

BSD LinkMan-E Installation Instructions

BSD LinkMan-E (LME) can be installed on a network for multiple users, or on a standalone computer for individual use. It has one standalone option and three network configuration options. If you have previously installed BSD SpecLink-E standalone and Revit on the same machine, you will usually want to choose the standalone install. For all network configurations and if Revit installations are on a different machine than that of LME, select the one of the network setups. Please call BSD technical support at 1-800-266-7732, or consult BSD's web site (www.bsdssoftlink.com) if further assistance is needed.

Installation Requirements for the BSD LinkMan-E Software:

BSD LinkMan-E requires prior successful installation of SLE on the network or on the same standalone computer.

Hardware Requirements.

Recommended server configuration

- Intel-compatible processor, 2 GHz or better
- Windows Server 2008 or Windows 2003 Server software
- 4 GB or more RAM
- 10 GB minimum available disk space high performance drives
- XGA or higher resolution monitor
- CD-ROM or DVD reader

Recommended client configuration

- Intel-compatible processor, 2 GHz or better
- Windows™ 7, Vista, or XP ,
- 2 GB RAM
- 1 GB available disk space
- XGA or higher resolution monitor
- Internet Explorer 6.0 SP1 or higher

Recommended laptop or standalone configuration (runs both server and client applications – note this installation implies an existing standalone installation of BSD SpecLink-E and therefore has the same recommended configuration)

- Intel-compatible processor, 2 GHz or better
- Windows™7, Vista, XP; or Windows™ 2008 Server
- 4- GB or more RAM
- 10 GB minimum available disk space
- XGA or higher resolution monitor
- CD-ROM or DVD reader
- Laser printer
- Internet Explorer 6.0 SP1 or higher

Storage Requirements. Since LME and SLE share the same server, the servers or standalone computers used by LME need to have a minimum of 10GB of disk space available to perform the

install BSD recommends that 4GB of disk space be allocated for the LME Projects database on an ongoing basis. The LME Master database requires at least 250MB and will grow over time.

Note: Prior to installing LME, be sure SLE, LME and Revit are all closed.

Standalone Computer Setup (Option 1)

This setup is ONLY useful if BSD SpecLink-E has been installed using the Standalone option AND Revit is installed on the same computer as SLE. The standalone setup is used to perform a complete installation of BSD LinkMan-E (LME) to a single computer and includes all necessary components. The setup prompts for a location for the databases and the client setup packages installation (see default locations below). The client setup will begin automatically at the end of the installation. No further software installation is necessary.

The setup will install client software on the user's computer and place an entry for BSD LinkMan-E under Building Systems Design, Inc. in the Windows Start Menu. It will also install the Revit Plug-in if one or more copies of Revit are found on the computer. If no Revit installation is found on the computer, the process will discontinue and will give the user a message. BSD LinkMan-E will display a page from BSD's website on the My Start Page tab when it first starts up. My Start Page lets you browse BSD's website (and other locations) from within the BSD LinkMan-E application.

Note: Microsoft .NET framework 3.5 will be installed during the setup if not already present.

Database default location: C:\Program Files\Building Systems Design\Data

Client setup package default location: C:\LME Setup Packages\LME Client Setup

Revit Add-in setup package default location: C:\LME Setup Packages\LME Revit Plugin Setup

Network Setup (Options 2, 3 and 4)

Network setup is used for local area networks (LANs), wide area networks (WANs), virtual private networks (VPNs), or peer-to-peer networks.

The components of a network setup include the following:

- The client setup packages, used to install the end user computer software
- The LME databases, used as a data foundation for all software functionality
- A set of server files, used to establish system services
- A Revit Add-In component that handles Revit's communications with LME. The Add-In works with Revit 2009, 2010 and 2011, in all flavors of Revit (Architectural, Structural, and MEP).

Option 2, Network Setup – Complete

Option 2 installs all components listed above to a single network server or shared workstation, and the install must be run locally on that computer. Before installation, create, map and share a folder for the client setup package on the target server.

Databases will be installed to a default location: (typically C:\Program Files\Building Systems Design\Data).

The setup prompts for:

- Location for the client setup and Revit Plugin packages installation (Default location: C:\LME Client Setup Packages where the packages occupy individual subdirectories). [That location must be shared so that all users on the network can see it, once the setup is complete.]
- The computer name (enter the name of the network or shared computer)
- Port number used for communication between BSD applications (defaults to 9049).

File and print sharing, as well as the port number may need to be set up on the server firewalls on this computer.

When "Option 2, Network Setup - Complete" is complete, skip to "Client Software Setup" below. The installation is not complete until at least one workstation has been configured as a Client" and Registration has been completed as described below.

Option 3, Network Setup - Servers & Data Only

Option 3 is used when it is necessary to install the databases and the client setup package on different servers or shared workstations. This may be desirable because the system used to store the client setup package must be accessible to all users, and may need to be isolated from the system used for databases. Note that the data location for LME must be the same as the data location for SLE.

This option must be run locally on the target computer.

File and print sharing, as well as the port number defined in option 4 below must be set up as exceptions in any firewalls on this computer.

When "Option 3, Network Setup -- Servers & Data" is complete, continue to Option 4, Client Setup Package. Option 3 is not complete without Option 4.

Option 4, Network Setup – Client Setup Package Only

Option 4 is used when it is desirable to install the client setup package on a separate server or shared workstation from the rest of the network files. Note that option 3 must also be carried out separately before the system is ready to operate.

The setup prompts for:

- The location of the client setup and Revit Plugin packages, defaulting to C:\LME Setup Packages. That location must be shared and mapped prior to installation. You will need to choose a network drive or network share that is accessible to each user that will be running the LME client software.
- The computer name used to store the remaining network files (this is the computer name in Option 3).
- The port number used for communication (defaults to 9049).

Enable shared permissions on the client setup folder.

After "Option 4, Network Setup - Client Setup Package Only" is complete, continue to "Client Software Setup" immediately below. The installation is not complete until at least one workstation has been configured as a "Client" and Registration has been completed as described below

Client Software Setup

In both the standalone and a network environment, the Client software is a separate application that runs on each individual user's computer, using the master databases stored on a server or shared workstation. Once the installation of the setup packages is complete, each user will need to run the setup.exe file for one or both of the setup packages from their computer (the client software package for the end user and the Revit package to set up communications with Revit) depending on which applications they need. The Revit Add-In should be installed on every computer that runs Revit and from which you might want to collect modeling data. The Client package setup.exe should be run from each computer at which someone might want to access LinkMan-E for status information on assemblies and products being used in Revit or specified in SpecLink-E.

Note for IT Personnel: Once the Client Software Setup package is installed on your server, you can simply send a link to its setup file location by email to each user of a workstation where LME is to be used. They simply click on the link to set up their workstation -- thereafter, whenever there is an update to the client software package, the client software will update itself.

Starting the Software

The client software starts automatically after setup is complete. Also, the setup will have placed an entry for BSD LinkMan-E under Building Systems Design, Inc. in the Windows Start Menu. BSD LinkMan-E will display a page from BSD's website on the My Start Page tab when it first starts up. My Start Page lets you browse BSD's website (and other locations) from within the BSD LinkMan -E application.

Updating

LME now uses the port number of 9049. **If you are installing this version over a previous version, you will need to change this yourself by clicking on the Tools tab and using Set Server Name.**

After the initial install of the client software by the end user, updates are handled automatically. Each client software instance checks its installation package location each time it starts. When an update arrives from BSD, it can be installed to the network server at the system manager's discretion. When the client software discovers the new package on its next startup, it basically replaces itself with the new version and restarts. No administrator login or other support is required and the process is virtually transparent since no input is required of the user on either initial or subsequent installs.

Note: Prior to installing LME, be sure SLE, LME and Revit are all closed.

Updating the Server and Standalone Installations. To update the network installation or the standalone computer installation, run the same option or options used to install the original software. This will update the server services files and the client setup package with the latest files.

Updating the Client Software. The client software automatically checks the client setup package each time it starts up. If the client setup package has been updated (above) the client software updates and restarts itself. The user does not need to do anything else.

Updating the Revit Plugin Software: If you are using a standalone installation, your revit plugin will be automatically updated along with your other LME components. If you are using a network setup,

each of your Revit machines will need to run the Revit Plugin setup manually to get the latest version on that individual machine.

Uninstalling

To un-install the server components, open Add/Remove Programs, click on “BSD LinkMan-E Server Components” and choose to uninstall. This removes most server and data components, but does not remove the BSD LinkMan-E Client Setup package. You can safely remove this package by deleting the directory in which it is installed. If you used the default location this would be the C:\LME Client Setup directory.

Note that if you are uninstalling a standalone installation, you need to perform the un-install for both the server components and the client application.

Moving the Software

The Master and LME Groups database part of LinkMan-E is tied to the server location of SpecLink-E, so LinkMan-E must be moved if SpecLink-E is moved. See the Installation instructions on the [Download Center](#) for detailed instructions on moving a Network Server or Standalone installation of SpecLink-E. When you [Backup or restore the databases](#) in SpecLink-E, that includes the LinkMan-E Master and LME Groups databases.

The basic steps when you have a server and client installation include:

- Backup your databases in SLE.
- Get an Unpermit code from BSD Technical Support.
- Uninstall the BSD LinkMan-E Server Components.
- Uninstall the BSD SpecLink-E Server Components.
- Remove the SLE Client Setup folder.
- Remove the LME Setup Packages folder.
- Have each client Uninstall both BSD SpecLink-E and BSD LinkMan-E.
- Perform the server installations for SLE and LME at the new server.
- Perform the client installations for SLE and LME at each client machine, using the new location of the SLE Client Setup folder and the LME Setup Packages folder.
- Perform the Revit Plugin installation at each client machine.
- Restore the backed up databases using Database Administration (available at the server) on the Building Systems Design group on the Start Menu
- Input new EIDs.
- Have each client open Revit and use [Set Server Name](#).

Moving the software from one Standalone machine to another.

- Backup your databases in SLE.
- Get an Unpermit code from BSD Technical Support.
- Uninstall the BSD LinkMan-E Server Components.
- Uninstall the BSD SpecLink-E Server Components.
- Uninstall both BSD SpecLink-E and BSD LinkMan-E.
- Remove the SLE Client Setup folder.
- Remove the LME Setup Packages folder.
- Perform the standalone installations for SLE and LME on the new computer.

- Restore the backed up databases using Database Administration on the Building Systems Design group on the Start Menu
- Input new EIDs.
- Open Revit and use [Set Server Name](#).

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