Lucanet 25 – Providing Lucanet Clients

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Overview

Whether the Lucanet clients are available locally on the corresponding user computers or are provided remotely in the network depends on the respective customer environment. The Lucanet clients can be provided easily in all infrastructure variants.

Providing Lucanet clients locally

Choose one of the following options to provide the Lucanet clients locally to the user computers:

Local Installation	1. Download the installation file from the **Online Installation** area at **https://customer.lucanet.com/en/lucanet-25/downloads** for Lucanet.**Software Manager**.
	2. Install Lucanet.**Software Manager** (see *Installing Lucanet.Software Manager* on page *2*).
	3. Install Lucanet.**Financial Client** (see *Installing Lucanet.Financial Client* on page *6*).
	4. If necessary, install Lucanet.**Excel-Add-In** for MS Windows (see *Installing Lucanet.Excel-Add-In* on page *9*).
Network installation	1. Download the installation file for online installation from the **Online Installation** area at **https://customer.lucanet.com/en/lucanet-25/downloads** for Lucanet.**Software Manager**.
	2. If necessary, download the installation file for the separate Lucanet.**Excel-Add-In** for MS Windows from **https://customer.lucanet.com/en/lucanet-excel-add-in**.
	3. If necessary, use **group policy** to install Lucanet.**Software Manager** and the separate Lucanet.**Excel-Add-In** for MS Windows for a particular group of users within the corporate network. **Note**: To find out how to do this, see the **Microsoft documentation**.
	4. Install Lucanet.**Financial Client** automatically (see *Automatic installation using a Lucanet URL* on page *6*).

Providing Lucanet clients centrally

To provide Lucanet clients centrally via remote desktop access using Citrix or another terminal environment instead of locally on the user computers, proceed as follows:

1. Install the Lucanet software on the computer that the user should access:
   1. Install Lucanet.**Software Manager** (see *Installing Lucanet.Software Manager* on page *2*).
   Please note the *Special characteristics of installation in Citrix or terminal server environments* on page *5*.
   2. If necessary, install Lucanet.**Excel-Add-In** for MS Windows (see *Installing Lucanet.Excel-Add-In* on page *9*).

   Note on Citrix: The Lucanet software must be installed on the main image.
2. Define which users should have access to the Lucanet software for the respective provision variant , i.e. remote desktop access, Citrix, or other terminal environment. Provision can be defined for group-wide remote access in the operating system – for Citrix and other terminal environments – via the configuration of software-specific distribution mechanisms.
   Note: For information on defining remote access or distribution, see the corresponding documentation from Microsoft or the documentation for your Citrix or terminal software.
3. Install Lucanet.**Financial Client** (see *Installing Lucanet.Financial Client* on page *6*).

1 Installing Lucanet.Software Manager

From the very outset, Lucanet.**Software Manager** must be installed onto every computer that Lucanet software is to operate on. Lucanet.**Software Manager** administrates all Lucanet programs that run on a computer and all Java versions required by these Lucanet programs.

1.1 Installing under Windows

Prerequisite

The installation of Lucanet.**Software Manager** requires administrator permissions on the relevant computer.

Instructions

1. Lucanet.**Software Manager** can be installed locally on a computer or in a network. Do one of the following:

- **Local installation**, i.e. Installing Lucanet.**Software Manager** onto a single computer.
    1. Download the installation file from the **Online Installation** area at **https://customer.lucanet.com/en/lucanet-25/downloads**.
    2. Start the installation file from your download directory by double-clicking it and follow the instructions of the **setup wizard**.
    After successful installation, Lucanet.**Software Manager** is available on the computer.

- **Network installation**, i.e. install Lucanet.**Software Manager** in the network:
    1. Download the installation file from the **Online Installation** area at **https://customer.lucanet.com/en/lucanet-25/downloads**.
    2. If necessary, use **group guidelines** to install Lucanet.**Software Manager** for a particular group of users within the corporate network.
    Note: To find out how to do this, see the **Microsoft documentation**.

Directories

The following directories are created during installation:

Installation directory: C:\Program Files\Lucanet\Youniverse\
This directory contains the immutable components of Lucanet.**Software Manager** and the JDK. The directory is created during execution of the setup program.
The directory contains the following sub-directories:

Directory	Content
.bin	Contains all executable files that are not intended for direct use by a user
.computer	Contains the unique ID of the installation
.jdk	Contains the current OpenJDK (such as Java Runtime Environment) The JDK_ID is composed of *<vendor>*+*<version>*.
.resources	Contains all program resources of all programs across programs and installations

Program data directory: C:\ProgramData\Lucanet\Youniverse\LNWEB
This directory contains all of the components of Lucanet.**Financial OLAP Server** that can be modified:
The directory contains the following sub-directories:

Directory	Content
.resources	Contains all program resources of all programs across programs and installations
.users/<user>/.manager	- The **config** subfolder contains the user-dependent configuration - The **log** subfolder contains the user-dependent log files

Updating Lucanet.Software Manager

Upon each startup of Lucanet.**Software Manager**, a verification takes place as to whether an update is available. In the event of an update, Lucanet.**Software Manager** is updated automatically via Lucanet.**Financial OLAP Server**.

Note: To ensure that Lucanet.**Software Manager** and the JDK are updated automatically, Lucanet.**Update Service** is entered and activated in the Windows service list during the installation of Lucanet.**Software Manager**. Please note that Lucanet.**Software Manager** and JDK are **no longer** updated automatically if the service is deactivated.

1.2 Installing under macOS

Requirements

- The installation of Lucanet.**Software Manager** requires administrator permissions on the relevant computer.
- Lucanet.**Software Manager** does **not** run on virtual macOS machines!

Instructions

To install Lucanet.**Software Manager** under macOS:

1. Download the installation file from the **Online Installation** area at **https://customer.lucanet.com/en/lucanet-25/downloads**.
2. Switch to the Download directory and double-click the downloaded Setup file.
   The **setup wizard** of Lucanet.**Software Manager** is displayed.
3. Click **Continue** and follow the instructions in the **setup wizard**.
4. After the last installation step, click **Finish**.
   This completes the installation of Lucanet.**Software Manager**.
5. If necessary, change, for example, to the **launchpad** to start Lucanet.**Software Manager**.

Directories

The following directories are created during installation:

Installation directory:	/Applications/LucanetSoftwareManager.app
	The app contains the immutable components of Lucanet.**Software Manager** and the JDK. The app is created during execution of the setup program.
	Under Contents/MacOS, the app file contains the following subdirectories:

Directory	Content
.bin	Contains all executable files that are not intended for direct use by a user
.computer	Contains the unique ID of the installation
.jdk	Contains the current OpenJDK (such as Java Runtime Environment) The JDK_ID is composed of *<vendor>*+*<version>*.
.resources	Contains all program resources of all programs across programs and installations

Program data directory:	/Users/Shared/Lucanet/Youniverse
	This directory contains all of the components of Lucanet.**Financial OLAP Server** that can be modified:
	The directory contains the following sub-directories:

Directory	Content
.resources	Contains all program resources of all programs across programs and installations
.users/<user>/.manager	• The **config** subfolder contains the user-dependent configuration • The **log** subfolder contains the user-dependent log files

Updating Lucanet.Software Manager

Upon each startup of Lucanet.**Software Manager**, a verification takes place as to whether an update is available. In the event of an update, Lucanet.**Software Manager** is updated automatically via Lucanet.**Financial Client**.

Note: Because administration permissions are required to update Lucanet.**Software Manager**, you must first specify the password to receive administrator permissions before the update occur.

1.3 Configuring Lucanet.Software Manager

Information on how to configure Lucanet.**Software Manager** can be found in the online help under **Technical information | Lucanet.Software Manager**.

1.4 Special characteristics of installation in Citrix or terminal server environments

Overview

To install and operate Lucanet.**Software Manager** in Citrix or terminal server environments under MS Windows, it may be necessary to carry out the steps described in this section, depending on the configuration of your environment.

The described steps must be performed, for example, if the configuration files of the Lucanet.**Software Manager** are processed by more than one installation of Lucanet.**Software Manager** (e.g. if the configuration files are stored in a network drive). If the Citrix or terminal servers are retrieving a basic configuration (e.g. from a master image), these steps are not necessary.

Instructions

If necessary, the following steps must be carried out to operate the Lucanet.**Software Manager** in a Citrix or terminal server environment:

- Lucanet.**Software Manager** must be installed on all clients in the Citrix or terminal server environment.
- An identical **computer.ln1** file must exist on all clients in the Citrix or terminal server environment.
- The **manager.ln13** file must be available on all clients in the Citrix or terminal server environment and contain the **programDataDir** system variable defining the path to the directory used as the **program data directory (ProgramDataDir)**.

Generating and distributing the computer.ln1 file

The **computer.ln1** file is created when installing Lucanet.**Software Manager**. Proceed as follows to create and distribute the **computer.ln1** file:

1. Install Lucanet.**Software Manager** on a client of the Citrix or terminal server environment.
2. Navigate to the **%programfiles%\Lucanet\Youniverse\.computer** directory on the client.
3. Copy the **computer.ln1** file.
4. Paste the **computer.ln1** file into the **%programfiles%\Lucanet\Youniverse\.computer** directory on all clients of the Citrix or terminal server environment that have Lucanet.**Software Manager** installed.

Generating and distributing the manager.ln13 file

Proceed as follows to generate the **manager.ln13** file and to specify the path to the **program data directory (ProgramDataDir)**:

1. Open any text editor.
2. Enter the **programDataDir** system variable specifying the directory used as the **program data directory (ProgramdataDir)**. The system variable is entered as follows:
   ```
   programDataDir=%AppData%\Lucanet\Youniverse
   ```
3. [Optional] Enter a value for **installableProgramTypes**. The following values are available:
   - **all**: All program types, i.e. all servers and clients, can be installed in Lucanet.**Software Manager** using this value.
   - **online**: This value restricts the programs installable in Lucanet.**Software Manager** to **online programs**, i. e. to clients that must establish a connection to an existing server (e.g. Lucanet.**Financial Client** and Lucanet.**Server Administrator**).

   Note: If you do not define a value for the **installableProgramTypes** parameter, **all** will be used automatically.
4. Save the file under the name **manager.ln13**.

5. Copy the **manager.ln13** file.

6. Paste the **manager.ln13** file into the **%programfiles%\Lucanet\Youniverse\.computer** folder on all clients of the Citrix or terminal server environment that have Lucanet.**Software Manager** installed.

2 Installing Lucanet.Financial Client

Overview

Lucanet.**Financial Client** is the Lucanet software end user interface that can be installed under MS Windows and macOS.

The following options are available for installation of Lucanet.**Financial Client**.

- Automatic installation of Lucanet.**Financial Client** when opening a database using a Lucanet URL (see *Automatic installation using a Lucanet URL* on page *6*)
- Manual installation of Lucanet.**Financial Client** in Lucanet.**Software Manager** (see *Manual Installation in Lucanet.Software Manager* on page *8*)

Directories

The following directories are created during installation:

Installation directory:	Client applications are administrated by Lucanet.**Software Manager** and therefore do not have their own installation directory.
Program data directory:	The directory can be found under the following path:

Operating system	Path
MS Windows	*<ProgramDataDir>*/.users/*<User>*/*<Server>*/LNFC/*<Database>*
macOS	/Users/Shared/Lucanet/Youniverse/.users/<user>/<Server>/LNFC/<Database>

The directory contains the following sub-directories:

Directory	Content
config	Contains configuration files
link	Contains the desktop icon
log	Contains log files
temp	Temporary directory

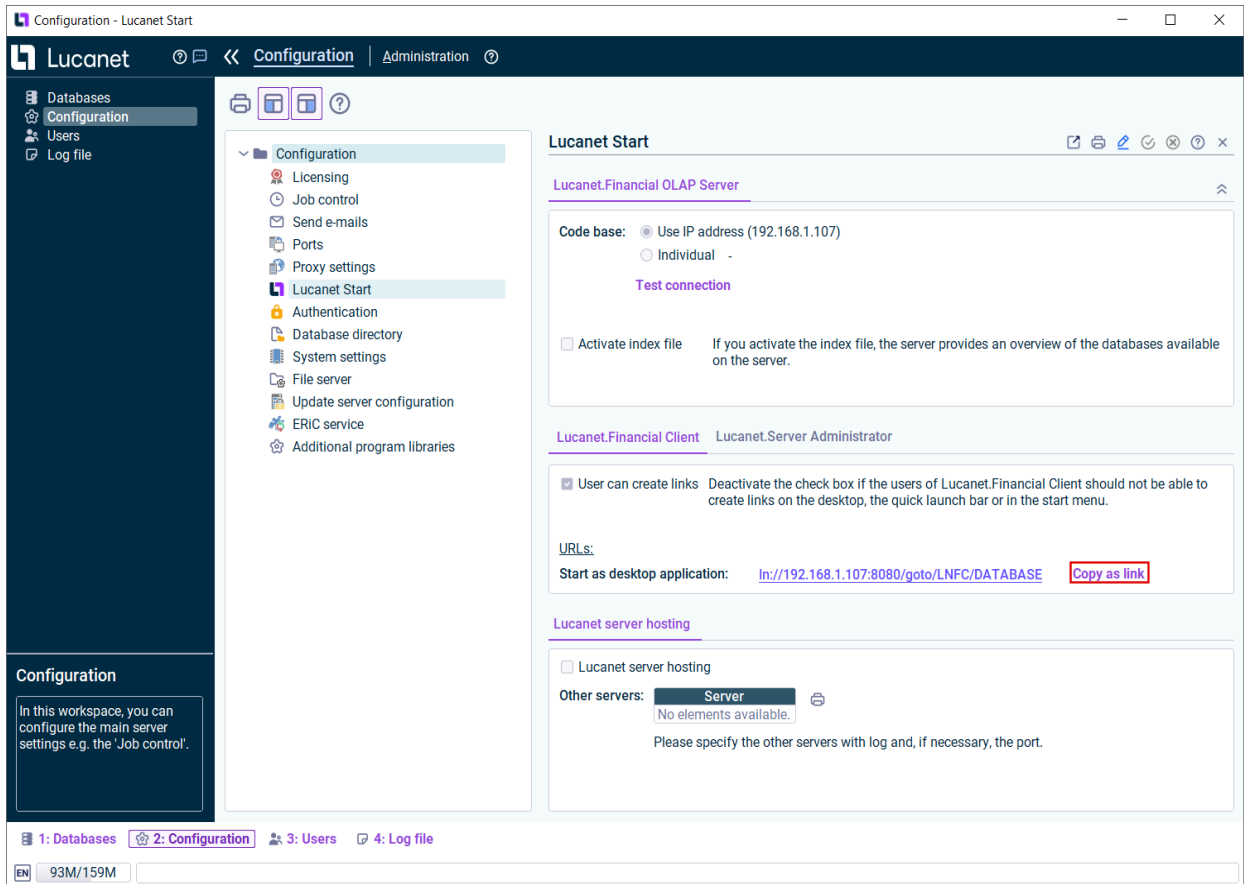## 2.1 Automatic installation using a Lucanet URL

Overview

Lucanet databases can be opened with Lucanet URLs. If no Lucanet.**Financial Client** has been installed for the database entered in the Lucanet URL, a Lucanet.**Financial Client** will automatically be installed when opening the database for the first time, and will be displayed in Lucanet.**Software Manager**.

Instructions

To install Lucanet.**Financial Client** with a Lucanet URL:

1. Open Lucanet.**Server Administrator**.
2. Switch to the **Configuration** workspace and select **Lucanet Start**.
3. In the **URLs** area, click **Copy as link**:

Note: The URL is structured as follows:
ln(s)://<*Lucanet server IP*>:<*Lucanet server port*>/goto/<*Lucanet product*>/<*Lucanet database*>
For Lucanet.**Financial Client**, the Lucanet database must be included in the URL; for Lucanet.**Server Administrator**, specifying the database is optional.

4. If necessary, open a browser.
5. Press **Ctrl+V** to insert the URL.
6. In the URL, replace the **DATABASE** placeholder with the name of the database for which Lucanet.**Financial Client** is to be opened.
7. Press **Enter**.
   Lucanet.**Financial Client** opens with the specified database. Lucanet.**Financial Client** is displayed in Lucanet.**Software Manager** under **My applications**.

Network installation

Send the altered Lucanet URL to the desired recipients. Lucanet.**Financial Client** is installed automatically on every computer that the Lucanet URL is opened on, provided Lucanet.**Software Manager** is already installed on the computer.

2.2 Manual installation in Lucanet.Software Manager

Instructions

To install Lucanet.**Financial Client** in Lucanet.**Software Manager**:

1. Start Lucanet.**Software Manager**.

2. Make sure that Lucanet.Financial **OLAP Server** is operational and can be reached. Please contact your system administrator, if necessary.

3. Click the **Install application** tab in Lucanet.**Software Manager**.

4. Choose **Retrieve application from another server**.

5. Enter the URL of Lucanet.**Financial OLAP Server** in the displayed input field:
   http(s)://*<Lucanet server address>*:*<Lucanet server port>*/

6. Click **Next**.
   Lucanet.**Software Manager** displays the available applications.

7. Choose Lucanet.**Financial Client** and click **Next**.

8. If necessary, change the displayed name in the **Name** input field.

9. In the **Database** input field, specify the desired database that is to be opened in Lucanet.**Financial Client**. The database name must be the name of an existing database:

Database:	My database
Name:	My database@http://localhost:7878
Download from:	Determine fastest connection automatically ▼

10. From the **Download from** drop-down list, select the download server Lucanet.**Financial Client** is to be installed from. The following options are available:

   - Choose **Determine fastest connection automatically** if Lucanet.**Software Manager** shall determine the download server automatically.
     Note: If you want to exclude downloads from one or more servers when selecting the **Determine fastest connection automatically** option, you may have to block the URL(s) in question in your company's firewall (see subheading *Download server for Lucanet software components*). Alternatively, explicitly select one of the specified servers from the **Download from** drop-down list.

   - Choose the desired download server from the drop-down list.

Server URL	Server location
Address of the server specified in step 5	Depending on installation location of Lucanet.**Financial OLAP Server**
https://cdn.lucanet.com/resources/	worldwide (without China)
https://cdn.lucanet.cn/resources/	China

11. Click **Install**.
    Lucanet.**Financial Client** is installed.

12. Click **Finish**.
    Lucanet.**Financial Client** is displayed under **My applications**.

Download server for Lucanet software components

The Lucanet software is distributed via a **CDN (Content Delivery Network)** . During the installation of the Lucanet components, the installation files are downloaded from the server that is the fastest to reach from your location. For the installation files of the Lucanet components, available servers are searched for using the following server URLs:

Server URL	Server location
https://youniverse.lucanet.com/	Germany
https://cdn.lucanet.com/resources/	worldwide (without China)
https://cdn.lucanet.cn/resources/	China

3 Installing Lucanet.Excel-Add-In

Two variants of Lucanet.**Excel-Add-In** are available and able to be used:

- The **separate** Lucanet.**Excel-Add-In** that can be installed under MS Windows (see **Installing the separate Lucanet.Excel-Add-In for MS Windows**)
- The **integrated** Lucanet.**Excel-Add-In**, that is installed automatically for MS Windows and macOS along with the Lucanet software (see *Installing and updating the integrated Lucanet.Excel-Add-In* on page *9*)

Both variants of Lucanet.**Excel-Add-In** can be used by any customer. The decision as to whether the integrated or separate Lucanet.**Excel-Add-In** for MS Windows is used must be made in each individual case on the basis of the comparison in the **Integrated vs. separate Lucanet.Excel-Add-In** document (please also note our recommendation in the last row of the table).

3.1 Installing and updating the integrated Lucanet.Excel-Add-In

Installation	The integrated Lucanet.**Excel-Add-In** is automatically installed under MS Windows or macOS with Lucanet.**Financial Client**. Lucanet.**Excel-Add-In** must then be added to MS Excel and activated. You can find out how to do this in the online help under **Complete Description │ Excel Integration │ Lucanet.Excel-Add-In │ An overview of the integrated Lucanet.Excel-Add-In │ Activating Lucanet.Excel-Add-In in MS Excel**.
Update	The integrated Lucanet.**Excel-Add-In** is automatically updated once Lucanet.**Financial OLAP Server** is updated.