtools can manage both bitwidth licensing services on 64-bit Windows. (FNP-8420)

*** 09/10/2014 (Version: 2014-09-10) ***

- tempusd (Jasper) vendor daemon available for all platforms
- sol86 64-bit binaries: FLEXnet version upgraded from 11.10.0.0 to 11.11.1.0
- chrand vendor daemon available in all platforms
- CCMPR01318812: cdsimd (Linux and Windows) - fix to be able to process alternate licenses properly.

*** 07/10/2014 (Version: 2014-07-10) ***

- The Virtual Machine Notification has been changed on Linux and Windows.
No impact to the License server functionality or license file.
- xtensa(Tesilica), sigrity (Sigrity) and chrand(Forte) vendor daemons are included on all platforms except Solaris x86.

*** 12/04/2013 (Version: 2013-12-04) ***

This changes are for Linux and Windows only.

The license server, cdsimd and utilities are based on FLEX v11.11.1.1

Fix for the following CCR:

- CCMPR01220248 - cdsimd errors out when licenses from different VARs were combined. Fix was made to allow this as it is our policy to allow licenses of different VARs to be combined.
- Windows only - removed support for XP as advised by Flexera.

*** 11/04/2013 (Version: 2013-11-04) ***

This changes are for Linux and Windows only

The license server, cdslmd and utilities are based on FLEX v11.11.1.1

Windows (12.03-P001):

- Updated to use FLEXnet version 11.11.1.1
- Windows Server 2003 no longer supported

Linux (12.03-s001):

- RHEL4 no longer supported as some tools are not compatible

CCRS Fixed:

- CCMPR01109068 - install configure in Windows needs to add quotes when it edits the license file to accommodate installation path that has spaces
- CCMPR01182692 - MFP/cdslmd crashes on some VPN/network configuration
- CCMPR01210558 - Update mfp utility and cdslmd to retrieve domain information using getaddrinfo for a more dependable information

*** 05/30/2013 (Version: 2013-05-30) ***

The license server, cdslmd and utilities are based on FLEX v11.11.1.1

The following changes are applicable to all platforms except Solaris x86 64bit which is based on FLEXnet 11.10.0.0

- Cadence License Server will now automatically enable licenses that start in future when the date occurs.
- Added support for new Ethernet device names on Linux
- Fix for Imreread to give licenses to queued release when more licenses are added to the license file and Imreread is invoked.