

Application Note



LAM/LM Upgrade to 5.7/2010.09 in Windows (With Latest Components)



This application note will guide you through the process of upgrading your current License Asset Manager with License Monitor component installation to the latest version 5.7 in the Microsoft Windows environment. This newest release of the License Asset Manager includes the latest versions of our backend components, including Apache's Tomcat 7.0.2, MySQL 5.1.49, Java 1.6, and of course our latest release of LAMLM 5.70.

Abstract:

This application note will guide you through the process of upgrading your current License Asset Manager with License Monitor component installation to the latest version 5.7 in the Microsoft Windows environment. This newest release of the License Asset Manager includes the latest versions of our backend components, including Apache's Tomcat 7.0.2, MySQL 5.1.49, Java 1.6, and of course our latest release of LAMLM 5.70.

Why Upgrade to the New Components?

The latest components are the primary determinants in the stability of the LAMLM system; they are the core upon which the system functions. These new releases incorporate many bug fixes, stability enhancements, and performance enhancements that will benefit your continued use of our LAMLM system.

What You Will Need:

- This application notes assume you have functioning installation of the License Asset Manager (LAM) system which includes the License Monitoring (LM) component.

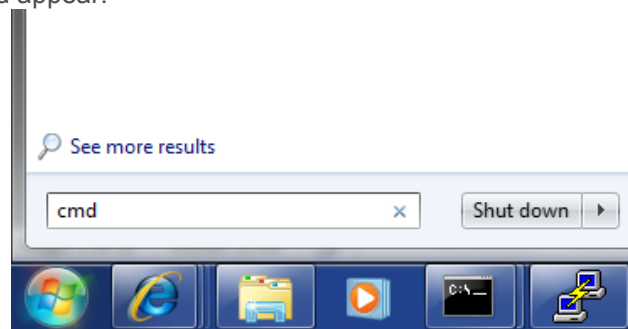
- The new “license.key” file provided to you by Team EDA in an email message. This is necessary as the newly released LM component cannot reuse your current license file.
- You should also have a copy of the latest LAMLM bundle file from the Team EDA downloads site. This was provided to you in an email communication from Team EDA.
- You will also need the basic administrative rights over the system to execute the tasks that are necessary to complete the process. Rights should include creating, modifying, and deleting files/ folders.

Step One:

Backing Up the LAM DB:

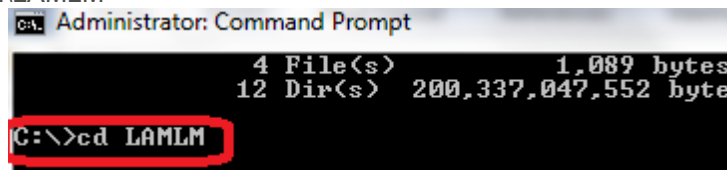
The process of backing up your MySQL Database in Windows is simple. **Follow the steps below, note you must leave the LAMLM system running (i.e. as a service or by the .bat files) but be sure no one is accessing the system!**

1. Click Start and then Run. Type in “cmd” in the box and hit enter. A command prompt window should appear.



(Screenshot of Windows Start -> Run -> “cmd” command)

Type in ‘cd C:\LAMLM’



(Screenshot of CD LAMLM Command)

2. Type in ‘MySQLx.x.xx\bin\mysqldump.exe -ulamuser -plampassword lamdb > LAM_BACKUP.SQL’ from the top level of your LAMLM installation directory. **Note you can insert any path you like in front of “LAM_BACKUP.SQL”**

i.e. "C:\Backup\LAM_BACKUP.SQL" Just be sure to remember the path, and that the directory exists.

```
C:\LMLM>mysql-5.1.49\bin\mysqldump.exe -ulanuser -planpassword lamdb > LAM_BACKUP.SQL
C:\LMLM>
```

(Screenshot of mysqldump.exe Command)

- When complete, you should get the Command prompt back (C:\LMLM >) Run a 'dir' command to ensure the file was created and has a reasonable file size. If you used your own path be sure to 'cd' into it to check that your backup was created.

```
Directory of C:\LMLM
12/14/2010  04:29 PM    <DIR>      .
12/14/2010  04:29 PM    <DIR>      ..
12/07/2010  02:12 PM    <DIR>      apache-tomcat-7.0.2
12/02/2010  01:04 PM    <DIR>      Installers
12/02/2010  01:13 PM           0 lam.log
12/07/2010  02:14 PM    50,683 LAMLM_Install.exe
12/14/2010  04:30 PM  473,384 LAM_BACKUP.SQL
12/07/2010  02:14 PM    <DIR>      mysql-5.1.49
12/07/2010  02:15 PM    <DIR>      rtda
12/07/2010  02:14 PM    1,283 start_lamln.bat
11/30/2010  04:14 PM    182 stop_lamln.bat
```

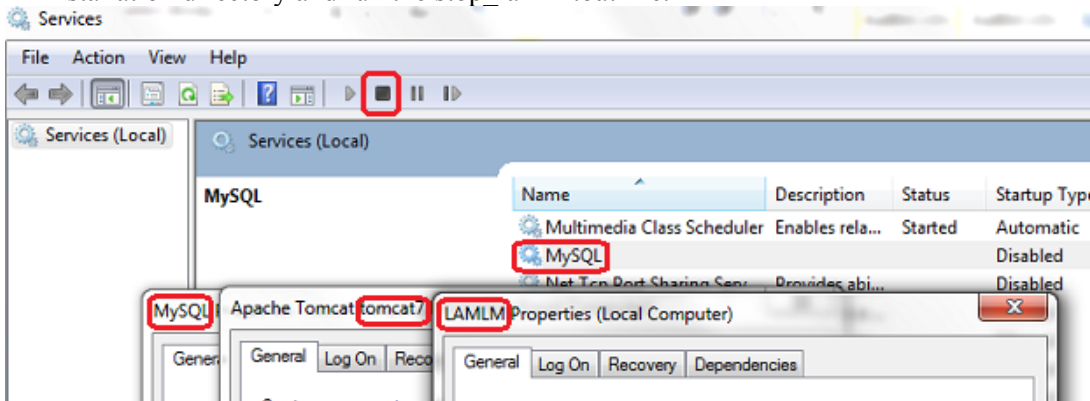
(Screenshot of successfully created SQL Backup File)

*****Important Note: The LAM DB cannot be read or updated when the 'mysqldump' command executes. Automatic locks are placed on the database to prevent possible corruption!*****

Step Two:

Now we will be **stopping** the LAM LM system. To accomplish this either use the stop_lamln.bat file or if you are running through Windows Services you can press the stop icon on the following services "Apache tomcat tomcat7", "mysql", and "LMLM".

To do this type services.msc in a Windows command prompt if you are under services or navigate to your LAMLM installation directory and run the stop_lamln.bat file.



(Screenshot of Stopping Windows Services for LAMLM)

Step Three: *****If not previously using Windows Services Skip this step!*****

Open a command prompt and type the following to remove the old Services; you will need to use the App note dealing with Running under Windows Services to add them back in after we have completed the upgrade.

Type in a command prompt:

“sc delete tomcat7” strike the enter key

“sc delete mysql” strike the enter key

“sc delete LAMLM” strike the enter key

```
C:\LAMOLD>sc delete tomcat7
[SC] DeleteService SUCCESS

C:\LAMOLD>sc delete mysql
[SC] DeleteService SUCCESS

C:\LAMOLD>sc delete LAMLM
[SC] DeleteService SUCCESS

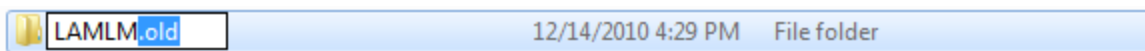
C:\LAMOLD>
```

(Screenshot of Deleting Old Services)

If you would like to use the LAMLM System under Windows Services again after we have completed the upgrade please see, or ask, for the “Running LAM under Windows Services” appnote.

Step Four:

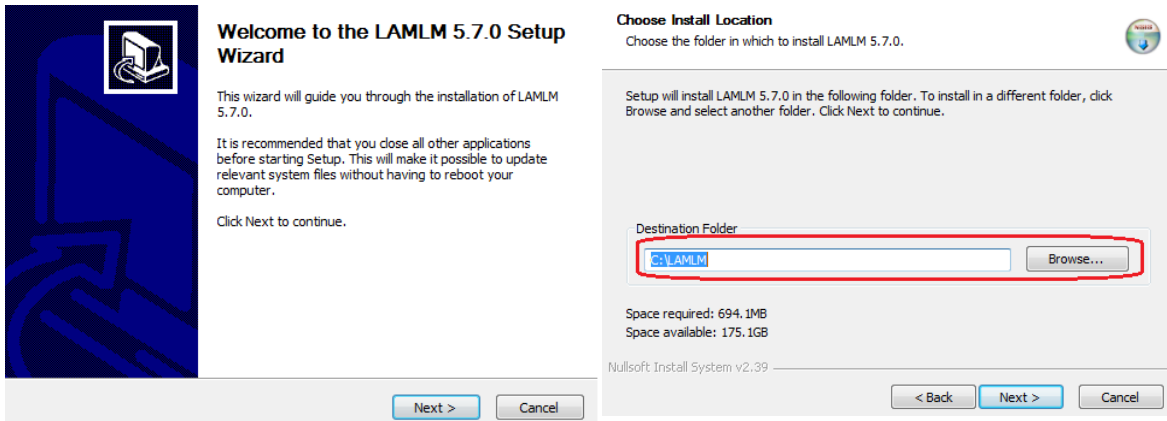
Now we will backup our LAMLM installation folder. We will accomplish this by renaming the current folder to “LAMLM.old” or whatever the name of your installation may be; we will be appending the “.old” extension to preserve this folder. **You will need to close and command prompt windows and close any residual tomcat windows that are open; open handles will prevent a name change to the directory!**



(Screenshot of “.old” appended to current LAMLM Folder)

Step Five:

Next we will run the newly downloaded LAMLM Bundle installer. Feel free to specify the install directory, and logo of your choosing. In most cases you will want to keep the original installation directory name.



(Screenshots of LAMLM 5.70 Setup)

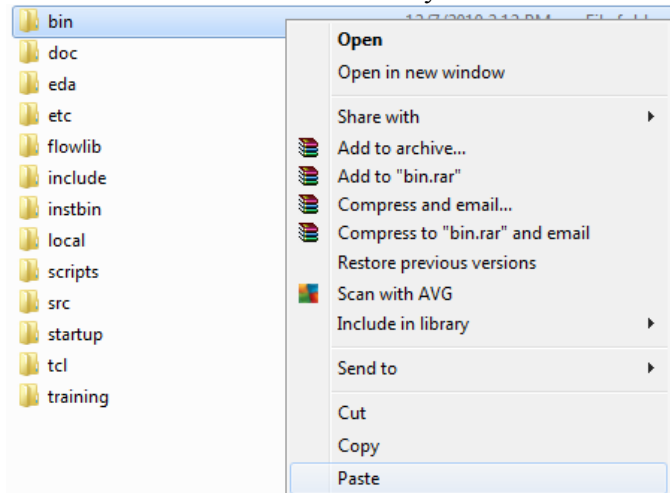
Follow the prompts to complete the installation.

Step Six:

Next we need to extract some files from the LAMLM.old folder that we renamed (your original installation) and place them into your new LAMLM installation directory.

Copy the “lmstat” executable from “C:\LAMLM.old\rtda\xxxx.xx\winNT\bin\” folder to the “C:\LAMLM\rtda\2010.09\winNT\bin\” folder.

Finally copy your new “license.key” file from the TeamEDA email into the new installation “C:\LAMLM\rtda\licmon\licmon.swd\” directory.



(Screenshot of File Copying)

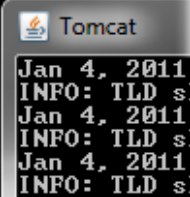
Step Seven:

Navigate to the directory containing the new LAMLM using the command prompt and run “start_lamlm.bat”. If you would like to run under Windows Services please ask us for the appnote detailing those instructions; it should be an attachment in the same email that you received this document in.

```

C:\LAM-12.23.2010>start_lam.bat
C:\LAM-12.23.2010>set CATALINA_HOME=apache-tomcat-7.0.2
C:\LAM-12.23.2010>set JRE_HOME=C:\Program Files\Java\jre6
C:\LAM-12.23.2010>start mysql-5.1.49\bin\mysqld.exe --standalone
C:\LAM-12.23.2010>call apache-tomcat-7.0.2\bin\startup.bat
Using CATALINA_BASE: "apache-tomcat-7.0.2"
Using CATALINA_HOME: "apache-tomcat-7.0.2"
Using CATALINA_TMPDIR: "apache-tomcat-7.0.2\temp"
Using JRE_HOME: "C:\Program Files\Java\jre6"
Using CLASSPATH: "apache-tomcat-7.0.2\bin\bootstrap.jar;apache
2\bin\tomcat-juli.jar"

```



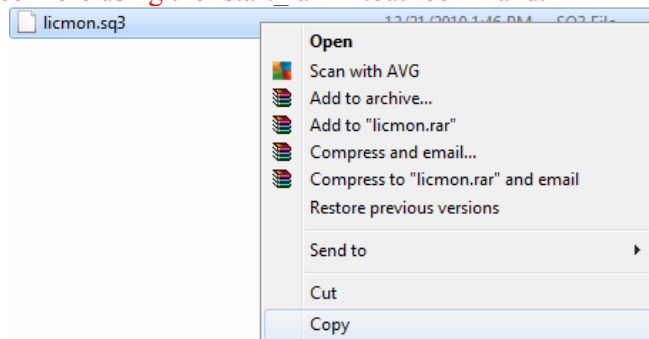
(Screenshot of starting LAMLM)

Once completed, run a “stop_lamlm.bat”.

This step is necessary to initialize the LM component before we restore its database’ contents.

Step Eight:

Now copy, so the original is kept also, the “licmon.sq3” file from the “C:\LAMLM.old\rtda\xxxx.xx\licmon\licmon.swd\sq3\” directory to the new installation’s “C:\LAMLM\rtda\licmon\licmon.swd\sq3\” folder. After the copy is complete start the LAMLM installation once more using the ‘start_lamlm.bat’ command.



(Screenshot of licmon.sq3 File Copy)

Step Nine:

We are now ready to restore our LAM database backup that we created previously. Open a command prompt and perform the following:

1. Using the command prompt in our newly created installation directory...

```

Administrator: Command Prompt
4 File(s) 1,089 bytes
12 Dir(s) 200,337,047,552 bytes free
C:\>cd LAMLM
C:\LAMLM>dir
Volume in drive C is OS
Volume Serial Number is 14A5-EADE

Directory of C:\LAMLM

12/14/2010 04:12 PM <DIR> .
12/14/2010 04:12 PM <DIR> ..
12/07/2010 02:12 PM <DIR> apache-tomcat-7.0.2
12/02/2010 01:04 PM <DIR> Installers
12/02/2010 01:13 PM 0 lam_log
12/07/2010 02:14 PM 50,683 LAMLM_Uninstall.exe
12/07/2010 02:14 PM <DIR> mysql-5.1.49
12/07/2010 02:15 PM <DIR> rtda
12/07/2010 02:14 PM 1,283 start_lamlm.bat
11/30/2010 04:14 PM 182 stop_lamlm.bat
4 File(s) 52,148 bytes
6 Dir(s) 200,337,047,552 bytes free
C:\LAMLM>

```

(Screenshot of New LAMLM directory)

2. Type in MySQLx.x.xx\bin\mysql.exe –uroot’ You should see a new prompt that says ‘mysql >’

```

Administrator: Command Prompt - LAMLM\mysql-5.1.49\bin\mysql.exe -root
11/10/2010 04:38 PM <DIR> Intel
12/14/2010 04:29 PM <DIR> LAMLM
07/13/2009 09:37 PM <DIR> PerfLogs
11/23/2010 02:34 PM <DIR> Program Files
12/16/2010 03:20 AM 31 Program Files
11/24/2010 10:35 AM <DIR> Users
11/18/2010 04:45 PM <DIR> Windows
4 File(s) 1,089 bytes
12 Dir(s) 199,984,091,136 bytes free

C:\>cd LAMLM\mysql-5.1.49\bin\mysql.exe -root
The system cannot find the path specified.

C:\>L:\LAMLM\mysql-5.1.49\bin\mysql.exe -root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 1
Server version: 5.1.49-community-log MySQL Community Server (GPL)

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and you are welcome to modify and redistribute it under the GPL v2 license

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> _

```

(Screenshot of MySQL “root” Login)

3. At the mysql > prompt type in “DROP DATABASE lamdb;” This will remove the old database.

```

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 3
Server version: 5.1.49-community-log MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| lamdb |
| mysql |
| test |
+-----+
4 rows in set (0.00 sec)

mysql> drop database lamdb;
Query OK, 0 rows affected (0.00 sec)

mysql>

```

(Screenshot of MySQL “drop database” Command)

4. At the mysql > prompt type in “CREATE DATABASE lamdb;” This will create the database for import of data.

```
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| lamdb |
| mysql |
| test |
+-----+
4 rows in set (0.00 sec)

mysql> drop database lamdb;
Query OK, 0 rows affected (0.00 sec)

mysql> create database lamdb;
Query OK, 1 row affected (0.00 sec)

mysql> _
```

(Screenshot of MySQL "create database" Command)

- At the mysql > prompt type in "use lamdb;"

```
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schem |
| lamdb |
| mysql |
| test |
+-----+
4 rows in set (0.00 sec)

mysql> drop database lamdb;
Query OK, 0 rows affected (0.00 sec)

mysql> create database lamdb;
Query OK, 1 row affected (0.00 sec)

mysql> use lamdb;
Database changed

mysql> _
```

(Screenshot of MySQL "use lamdb" Command)

- At the mysql > prompt type in "source C:\path\to\LAM_BACKUP.SQL where you must put the path to the 'LAM_BACKUP.SQL' file.

```
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases1
-> show databases;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'datab
ases1
show databases' at line 1
mysql> show databases;
+-----+
| Database |
+-----+
| information_schem |
| lamdb |
| mysql |
| test |
+-----+
4 rows in set (0.01 sec)

mysql> use lamdb;
Database changed
mysql> source C:\path\to\your_
```

(Screenshot of Example Backup Path)

- Type in 'exit'
- in 'MySQLx.x.xx\bin\mysqladmin.exe -uroot shutdown

```
mysql> use lamdb;  
Database changed  
mysql> exit  
Bye  
C:\LAML\mysql-5.1.49\bin>mysqladmin.exe -uroot shutdown  
C:\LAML\mysql-5.1.49\bin>_
```

(Screenshot of MySQL "shutdown" Command)



You should now be able to run "start_lamlm.bat" and be able to use the new release with your existing data in place for both LAM and the LM component!

If you would like to run the newly upgraded installation under Windows Services please see our Appnote for instruction.

Any questions or problems please contact Team EDA Support!

support@teameda.com