

# Oracle Utilities Live Energy Connect Installation Guide

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# Getting Started

## Hardware Requirements

The minimum recommended hardware requirements are:

- **CPU:** a modern, multi-core processor (2.4GHz or faster)
- **Memory:** 8 GB RAM
- **Hard Disk Space:** 500 GB or more

## Software Requirements

The operating system requirements for computers hosting LEC are:

- Windows Server 2012, Windows Server 2016, or Windows Server 2019

For development purposes, LEC will also run on Windows 10.

**Note:** It is possible to run LEC Server using Windows Failover Cluster Manager. For more information, contact [My Oracle Support](#).

## Software Included with Installation

The LEC installer will install the following software on your machine. All open source software licensing information can be found in the *Oracle Utilities Live Energy Connect Licensing Information User Manual*.

- Oracle Utilities Live Energy Connect (LEC)
- Oracle Utilities Live Energy Connect Configuration Manager (LCM)
- Python 3.11.7
- OpenSSL 3.0.13
- Stunnel 5.72

**Important:** If your machine has an older version of Python 3.x installed, you will need to either uninstall it or upgrade it to version

3.11.7 before installing LEC. Note that uninstalling or changing the version of Python 3.x on your machine may affect other software.

**Note:** The standard installation includes all the software components required to use Secure ICCP. For information about configuring Secure ICCP with LEC, refer to [Configuring LEC for Secure ICCP](#).

# Installing Live Energy Connect

Use the following steps to install Live Energy Connect (LEC):

1. Sign into [support.oracle.com](https://support.oracle.com).
2. Click the **Patches & Updates** tab and click the **Search** tab from the **Patch Search** section.
3. Ensure **Number/Name or Bug Number (Simple)** is selected from the left side of the section.
4. In the **Product** field, type **Oracle Utilities Live Energy Connect**, and in the **Release** field, select **Oracle Utilities Live Energy Connect 7.1.0.0.0**; click **Search**.
5. Check the **Updated** column to find the most recent release and click the **Patch Name**.
6. Click **Download** and then click the ZIP link to download the install.
7. Unzip the file and click the **LiveEnergyConnectSetup** EXE file.
8. When the installation is complete, you can access the tool from the Windows **Start** menu by clicking **Live Energy Connect** and then **Live Energy Connect Configuration Manager**; you will need to open the tool as an **Administrator**.

For information about using the LEC Configuration Manager refer to the [Live Energy Connect Configuration Manager User Guide](#).

# Configuring Live Energy Connect for Secure ICCP

To use Secure ICCP with Live Energy Connect (LEC) you need to:

- prepare and deploy the required certificates for the Secure ICCP association(s).
- enable Secure ICCP in your LEC configuration.
- configure the Stunnel Windows services.

## Prepare and Deploy the Required Certificates for the Secure ICCP Association(s)

Secure ICCP uses encrypted or authentication at two levels: the Transport layer, SSL/TLS, and the application layer. Therefore, each side of a Secure ICCP association needs to make use of two sets of certificates.

For detailed instructions on how to deploy the certificates used in an LEC configuration with Secure ICCP, see [Deploying Certificates Used for Secure ICCP](#).

## Enable Secure ICCP in the LEC Configuration

If an LEC Server configuration that uses Secure ICCP is created from scratch or if an existing configuration is being modified to use Secure ICCP, some parameters need to be adjusted in the LEC Configuration Manager.

To specify that Secure ICCP should be used:

1. Open the **Server** tab in the **Properties** panel.
2. Change the **Global flags** field from 1 to 3, and then click **Apply**.
3. With the appropriate VMD selected, open the **VMD** tab in the **Properties** panel.
4. In the **Flags** field, change the **SECURITY\_FLAG** option to **Set**, and then click **Apply**.

**Note:** If a VCC's flags are generated by a setup batch file, then specify that the SECURITY\_FLAG is set in the setup batch file instead.

5. Repeat steps 3 and 4 for each local VCC using Secure ICCP in your configuration.

6. Open the **LDIB Editor** tab in **Central** panel of the Configuration Manager and click **Refresh**.
7. Enable the **Secure ICCP** option for each local VCC using Secure ICCP in your configuration and click **Apply**.

## Configure Stunnel Windows Services

Upon installation, LEC creates two Windows services:

- LecClientTunnel
- LecServerTunnel

Both services are initially configured to be started manually. In production environments, you will typically want the service to start automatically.

If your LEC configuration accepts inbound Secure ICCP associations, you must configure the Windows service called LecServerTunnel to start automatically by using the Windows Services app. Similarly, if your configuration makes outbound Secure ICCP associations, you must configure the Windows service called LecClientTunnel to start automatically.

Whenever the LEC Server starts, it creates Stunnel configuration files for these services based on your configuration.

After starting an LEC configuration with Secure ICCP for the first time, you must start or restart the appropriate Stunnel service in order for it to use its new configuration.

**Note:** If you make any changes to your LEC Secure ICCP configuration, you must restart the Stunnel service to uptake those changes.



## Uninstalling Live Energy Connect

**Important:** Uninstalling Live Energy Connect (LEC) will remove all server configuration files related to the app. Make sure to make a backup of all required files before uninstalling. By default, LEC Server configuration files are located in the **C:\ProgramData\LiveEnergyConnect** directory.

To uninstall LEC:

1. From the Windows **Start** menu, select **Settings**, then select **Apps**.
2. Select **Live Energy Connect (64-bit)** from the list of applications and click **Uninstall**. The LEC installer will uninstall LEC, but it will not uninstall Python or Stunnel.

## Frequently Asked Questions

### Who should I contact if I have trouble installing Live Energy Connect?

If you have any trouble installing Live Energy Connect, contact [My Oracle Support](#).

### What versions of Python does the product use and support?

Live Energy Connect 7.1.0.0.x is compatible with Python 3.11.7, which is included in the Live Energy Connect 7.1.0.0.x installer.

### Can I install multiple versions of Python on a machine that is running Live Energy Connect?

It is not recommended to install multiple versions of Python 3.x on the same machine. You can install Python 2 and Python 3.x on the same machine. If you already have Python 3.11.7 installed on your machine, the installer will only install the packages needed for using Python with Live Energy Connect. If you have a version of Python 3 installed on your machine that is not Python 3.11.7, uninstall Python 3 or upgrade to Python 3.11.7 before installing the product.

**Note:** Uninstalling Python 3 may affect other software on your machine that uses Python.

### How do I upgrade my version of Live Energy Connect?

If you need to upgrade your Live Energy Connect installation, uninstall all Live Energy Connect software completely and then reinstall the software. See [Uninstalling Live Energy Connect](#) for steps on how to uninstall the software. Make sure to back up any configuration files you would like to keep before uninstalling Live Energy Connect.

## How do I use Secure ICCP with LEC Server?

The Live Energy Connect 7.1.0.0.x installer installs all the software components required for Secure ICCP. For information refer to [Configuring Live Energy Connect for Secure ICCP](#).