

# Logs

LM-X includes the following logs.

Log	Description
License server log	<p>This log lists server actions that are helpful for debugging. You can configure this log for normal or extended detail, as well as set rotation intervals, name and path, in the <a href="#">license server configuration file</a>.</p> <p>Example of normal license server log:</p> <pre>[2010-10-07 10:53:46] LM-X License Server v3.6 build 7504 on Konradm-PC (Win32_x86) [2010-10-07 10:53:46] Copyright (C) 2002-2010 X-Formation. All rights reserved. [2010-10-07 10:53:46] Website: http://www.lm-x.com http://www.x-formation.com [2010-10-07 10:53:46] License server has pid 4676. [2010-10-07 10:53:46] Serving licenses for vendor XFORMATION. [2010-10-07 10:53:46] [2010-10-07 10:53:46] License server using TCP IPv4 port 6200. [2010-10-07 10:53:46] License server using TCP IPv6 port 6200. [2010-10-07 10:53:46] License server using UDP IPv4 port 6200. [2010-10-07 10:53:47] Reading licenses... [2010-10-07 10:53:47] License file(s): [2010-10-07 10:53:47] C:\x-formation\lm-x\win32_x86_vc2008\..\..\..\out/ win32_x86/win32_x86/..\examples/network/network.lic [2010-10-07 10:53:48] Log file path: C:\x-formation\lm-x\win32_x86_vc2008\ licserver-accept-examples.log [2010-10-07 10:53:48] Log to stdout: Yes [2010-10-07 10:53:48] Log format: Normal [2010-10-07 10:53:48] Configuration file path: C:\x-formation\lm-x\win32_x86_vc2008\ ..\..\lmx-serv-examples.cfg [2010-10-07 10:53:48] Serving following features:[2010-10-07 10:53:48] f1 (v1.5) (5 license(s)) license type: exclusive [2010-10-07 10:53:48] f2 (v1.0) (5 license(s)) shared on: HOST USER license type: additive [2010-10-07 10:53:48] f2 (v1.0) (10 license(s)) license type: additive [2010-10-07 10:53:48] borrow (v1.0) (1 license(s)) license type: exclusive [2010-10-07 10:53:48] LicensedExampleClass (v1.0) (1 license(s)) license type: exclusive</pre>
Extended client log	<p>This log lists client actions, entirely for diagnostic purposes. This log is disabled by default. You can enable it using the <a href="#">LMX_EXTENDED_LOG</a> environment variable as described in <a href="#">Environment variables</a>.</p> <p>This log will be generated or appended to every time a checkout request occurs.</p> <p>Example:</p> <pre>[2010-10-14 11:49:35] LM-X Extended Client Log [2010-10-14 11:49:36] [2010-10-14 11:49:36] Machine settings: [2010-10-14 11:49:36] Username: pkukielka [2010-10-14 11:49:36] Hostname: SUPPORT2-PC [2010-10-14 11:49:36] Vendor name: XFORMATION [2010-10-14 11:49:36] Working directory: c:\x-formation [2010-10-14 11:49:36] Platform: Win32_x86 [2010-10-14 11:49:36] Version: 6.1 [2010-10-14 11:49:36] Virtual machine: No [2010-10-14 11:49:36] Terminal server session: No [2010-10-14 11:49:36] [2010-10-14 11:49:36] Environment variables: [2010-10-14 11:49:36] LMX_AUTOMATIC_SERVER_DISCOVERY = &lt;not set&gt; [2010-10-14 11:49:36] LMX_QUEUE = &lt;not set&gt; [2010-10-14 11:49:36] LMX_PROJECT = &lt;not set&gt; [2010-10-14 11:49:36] LMX_BORROW = 1 [2010-10-14 11:49:36] LMX_LICENSE_PATH = &lt;not set&gt; [2010-10-14 11:49:36] LMX_CONNECTION_TIMEOUT = 30</pre>

Imxendutil - licstat output	<p>This report contains license usage statistics, lists which users are currently using which licenses on a specific license server, and gives information on the borrow, grace and trial licenses currently checked out. See <a href="#">LM-X End-user utility</a> for information on generating this report.</p> <p>Example:</p> <pre> LM-X End-user Utility v3.5 Copyright (C) 2002-2010 X-Formation. All rights reserved. Searching all license paths and performing automatic server discovery... ***** LM-X License Server on 6400@192.168.22.103: Server version: v3.6 Uptime: 0 hour(s) 0 min(s) 4 sec(s) ----- Feature: two_licserver Version: 1.0 Vendor: XFORMATION Start date: NONE Expire date: NONE Key type: EXCLUSIVE License sharing: VIRTUAL 10 of 10 license(s) used: 10 license(s) used by hg@vista-x64 [::1] Login time: 2010-10-14 15:37 Checkout time: 2010-10-14 15:37 ***** LM-X License Server on 6200@192.168.22.103: Server version: v3.6 Uptime: 0 hour(s) 0 min(s) 23 sec(s) ----- Feature: f3 Version: 1.5 Vendor: XFORMATION Start date: NONE Expire date: NONE Key type: EXCLUSIVE 0 of 5 license(s) used ----- Feature: f2 Version: 1.0 Vendor: XFORMATION Start date: NONE Expire date: NONE Key type: EXCLUSIVE License sharing: VIRTUAL 0 of 5 license(s) used ----- Feature: grace Version: 1.0 Vendor: XFORMATION Start date: NONE Expire date: NONE Key type: EXCLUSIVE License sharing: VIRTUAL 0 of 5 license(s) used </pre>
Imxendutil - licstatxml output	<p>This report contains license usage statistics and lists currently used licenses on a specific license server as XML. See <a href="#">LM-X End-user utility</a> for information on generating this report.</p> <p>Example:</p> <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;LM-X STAT_VERSION="3.6"&gt; &lt;LICENSE_PATH TYPE="NETWORK" HOST="6200@rafal-PC" SERVER_VERSION="3.6" UPTIME="0 \\hour(s) 0 min(s) 30 sec(s)" STATUS="SUCCESS"&gt; &lt;FEATURE NAME="f1" VERSION="1.5" VENDOR="XFORMATION" END="2018-01-01" \\USED_LICENSES="0" TOTAL_LICENSES="5" SHARE="VIRTUAL"/&gt; &lt;FEATURE NAME="f2" VERSION="1.0" VENDOR="XFORMATION" END="2018-01-01" \\USED_LICENSES="0" TOTAL_LICENSES="5" SHARE="HOST ,USER ,VIRTUAL"/&gt; &lt;FEATURE NAME="f2" VERSION="1.0" VENDOR="XFORMATION" END="2018-01-01" \\USED_LICENSES="0" TOTAL_LICENSES="10" SHARE="VIRTUAL"/&gt; &lt;FEATURE NAME="borrow" VERSION="1.0" VENDOR="XFORMATION" USED_LICENSES="0" \\TOTAL_LICENSES="1" SHARE="VIRTUAL"/&gt; &lt;FEATURE NAME="LicensedExampleClass" VERSION="1.0" VENDOR="XFORMATION" \\USED_LICENSES="0" TOTAL_LICENSES="1" SHARE="VIRTUAL"/&gt; &lt;FEATURE NAME="prod_a" VERSION="1.0" VENDOR="XFORMATION" USED_LICENSES="0" \\TOTAL_LICENSES="5" SHARE="VIRTUAL"/&gt; &lt;FEATURE NAME="prod_b" VERSION="1.0" VENDOR="XFORMATION" USED_LICENSES="0" \\TOTAL_LICENSES="5" SHARE="VIRTUAL"/&gt; </pre>

Pay-per-use database file	<p>This database file lists pay-per-use information that can be sent to your vendor for billing purposes. See <a href="#">Pay Per Use feature</a> for more information.</p> <p>Example:</p> <pre>Timestamp: 2009-01-30 07:37:06 Action: CHECKOUT Comment: FEATURE: TEST_MULTIUSER UNIQUEID: C48E3CC9D201846D8FC3F2C0B22289323D64E026750ECBFE COUNT: 3 Timestamp: 2009-01-30 07:37:06 Action: USAGE Comment: FEATURE: TEST_MULTIUSER UNIQUEID: C48E3CC9D201846D8FC3F2C0B22289323D64E026750ECBFE COUNT: 402 Timestamp: 2009-01-30 07:37:06 Action: CHECKOUT Comment: FEATURE: TEST_MULTIUSER UNIQUEID: C48E3CC9D201846D8FC3F2C0B22289323D64E026750ECBFE COUNT: 3 Timestamp: 2009-01-30 07:37:06 Action: USAGE Comment: FEATURE: TEST_MULTIUSER UNIQUEID: C48E3CC9D201846D8FC3F2C0B22289323D64E026750ECBFE COUNT: 405 Timestamp: 2009-01-30 07:37:06 Action: CHECKIN Comment: FEATURE: TEST_MULTIUSER UNIQUEID: C48E3CC9D201846D8FC3F2C0B22289323D64E026750ECBFE COUNT: 32 Timestamp: 2009-01-30 07:37:06 Action: USAGE Comment: FEATURE: TEST_MULTIUSER UNIQUEID: C48E3CC9D201846D8FC3F2C0B22289323D64E026750ECBFE COUNT: 373</pre>
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