

Installing the Security Device

Introduction

A security device is required to use LVSIM-EMS. Two types of security devices are available:

- A single-user HASP (Hardware Against Software Piracy) key that must be connected to a USB port of the user's computer.
- A multiple-user HASP key that must be installed on a server of the computer network.

HASP drivers are automatically installed on the computer during the installation of LVSIM-EMS. The present section covers the procedure for manually installing the security devices. If you do not need to manually install the HASP drivers, ignore this section.



Figure 3. HASP key.

Installing the HASP drivers



To install the HASP drivers, you need to have administrator rights on the computer.

1. Insert the Lab-Volt LVSIM-EMS installation CD-ROM into the CD-ROM drive.
2. Double-click on the "HASP Drivers Install" shortcut.
3. Follow the instructions provided by the installation wizard. The wizard will install the HASP drivers.
4. When the HASP drivers are installed, connect the HASP key to one of the USB ports of the computer.

The HASP drivers provide a web-based administration control center for managing license use. Admin Control Center is launched by typing the following in the address field of the browser:

`http://<machine_name or ip address>:1947`

If you are accessing the HASP License Manager on your own computer, type:

`http://localhost:1947`

Installing and Running LVSIM-EMS



If you are using a multiple-user HASP key, LVSIM-EMS only needs to be installed on a server of the computer network. Others computers on the same network will be able to access LVSIM-EMS using a web browser.

Automatic installation

Before following the procedure for automatically installing LVSIM-EMS described below, make sure that at least one of the following conditions applies:

- The installation directory of LVSIM-EMS is not important.
- You are not familiar with Microsoft® IIS.
- You are not familiar with the management of a Windows® Firewall.
- You are not familiar with changing the access rights of a folder.
- You are not familiar with environment variables.

If any of the above conditions apply, it is recommended to follow the automatic installation procedure described below for installing LVSIM-EMS.



During installation, the installation wizard will verify that the latest version of LVSIM-EMS is installed on your computer. If it is not the case, the installation will stop. Before installing a new version of LVSIM-EMS, first uninstall the old version using Add or Remove Programs in the Control Panel of the computer.

1. Insert the Lab-Volt LVSIM-EMS installation CD-ROM into the CD-ROM drive.
2. In the Start Menu of Windows®, select the Run command or, alternatively, execute the “setup.exe” file on the installation CD-ROM.
3. Follow the instructions appearing on screen to complete the installation.



You may need to interact with the setup during the installation.

4. At the end of the installation, the "readme" file opens. It is recommended to read it in order to obtain up-to-date information about the version of LVSIM-EMS that has been installed.
5. The installation of LVSIM-EMS is now completed. Remove the installation CD-ROM from the CD-ROM drive and keep it for future use.

Manual installation

If you are familiar with Microsoft® IIS and want the application files to be located in a specific folder, you can install LVSIM-EMS manually using the following procedure:



To perform the manual installation, you must also know how to open ports in a firewall, change the access rights of a folder, and modify environment variables.

1. Install Framework .NET 4.5 (located in the "Microsoft .NET Framework 4.5" folder).
2. Install Visual C++ 2012 redistributable (located in the "Microsoft Visual C++ 2012 Redistributable" folder).
3. Install the HASP drivers (located in the "HASP Driver" folder).
4. Activate IIS in Windows® features.
5. Activate ASP.NET in IIS feature (ASP.NET 4.5 for Windows® 8 and Server 2012).
6. Copy the files from LVSIM-EMS Web Files\program files\Lab-Volt\LVSIMWeb to the desired folder.
7. Create a new application in IIS using the copied files.
8. In the Application Pool advanced settings, make sure that 32-bits applications are supported and use Framework .NET 4.5.
9. Change the Recycling Regular Time Interval to 0.
10. The application MIMES must include ".LVSIMWeb" and ".sdt" (type: application/octet-stream).
11. The environment variable PATH must include the application "bin" folder.
12. Give write access to the "save" and "log" folders for the Application Pool user (in most cases, IIS_USRS).

- 13.** (Multiple users) In the firewall settings, make sure that port 80 is opened [World Wide Web Services (HTTP Traffic-In)].

Running LVSIM-EMS using a single-user HASP key

On the computer desktop, double-click on the LVSIM-EMS icon. Alternatively, open a Web Browser and browse to:

`http://localhost/LVSIMWeb/global.aspx`

When using a single-user HASP key, users can only access LVSIM-EMS from a local computer or from a remote computer, but not both at the same time.

Running LVSIM-EMS using a multiple-user HASP key

On the server desktop, double-click on the LVSIM-EMS icon. Alternatively, open a Web Browser and browse to:

`http://localhost/LVSIMWeb/global.aspx`

When using a multiple-user HASP key, users can access LVSIM-EMS from other computers on the same network as the server. To do so, open a Web Browser and browse to:

`http://<Server Name>/LVSIMWeb/global.aspx`

The number of sessions that can run at the same time on the server depends on the user limit of the multiple-user HASP key.