XPression Maps Software Installation Guide

This guide provides details about the XPression Maps software installers, along with instructions on where and how to install them. We recommend reading the entire guide before beginning any installation.

The following topics are discussed in this guide:

XPression Maps Configurations and Installation Files

For XPression Maps to operate correctly, required software components and support files must be installed in specific locations, which is determined by the product configuration and deployment environment.

Use the topics below to review the available configurations and to identify which files are required and where they must be installed.

A detailed description of the files, including their purpose and usage, is also provided in the Installation File Reference Table 8 at the end of this section.

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XPression Maps Server System Configuration 4

XPression Maps Touch System Configurations 5

XPression Maps Designer System Configurations

XPression Maps Designer systems are typically deployed in one of two configurations:

- **Single Designer workstation with a local database** — suited for standalone use, with both the application and the database hosted on the same machine.

- **Multiple Designer workstations with a shared database** — suited for collaborative use, with one workstation hosting the database while others connect to it. This setup ensures consistency across users but requires the database to remain continuously accessible.

Refer to the table below to determine which files must be installed and where, based on your selected configuration.

System Configuration	Installation Location	Installation Files
Single Designer workstation with a local database	Designer workstation	1. Blue Marble Map Database (BMMap4.db) 2. Blue Marble Map Height Model (SRTM1.db) 3. XPression Maps Core Installer 24 4. Release Notes 5. Rockey License*
Multiple Designer workstations with a shared database	Designer workstation that hosts the shared database	1. MariaDB Installer 10 ★ The MariaDB Installer must remain accessible at all times for this configuration. 2. MariaDB_Changes_v2.txt 3. Blue Marble Map Database (BMMap4.db) 4. Blue Marble Map Height Model (SRTM1.db) 5. XPression Maps Core Installer 24 6. Release Notes 7. Rockey License*
	Designer workstations	1. Blue Marble Map Database (BMMap4.db) 2. Blue Marble Map Height Model (SRTM1.db) 3. XPression Maps Core Installer 24 4. Release Notes 5. Rockey License*

* The Rockey License installation file is required only if a license is not being added through the Ross Platform Manager (RPM).

XPression Maps Server System Configuration

XPression Maps Server systems are typically deployed as Multiple Designer workstations with a shared database and access to the **Web Client** application. In this configuration, the database and related services are hosted on the XPression Maps Server, while Designer workstations connect to the server for database access and collaborative operation. This approach ensures centralized data management, consistency across users, and support for multi-user workflows.

Refer to the table below to determine which files to install and their required locations for this configuration.

System Configuration	Installation Location	Installation Files
Multiple Designer workstations with a shared database and access to the Web Client application	Designer workstations	1. Blue Marble Map Database (BMMap4.db) 2. Blue Marble Map Height Model (SRTM1.db) 3. XPression Maps Core Installer [24] 4. Release Notes 5. Rockey License*
	XPression Maps Server	1. MariaDB Installer [10] ★The MariaDB Installer must remain accessible at all times for this configuration. 2. MariaDB_Changes_v2.txt 3. XPression Maps Gateway Installer [17] 4. Blue Marble Map Database (BMMap4.db) 5. Blue Marble Map Height Model (SRTM1.db) 6. XPression Maps Core Installer [24] 7. Release Notes 8. Rockey License*

* The Rockey License installation file is required only if a license is not being added through the Ross Platform Manager (RPM).

XPression Maps Touch System Configurations

XPression Maps Touch systems are typically deployed in one of three configurations:

- **Single Touch Engine without MOS worflow** — suited for individual or small-scale use, where touch interaction is required on a single output and newsroom integration is not needed. Designer workstations connect to a centralized database hosted on the **XPression Maps Touch Engine**.

- **Multiple Touch Engine without MOS workflow** — suited for collaborative or large-scale environments, where touch interaction is required across multiple outputs and newsroom integration is not needed. Designer workstations connect to a centralized database hosted on a designated **XPression Maps Touch Engine**.

- **Multiple Touch Engines with MOS workflow** — suited for collaborative or large-scale environments, where touch interaction is required across multiple outputs and newsroom integration is needed. Designer workstations connect to a centralized database hosted on an **XPression Maps Server**.

Refer to the table below to determine which files must be installed and where, based on your selected configuration.

System Configuration	Installation Location	Installation Files
Single Touch Engine without MOS workflow	Designer workstations	1. Blue Marble Map Database (BMMap4.db) 2. Blue Marble Map Height Model (SRTM1.db) 3. XPression Maps Core Installer [24] 4. Release Notes 5. Rockey License*
	Touch Engine	1. MariaDB Installer [10] ★ The MariaDB Installer must remain accessible at all times for this configuration. 2. MariaDB_Changes_v2.txt 3. XPression Maps Gateway Installer [17] 4. Blue Marble Map Database (BMMap4.db) 5. Blue Marble Map Height Model (SRTM1.db) 6. XPression Maps Core Installer [24] 7. Release Notes 8. Rockey License*

System Configuration	Installation Location	Installation Files
Multiple Touch Engines without MOS workflow	Designer workstations	1. Blue Marble Map Database (BMMap4.db) 2. Blue Marble Map Height Model (SRTM1.db) 3. XPression Maps Core Installer [24] 4. Release Notes 5. Rockey License*
	Touch Engine 1	1. MariaDB Installer [10] ★The MariaDB Installer must remain accessible at all times for this configuration. 2. MariaDB_Changes_v2.txt 3. XPression Maps Gateway Installer [17] 4. Blue Marble Map Database (BMMap4.db) 5. Blue Marble Map Height Model (SRTM1.db) 6. XPression Maps Core Installer [24] 7. Release Notes 8. Rockey License*
	Touch Engine X	1. Blue Marble Map Database (BMMap4.db) 2. Blue Marble Map Height Model (SRTM1.db) 3. XPression Maps Core Installer [24] 4. Release Notes 5. Rockey License*
Multiple Touch Engines with MOS workflow	Designer workstations	1. Blue Marble Map Database (BMMap4.db) 2. Blue Marble Map Height Model (SRTM1.db) 3. XPression Maps Core Installer [24] 4. Release Notes 5. Rockey License*

System Configuration	Installation Location	Installation Files
	XPression Maps Server	1. MariaDB Installer [10] ★ The MariaDB Installer must remain accessible at all times for this configuration. 2. MariaDB_Changes_v2.txt 3. XPression Maps Gateway Installer [17] 4. Blue Marble Map Database (BMMap4.db) 5. Blue Marble Map Height Model (SRTM1.db) 6. XPression Maps Core Installer [24] 7. Release Notes 8. Rockey License*
	Touch Engine(s)	1. Blue Marble Map Database (BMMap4.db) 2. Blue Marble Map Height Model (SRTM1.db) 3. XPression Maps Core Installer [24] 4. Release Notes 5. Rockey License*

* The Rockey License installation file is required only if a license is not being added through the Ross Platform Manager (RPM).

Installation File Reference

This table provides a comprehensive reference to the installation files required for deploying the XPression Maps software suite. Each file is listed with its specific function, role in the installation process, and associated dependencies. Where applicable, links to related procedures and configuration steps are included to support correct setup and integration. Use this reference as a guide to ensure all mandatory files are identified, installed, and configured properly for a successful deployment.

Blue Marble Map Database: BMMap4.db

The **Blue Marble Map Database** file contains a collection of satellite images that depict the Earth in true color. This file is needed during the installation of the XPression Maps Core software. See Installing the XPression Maps Core Software 24 for more information.

Blue Marble Height Model: SRTM1.db

The **Blue Marble Height Model** file is used to provide elevation data to the Blue Marble map imagery to create a visually realistic 3D representation of Earth's surface. This file is needed during the installation of the XPression Maps Core software. See Installing the XPression Maps Core Software 24 for more information.

MariaDB Server: mariadb-11.4.5-winx64.msi

The **mariadb-11.4.5-winx64.msi** file launches the **MariaDB Setup Wizard**, which guides you through the installation and configuration of the **MariaDB server**. This server manages and provides centralized access to shared databases used by multiple XPression Maps instances. See Installing the MariaDB Server 10 for more information.

MariaDB_Changes v2.txt

This document provides step-by-step instructions for completing a mandatory configuration that must be performed the first time XPression Maps is launched. See Adding a required setting to the MariaDB service's my.ini file 16 for more information.

Release Notes: XpressionMapsReleaseNotes.txt

This document identifies major functional changes and improvements that have been added to this version of the XPression Maps software since the last official product release.

Rockey License: RockeyLicense_XXXXXXXX.xml

The **RockeyLicense_XXXXXXXX.xml** file is an encrypted key file that, when paired with a matching XPression USB dongle, activates the XPression Maps license on the host computer by enabling secure access to its software components. This method provides an alternative to using RPM-based licenses. See Activating an XPression Maps License 33 for more information.

XPression Maps Core Installer: XPressionMaps_V4.X.X.XXX_Installer.exe

Installs the XPression Maps Core software, including the **XPression Maps** application, as well as other software components and files required to support optional data automation and interactive touch functionality. The **XPression Maps Exchange Tool** and the **Map Data Configurator** application are also installed with the XPression Maps Core software. See Installing the XPression Maps Core Software 24 for more information.

XPression Maps Gateway Installer: XPression Maps Gateway_V4.X.X.XXX_Installer.exe

Installs the **XPression Maps Gateway** software, which is the web server that allows the XPression Maps **Web Client** and **Touch Controller**, to connect to and interact with the XPression Maps system. See Installing the XPression Maps Gateway Software 17 for more information.

XPression Maps RPM License Manager Installer: XPressionMapsRPMLicenseManager_Installer.exe

Installs the XPression Maps RPM License Manager, which allows you to manage and activate XPression Maps licenses through the Ross Platform Manager, providing access to license activation and feature management. See Activating an XPression Maps License 33 for more information.

Installing the MariaDB Server

The MariaDB server provides centralized access to shared databases used by multiple XPression Maps instances.

In XPression Maps Server [4] and Multiple Touch Engines with MOS workflow [5] configurations, the MariaDB Server is generally installed on the XPression Maps Server.

In configurations that do not use MOS but include multiple XPression Maps Designers, or a combination of XPression Maps Designers and an XPression Maps Touch system, the MariaDB server must be installed on a computer that is always accessible to the other instances and remains powered on at all times.

Perform the following procedures to install and configure the MariaDB server.

Installing the MariaDB Server [10]

Adding a required setting to the MariaDB service's my.ini file [16]

★ When installing multiple XPression Maps components, they must be installed in the following order: **MariaDB Server**, **XPression Maps Gateway**, and finally **XPression Maps Core** software.

To install and configure the MariaDB server:

1. Move a copy of the **mariadb-11.4.5-winx64.msi** file to the centralized host computer.

2. Double-click the **mariadb-11.4.5-winx64.msi** file to run the **MariaDB Setup Wizard**.

3. On the **Welcome** page, select **Next**.
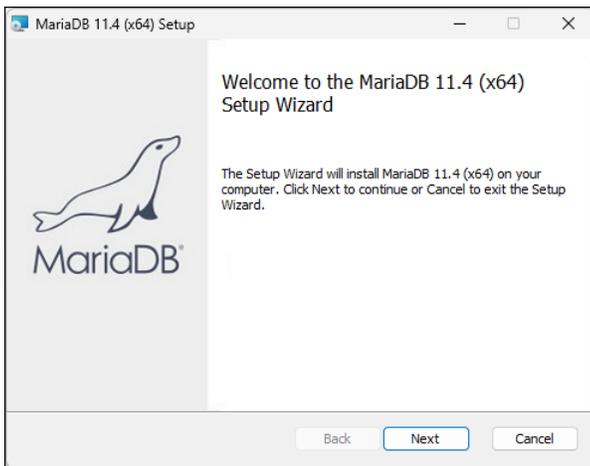
MariaDB Setup Wizard - Welcome

4. On the **End-User License Agreement** page, select the checkbox and select **Next**.
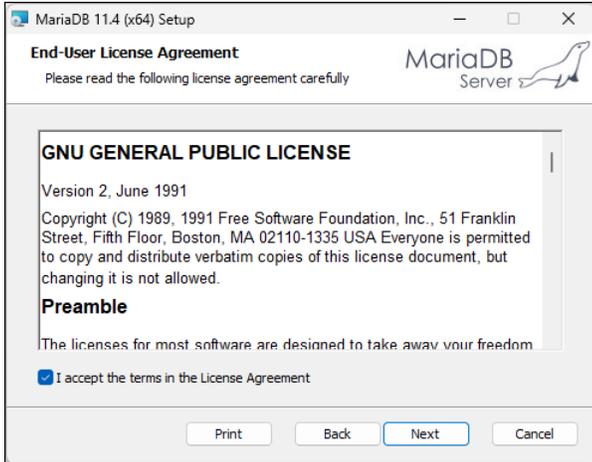
MariaDB Setup Wizard - License Agreement

5. On the **Custom Setup** page, leave all of the default settings unchanged and select **Next**.
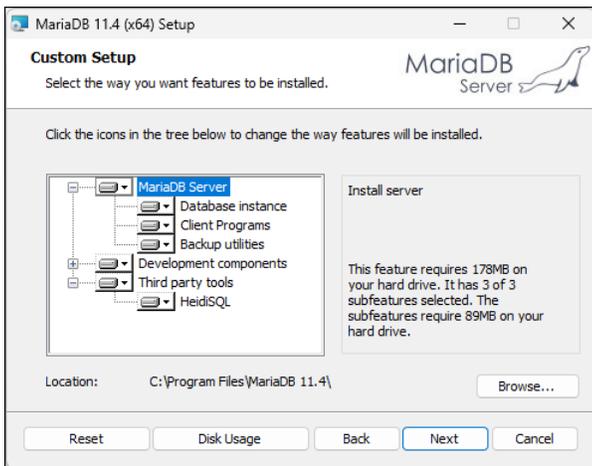
MariaDB Setup Wizard - Custom Setup

6. On the **Default Instance Properties** page, do the following:

   a. Set and confirm the **password** for the **root** user.

   ★ The root password created here must be saved in a secure location, as it will be required later in the installation process.

   b. Select the checkbox for **Enable access from remote machines for 'root' user**.

   c. Select the checkbox for **Use UTF8 as default server's character set**.

   d. Select **Next**.

MariaDB Setup Wizard - Default Instance Properties

7. On the **Default Instance Properties** page, leave all of the default settings unchanged and select **Next**.
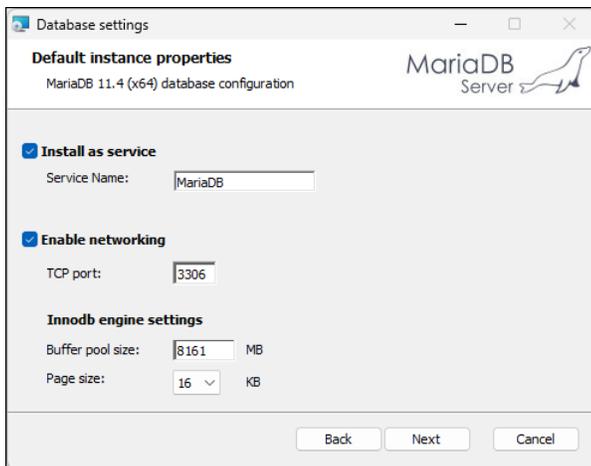
MariaDB Setup Wizard - Default Instance Properties

8. On the **Ready To Install MariaDB** page, select **Install**.
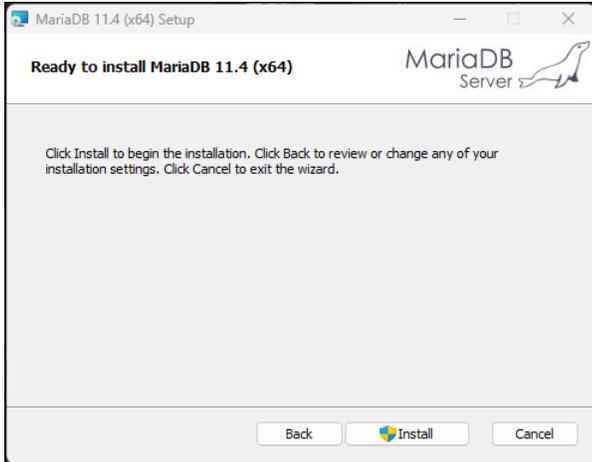
MariaDB Setup Wizard - Ready To Install MariaDB

9. On the **Completed the MariaDB Setup Wizard** page, select **Finish**.
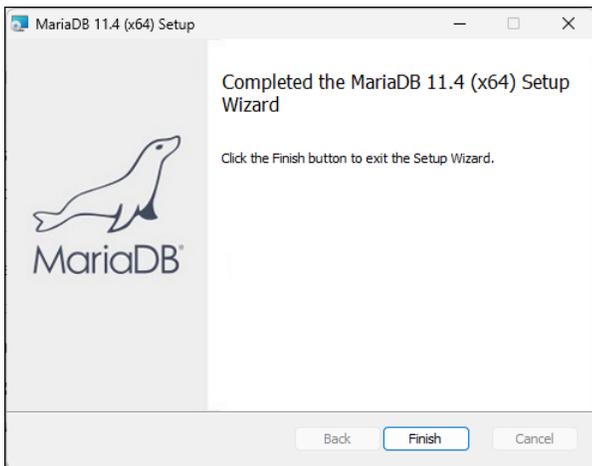
*MariaDB Setup Wizard - Completed the MariaDB Setup Wizard*

10. Change the MariaDB service's **Log On** property from **NT SERVICE\MariaDB** to the **Local System account**.

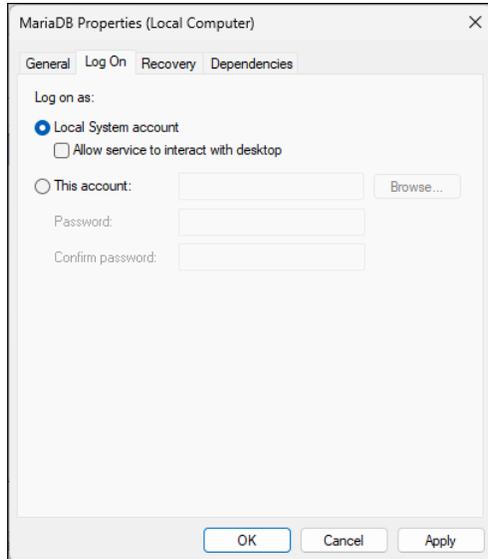a. Open the Windows **Services** application and navigate to the **MariaDB** service.
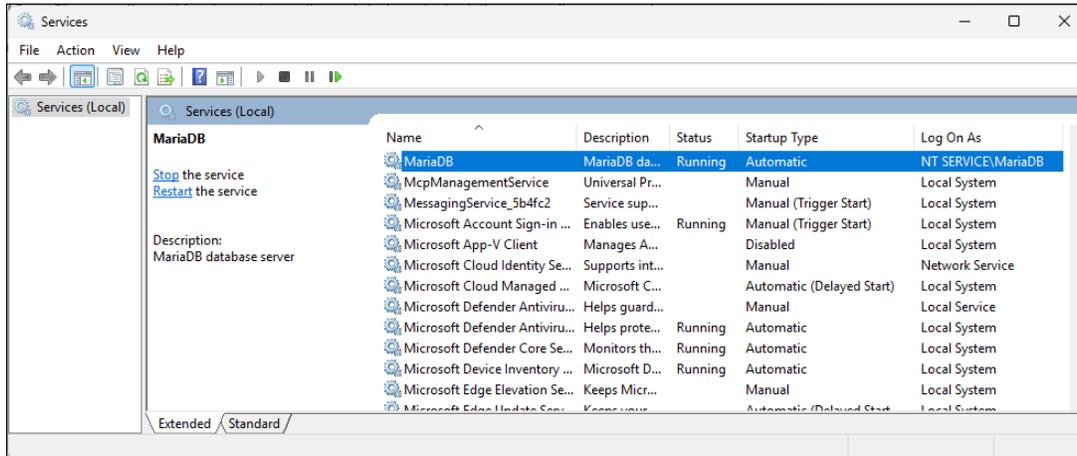
Services Window

b. Right-click on the **MariaDB** service and select **Stop**.

c. Right-click on the **MariaDB** service and select **Properties**.

d. In the **MariaDB Properties** window, select the **Log On** tab.
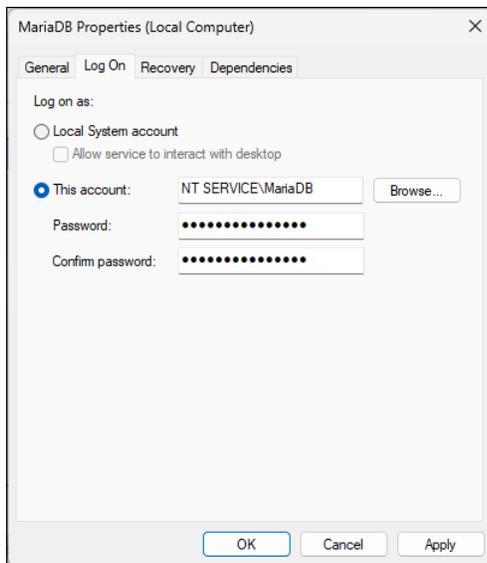
e. In the **Log on as** section, select the **Local System account** option and then select **OK**.

f. In the **Services** window, right-click on the **MariaDB** service and select **Start**.

g. Close the Windows **Services** window.

To add a required setting to the MariaDB service's my.ini file:

1. Open the Windows **Services** application and navigate to the **MariaDB** service.
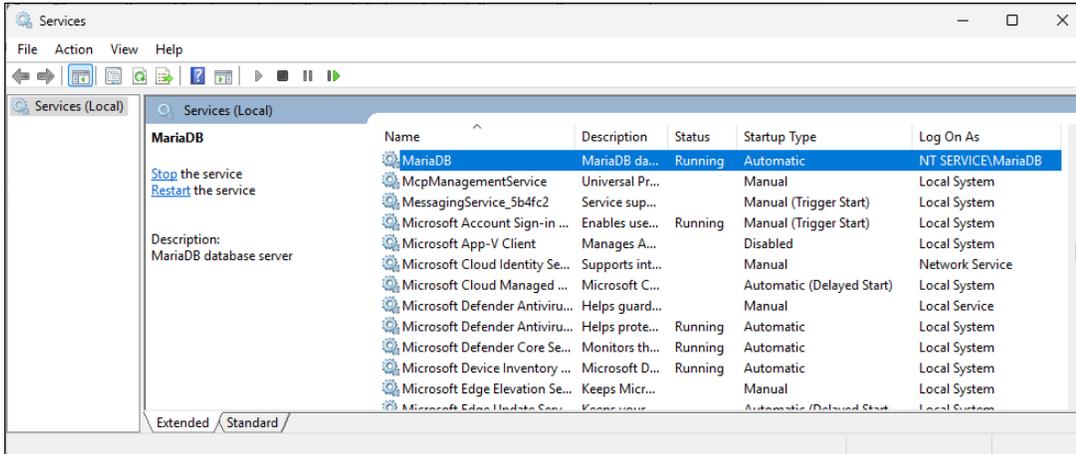
Services Window

2. Right-click on the **MariaDB** service and select **Stop**.

3. In **File Explorer**, navigate to **C:\Program Files\MariaDB 11.4\data** and open the **my.ini file.**

   ★The required changes to the **my.ini** file are also documented in the MariaDB_changesv2.txt 8 file, which is provided in the installer package. Refer to this file if you need a complete reference of the configuration steps.

4. Add the following setting below the **character_set_server** setting: `max_allowed_packet = 500M`.
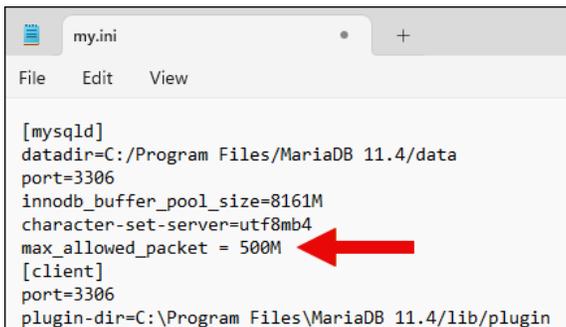
5. Save the changes and close the **my.ini** file.

6. In the **Services** window, right-click on the **MariaDB** service and select **Start**.

7. Close the Windows **Services** window.

Installing the XPression Maps Gateway Software

The **XPression Maps Gateway** is the web server that allows XPression Maps to connect and interact with the **HTML5 Client** in the XPression Maps Server (MOS) workflow, as well as between XPression Maps Touch and the **Touch Controller** in the XPression Maps Touch (Interactive) workflow.

The installation location of the XPression Maps Gateway depends on the system configuration and workflows. See XPression Maps Configurations and Installation Files ☐2☐ for more information.

★ When multiple XPression Maps software components are required to be installed on the same computer, they must be installed in the following order: **MariaDB Server**, **XPression Maps Gateway**, and finally **XPression Maps Core software**.

To install, update, or upgrade the XPression Maps Gateway software:

1. Copy the XPression Maps installation files to the local file system.

2. Open the folder where the installation files have been stored.

3. Double-click the **XPression Maps Gateway_VX.0.0.XXXXX_Installer.exe** file to open the **XPression Maps Gateway Install Wizard**.

4. On the **Welcome** page, select **Next >**.

Gateway Setup Wizard - Welcome

5. On the **License Agreement** page, read the license agreement and select **I Agree**.

Gateway Setup Wizard - License Agreement

6. On the **Folder location** page, set the directory location for the **Data Folder** and select **Next**.

★ If a D: drive is available, the installer will automatically set the path to use the D: drive. If not, either use the default **Data Folder** location or select **Browse** to select a different location.
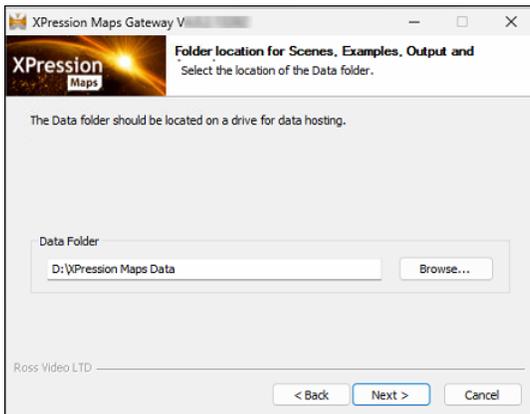

Gateway Setup Wizard - Folder Location

7. On the **Choose Install Location** page, use the default **Destination Folder** location or select **Browse** to choose another location and then select **Install**.
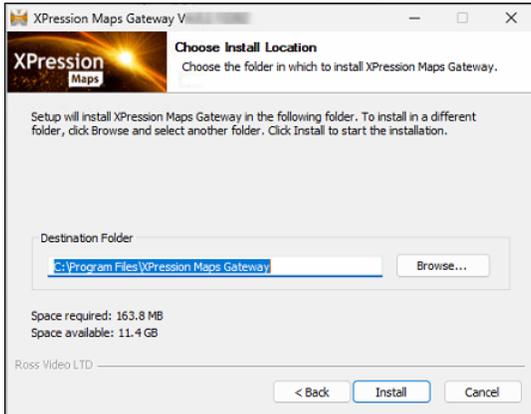
Gateway Setup Wizard - Choose Install Location

The **Installing** page opens and the installation begins.

8. Once the installation has successfully completed, in the **Installation Complete** page, select **Next**.
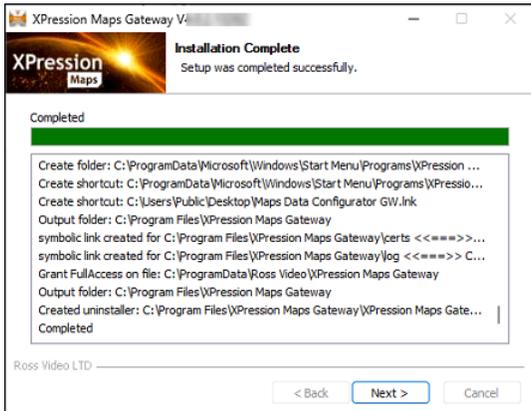
Gateway Setup Wizard - Installation Complete

The **Map Data Configurator** and **Server Details** window opens.

- In the **Database** section, ensure that the **Database** settings point to the host of the MariaDB server.

Map Data Configurator - Server Details Window

- ➢ **Server Name** — The hostname or IP address of the computer hosting the MariaDB server.
- ➢ **Port** — The default port 3306 unless otherwise specified.
- ➢ **User Name** — The database user account name.
- ➢ **User Password** — The password associated with the user name.
- ➢ **User IAM** — This checkbox should be unchecked unless your database access is managed through an external identity service.
- ➢ **Admin Name** — The administrative username required to make changes to the database configuration.
- ➢ **Admin IAM** — This checkbox should be selected only if administrator access requires authentication through an identity management system.

- In the **Gateway** section, ensure that the **Server Name** field is set to the hostname or IP address of the computer where the XPression Maps Gateway is installed.

★ The **Gateway** section is only required when using a shared database in MOS workflows. For local installations with a local database, this section does not apply and will not be displayed.

9. Select **OK**.

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10. In the **Admin Password** window, enter the database root password you created earlier to apply these settings.

★ The root password entered here must match the password created during installation. Ensure it is stored securely, as it will be needed for subsequent configuration and access.

11. In the **Create Default User** window, select **Yes** to create the default user that is required for the XPression Maps HTML5 Client and grant them access to the database.

12. In the **Grant User Access** window, select **Yes** to update the user access on the server.

13. In the **Map Data Configurator** window, set up the two HTML5 databases with the Maria DB server so that they can be shared.

★ This step should only be performed during an initial installation; not during upgrades.
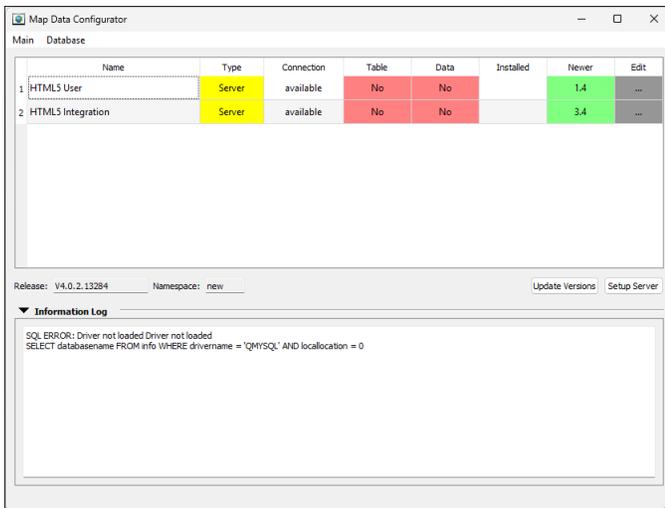
Map Data Configurator - Initial Listing

a. Select **Setup Server** to open the **Server Setup Process** window.
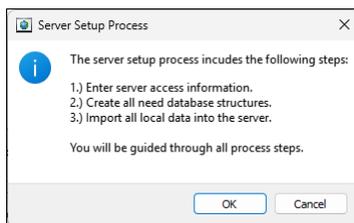
Server Setup Window

b. Select **OK**.

c. In the **Server Details** window, confirm that the Database and Gateway settings 17 point to the host of the MariaDB server and XPression Maps Gateway server, then select **OK**.

d. In the **Gateway Setup** window, select **Yes** to create the **fullresclips** table.

e. In the **Map Data Configurator** window, ensure that the entries for both of the HTML5 databases appear like the image below (**Type** = **Server**, **Table** = **Yes**, **Data** = **Yes**).
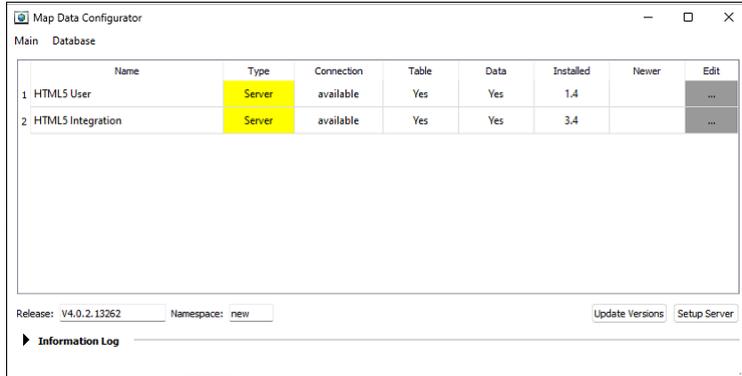
Map Data Configurator - Setup Server Completed

f. Close the **Map Data Configurator** window.

14. On the **Maps Gateway Configuration** page, select **Next**.

Gateway Setup Wizard - Maps Gateway Configuration

On the **Maps Gateway Service** page, confirm that the **Maps Gateway Service** was started.

a. If the last entry confirms that the service was started successfully, select **Next**.

b. If the last entry confirms that the service was not started, select **Restart** to make another attempt at starting the Gateway service.

15. Once the service has been started successfully, select **Next**.
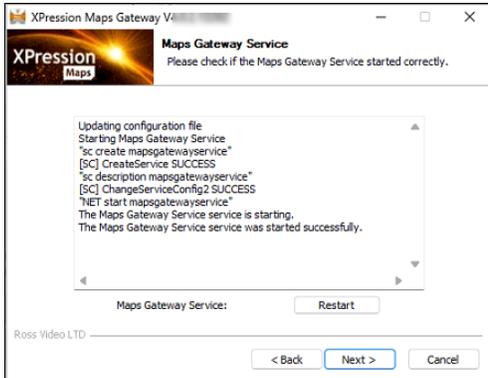
Gateway Setup Wizard - Maps Gateway Service

★ If any errors occur during service startup, resolve the issue and then select **Restart** to attempt starting the service again.

16. On the **Completing XPression Maps Gateway Setup** page, select **Finish** to close the **XPression Maps Gateway Install Wizard**.
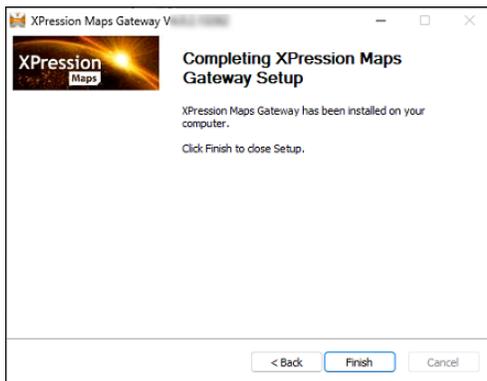
Gateway Setup Wizard - Completing XPression Maps Gateway Setup

Installing the XPression Maps Core Software

The XPression Maps Core Software installer (XPressionMaps_V4.X.X.XXX_Installer.exe) provides the ability to install the **XPression Maps** application, as well as other software components and files required to support optional data automation and interactive touch functionality. The **XPression Maps Exchange Tool** and the **XPression Maps Data Configurator** application are also installed with the XPression Maps Core software.

The installation location of the XPression Maps Core software depends on the system configuration and workflows. See XPression Maps Configurations and Installation Files 2 for more information.

For additional installation guidelines, please contact Ross Video Technical Support.

★ When multiple XPression Maps software components are required to be installed on the same computer, they must be installed in the following order: **MariaDB Server**, **XPression Maps Gateway**, and finally **XPression Maps Core software**.

To install the XPression Maps Core software and its related components:

1. Copy the XPression Maps installation files to the local file system.

2. Open the folder where the installation files have been stored.

3. Double-click the **XPressionMaps_VX.X.X.XXXXX_Installer.exe** file to open the **XPression Maps Install Wizard**.

4. On the **Welcome** page, select **Next**.
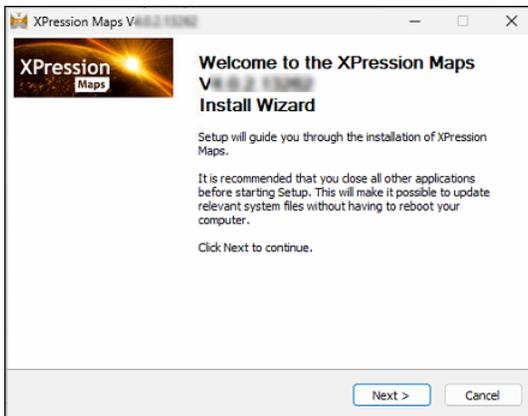
XPression Maps Install Wizard - Welcome

5. On the **License Agreement** page, read the license agreement and select **I Agree**.
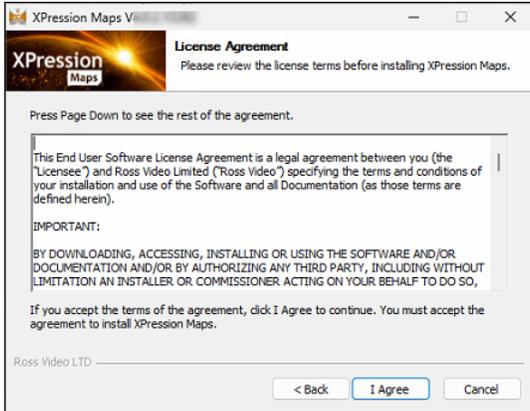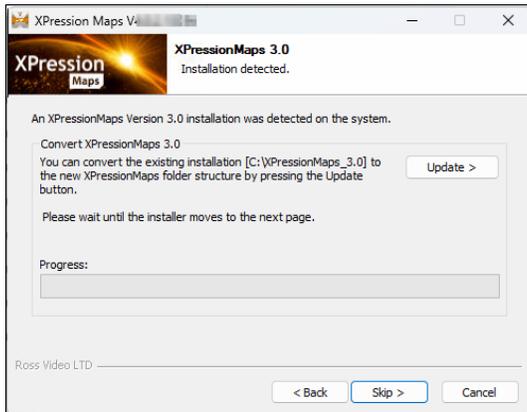

XPression Maps Install Wizard - License Agreement

If a copy of the XPression Maps 3.0 software is already installed on the computer, the **XPression Maps 3.0** page opens.

6. Select **Update>** to copy all data and configuration files from the version 3.0 installation to the new 4.0 format **(C:\ProgramData)**.

   OR

   Select **Skip >** to install only the data and configuration files from the version 4 installer without using files from the 3.0 installation.

   The files will be installed in **C:\ProgramData** and all registry entries will also be updated to the 4.0 format.

XPression Maps Install Wizard - Installation Detected

7. On the **Choose Components** page, select the XPression Maps Core software components to be installed.

   a. From the drop-down list, select one of the following presets.

      ➢ **Full Install** — Automatically selects the components required to install the XPression Maps Core software.

      ➢ **Custom** — Select when you want to install or update only specific components. Once chosen, select or clear the individual components from the list.

     AND/OR

     Select the individual components to be installed. Clear its checkbox to prevent the installation or updating of a component.

      ➢ **XPression Maps** — Installs the core XPression Maps application (**XPression Maps**) and services.

      ➢ **Config & Data** — Installs the configuration data files required by the core XPression Maps application.

      ➢ **Blue Marble Data** — Installs components required to integrate the Blue Marble Map database (**BMMap4.db**) and height model files (**SRTM1.db**) used by the XPression Maps main application.

      ➢ **Automation** — Installs components required to integrate and perform dynamic data sourcing in XPression Maps.

      ➢ **Interactive** — Installs the files required to operate the XPression Maps software in the **Interactive Mode.**

      ➢ **Interactive Projects** — Installs the default Project files that can be used when the XPression Maps software is set to **Interactive Mode**.

      ➢ **Scenes** — Installs a set of sample XPression Maps scenes that can be used as templates or examples of basic maps scenes.

      ➢ **Artwork** — Installs a set of sample artwork (drawings and interactive buttons) that can be used to quickly get started creating scenes.

     ★ An asterisk (*) indicates the component is already installed and up to date and the checkbox will be cleared. Select the checkbox to update the component.
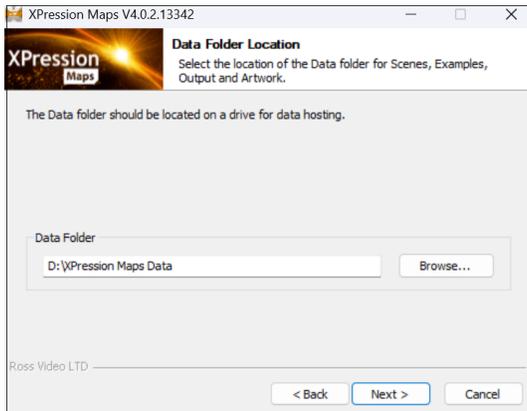
   b. Select **Next**.
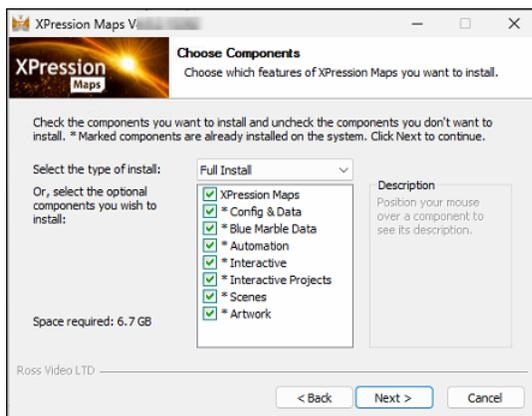
XPression Maps Install Wizard - Choose Components

8. On the **Data Folder Location** page, use the default **Data Folder** location or select **Browse** to choose another location and then select **Next**.

   The **Data Folder** stores key XPression Map files, including artwork, clips, database backups, output, projects (and projects trash), scenes, and scene templates.
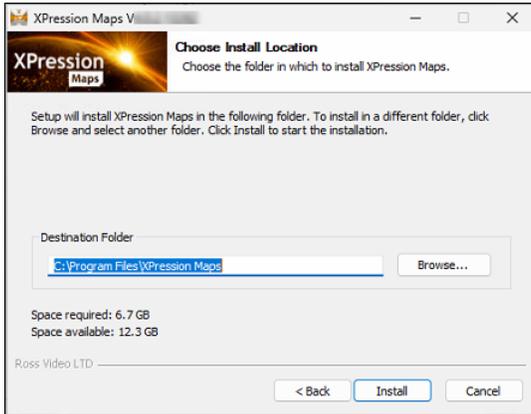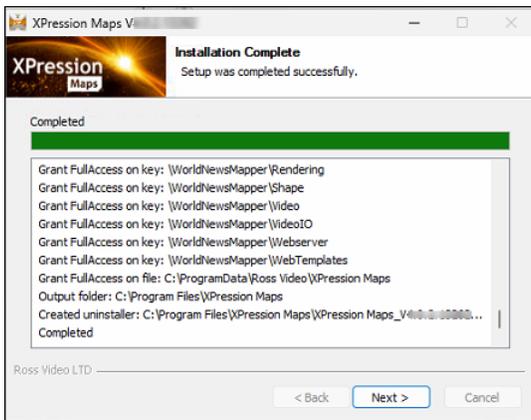

XPression Maps Install Wizard - Data Folder Location

9. On the **Integrate the Blue Marble map database** page, assign the required Blue Marble map files (this only appears if the Blue Marble Data option is selected).

   ★ If the **Blue Marble Data** option has an asterisk (*) from a previous installation, this step is not required.

   ★ If the **BMMap4.db** and **SRTM1.db** files are located in the same folder as the installer (or in its parent folder), the file paths will be automatically populated into the dialog.

   a. In the **Blue Marble Map File** field, select **Browse** to locate the **BMMap4.db** file and then select **Open**.

   b. In the **Height Model File** field, select **Browse** to locate the **SRTM1.db** file and then select **Open**.

   c. Select **Next**.

   ★ These files must be installed from a location on the local file system as the XPression Maps system references this file to render. For new installations, the files are provided in the XPression Maps Installation package.
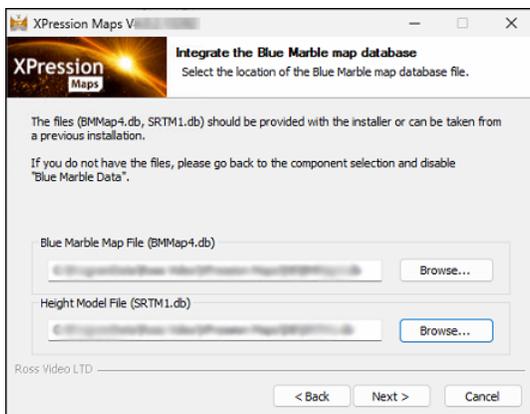
XPression Maps Install Wizard - Integrate the Blue Marble Map Database

10. On the **Choose Install Location** page, use the default **Destination Folder** location or select **Browse** to choose another location and then select **Install**.

XPression Maps Install Wizard - Choose Install Location

The **Installing** page opens and the install begins.

Once the installation has successfully completed, the **Installation Complete** page opens.

11. Select **Next**.

XPression Maps Install Wizard - Installation Complete

The **Map Data Configurator** window opens and is automatically populated with a list of databases.

If the system detects that any databases are missing, the **Database Missing** window appears.

- Select **Yes** to create the databases on the local system.

Ensure all databases required to share content are assigned a **Type** (**Server** or **Local**) and that their data is available on the shared **MariaDB server**.

To initialize the map data configurator for a new installation of XPression Maps Core:

★ **WARNING** - This procedure pushes database content to the shared server, which overwrites any existing data. Only perform this procedure the first time XPression Maps Core software is installed on the first instance of a new multiple XPression Maps Designer system.

1. Select **Setup Server** to open the **Server Setup Process** window.
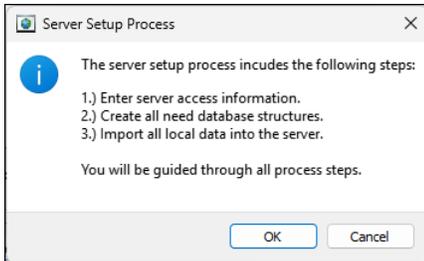
Server Setup Window

2. Select **OK**.

   The **Server Details** window opens.

   • In the **Database** section, ensure the **Database** settings point to the host of the **MariaDB server**.

Map Data Configurator - Server Details Window

   ➢ **Server Name** — The hostname or IP address of the computer hosting the MariaDB server.

   ➢ **Port** — The default port 3306 unless otherwise specified.

   ➢ **User Name** — The database user account name.

   ➢ **User Password** — The password associated with the user name.

> **User IAM** — This checkbox should be unchecked unless your database access is managed through an external identity service.

> **Admin Name** — The administrative username required to make changes to the database configuration.

> **Admin IAM** — This checkbox should be selected only if administrator access requires authentication through an identity management system.

- In the **Gateway** section, ensure that the **Server Name** field is set to the hostname or IP address of the computer where the XPression Maps Gateway is installed.

★ The **Gateway** section is only required when using a shared database in MOS workflows. For local installations with a local database, this section does not apply and will not be displayed.

3. Select **OK**.

4. In the **Admin Password** window, enter the password of the database root user to apply these settings.

★ The root password entered here must match the password created during installation. Ensure it is stored securely, as it will be needed for subsequent configuration and access.

All the shared databases are updated and display **Server** in the **Type** column.

5. Close the **Map Data Configurator** window.

When updating an existing instance or installation on subsequent instances:

★ **IMPORTANT** - This procedure only updates the databases' shared access (**Type**) setting. It does not update or overwrite database content on the shared server.

1. Select a row in the table and press Ctrl+A to select all rows.

2. Right-click within the Type column of the table and select Set Server.

   All the shared databases are updated to **Server** in the **Type** column.
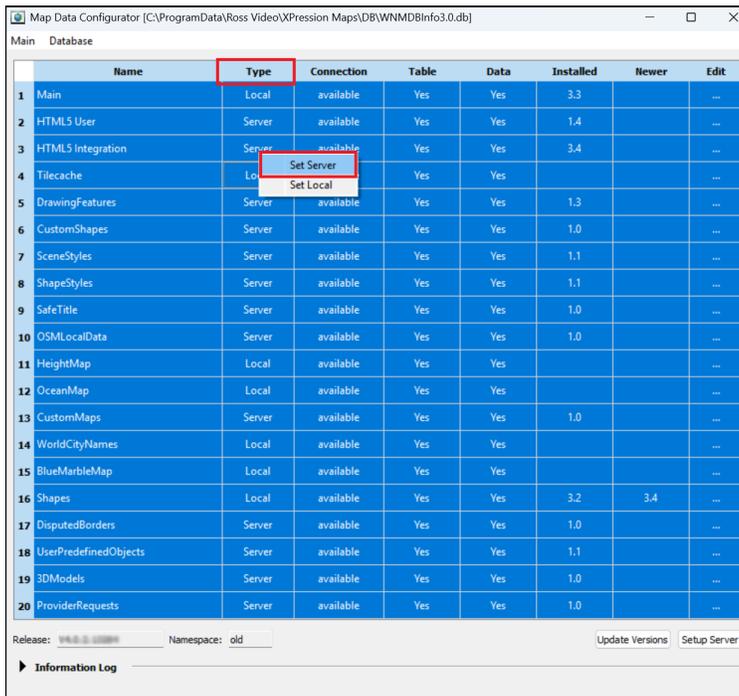
Map Data Configurator - Set Server

3. Close the **Map Data Configurator** window.

4. On the Installer's **Maps Data Configuration** page, confirm the details for accessing the maps database, then select **Next**.
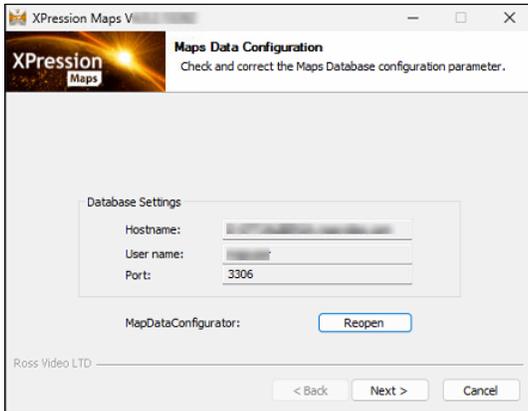
XPression Maps Install Wizard - Map Data Configuration

5. On the **Completing XPression Maps Setup** page, select **Finish** to close the XPression Maps Install Wizard.
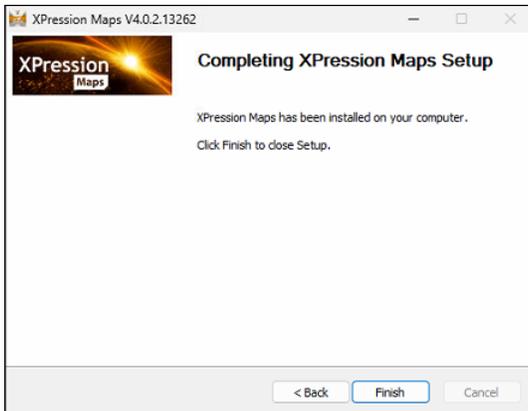
XPression Maps Install Wizard - Completing XPression Maps Setup

Activating XPression Maps Licenses

A valid XPression Maps license must be activated before you can use XPression Maps or any of its components. If no valid license is detected, the XPression Maps application will display an error at launch and display a watermark on the **Canvas**.

Licenses can be activated using one of the following methods:

Activating an XPression Maps License Managed by the Ross Platform Manager (RPM) 33

Activating XPression Maps Licenses Using a Dongle and Key File 46

Activating XPression Maps Licenses Managed by the Ross Platform Manager (RPM)

The **Ross Platform Manager (RPM)** is used for centralized license management. Licenses are stored and managed on an RPM instance within your network, and once a product key is added and activated, XPression Maps can be configured to connect to RPM for validation during startup.

For more details on using and configuring RPM, refer to the Ross Platform Manager User Guide.

The process of activating XPression Maps licenses involves the following:

Adding XPression Maps Product Keys to RPM 33

Activating an XPression Maps license managed by RPM 33

Assigning specific features to a local computer 38

In some environments, licensing can be managed centrally by sharing a single RPM product key across multiple XPression Maps systems. This approach enables multiple workstations to access common licensed features and shared data while simplifying license distribution and management.

For more information, see Configuring Multiple XPression Maps Systems with a Single RPM Product Key. 39

To add XPression Maps product keys to RPM:

1. Open the **Ross Platform Manager**, and in the **Product Key Manager** select the 🗝️ **Add Product Key** icon.

   The **Add Product Key** window opens.
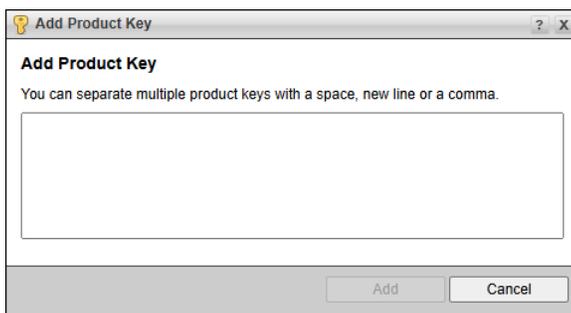
Add Product Key Window

2. Paste the 15-digit product key provided by Ross Video in the **Product Key** field.

   - You may add up to 100 product keys at once.

   - Separating each 15-digit product key with a delimiter (either a space, a new line, or a comma).

   ★ Ensure no delimiter follows the last product key. A trailing delimiter will prevent the **Add** button from being usable.

3. Select **Add**.

   - If any product keys entered are invalid, an error message displays followed by a list of the invalid product keys.

   - Valid product keys appear in the **Product Key Manager** table with the status **Not Activated**.

Product Key Manager

4. Double-click a product key in the **Product Key Manager** table.

   The **Product Key View** opens.

5. In the **Product Key View**, while the appropriate product key is selected, select the Request Activation icon.

   The **Activate Product Key** window opens.
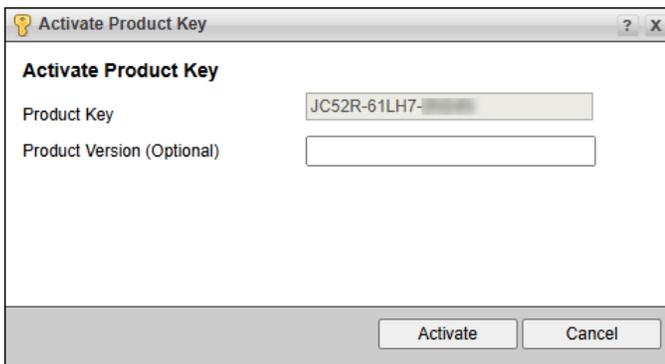
Activate Product Key Window

6. Enter the **Product Version** for the current product instance.

7. Select **Activate**.

8. Confirm that the product key status now shows Activated (highlighted in green) in the **Product Key Manager**.
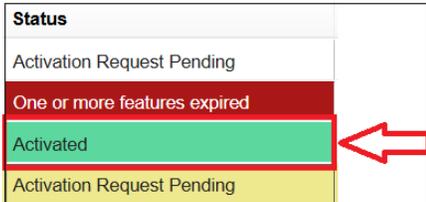

Product Key Manager - Activated Status

9. Repeat from steps 4-8 for each additional product key.

**To activate an XPression Maps license managed by the Ross Platform Manager:**

1. Ensure you have a copy of your XPression Maps product key.

2. Open the **XPression Maps RPM License Manager**:

   a. On the computer hosting XPression Maps, go to **C:\Program Files\XPression Maps\bin64**.

   b. Double-click **XPressionMapsRPMLicenseManager.exe**.
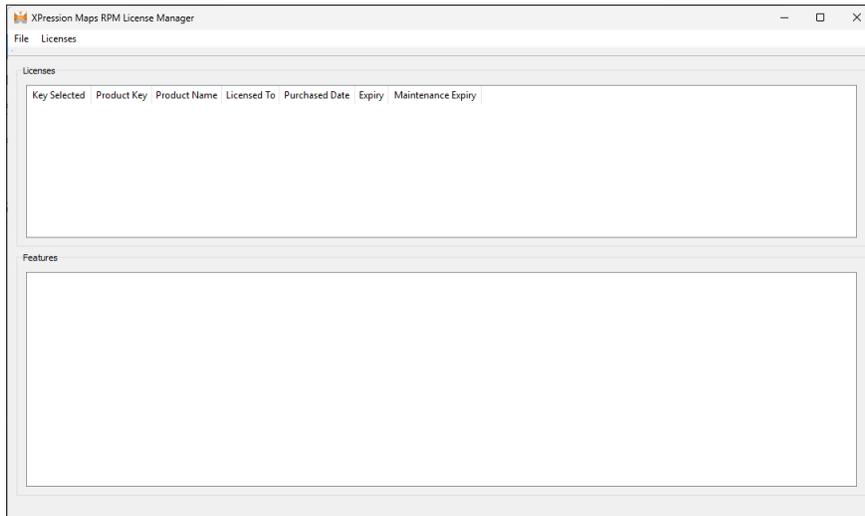
XPression Maps RPM License Manager

3. Configure the connection to the **Ross Platform Manager**.

   a. Open **File>Preferences** and select the **License** tab.
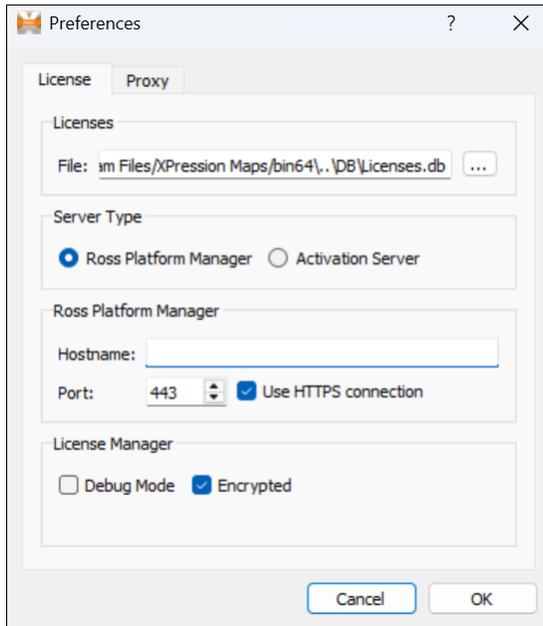
   XPression Maps RPM License Manager - Preferences - License

   b. In the **Licenses** section, confirm or enter the path to license database file (**C:\Program Files\XPression Maps\DB\Licenses.db**).

   c. In the **Server Type** section, select **Ross Platform Manager** to connect to the instance of RPM which resides locally in your environment.

   d. In the **Ross Platform Manager** section, in the **Hostname** field, enter the url of the RPM instance.

   e. Select **OK**.

   ★ Each computer connecting to RPM records its local hostname when consuming a license. This allows tracking of which machine is using which features. When one product key is shared across multiple computers, RPM displays each hostname separately in the license allocation table.

4. Add your license key from RPM to the XPression Maps RPM License Manager.

   a. In your **Ross Platform Manager**, go to the **Product Key Manager** and select an XPression Maps license. Double-click the license and select **Copy Product Key** to copy the code to the clipboard.

b. In the **XPression Maps RPM License Manager**, open the **Add Product Key** window by selecting **Licenses > Add Product Key**.
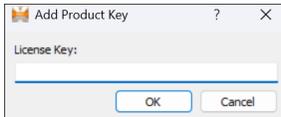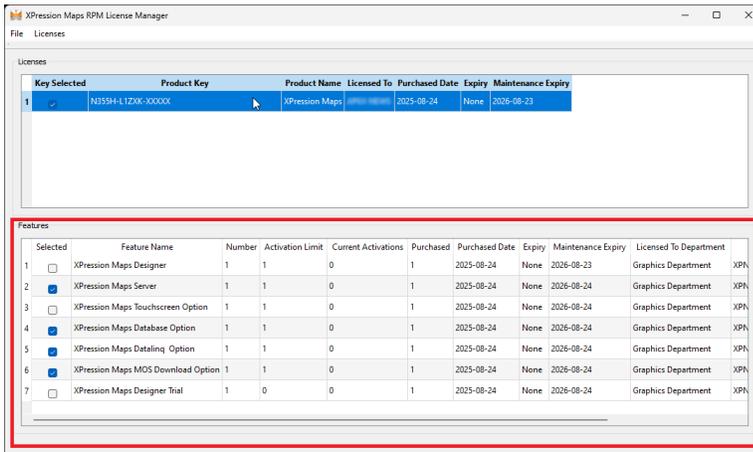

XPression Maps RPM License Manager - Add Product Key

c. Paste the product key into the **License Key** field.

d. Select **OK**.

The product key appears in the **Licenses** table.

(Optional) Select the product key in the **Licenses** table to display a listing of its licenses in the **Features** section below.
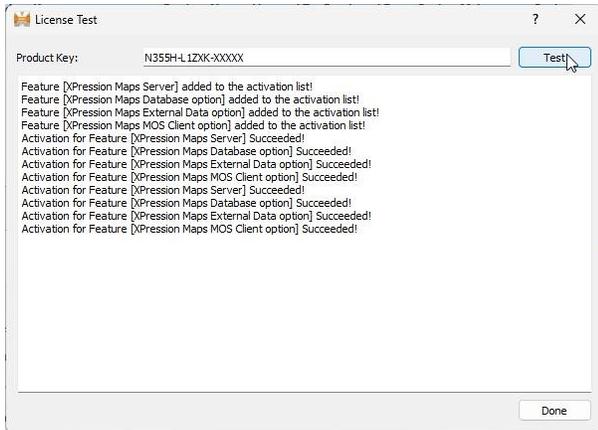

XPression Maps RPM License Manager - Features

5. Validate the activation of your license by performing a license test.

   a. With the product key selected in the **Licenses** table, from the menu bar, select **Licenses > Test License**.

   b. In the **License Test** window, select **Test**.

   The results will indicate a successful activation.

XPression Maps RPM License Test

   c. Select **Done** to close the **License Test** window.

To assign specific features to a local computer:

1. In the **Licenses** table, select the product key.

2. In the **Features** section, check the boxes in the **Selected** column to assign features to the current machine.

   Example: On a designer workstation, you may only enable **XPression Maps Designer** and **XPression Maps Datatlinq option.**

3. Review license usage:

   • **Activation Limit** shows the number of available activations.

   • **Current Activation** shows the number currently in use.

4. Repeat this process on each additional computer as needed.

   Each system will appear under its hostname in RPM, making it easy to track which machine is using which features.

# Configuring Multiple XPression Maps Systems with a Single RPM Product Key

In facilities where multiple users require access to XPression Maps across different machines, a single Ross Platform Manager (RPM) Product Key can be shared. For example, an XPression Maps Server with DataLinq may run in the control room, while an XPression Maps Designer workstation is used in the Art Department.

The following procedures illustrate an example workflow for configuring multiple XPression Maps systems with a shared RPM product key. Adapt the process as appropriate for your environment.

To configure the XPression Maps Server:

1. On the XPression Maps Server go to **C:\Program Files\XPression Maps\bin64** and double-click **XPressionMapsRPMLicenseManager.exe**.

   The XPression Maps RPM License Manager opens.
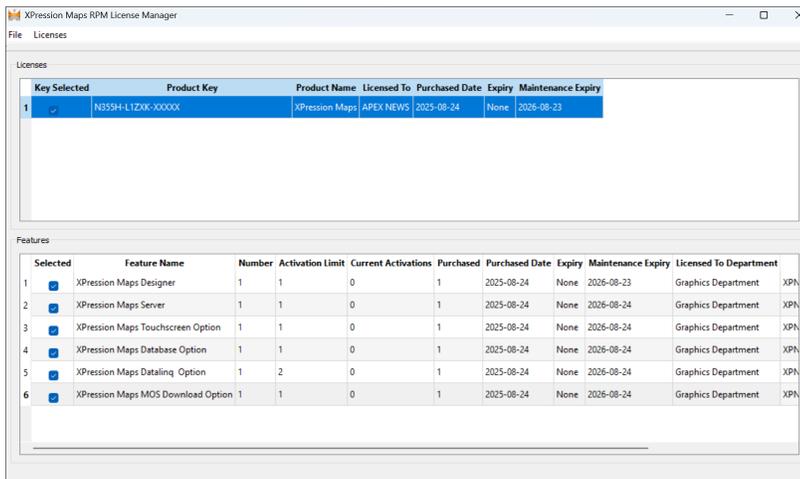
XPression Maps RPM License Manager

Confirm the product key has been installed through RPM.

For information on how to install product keys with RPM see .

2. In the features section, select the checkboxes for:

- **XPression Maps Designer**
- **XPression Maps Datalinq Option**
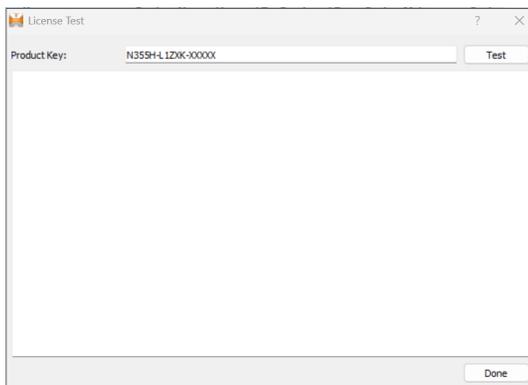- **XPression Maps MOS Download Option**
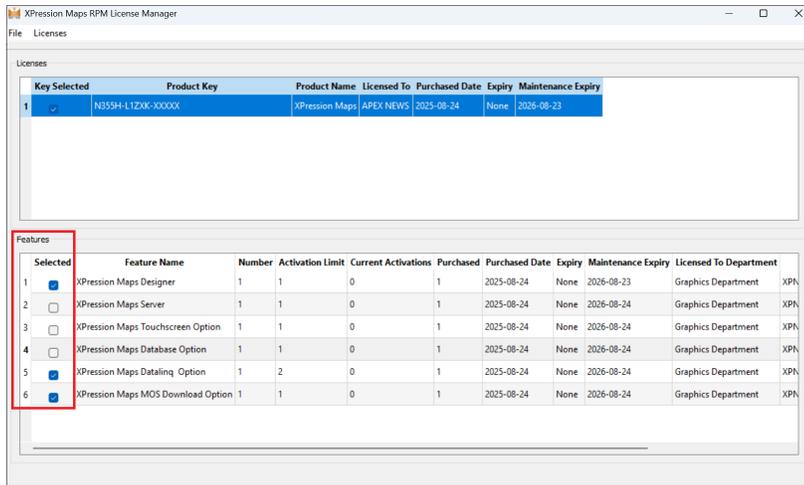
XPression Maps RPM License Manager - Selected Features

3. Minimize the XPression Maps RPM License Manager and launch XPression Maps Server.

4. Return to the XPression Maps RPM License Manager and select the **Product Key**, then go to **Licenses > Test License**.
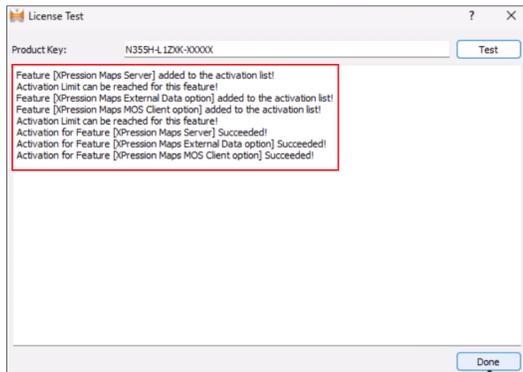
The **License Test** window opens.

XPression Maps RPM License Manager - License Test Window

5. Select **Test**.

    The test results confirm the selected features are active and display the **Activation Limit**.

    The **Features** table shows how many activations are available for each feature.

    XPression Maps RPM License Manager - Testing License

6. Select **Done**.

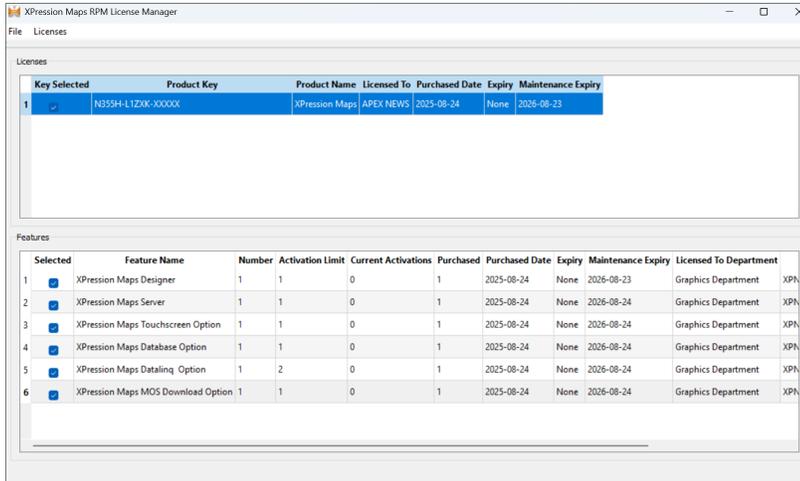   The **License Test** window closes.

7. In the XPression Maps RPM License Manager, select the Product Key and go to **Licenses > Refresh Licenses**.

    - In the **Features** section, confirm the **Current Activations** column shows the **XPression Maps Server**, **XPression Maps Datalinq Option,** and **XPression Maps MOS Download Option** as active.

To configure the XPression Maps Designer workstation:

1. On the system running XPression Maps Designer, go to **C:\Program Files\XPression Maps\bin64** and double-click **XPressionMapsRPMLicenseManager.exe**.

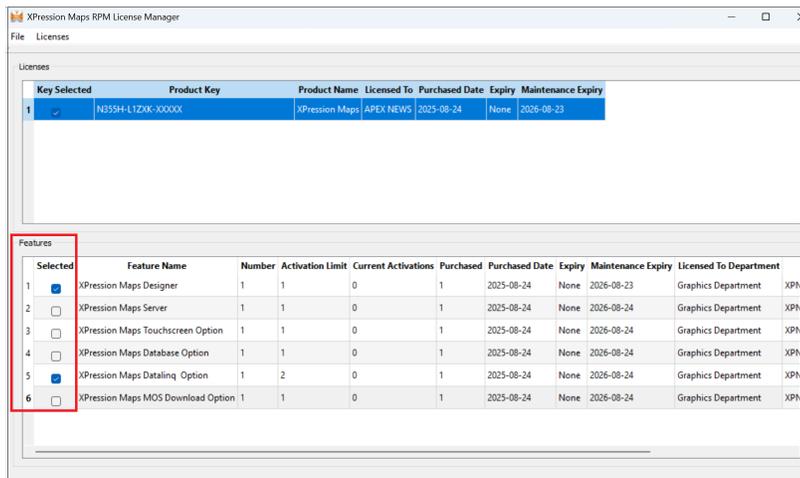   The XPression Maps RPM License Manager opens.

XPression Maps RPM License Manager

Confirm the correct product key has been installed through RPM.

For information on how to install product keys with RPM see .

2. In the **Features** section, select the checkboxes for:
    - **XPression Maps Designer**
    - **XPression Maps Datalinq Option**

XPression Maps RPM License Manager - Designer Workflow

3. Minimize the XPression Maps RPM License Manager and run **XPression Maps Designer**.

4. Return to the XPression Maps RPM License Manager and select the product key, then go to **Licenses > Test Licenses**.
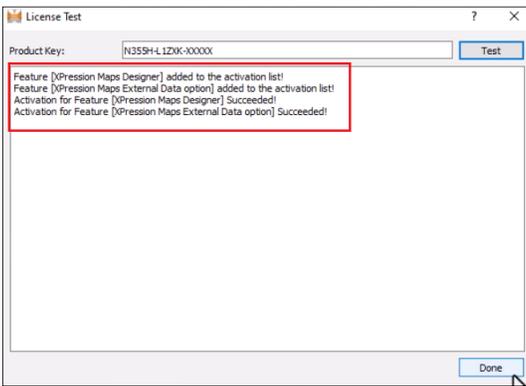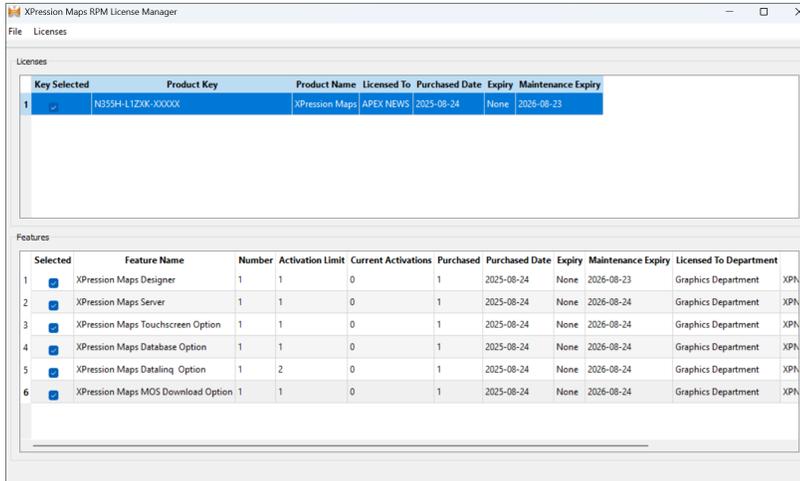
    The **License Test** window opens.

XPression Maps RPM License Manager - License Test Window

5. Select **Test**.

    The **License Test** window confirms the selected features are active.

XPression Maps RPM License Manager - Testing License

6. Select **Done**.

    The **License Test** window closes.

7. In the XPression Maps RPM License Manager, select the product key and go to **Licenses > Refresh Licenses**.

    - In the **Features** section, check the **Activation Limit** and **Current Activations** columns.

    - Confirm both the XPression Maps Server and XPression Maps Designer appear as active.

To configure an additional workstation:

1. On the additional workstation navigate to: **C:\Program Files\XPression Maps\bin64** and double-click **XPressionMapsRPMLicenseManager.exe**.

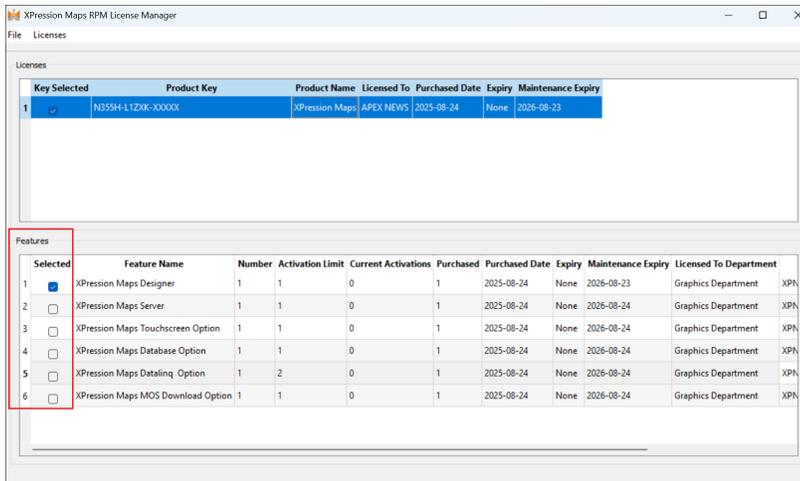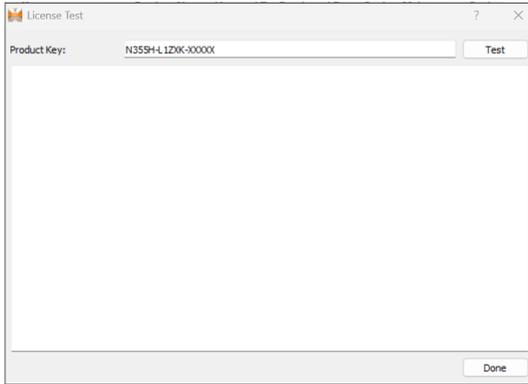   The XPression Maps RPM License Manager opens.

XPression Maps RPM License Manager

   Confirm the correct product key has been installed through RPM.

   For information on how to install product keys with RPM see adding XPression Maps product keys to RPM ⧉33.

2. In the **Features** section, select the checkboxes for:

   - **XPression Maps Designer**

XPression Maps RPM License Manager - Additional Designer Workflow

3. Minimize the **XPression Maps RPM License Manager** and run **XPression Maps Designer**.

4. Return to the **XPression Maps RPM License Manager** and select the product key, then go to **Licenses > Test Licenses**.
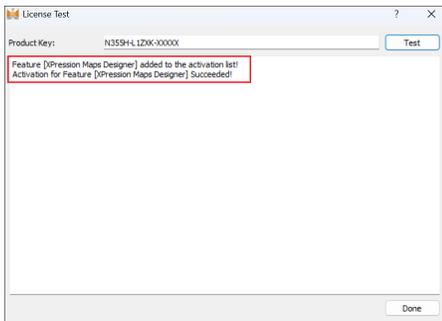
The **License Test** window opens.

XPression Maps RPM License Manager - License Test Window

5. Select **Test**.

The **License Test** window confirms the selected features are active.

XPression Maps RPM License Manager - Testing License

6. Select **Done**.

The **License Test** window closes.

7. Launch **XPression Maps Designer**.

★ If the activation limit is reached, a prompt appears stating that no XPression Maps Designer activations are available. The workstation cannot proceed until a license is released. You must either wait for a license to become available or coordinate with colleagues to free one.
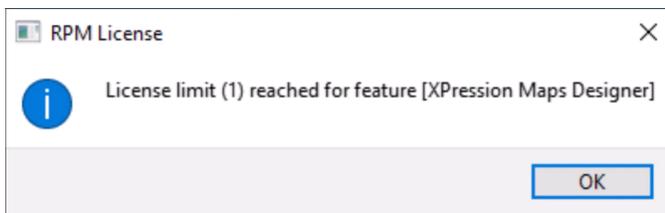
Activation Limit has been reached

Activating XPression Maps Licenses Using a Dongle and Key File

The dongle and key file method provides a secure way to activate XPression Maps licenses. This approach requires a USB dongle and a matching key file to be installed on the host computer. The dongle serves as the hardware authentication device, while the key file contains encrypted license data linked to the dongle's unique serial ID.

When you purchase XPression Maps, a USB dongle is included in the installation package, with labels on the packaging and chain identifying its Serial ID. This Serial ID must be provided when requesting the key file, and the values must match in order to successfully activate the license.

To activate an XPression Maps license using a dongle and key:

1. Insert the XPression USB dongle into the host computer.

    - On the host computer, ensure that all XPression Maps software components are closed.

    - Navigate to the location where the XPression Maps software was installed.

2. Add a copy of the XPression Maps key file (RockeyLicense_XXXXXXXX.xml) to the **C:\Program Files\XPression Maps\bin64\key** folder.

    If you do not have the XPression Maps key file, contact Ross Video Technical Support to request the file. You will need to provide the dongle's Serial ID number from the label on the dongle's packaging and chain. Alternatively, you can find the dongle's Serial ID by opening the **XPression License Tool**, right-click on the dongle and select **Copy to Clipboard**. Pasting the contents of the clipboard into a text editor will display the Serial ID.

3. Open the **XPression Maps** application to ensure that no licensing errors appear.

Opening XPression Maps User Interfaces

Once the XPression Maps software components are installed, you can open the following XPression Maps user interfaces on the computers upon which the software is installed:

To open the XPression Maps application:

- Double-click on the **XPression Maps** desktop icon:

OR

- Open the **XPressionMaps.exe** from the installation location (default: **C:\Program Files\XPression Maps\bin64\XPressionMaps.exe**).

To open the XPression Maps Touch application:

- Double-click the **XPression Maps** desktop icon:

OR

- Open the **XPressionMaps.exe** from the installation location (default: **C:\Program Files\XPression Maps\bin64\XPressionMaps.exe**).

The window's title bar should display **XPressionMaps VX.X Interactive**. If the title bar does not include **Interactive**, then the application is not set to **Interactive** mode. Select **File > Preferences > Output** and ensure that the application is currently set to start in Interactive mode (**Start in Interactive Mode**) and that a valid XPression Maps Touch license has been activated, then restart the application.
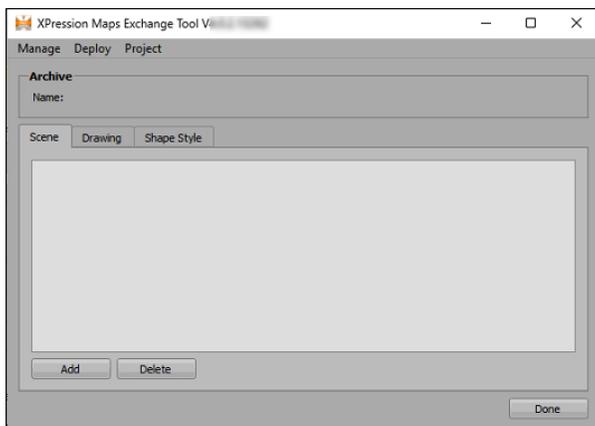
To open the XPression Maps Exchange Tool:

• Double-click the **Maps Exchange Tool** desktop icon:

OR

• Open the **MapsExchangeTool.exe** from the installation location (default: **C:\Program Files\XPression Maps\MapsExchangeTool**).

XPression Maps Exchange Tool

To open the XPression Map Data Configurator:

- Double-click the **Map Data Configurator** desktop icon:

OR

- Open the **Map Data Configurator** from the installation location (default: **C:\Program Files\XPression Maps\MapDataConfigurator**).

Map Data Configurator

Uninstalling XPression Maps Software Components

As part of the installation process, each of the XPression Maps installers (XPression Maps and Gateway) also provides an executable file that can be used for uninstalling the software. These uninstall files are always saved to the same location where the software was installed. The table below identifies file names and the default locations. Running the uninstall file opens an **Uninstall Wizard** that guides you through the process of uninstalling the software.

★ Carefully read each page in the **Uninstall Wizard** as some options offer you to perform a full uninstall, while others allow you to perform a partial uninstall by preserving components that contain user data that can be used during an upgrade or future installation.
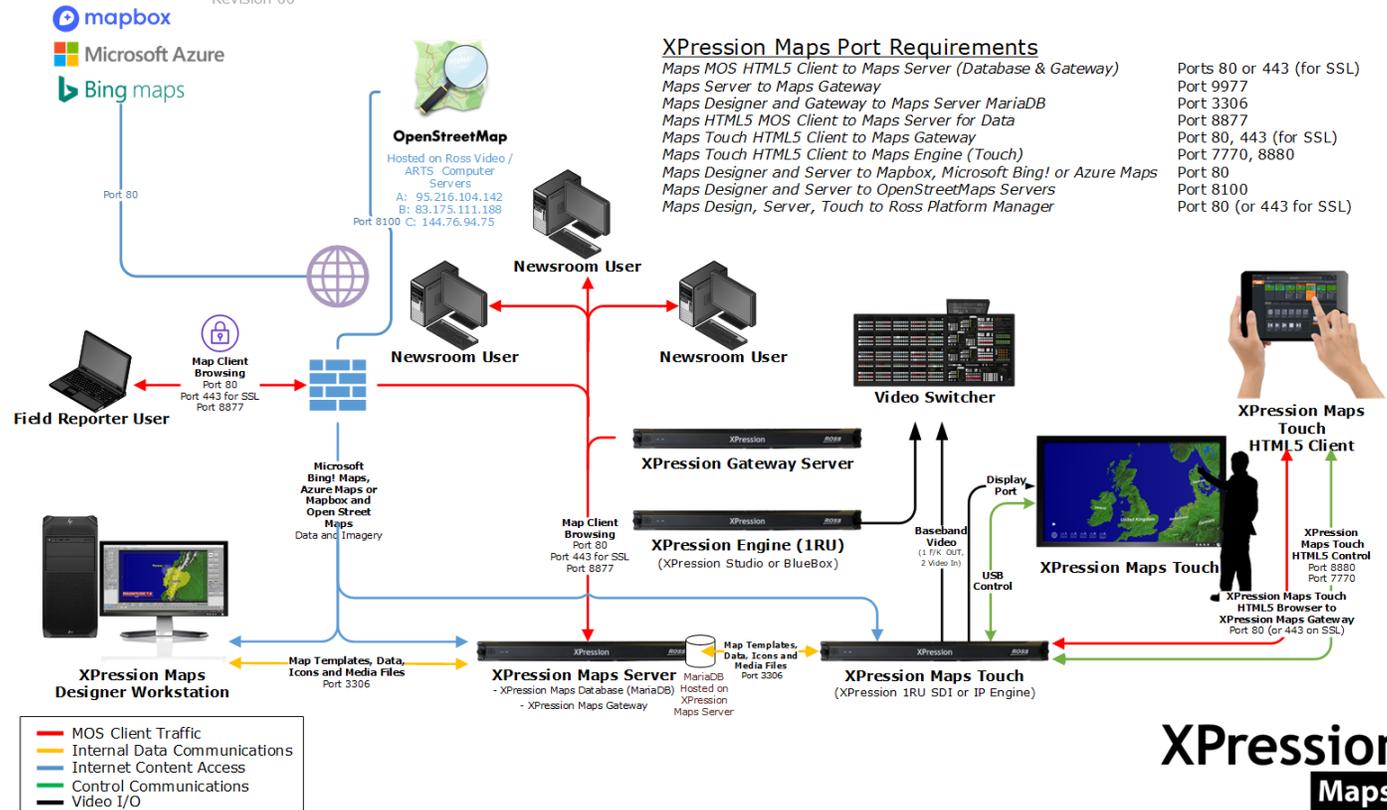
Uninstaller File Name	Default Install Location
XPression Maps_VX.X.X.XXXXX_uninstall.exe	C:\Program Files\XPression Maps
XPression Maps Gateway_VX.X.X.XXXXX_uninstall.exe	C:\Program Files\XPression Maps Gateway

XPression Maps Port Requirements

The following diagram illustrates the port requirements for the various XPression Maps system components.

XPression Maps Port Requirements