

# *Lumension*<sup>®</sup> Endpoint Management and Security Suite 7.1

## Migration Guide

### Planning your migration with *Lumension*<sup>®</sup> E.M.S.S. 7.1

The purpose of this document is to provide a quick reference guide to upgrade scenarios moving to L.E.M.S.S. 7.1 from a previously installed version of L.E.M.S.S. or LPR. When performing an upgrade it is recommended that the administrator consult the L.E.M.S.S. 7.1 Installation Guide for more detailed upgrade instructions.

**April, 2011**

Version 0.5

Rich Hoffecker, Sr. Product Manager



## Table of Contents

Overview.....	3
Migrating from L.E.M.S.S. 7.0 to L.E.M.S.S. 7.1.....	4
Who is a good candidate for migration from L.E.M.S.S. 7.0 to L.E.M.S.S. 7.1?.....	4
Migrating from LPR 6.4 SP2 to L.E.M.S.S. 7.1.....	5
Who is a good candidate for migration from LPR 6.4 SP2 to L.E.M.S.S. 7.1?.....	5
Preparing for Your Migration to L.E.M.S.S. ....	7
Get to know L.E.M.S.S.....	7
Determine your migration scenario.....	7
Prepare for migration.....	7
Migration Options.....	8
Scenario 1: Upgrade from L.E.M.S.S. 7.0 on existing hardware.....	10
Scenario 2: Switchover to new hardware using your existing L.E.M.S.S. 7.0 serial number.....	11
Scenario 3: Side-by-Side implementation with new L.E.M.S.S. 7.1 serial number.....	13
Scenario 4: Upgrade from LPR 6.2 SP2 on existing hardware.....	14
Scenario 5: Switchover to new hardware using your existing LPR 6.4 SP2 serial number.....	15
Scenario 6: Side-by-side implementation with new L.E.M.S.S. 7.1 serial number.....	17
Supported Platforms.....	18

## Overview

*Lumension®* Endpoint Management and Security Suite 7.1 is the next generation endpoint security and IT operations management platform providing enterprise wide visibility and control. *Lumension®* E.M.S.S. 7.1 supports an automated upgrade path for existing customers coming from *Lumension®* Patch and Remediation (formerly known as PatchLink Update) 6.4 SP2, and *Lumension®* E.M.S.S. 7.0+ implementations.

Special consideration should be given to the upgrade scenario to ensure that the desired outcome is achieved. Factors to consider include:

- Existing and target operating system version
- Existing and target SQL server version
- Remote vs. Local SQL server installation
- Data retention requirements (NOTE: retained data differs by existing version)
- Existing agent upgrade strategy

This document will outline the migration options for your given scenario and provide an overview of steps to take when implementing a L.E.M.S.S. 7.1 Solution. For a detailed technical guide for upgrading your Lumension solutions to the new Platform, please reference the L.E.M.S.S. 7.1 Installation Guide and additional support material.

## Migrating from L.E.M.S.S. 7.0 to L.E.M.S.S. 7.1

### Who is a good candidate for migration from L.E.M.S.S. 7.0 to L.E.M.S.S. 7.1?

You are a good candidate to migrate to L.E.M.S.S. 7.1 from your existing L.E.M.S.S. 7.0 solution if you meet the following criteria.

You are a good candidate if:

- » You are a current customer using the following products:
  - Lumension E.M.S.S. 7.0 or greater
  - Lumension Security Configuration Management (optional supported add-on for L.E.M.S.S.)
  - Lumension Content Wizard (optional supported add-on for L.E.M.S.S.)
  - Lumension Enterprise Reporting Client 7.0 for L.E.M.S.S.
    - » NOTE: Requires manual intervention during upgrade; see ERS Client documentation
  - PatchLink Scan 6.4.8 or greater (side-by-side compatible; no integration)
- » You would like to take advantage of the new feature modules including:
  - Lumension Application Control
  - Lumension Device Control
  - Lumension AntiVirus
  - Lumension Power Management
- » You would like to take advantage of new platform features including:
  - Remote Systems Management
  - Wake On LAN
  - Enhanced Role-Based Access Control
  - Active Directory synchronization\*

\* Feature availability/usage is module dependant

## Migrating from LPR 6.4 SP2 to L.E.M.S.S. 7.1

### Who is a good candidate for migration from LPR 6.4 SP2 to L.E.M.S.S. 7.1?

You are a good candidate to migrate to L.E.M.S.S. 7.1 from your existing Lumension Patch and Remediation version (6.4 SP2) if you meet the following criteria.

You are a good candidate if:

- » You are a current customer using the following products:
  - Lumension Patch and Remediation (formerly known as PatchLink Update)
  - Lumension Security Configuration Management (optional supported add-on for L.E.M.S.S.)
  - Lumension Content Wizard (optional supported add-on for L.E.M.S.S.)
  - PatchLink Enterprise Reporting 6.4 SP1a
  - PatchLink Scan 6.4.8 or greater (side-by-side compatible; no integration)
- » You would like to take advantage of the new L.E.M.S.S. feature modules including:
  - Lumension Application Control
  - Lumension Device Control
  - Lumension AntiVirus
  - Lumension Power Management
- » You would like to take advantage of new platform features including:
  - Remote Systems Management
  - Wake On LAN
  - Enhanced Role-Based Access Control
  - Active Directory synchronization \*
- » You are willing to lose visibility or configurations of any of the following items
  - Mandatory Baselines
  - Existing deployment history

\* Feature availability/usage is module dependant

Important Note: L.E.M.S.S. includes a new content architecture for your Microsoft Windows patch content. This enables faster delivery of patch content on Patch Tuesday, expanded patch availability and faster release of non-English patches. Because of the significant differences with content delivered in previous versions, there is no way to migrate your mandatory baselines or

deployment history from previous Patch and Remediation versions to the new L.E.M.S.S. application. An archive of the configured baselines and deployments is provided on the system, but only for informational purposes. It is recommended that this data archive, or an export done prior, be used to rebuild the lost configuration.

## Preparing for Your Migration to L.E.M.S.S.

### Get to know L.E.M.S.S.

For those new to the *Lumension®* Endpoint Management and Security Suite we encourage you to preview the new 7.1 Platform to discover the security and operational benefits it can bring to your IT environment. From the “Downloads” page of the Lumension Customer Portal, click the link in the Lumension Endpoint Management and Security Suite section to **request a 60 day evaluation license**. You will receive a new evaluation serial key within 5 days, which you can use to install a test environment for the new *Lumension®* E.M.S.S. 7.1 Platform and select feature modules.

NOTE: If you currently have an older version of Lumension® Patch and Remediation or the Lumension® E.M.S.S. 7.0 product installed, the evaluation license will require installation on separate hardware to prevent a conflict with your production deployment and its replication with the Lumension Global Subscription Service (GSS).

### Determine your migration scenario

After considering your own timelines, you will choose one of the following options to migrate to L.E.M.S.S. 7.1:

- » Scenario 1: Upgrade from L.E.M.S.S. 7.0 on existing hardware
- » Scenario 2: Switchover to new hardware using your existing L.E.M.S.S. 7.0 serial number
- » Scenario 3: Side-by-Side implementation with new L.E.M.S.S. 7.1 serial number
- » Scenario 4: Upgrade from LPR 6.2 SP2 on existing hardware
- » Scenario 5: Switchover to new hardware using your existing LPR 6.4 SP2 serial number
- » Scenario 6: Side-by-Side implementation with new L.E.M.S.S. 7.1 serial number

### Prepare for migration

As with any software migration, we highly recommend that you first backup your current system.

In addition, if migrating from LPR 6.4 SP2 we recommend that you export the following prior to migration as these will not be carried over using the L.E.M.S.S. 7.1 automated installer:

- » Mandatory Baseline policies: To be used to rebuild Mandatory Baseline policies after upgrade
- » Deployment History: To ensure you have access to any required historical data for reporting purposes

## Migration Options

Customers who wish to migrate to L.E.M.S.S. 7.1 can do so by simply using the optimized upgrade options in the installer. Scenarios for migrating are outlined below.

Important Notes:

- » Your legacy agents (6.4+) will automatically re-register with the upgraded L.E.M.S.S. 7.1 server, if you install it with the same serial number used on your production server, and if the agent can resolve to the same server name.
- Scenarios [4](#) or [5](#) (replacement on existing hardware or switchover to new hardware), achieve this, but the legacy agents (6.4 and below) cannot be used to patch the endpoint until additional action is taken to apply the native content enhancement component.
- **WARNING:** Do not install L.E.M.S.S. 7.1 with the same serial number and server name on new hardware until you have disconnected your previous server from GSS replication.

### WINDOWS AGENT OPTIONS (XP AND HIGHER):

This section covers supported upgrade options for moving to the 7.1 Agent. If the intent is to retain existing Agent version after a side-by-side Server upgrade to 7.1, and perform a strategic Agent upgrade, steps must be taken to move previous agent versions to new Server. If a new 7.1 Server does not have available previous agent versions, endpoints will be automatically upgraded to the current 7.1 Agent version upon first check-in. For details on the process to move previous Agent versions to the new 7.1 Server, consult the Lumension Knowledge Base.

1. Upgrading from L.E.M.S.S. 7.0 Agents:
  - a. L.E.M.S.S. Manage Agent Version will enable selection of upgrade Agent version (Agent version availability configured in 'Agent Version Options')
  - b. 3rd party deployment of L.E.M.S.S. Agent will automatically uninstall the L.E.M.S.S. 7.0 Agents and install the L.E.M.S.S. Agent selected  
**NOTE:** Agent registration and associated history will be lost
  - c. Manual installation will automatically uninstall the L.E.M.S.S. 7.0 Agents and install the L.E.M.S.S. Agent selected  
**NOTE:** Agent registration and associated history will be lost
  - d. L.E.M.S.S. Agent Management job with "Overwrite" option selected will automatically uninstall the L.E.M.S.S. 7.0 Agent and install the L.E.M.S.S. agent selected (Agent version availability configured in 'Agent Version Options')  
**NOTE:** Agent registration and associated history will be lost
2. Upgrading from Update 6.3.x and 6.4.x Agents:
  - a. Deploy the L.E.M.S.S. agent upgrade package using the "C - Lumension EMSS Agent Upgrade for Windows, 7.1 (See Notes)" patch found on the Vulnerabilities pages

- b. 3rd party deployment of L.E.M.S.S. Agent msi will automatically uninstall Update 6.3 and/or 6.4 Agents and install the L.E.M.S.S. Agent selected
  - c. Manual installation of the L.E.M.S.S. Agent msi will automatically uninstall Update 6.3 and 6.4 Agents and install the L.E.M.S.S. agent selected
  - d. L.E.M.S.S. Agent Management job with “Overwrite” option selected will automatically uninstall 6.3 and/or 6.4 and install the L.E.M.S.S. agent selected (Agent version availability configured in ‘Agent Version Options’)
3. Upgrading from Update Agent versions prior to 6.3:
    - a. First uninstall using a 3<sup>rd</sup> party deployment tool or manually, and then install L.E.M.S.S. 7.1 using one of the methods described in 1.a above.

### WINDOWS 2000 AGENT

There is not a L.E.M.S.S. 7.1 Agent for Windows 2000. The last version of the Patch Agent for Windows 2000 was 6.4.0.518 and it supports the New Content Architecture. Typically this is used for new installs of the endpoint but can be used to upgrade existing installs manually. Existing installs can also be extended to support the New Content Architecture by deploying the “C - Lumension PatchLink Update Agent for Windows Native Scan Content Enhancement” patch found in the L.E.M.S.S. Web Console.

### LINUX/UNIX MAC (LUM) AGENT OPTIONS

- » LUM Update 6.4 SP2 Agents will re-register with the L.E.M.S.S. Server and patch their systems appropriately
- » LUM Update Agents prior to 6.4 SP2 must be upgraded to either:
  - 6.4 SP2 using “C - Lumension PatchLink Update Agent Upgrade for LinuxUnixMac from 6.0+ to 6.4283” upgrade package which is available from the L.E.M.S.S. Web Console, or
  - The L.E.M.S.S. 7.0 LUM Agent using a 3<sup>rd</sup> party deployment tool or manual installation

## Scenario 1: Upgrade from L.E.M.S.S. 7.0 on existing hardware

The upgrade option performs an in-place upgrade to L.E.M.S.S. 7.1, retaining supported data from the existing installation (see installation guide). This option is desired when OS and SQL upgrades are planned but existing hardware will be used.

This scenario is preferred if you:

- » Want to use the same hardware as the current L.E.M.S.S. 7.0 production server
- » Want the legacy agents to automatically re-register with the new L.E.M.S.S. server

Required:

- » Lumension L.E.M.S.S. 7.0 production server
- » Latest service packs applied to MS SQL Server

Steps:

- » Backup current production server
- » Upgrade OS and SQL to the latest supported version and service pack levels (recommended)
- » Install L.E.M.S.S. 7.1 Server on hardware or virtual guest where the current L.E.M.S.S. 7.0 Server is installed using the optimized L.E.M.S.S. 7.1 installer

Following server installation, the legacy agents will re-register with the L.E.M.S.S. 7.1 server.

Determine which option you're using for the [Windows Agent](#) (see page 8). NOTE: It is always preferred to upgrade previous agent versions to the L.E.M.S.S. 7.1 Windows Agent.

## Scenario 2: Switchover to new hardware using your existing L.E.M.S.S. 7.0 serial number

This upgrade option is typically used when new hardware will be used for the L.E.M.S.S. 7.1 implementation, but there is a desire to retain the 7.0 Server configurations and history.

This scenario is preferred if you:

- » Want to use new hardware / instance for server
- » Want the legacy agents to automatically re-register with the new L.E.M.S.S. server

Required:

- » Use the same product serial number as your current L.E.M.S.S. 7.0 production server
- » Procure new hardware (metal or virtual)
  - Ensure minimum hardware requirements are met
  - Install Windows Server 2003 / Windows Server 2008 / Windows Server 2008R2 with the latest service pack

Steps:

- » Backup current production L.E.M.S.S. 7.0 Server (*source*)
- » Perform in-place upgrade of *source* server to L.E.M.S.S. 7.1; including the upgrade of any feature modules that will be installed on the 7.1 Server
- » Backup database, and the 'EndpointComponents' directory
- » Power down *source* L.E.M.S.S. 7.0 Server  
IMPORTANT: At a minimum, you must block communication with Lumension GSS and any existing endpoints
- » Install L.E.M.S.S. 7.1 Server (*destination*) on new hardware using the same serial number
- » Before completing Application Setup Manager, stop the 'EDS Lanportal' and 'EDS Server' services on the *destination* Server
- » Complete Application Setup Manager
- » Restore database to *destination* Server and copy the 'EndpointComponents' directory to the new Server
- » Following system replication, start the 'EDS Lanportal' and 'EDS Server' services on the *destination* Server
- » Modify DNS to re-direct Agent traffic to the *destination* Server
  - NOTE: The *source* Server must be powered down before this step

**WARNING:** The *destination* server MUST be configured with installed modules identical to the upgraded *source* server.

After the server is installed and DNS has redirected legacy agents to the new L.E.M.S.S. server, the legacy agents will re-register with the L.E.M.S.S. 7.1 server

Determine which option you're using for the [Windows Agent](#) (see page 8). NOTE: It is always preferred to upgrade the legacy Windows Update Agent to the current L.E.M.S.S. 7.1 Windows Agent.

### Scenario 3: Side-by-Side implementation with new L.E.M.S.S. 7.1 serial number

The side-by-side upgrade option is typically used when new hardware will be used for the upgraded LEMSS implementation and it is not necessary to retain historical data.

This scenario is preferred if you:

- » Want to use new hardware / instance for server
- » Do not want legacy agents to re-register with the new server
- » Want to run the new L.E.M.S.S. 7.1 server in parallel with existing L.E.M.S.S. 7.0 server, to gradually migrate agents

Required:

- » Obtain a new serial number
  - IMPORTANT: You must contact your account manager to get a new production serial number and request a transition period to expire your current serial number.
- » Procure new hardware or virtual guest
  - Install Windows Server 2008R2 (recommended) / Windows Server 2008 / Windows Server 2003 with the latest service pack

Steps:

- » Install L.E.M.S.S. 7.1 Server on new system using the new serial number
- » As endpoints are ready for migration, set the Agent Uninstall Protection policy item to Off from the L.E.M.S.S. 7.0 Server and determine which upgrade option best meets your needs (see page 8)

NOTE: If the intent is to have previous Agent versions available for installation from the 7.1 Server, it is necessary to copy the 'EndpointComponents' directory to the new Server.

## Scenario 4: Upgrade from LPR 6.2 SP2 on existing hardware

This scenario is preferred if you:

- » Want to use the same hardware as the current Lumension Patch and Remediation production server
- » Want the legacy agents to automatically re-register with the new L.E.M.S.S. server

Required:

- » Lumension Patch and Remediation v.6.4 Service Pack 2
- » Latest service packs applied to MS SQL Server

Steps:

- » Install L.E.M.S.S. 7.1 Server on hardware or virtual guest where the current Patch and Remediation 6.4 Server is installed using the optimized L.E.M.S.S. 7.1 installer

After the server is installed, the legacy agents will re-register with the L.E.M.S.S. 7.1 Server

Determine which option you're using for the [Windows Agent](#) (see page 8). NOTE: It is always preferred to upgrade the legacy Windows Update Agent to the L.E.M.S.S. 7.0 Windows Agent.

## Scenario 5: Switchover to new hardware using your existing LPR 6.4 SP2 serial number

This upgrade option is typically used when new hardware will be used for the L.E.M.S.S. 7.1 implementation, but there is a desire to retain the LPR 6.4 SP2 Server configurations.

This scenario is preferred if you:

- » Want to use new hardware / instance for server
- » Want the legacy agents to automatically re-register with the new L.E.M.S.S. server

Required:

- » Use the same product serial number as your current Lumension Patch and Remediation production server
- » Procure new hardware (metal or virtual)
  - Install Windows Server 2003 / Windows Server 2008 / Windows Server 2008R2 with the latest service pack

Steps:

- » Backup current production LPR 6.4 SP2 Server (*source*)
- » Perform in-place upgrade of *source* server to L.E.M.S.S. 7.1
- » Backup database, and the 'EndpointComponents' directory
- » Power down *source* Server  
IMPORTANT! At a minimum, you must block communication with GSS and existing endpoints
- » Install L.E.M.S.S. 7.1 Server (*destination*) on new hardware using the same serial number
- » Before completing Application Setup Manager, stop the 'EDS Lanportal' and 'EDS Server' services on the *destination* Server
- » Complete Application Setup Manager
- » Restore database to *destination* Server and copy the 'EndpointComponents' directory to the new Server
- » Following system replication, start the 'EDS Lanportal' and 'EDS Server' services on the *destination* Server
- » Modify DNS to re-direct Agent traffic to the *destination* Server
  - NOTE: The *source* Server must be powered down before this step

After the server is installed and DNS has redirected legacy agents to the new L.E.M.S.S. server, the legacy agents will re-register with the L.E.M.S.S. 7.0 server

Determine which option you're using for the [Windows Agent](#) (see page 8). NOTE: It is always preferred to upgrade the legacy Windows Update Agent to the L.E.M.S.S. 7.0 Windows Agent.

## Scenario 6: Side-by-side implementation with new L.E.M.S.S. 7.1 serial number

The side-by-side upgrade option is typically used when new hardware will be used for the upgraded LEMSS implementation and it is not necessary to retain historical data.

This scenario is preferred if you:

- » Want to use new hardware / instance for server
- » Do not want legacy agents to re-register with the new server
- » Want to run the new 7.1 Server in parallel with old 6.4 SP2 server, to gradually migrate agents

Required:

- » Obtain a new serial number
  - IMPORTANT: You must contact your account manager to get a new production serial number and request a transition period to expire your current serial number.
- » Procure new hardware or virtual guest
  - Install Windows Server 2008R2 (recommended) / Windows Server 2008 / Windows Server 2003 with the latest service pack

Steps:

- » Install L.E.M.S.S. 7.1 Server on new hardware or virtual guest with the new serial number
- » As endpoints are ready for migration, determine which upgrade option best meets your needs (see page 8)

NOTE: If the intent is to have previous Agent versions available for installation from the 7.1 Server, it is necessary to copy the 'EndpointComponents' directory to the new Server.

## Supported Platforms

The below table identifies the supported OS and SQL versions by Lumension Product:

		Lumension Products			
		6.4 SP2	LEMSS 7.0	LEMSS 7.0 SP1	LEMSS 7.1
<b>Platforms</b>	<b>Supported OS</b>				
	Windows 2003 SP2	X	X	X	X
	Windows 2008 SP1		X	X	X
	Windows 2008 R2			X	X
	<b>Supported DB</b>				
	SQL 2005 SP3	X	X	X	X
	SQL 2008 (Latest SP)		X	X	X
SQL 2008 R2				X	



**Lumension Global Headquarters**

8660 East Hartford Drive, Suite 300

Scottsdale, AZ 85255 USA

Phone: +1.888.725.7828

Fax: +1.480.970.6323