Oracle Utilities Live Energy Connect

Installation Guide

Release 7.1.0.0.0

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Oracle Utilities Live Energy Connect Installation Guide, Release 7.1.0.0.0

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Before Installation

This section guides you through the hardware and software requirements necessary to proceed with the Oracle Utilities Live Energy Connect (LEC) installation.

Hardware Requirements

The minimum recommended hardware requirements are:

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

Software Requirements

The operating system requirements for computers hosting the Oracle Utilities Live Energy Connect are:

- Windows Server 2012, Windows Server 2016, or Windows Server 2019
- For development purposes, Oracle Utilities Live Energy Connect will also run on Windows 10.

Note: It is possible to run Oracle Utilities Live Energy Connect Server (LEC Server) using Windows Failover Cluster Manager. For more information, contact My Oracle Support.

Software Included with Installation

The Oracle Utilities Live Energy Connect 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 3.8.3
- OpenSSL 1.1.1g
- Stunnel 5.56

Important! If your machine already has Python 3 installed and it is older than version 3.8.3, make sure to uninstall Python 3 or upgrade to Python 3.8.3 before installing Oracle Utilities Liver Energy Connect.

Note: Uninstalling or changing the version of Python 3 on your machine may affect other software.

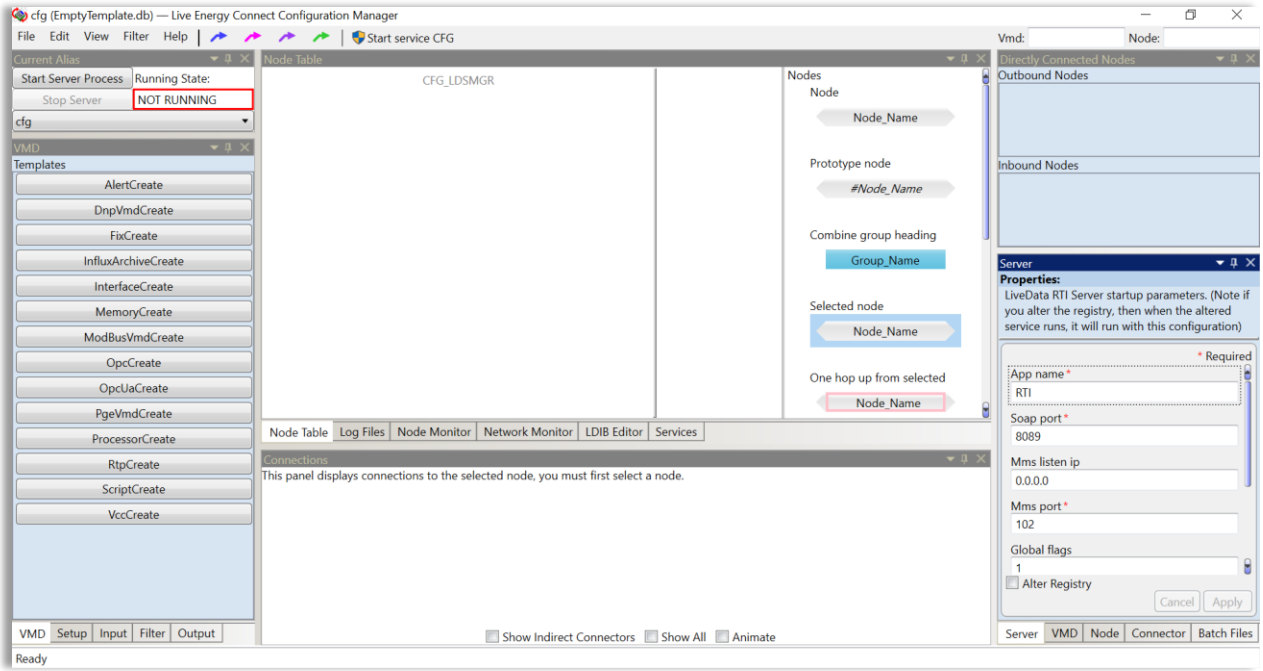
The standard installation includes all the software components required to use Secure ICCP. For information about configuring Secure ICCP with Oracle Utilities Live Energy Connect, refer to *Appendix A: Configuring Live Energy Connect for Secure ICCP*.

Installing Oracle Utilities Live Energy Connect

To install Oracle Utilities Live Energy Connect:

1. Download the installer for the latest patch of Oracle Utilities Live Energy Connect from your My Oracle Support account by searching for Live Energy Connect from the **Patches and Updates** tab. The latest patch download comes with the full installer for Live Energy Connect.
2. Run *LiveEnergyConnectSetup7.1.0.xxx.exe* as an Administrator ("*xxx*" refers to the latest version of the 7.1.0.0.0 patch). The installer will prepare some files and prompt you to review and accept the Oracle Utilities Live Energy Connect license agreement.
3. After reviewing and accepting the license agreement, click **Next**.
4. The installer needs to create two directories. Click **Next** to create them in the recommended locations.
5. The installer installs Python 3.8.3 (if it is not installed on your machine already) and any required Python libraries. At this point, the installer will open console windows. When the Python install finishes, the console window will close.
6. When asked to confirm the installation, click **Install**.
7. After the necessary software is installed, click **Finish**.
8. From the Windows **Start** menu, search for the Oracle Utilities Live Energy Connect Configuration Manager shortcut and launch it as an Administrator.

For information about using the Oracle Utilities Live Energy Connect Configuration Manager refer to the *Oracle Utilities Live Energy Connect Configuration Manager User Guide*.



Frequently Asked Questions

Q: *Who should I contact if I have trouble installing Oracle Utilities Live Energy Connect?*

A: If you have any trouble installing Oracle Utilities Live Energy Connect, contact My Oracle Support.

Q: *What versions of Python does the product use and support?*

A: Oracle Utilities Live Energy Connect 7.1.0.0.0 is compatible with Python 3.8. Oracle Utilities Live Energy Connect 7.1.0.0.0 ships with Python 3.8.3, the latest stable release of Python 3.8 at the time of release.

Q: *Can I install multiple versions of Python on a machine that is running Oracle Utilities Live Energy Connect?*

A: It is not recommended to install multiple versions of Python 3 on the same machine. You can install Python 2 and Python 3 on the same machine. If you already have Python 3.8 installed on your machine, the installer will only install the packages needed for using Python with Oracle Utilities Live Energy Connect. If you have a version of Python 3 installed on your machine that is not Python 3.8, uninstall Python 3 or upgrade to Python 3.8.3 before installing the product.
Note: Uninstalling Python 3 may affect other software on your machine that uses Python.

Q: *How do I upgrade my version of the Oracle Utilities Live Energy Connect?*

A: If you need to upgrade your Oracle Utilities Live Energy Connect installation, uninstall all Oracle Utilities Live Energy Connect software completely and then reinstall the software. See *Appendix B: Uninstalling Oracle Utilities Live Energy Connect* for instructions on how to uninstall the software. Make sure to back up any configuration files you would like to keep before uninstalling Oracle Utilities Live Energy Connect.

Q: *How do I use Secure ICCP with LEC Server?*

A: The Oracle Utilities Live Energy Connect 7.1.0.0.0 installer installs all the software components required for Secure ICCP. For information about configuring Secure ICCP with Oracle Utilities Live Energy Connect, refer to *Appendix A: Configuring Live Energy Connect for Secure ICCP*.

Appendix A: Configuring Oracle Utilities Live Energy Connect for Secure ICCP

To use Secure ICCP with Oracle Utilities Live Energy Connect you need to:

1. Prepare and deploy the required certificates for the Secure ICCP association(s).
2. Enable Secure ICCP in your Oracle Utilities Live Energy Connect configuration.
3. Configure the Stunnel Windows services.

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

Secure ICCP uses encrypted/authenticated at two levels: the Transport layer (i.e. 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 Oracle Utilities Live Energy Connect configuration with Secure ICCP, refer to the *Oracle Utilities Live Energy Connect Certificate Deployment Procedure for Using Secure ICCP* document.

Enable Secure ICCP in your Oracle Utilities Live Energy Connect Configuration

If an Oracle Utilities Live Energy Connect 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 Oracle Utilities Live Energy Connect 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". 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**. 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. 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, Oracle Utilities Live Energy Connect (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 Oracle Utilities Live Energy Connect 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 Oracle Utilities Live Energy Connect server starts, it creates Stunnel configuration files for these services based on your configuration.

After starting an Oracle Utilities Live Energy Connect 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 Oracle Utilities Live Energy Connect Secure ICCP configuration, you must restart the Stunnel service to uptake those changes.

Appendix B: Uninstalling Oracle Utilities Live Energy Connect

To uninstall Oracle Utilities Live Energy Connect:

1. From the Windows **Start** menu, select **Settings**.
2. Select **Apps**.
3. Find the “Live Energy Connect (64-bit)” entry in the list of applications. Select it and click **Uninstall**. The Oracle Utilities Live Energy Connect installer will uninstall Oracle Utilities Live Energy Connect. It will not uninstall Python 3.8 or Stunnel.

Important! Uninstalling Oracle Utilities Live Energy Connect will remove all of your server configuration files. Make sure to make a backup of all the required files before uninstalling. By default, the Oracle Utilities Live Energy Connect server configuration files are located in the “C:\ProgramData\LiveEnergyConnect” directory.