

MIKE URBAN+

Installation Guide



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1 Introduction

This installation guide covers the installation of MIKE URBAN+ and required 3rd party software.

MIKE URBAN+ can be deployed in different ways using local SQLite database or a PostgreSQL database server – ranging from a personal installation to a corporate installation.

For PostgreSQL, you have these two options

1. Personal installation, which allows users to work in a network independent mode on their desktop. This requires the installation of a database on the local computer;
2. Corporate installation, which allows for an office to have multiple installations (clients) all working against a central database server.

Furthermore, ArcGIS Pro may optionally be also installed, when purchased as part of MIKE URBAN+ ArcGIS.

Important information: Please be aware that all MIKE software (including the DHI License Manager) on the same computer must be installed with the same service pack. This is due to the dependencies between MIKE software products and our wish to use the latest and technically most advanced development systems.

2 Installation Prerequisites

MIKE URBAN+ depends on several prerequisites as listed below if you want to use a PostgreSQL database.

1. A PostgreSQL database server with the PostGIS spatial database extension. The installers of PostgreSQL and PostGIS are included in a separate “Prerequisites” subfolder of the MIKE URBAN+ installation. MIKE URBAN+ supports the following combination of the two products:

- PostgreSQL 11.2 and PostGIS 2.5.1

Combinations of later versions may also work, but have not been tested.

2. SQLite database with a SpatiaLite extension. It is included in the MIKE URBAN+ installer and will be installed automatically with MIKE URBAN+.
3. The DHI License Management application.
4. .NET framework 4.7.2, or .NET framework 4.8 when also installing ArcGIS Pro 2.5.

3 MIKE URBAN+ Installation/Upgrade

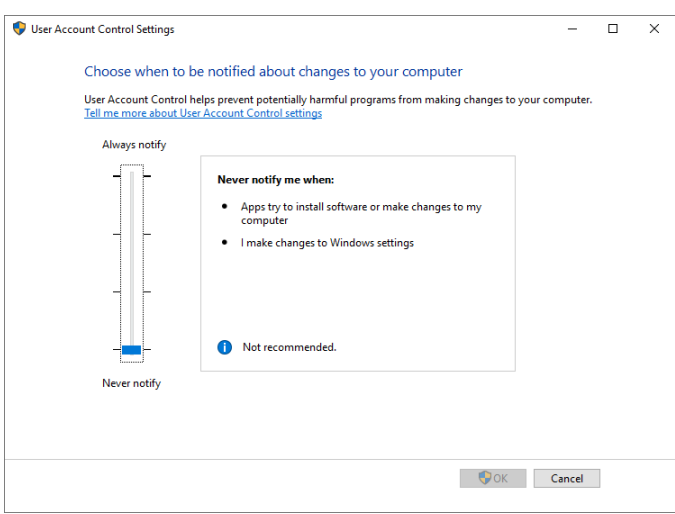
The installation process consists of three parts.

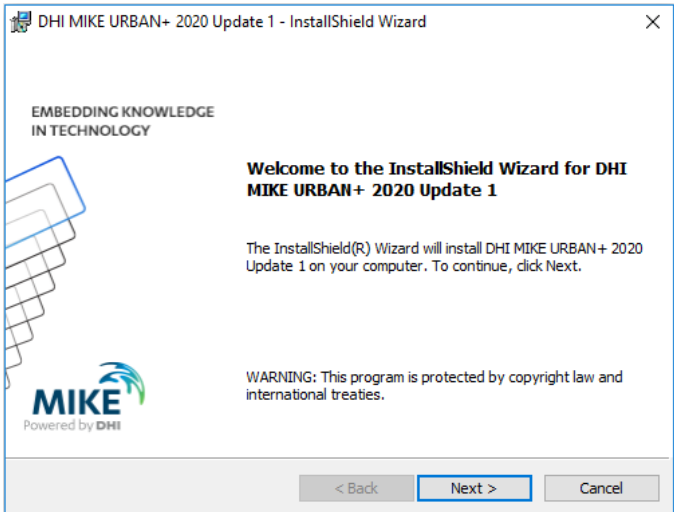
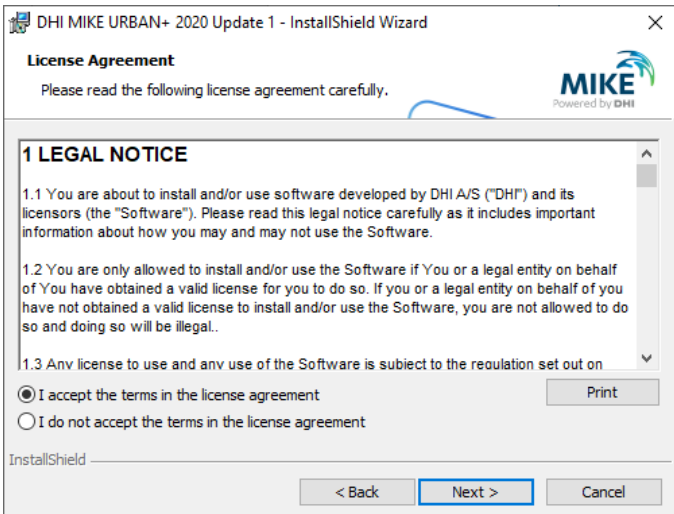
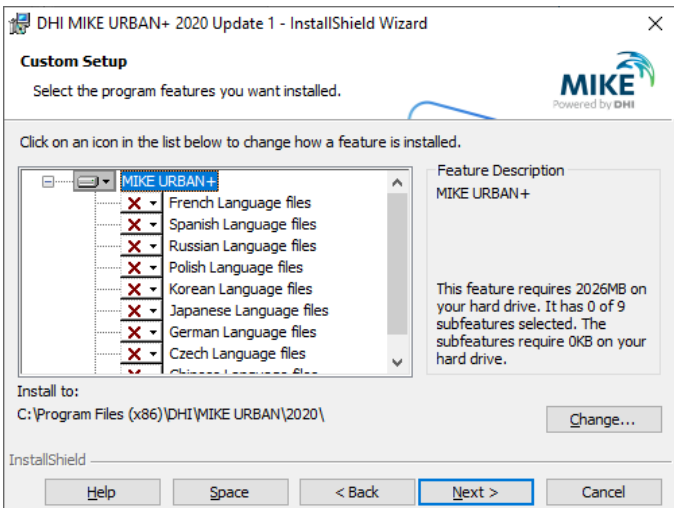
1. Installation of MIKE URBAN+;
2. Optional installation of PostgreSQL and PostGIS;
3. Optional installation of ArcGIS Pro.

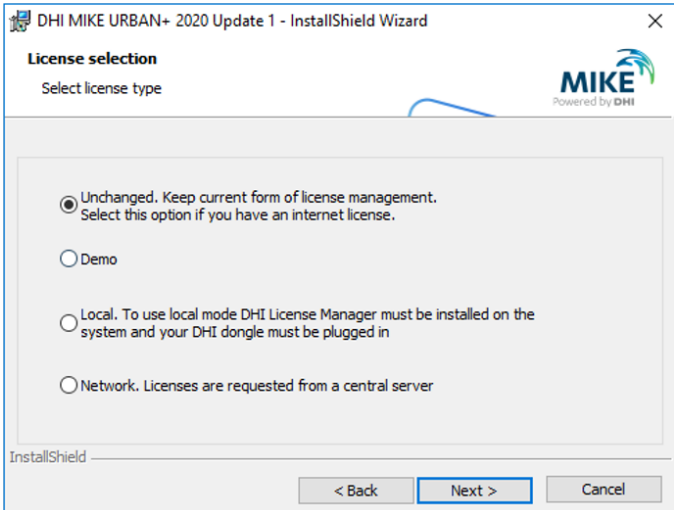
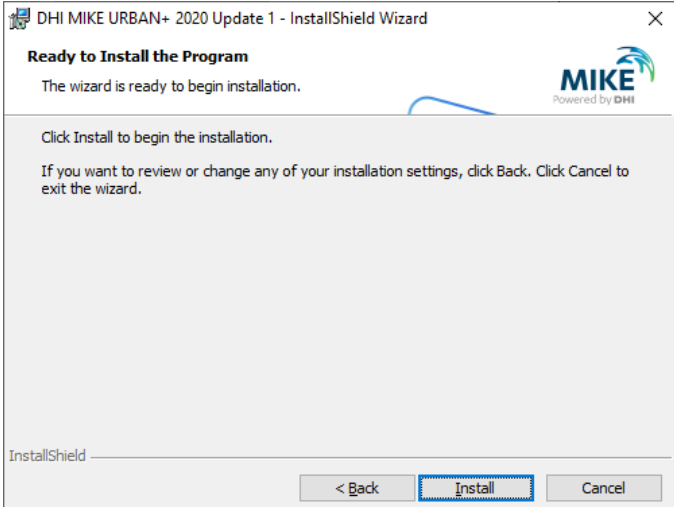
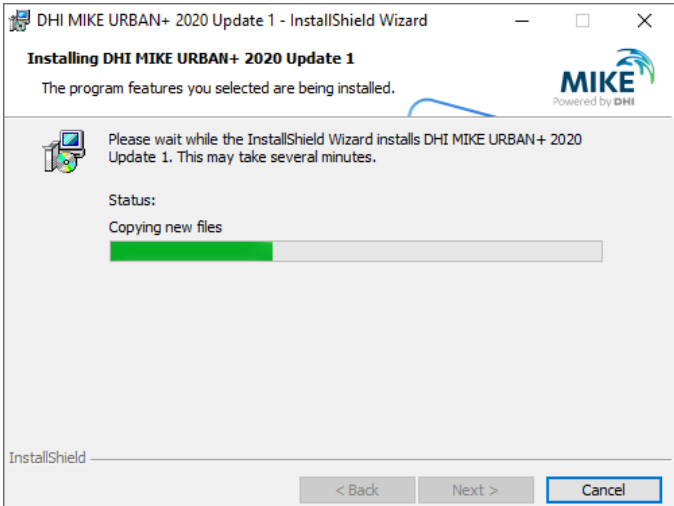
Installation of MIKE URBAN+ software is simple and requires no user interactions beyond accepting the license conditions, specifying the installation folder and languages that should be installed besides English, and includes installation of the personal database SQLite with a Spatialite extension.

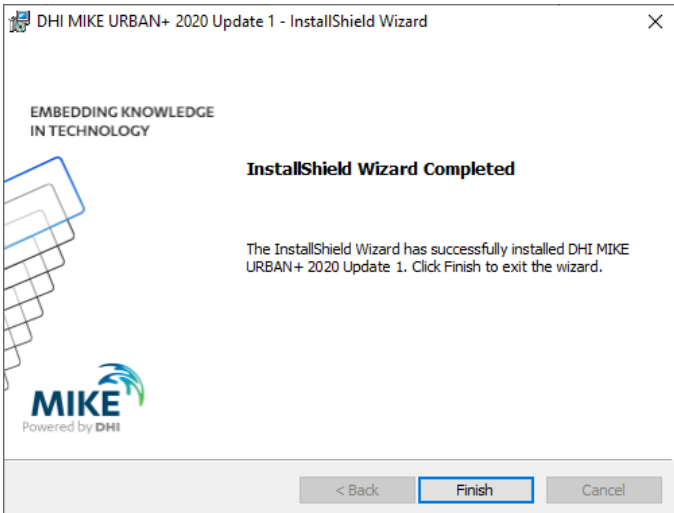
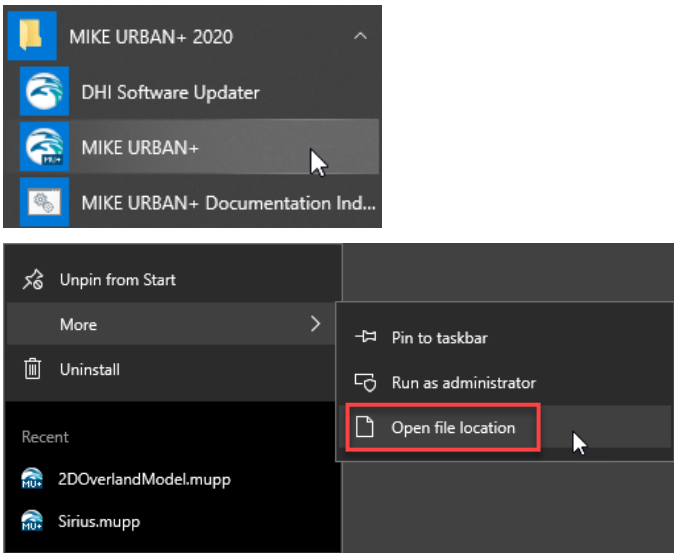
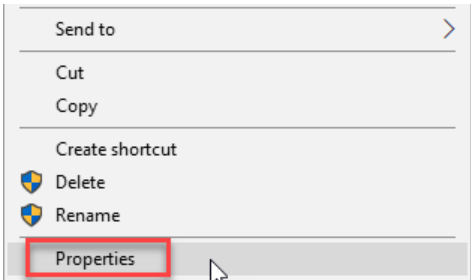
The following table explains how to install or upgrade MIKE URBAN+ and required 3rd party software.

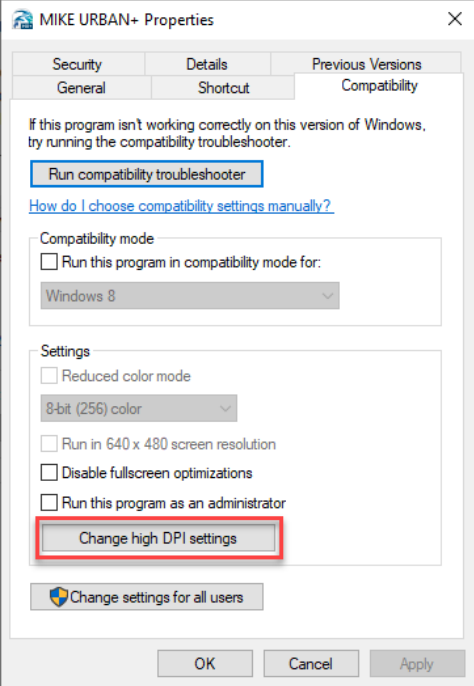
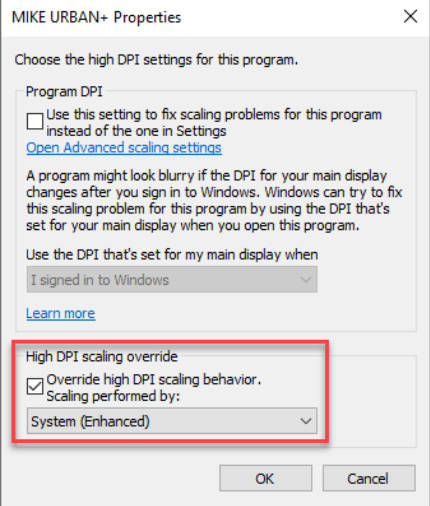
If you need to install or update the version of PostgreSQL and PostGIS, follow the steps described in APPENDIX A. If you need to install ArcGIS Pro, follow the steps described in APPENDIX D.

Installation step	Screen
Before starting the installation, make sure that User Account Control settings from your Windows operating system are set to the minimum level	

Installation step	Screen
<p>Run the <i>setup.exe</i> program file from the installation media/download folder, in the 'MIKE URBAN+' folder.</p> <p>Click Next</p>	
<p>Accept the license agreement</p> <p>Click Next</p>	
<p>Select the languages you want to install on the computer (besides English)</p> <p>Click Next</p>	

Installation step	Screen
<p>Select the license type. This may be modified after the installation if required.</p> <p>Click Next</p>	
<p>Click Install</p>	
<p>Wait</p>	

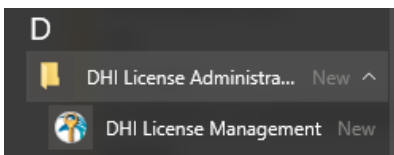
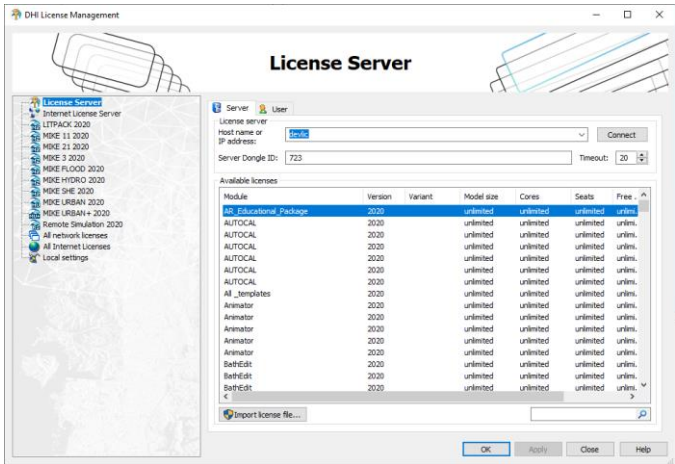
Installation step	Screen
Click Finish	
In the start menu, right-click on MIKE URBAN+, and select Open file location .	
In the file explorer, right-click on MIKE URBAN+, and select Properties	

Installation step	Screen
<p>In the MIKE URBAN+ properties, click Change high DPI settings</p>	 <p>The screenshot shows the 'MIKE URBAN+ Properties' dialog box with the 'Compatibility' tab selected. The 'Change high DPI settings' button is highlighted with a red rectangle. Other visible elements include the 'Run compatibility troubleshooter' button, a link to 'How do I choose compatibility settings manually?', and various compatibility and settings options like 'Compatibility mode', 'Reduced color mode', and 'Run in 640 x 480 screen resolution'.</p>
<p>Set the option to System (Enhanced). Click OK.</p>	 <p>The screenshot shows the 'Choose the high DPI settings for this program' dialog box. The 'Override high DPI scaling behavior' checkbox is checked, and 'System (Enhanced)' is selected in the 'Scaling performed by' dropdown. This section is highlighted with a red rectangle. Other visible elements include the 'Program DPI' section, a link to 'Open Advanced scaling settings', and a 'Learn more' link.</p>

4 DHI License File

The DHI license is handled through the DHI License Management software, which can be found under DHI License Administration in the Start Menu.

Important information: If you plan to use a local DHI license bound to a dongle, you must install the DHI License Manager before following the steps below. The installer for the DHI License Manager must be downloaded separately from the MIKE URBAN+ installer. This additional installation is however not required for an Internet license. For a network license installation, the DHI License Manager is required only on the server, but not on the client computers.

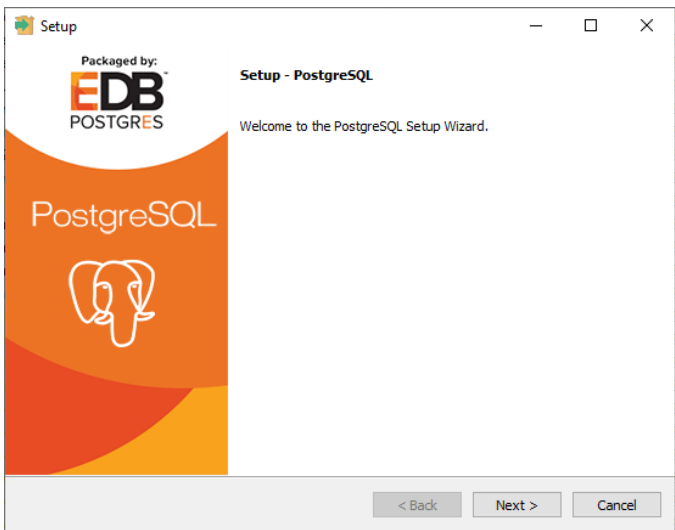
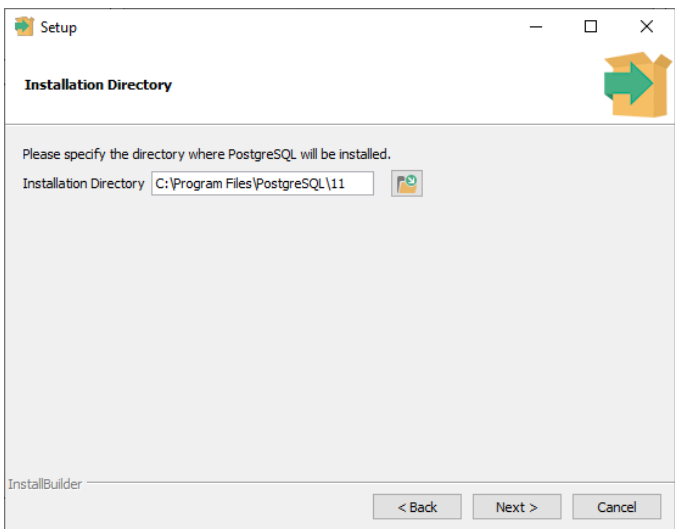
Installation step	Screen
Open the DHI License Management program in the start menu as Administrator	
<p>Three license types are available:</p> <ul style="list-style-type: none"> Internet License (no dongle) Server License, with license and dongle on a network server Server license, with license and dongle on local PC <p>Choose a license server installation if you have a license bound to a dongle, or Internet license otherwise. Refer to the documentation found with the Help button for more information.</p>	

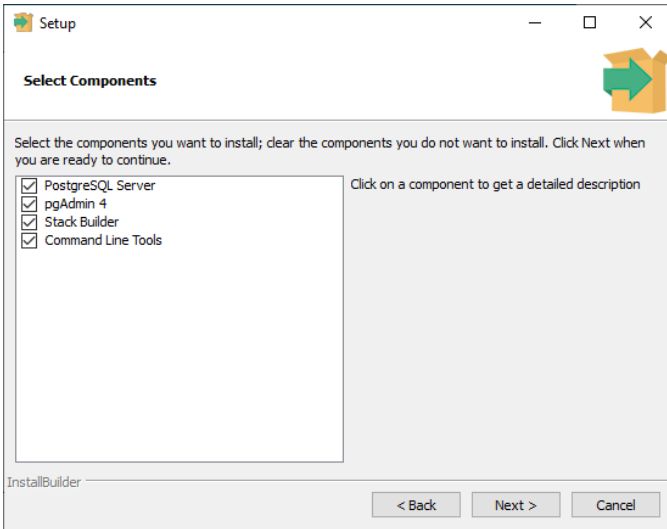
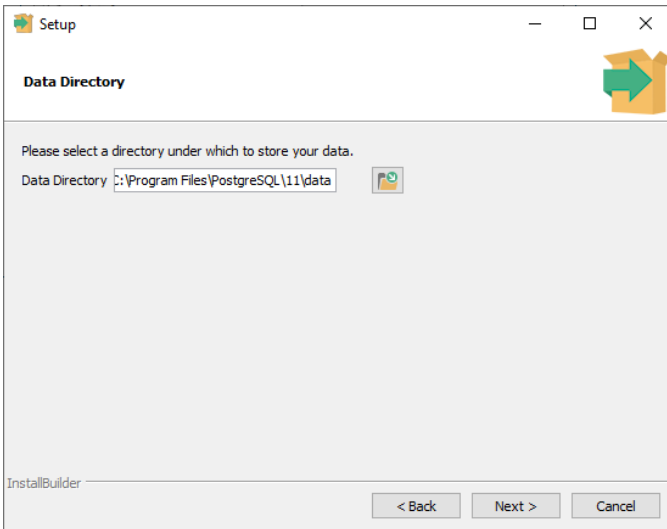
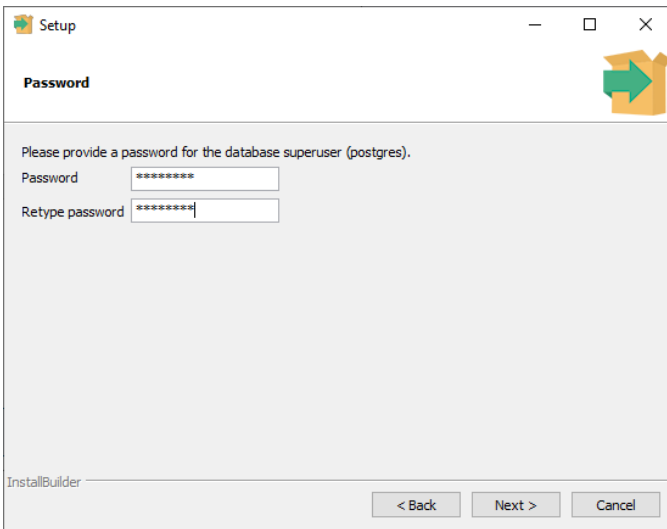
APPENDIX A: Install PostgreSQL and PostGIS

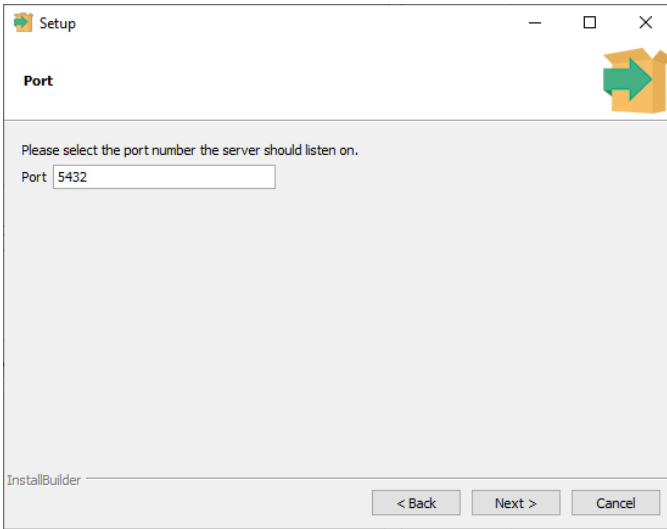
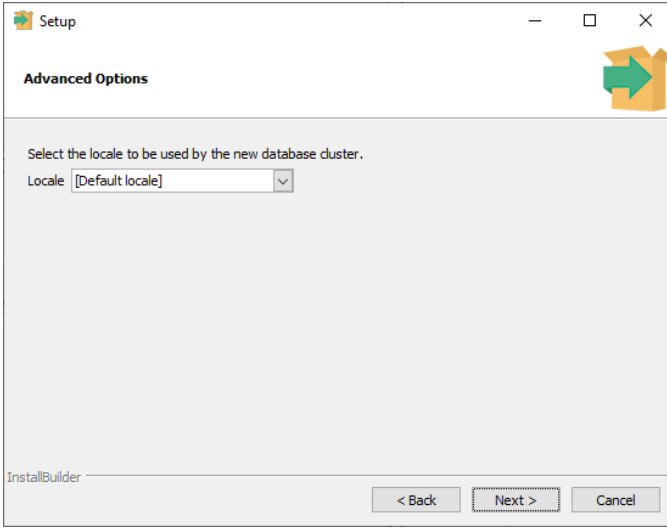
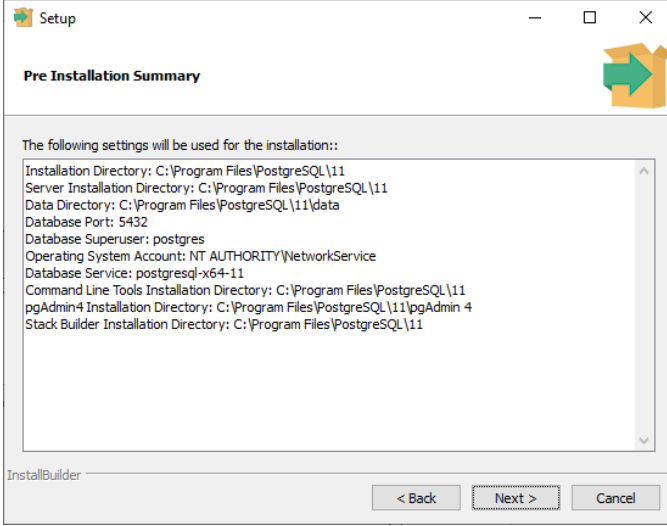
As mentioned in Chapter 2, it is possible to use a PostgreSQL database.

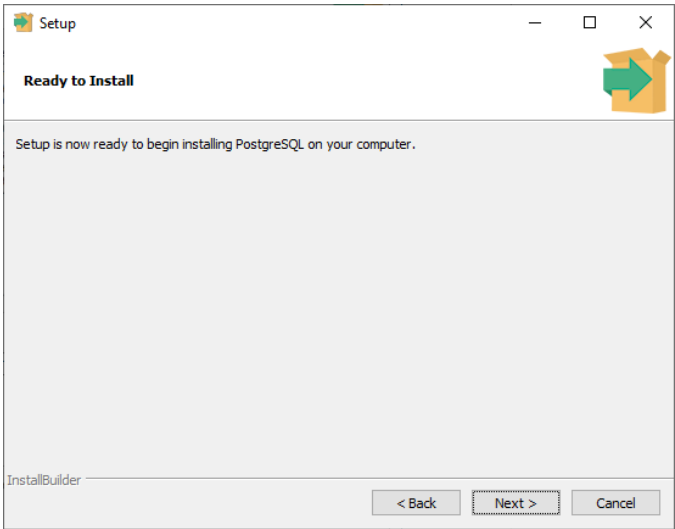
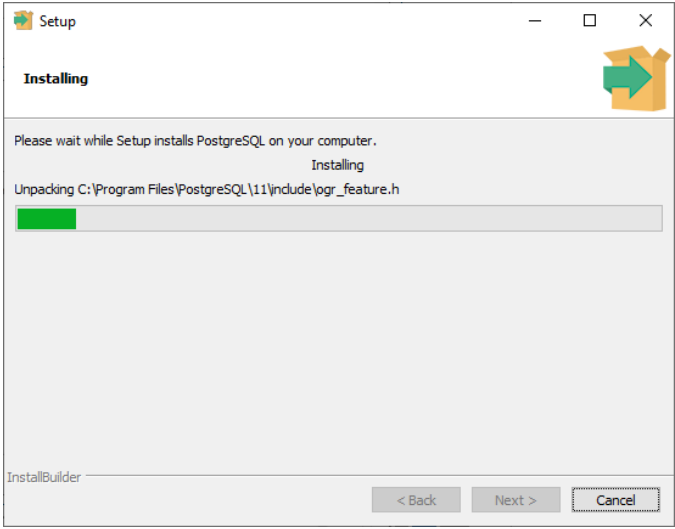

PostgreSQL Installation

The following table explains how to install a PostgreSQL database. The postgresql-xx.x-x-windows-x64.exe installer is located in the “Prerequisites” sub-folder of the MIKE URBAN+ installation.

Installation step	Screen
Run the database installation program e.g. postgresql-xx.x-x-windows-x64.exe	
Start of installation Click Next	 <p>The screenshot shows the 'Setup - PostgreSQL' window. It features the EDB PostgreSQL logo and the PostgreSQL elephant logo. The text reads: 'Welcome to the PostgreSQL Setup Wizard.' At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>
Accept the default installation folder Click Next	 <p>The screenshot shows the 'Setup - PostgreSQL' window at the 'Installation Directory' step. It includes a green arrow icon pointing right. The text says: 'Please specify the directory where PostgreSQL will be installed.' Below this, the 'Installation Directory' field is populated with 'C:\Program Files\PostgreSQL\11'. At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>

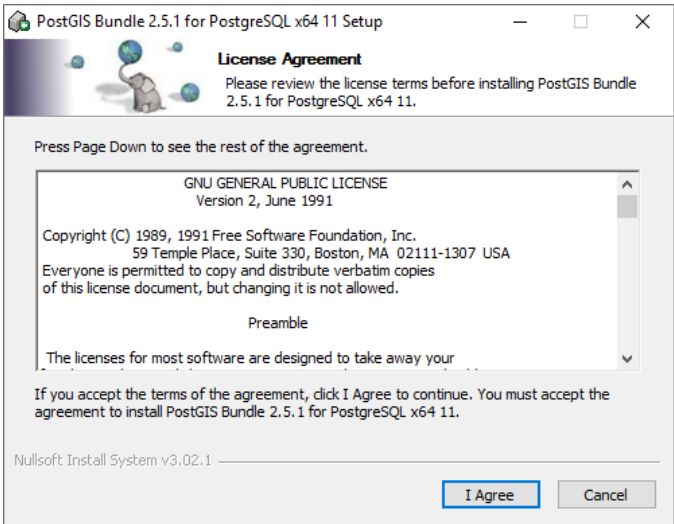
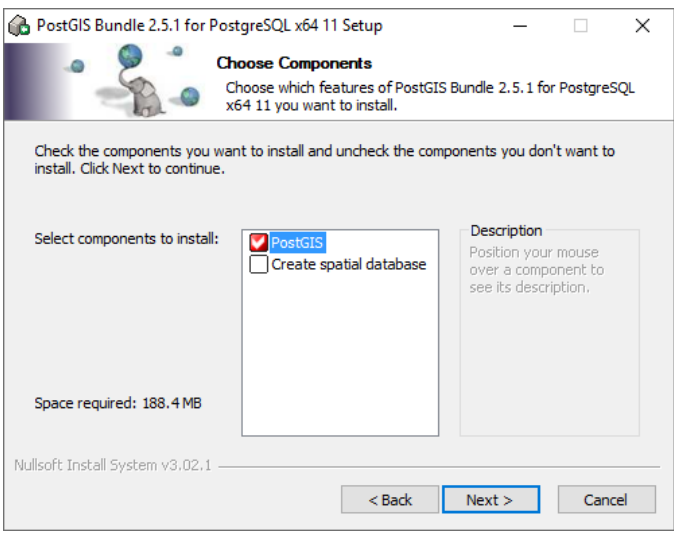
Installation step	Screen
<p>Accept the default selected components.</p> <p>Click Next</p>	
<p>Accept the default data folder.</p> <p>Click Next</p>	
<p>Type in a password for the postgres user (the administrator for the database server).</p> <p>Click Next</p>	

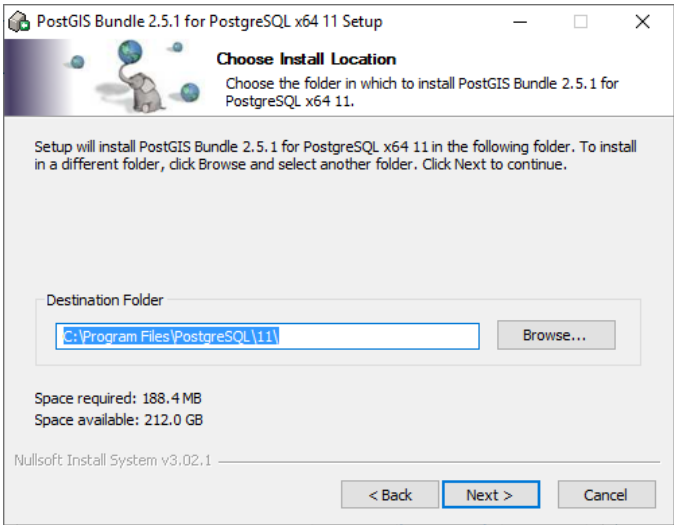
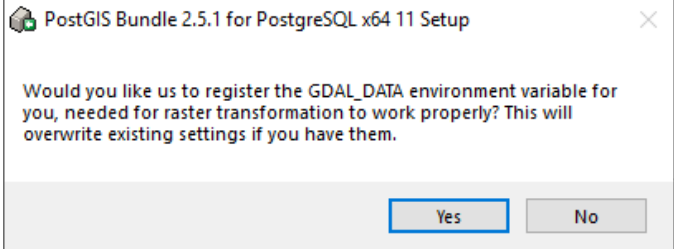
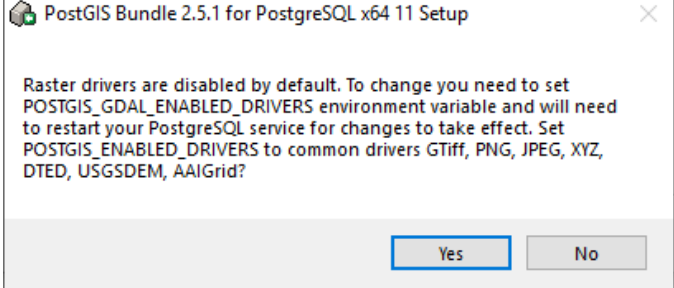
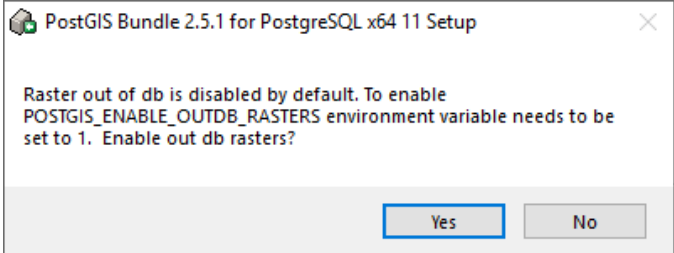
Installation step	Screen
<p>Accept the default port number (5432)</p> <p>Click Next</p>	
<p>Leave the "Locale" as "Default Locale"</p> <p>Click Next</p>	
<p>Installation summary.</p> <p>Click Next</p>	

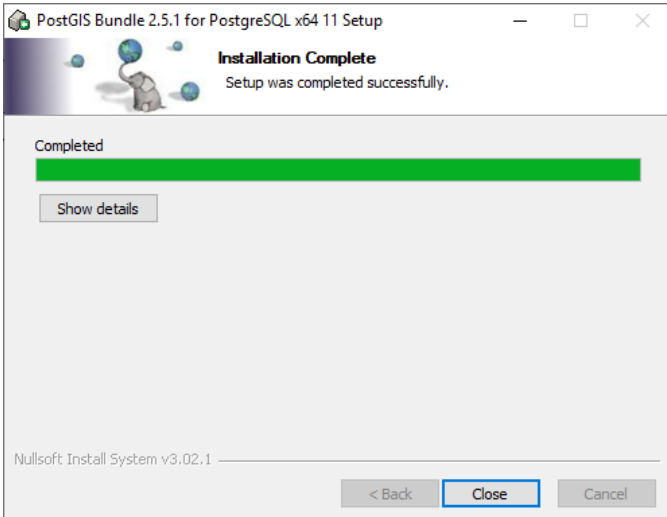
Installation step	Screen
Click Next	 <p>The screenshot shows the 'Setup' window titled 'Ready to Install'. It contains the text: 'Setup is now ready to begin installing PostgreSQL on your computer.' At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. A green arrow icon is visible in the top right corner.</p>
Installing	 <p>The screenshot shows the 'Setup' window titled 'Installing'. It contains the text: 'Please wait while Setup installs PostgreSQL on your computer.' Below this, it says 'Installing' and 'Unpacking C:\Program Files\PostgreSQL\11\include\ogr_feature.h'. A green progress bar is shown. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. A green arrow icon is visible in the top right corner.</p>
<p>The database server installation has finished</p> <p>Click off the “Launch Stack Builder at exit?” option and then click Finish</p>	 <p>The screenshot shows the 'Setup' window titled 'Completing the PostgreSQL Setup Wizard'. It features the PostgreSQL logo and the text: 'Packaged by: EDB POSTGRES'. Below this, it says: 'Setup has finished installing PostgreSQL on your computer.' There is a checkbox labeled 'Launch Stack Builder at exit?' which is currently unchecked. Below the checkbox, it says: 'Stack Builder may be used to download and install additional tools, drivers and applications to complement your PostgreSQL installation.' At the bottom, there are three buttons: '< Back', 'Finish', and 'Cancel'.</p>

PostGIS Installation

The following table explains how to install PostGIS database extension. The postgis-bundle-pg11x64-setup-x.x.x-x.exe installer is located in the “Prerequisites” sub-folder of the MIKE URBAN+ installation.

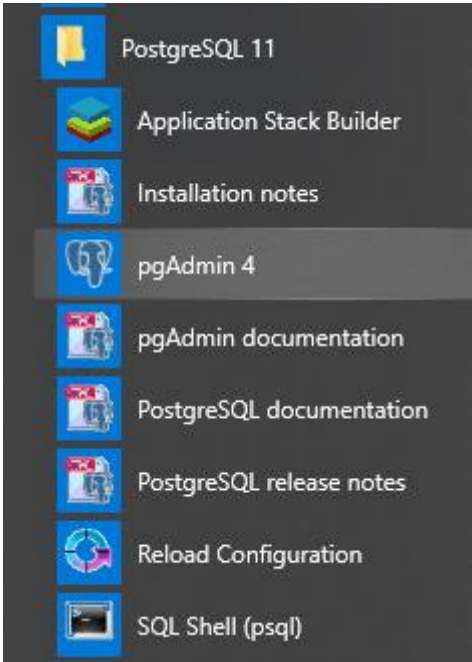

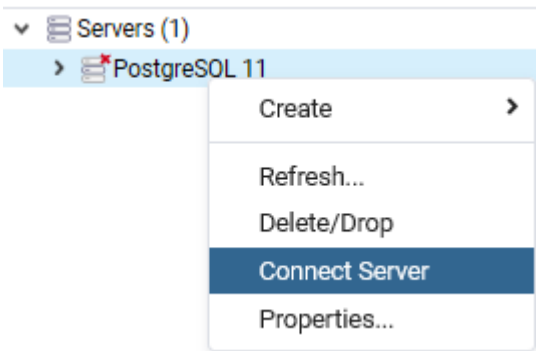
Installation step	Screen
Run the PostGIS installation program (e.g. postgis-bundle-pg11x64-setup-x.x.x-x.exe)	
Start of installation Click I Agree	 <p>The screenshot shows the 'License Agreement' window for 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup'. It displays the GNU GENERAL PUBLIC LICENSE Version 2, June 1991. The text includes copyright information for the Free Software Foundation, Inc. and states that everyone is permitted to copy and distribute verbatim copies of the license document, but changing it is not allowed. The window has 'I Agree' and 'Cancel' buttons at the bottom right.</p>
Leave “Create spatial database” unchecked. Click Next	 <p>The screenshot shows the 'Choose Components' window for 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup'. It asks the user to choose which features of PostGIS Bundle 2.5.1 for PostgreSQL x64 11 they want to install. Under 'Select components to install:', there are two checkboxes: 'PostGIS' (checked) and 'Create spatial database' (unchecked). A 'Description' box on the right explains that the user should position their mouse over a component to see its description. The window also shows 'Space required: 188.4 MB' and has '< Back', 'Next >', and 'Cancel' buttons at the bottom right.</p>

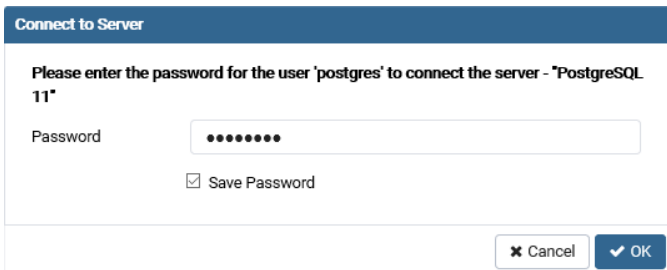
Installation step	Screen
Accept the default folder. Click Next	 <p>The screenshot shows the 'Choose Install Location' window of the PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup. It prompts the user to choose the folder for installation. The default destination folder is 'C:\Program Files\PostgreSQL\11\'. The window also indicates that 188.4 MB of space is required and 212.0 GB is available. The 'Next >' button is highlighted.</p>
Yes to the GDAL_Data environment variable Click Yes	 <p>The screenshot shows a dialog box asking if the user wants to register the GDAL_DATA environment variable for raster transformation. The 'Yes' button is highlighted.</p>
Yes to both set of environment variables Click Yes	 <p>The screenshot shows a dialog box explaining that raster drivers are disabled by default and need to be enabled by setting the POSTGIS_GDAL_ENABLED_DRIVERS environment variable. The 'Yes' button is highlighted.</p>  <p>The screenshot shows a second dialog box asking if the user wants to enable 'Raster out of db' by setting the POSTGIS_ENABLE_OUTDB_RASTERS environment variable to 1. The 'Yes' button is highlighted.</p>

Installation step	Screen
<p>The installation has finished</p> <p>Click Close</p>	 <p>The screenshot shows a Windows-style window titled "PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup". The window has a standard title bar with minimize, maximize, and close buttons. The main content area displays "Installation Complete" in bold, followed by the text "Setup was completed successfully." Below this, there is a green progress bar that is fully filled, with the word "Completed" above it. A "Show details" button is located below the progress bar. At the bottom of the window, there is a footer that reads "Nullsoft Install System v3.02.1". On the far right of the bottom bar, there are three buttons: "< Back", "Close" (which is highlighted with a blue border), and "Cancel".</p>

APPENDIX B: Advanced PostgreSQL Database management tool

The PostgreSQL database password provided during installation can be stored in the database for easy access in the future. It is an optional configuration.

Installation step	Screen
Start the pgAdmin 4 database administration tool from the Windows Start menu	
An internet browser opens	
Right click the database server entry for localhost under the Servers node to access "Connect Server"	

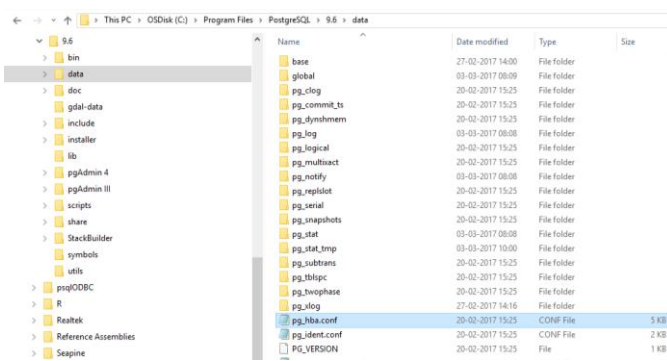
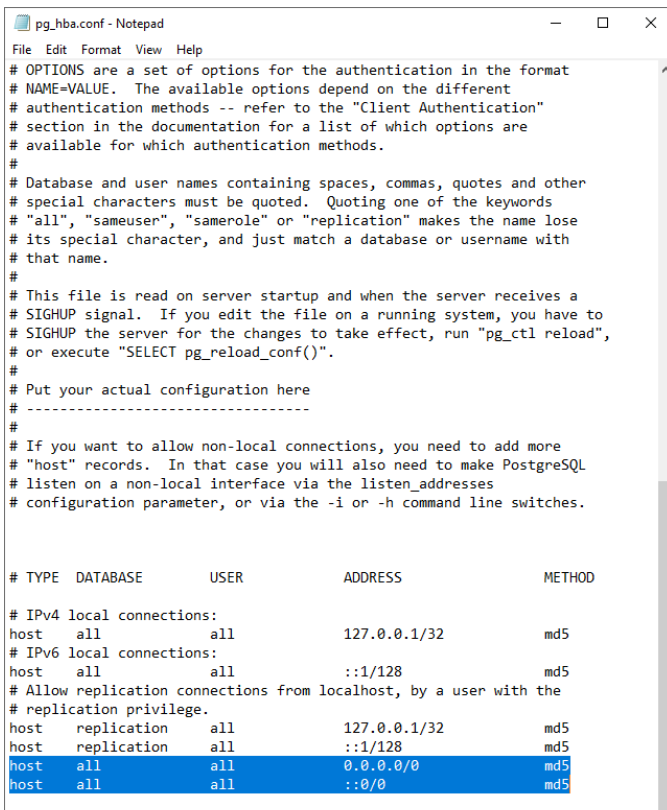
Installation step	Screen
<p>Provide the password for the postgres user and check on the “Store password” option</p> <p>Note: Clicking on “Store password” leads to a warning.</p> <p>Click OK on the warning dialog</p>	

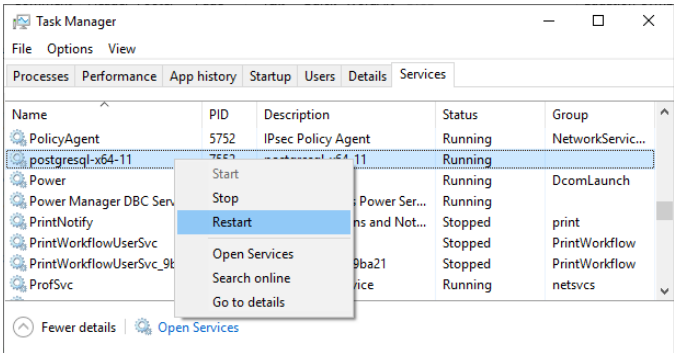
APPENDIX C: Configuring the PostgreSQL Database Server for remote access

IMPORTANT: This is only needed if the database server shall accept connection from remote computers.

The section describes how to configure the PostgreSQL database server for running in corporate mode.


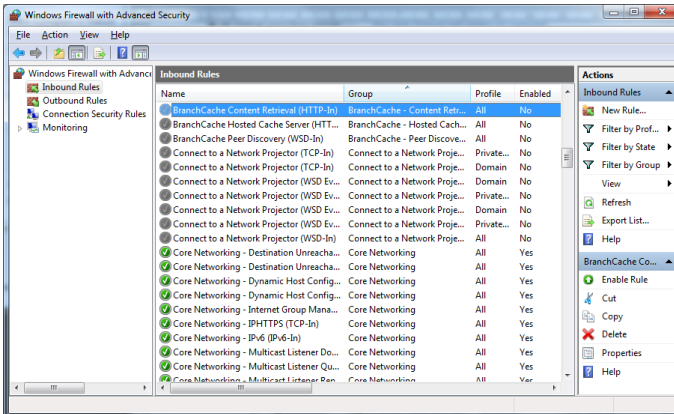
Start by enabling password save as shown in APPENDIX B.

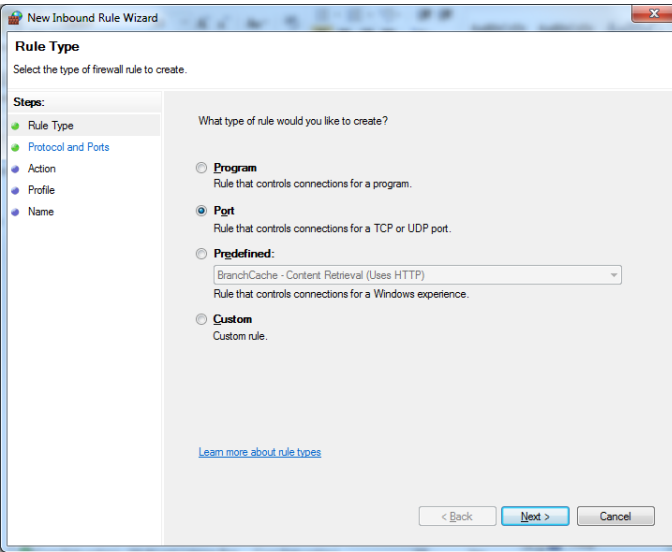
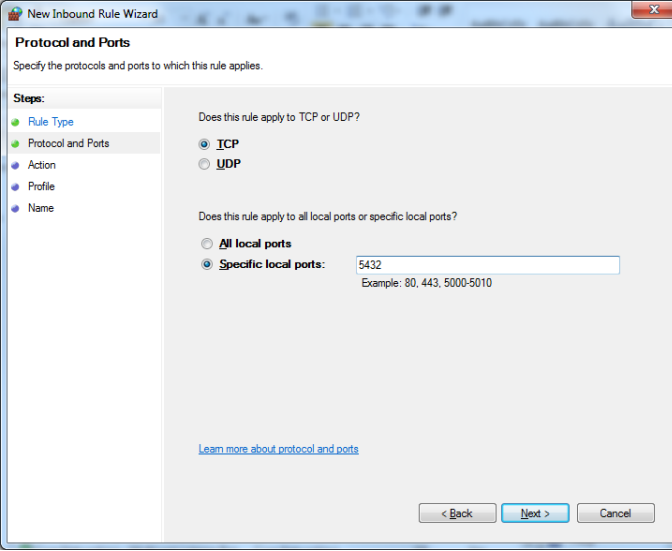
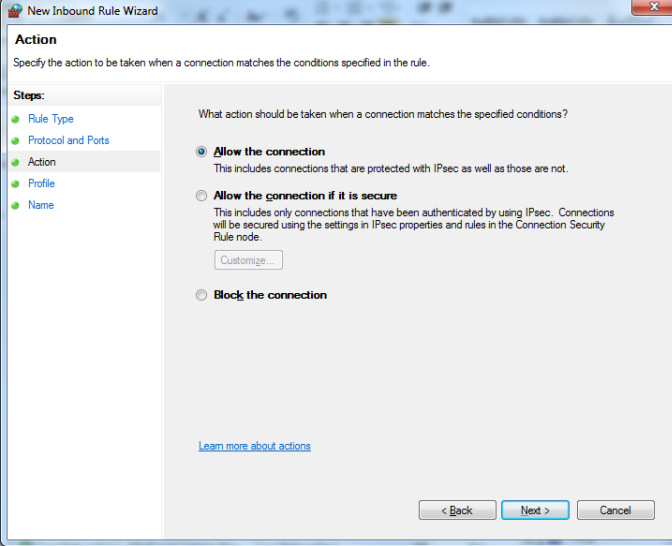
Installation step	Screen
<p>Locate the <code>pg_hba.conf</code> file in the data folder (C:\Program Files\PostgreSQL\11\data) and open it in an editor e.g. Notepad</p>	
<p>Insert new line(s) to open up for all non-local connections to database as shown on the right</p> <p>Open for IPv4:</p> <p>host all all 0.0.0.0/0 md5</p> <p>Open for IPv6:</p> <p>host all all ::0/0 md5</p> <p>Adjust spaces!</p> <p>Save the configuration.</p>	

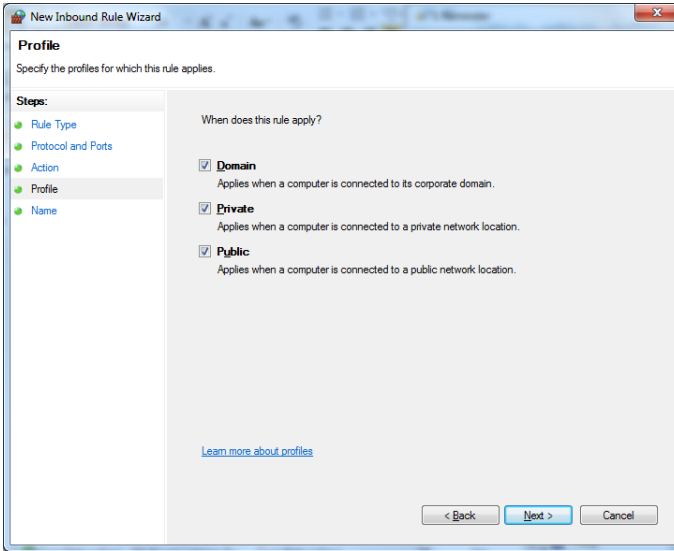
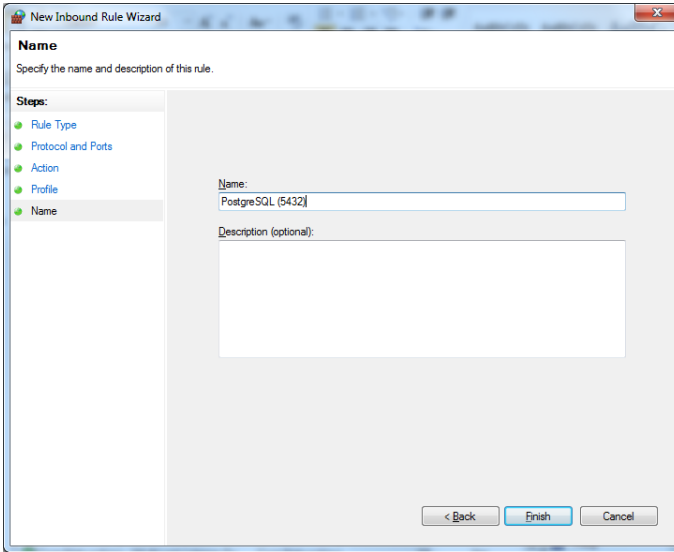
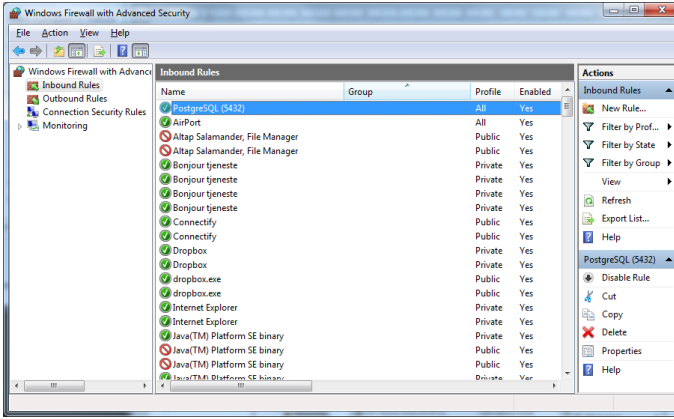
Installation step	Screen
Restart the services to apply the update.	

Configuring the Windows Firewall for remote access to PostgreSQL

The section describes how to configure the Windows firewall for PostgreSQL running in enterprise mode.

Installation step	Screen
<p>Open the Firewall applet in the Windows Control Panel</p> <p>Click Advanced Settings</p>	
<p>Select Inbound Rules</p> <p>Click New Rule in the Actions panel to the right</p>	

Installation step	Screen
<p>Select Port</p> <p>Click Next</p>	 <p>The screenshot shows the 'New Inbound Rule Wizard' window at the 'Rule Type' step. The 'Steps' list on the left includes 'Rule Type', 'Protocol and Ports', 'Action', 'Profile', and 'Name'. The main area asks 'What type of rule would you like to create?' with three options: 'Program' (Rule that controls connections for a program.), 'Port' (Rule that controls connections for a TCP or UDP port.), and 'Predefined' (Rule that controls connections for a Windows experience.). The 'Port' option is selected. A 'Predefined' dropdown menu shows 'BranchCache - Content Retrieval (Uses HTTP)'. There is a 'Custom' option for a custom rule. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.</p>
<p>Select TCP, Specific local ports and enter 5432 (or the port number specified when installing PostgreSQL)</p> <p>Click Next</p>	 <p>The screenshot shows the 'New Inbound Rule Wizard' window at the 'Protocol and Ports' step. The 'Steps' list on the left is the same as the previous screen. The main area asks 'Specify the protocols and ports to which this rule applies.' It first asks 'Does this rule apply to TCP or UDP?' with 'TCP' selected. Then it asks 'Does this rule apply to all local ports or specific local ports?' with 'Specific local ports:' selected. A text box contains '5432' with an example 'Example: 80, 443, 5000-5010' below it. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.</p>
<p>Select Allow the connection</p> <p>Click Next</p>	 <p>The screenshot shows the 'New Inbound Rule Wizard' window at the 'Action' step. The 'Steps' list on the left is the same as the previous screens. The main area asks 'What action should be taken when a connection matches the specified conditions?' with three options: 'Allow the connection' (This includes connections that are protected with IPsec as well as those are not.), 'Allow the connection if it is secure' (This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.), and 'Block the connection'. The 'Allow the connection' option is selected. There is a 'Customize...' button next to the 'Allow the connection if it is secure' option. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.</p>

Installation step	Screen
<p>Click on for all profiles</p> <p>Click Next</p>	
<p>Specify a rule name – e.g. “PostgreSQL (5432)” – and a description</p> <p>Click Finish</p>	
<p>The new rule is now added to the list of Inbound rules</p>	

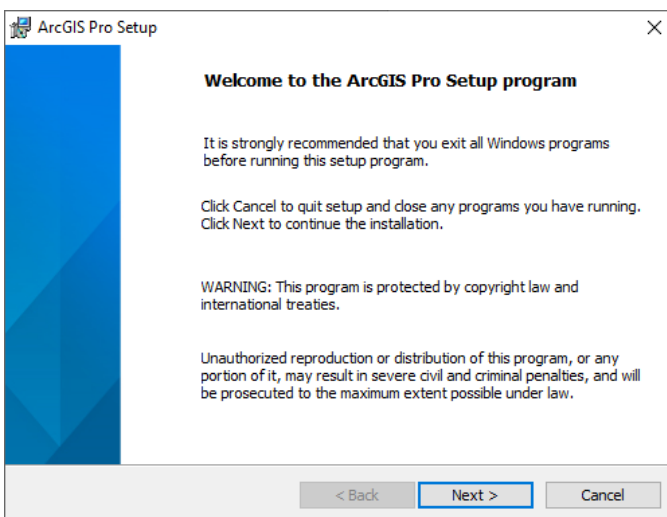

APPENDIX D: Install ArcGIS Pro

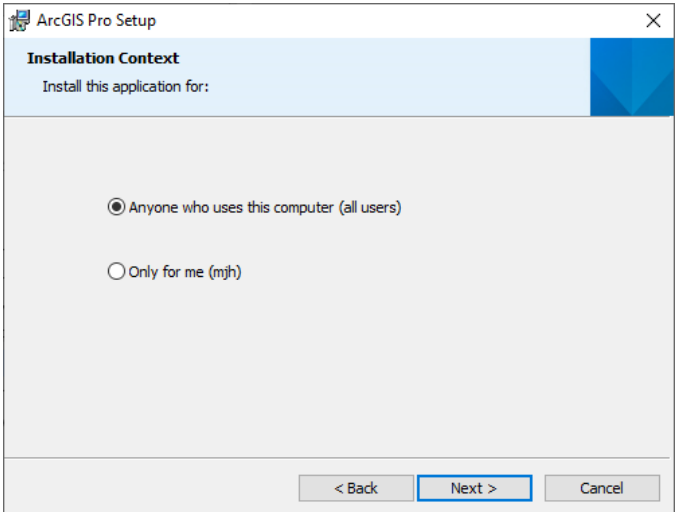
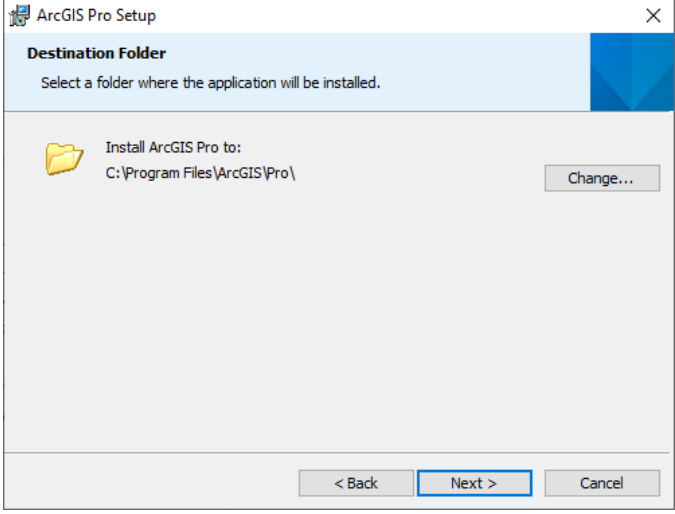
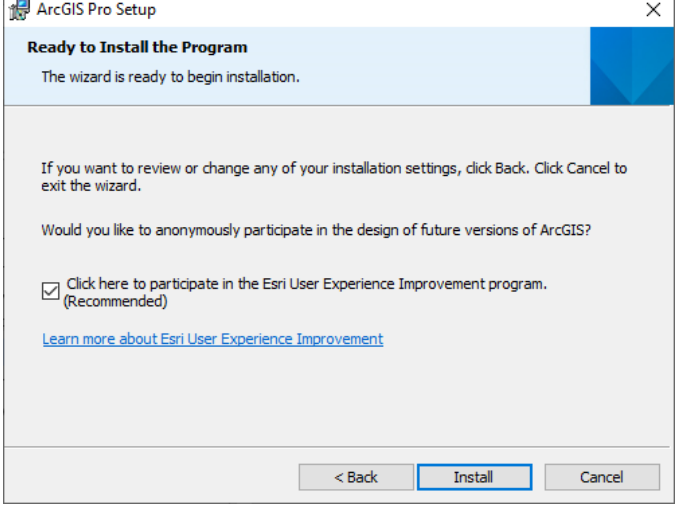
The ArcGIS Pro installation is carried out in two stages:

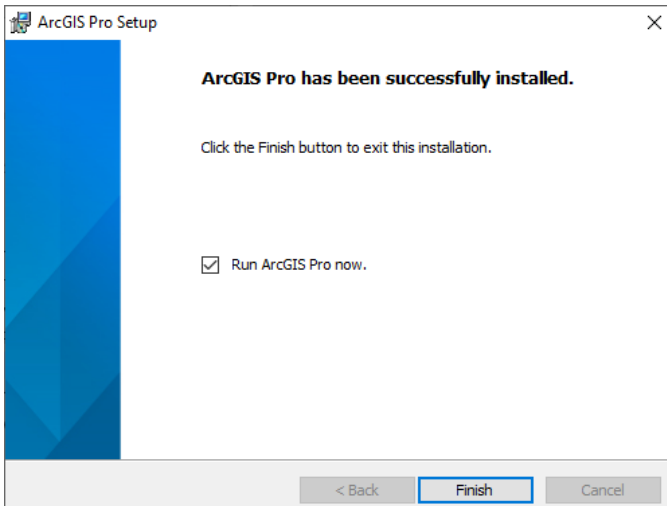
1. Installation of ArcGIS Pro;
2. Authorization of the license as named user (preferred option, applicable to single use as well as concurrent use licenses), or Concurrent license using EFL code or local license.

ArcGIS Pro Installation

The following table explains how to install ArcGIS Pro. The ArcGISPro.msi installer is located in the “Prerequisites” sub-folder of the MIKE URBAN+ installation.

Installation step	Screen
<p>Run the <i>ArcGISPro.msi</i> program file from the installation media/download folder, in the ‘ArcGIS Pro’ folder.</p> <p>Click Next</p>	 <p>The screenshot shows the 'ArcGIS Pro Setup' window. It has a blue header bar with the title 'ArcGIS Pro Setup'. The main content area is white and contains the following text: 'Welcome to the ArcGIS Pro Setup program', 'It is strongly recommended that you exit all Windows programs before running this setup program.', 'Click Cancel to quit setup and close any programs you have running. Click Next to continue the installation.', 'WARNING: This program is protected by copyright law and international treaties.', and 'Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.' At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.</p>
<p>Select I accept the master agreement</p> <p>Click Next</p>	 <p>The screenshot shows the 'ArcGIS Pro Setup' window with the 'Master Agreement' tab selected. The title bar says 'ArcGIS Pro Setup' and the window title is 'Master Agreement'. Below the title bar, it says 'You must agree with the master agreement below to proceed.' The main content area is a scrollable text box containing the following text: 'Master Agreement', 'Product and Services (E204CW)', 'Revised 9/26/2019', 'IMPORTANT-READ CAREFULLY', and 'Unless superseded by a signed license agreement between you and Esri, Esri is willing to provide Esri Offerings and Services to you only if you accept all terms and conditions contained in this Agreement as the sole and final agreement of the parties regarding your acquisition of...'. Below the text box, there are two radio buttons: 'I accept the master agreement' (selected) and 'I do not accept the master agreement'. To the right of the radio buttons is a 'Print' button. At the bottom, there are three buttons: 'Agreement PDFs (all languages)', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.</p>

Installation step	Screen
<p>Select Anyone who uses this computer (all users)</p> <p>Click Next</p>	 <p>The screenshot shows the 'ArcGIS Pro Setup' window with the 'Installation Context' tab selected. The text 'Install this application for:' is followed by two radio button options: 'Anyone who uses this computer (all users)' (which is selected) and 'Only for me (mjh)'. At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.</p>
<p>Click Next</p>	 <p>The screenshot shows the 'ArcGIS Pro Setup' window with the 'Destination Folder' tab selected. The text 'Select a folder where the application will be installed.' is followed by a folder icon and the text 'Install ArcGIS Pro to: C:\Program Files\ArcGIS\Pro\'. A 'Change...' button is to the right. At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.</p>
<p>Click Install</p>	 <p>The screenshot shows the 'ArcGIS Pro Setup' window with the 'Ready to Install the Program' tab selected. The text 'The wizard is ready to begin installation.' is followed by instructions: 'If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.' Below this is a question: 'Would you like to anonymously participate in the design of future versions of ArcGIS?'. There is a checked checkbox next to the text 'Click here to participate in the Esri User Experience Improvement program. (Recommended)'. A link 'Learn more about Esri User Experience Improvement' is provided. At the bottom, there are three buttons: '< Back', 'Install' (highlighted with a blue border), and 'Cancel'.</p>

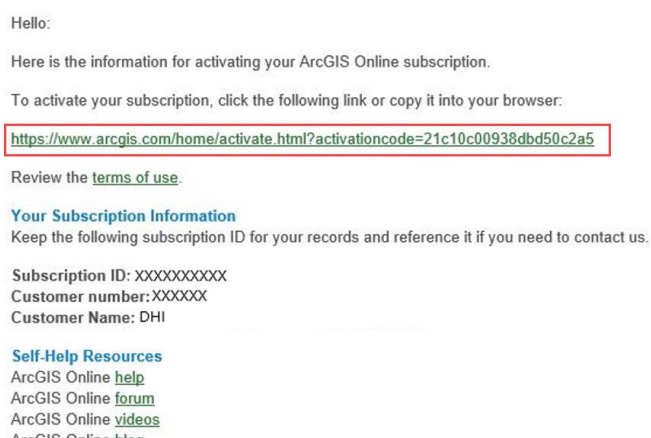
Installation step	Screen
Click Finish	



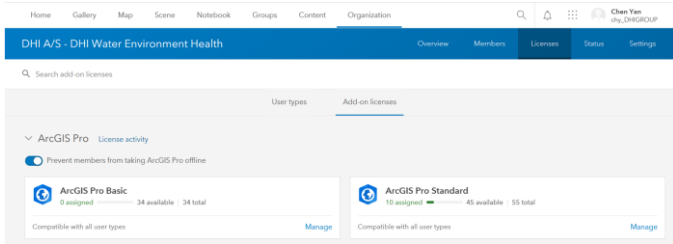
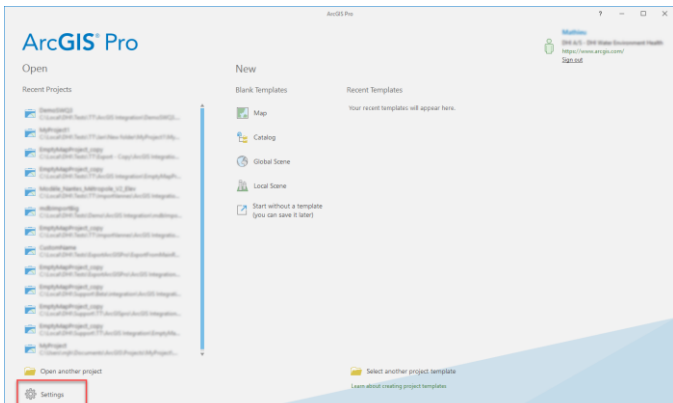
Authorization with a named user license

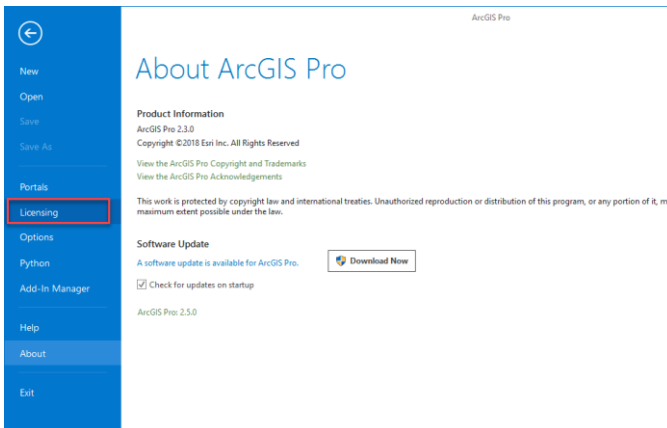
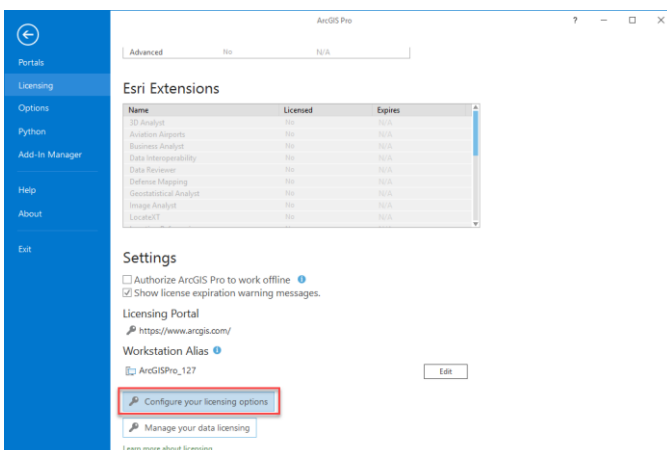
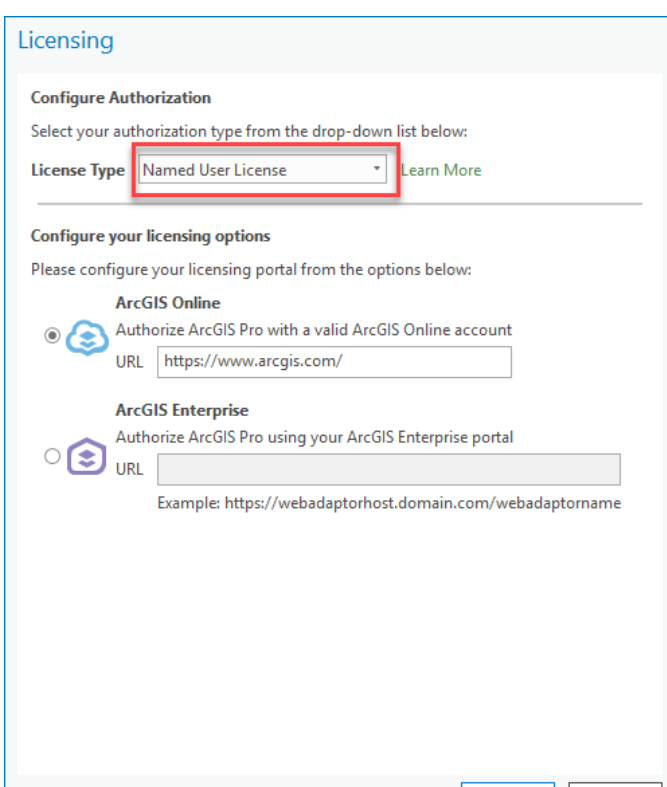
The named license (single use as well as concurrent use) provides an easy procedure for authorization and no physical license server is needed. If you have a named user license of ArcGIS Pro software, please follow these instructions to authorize the product.

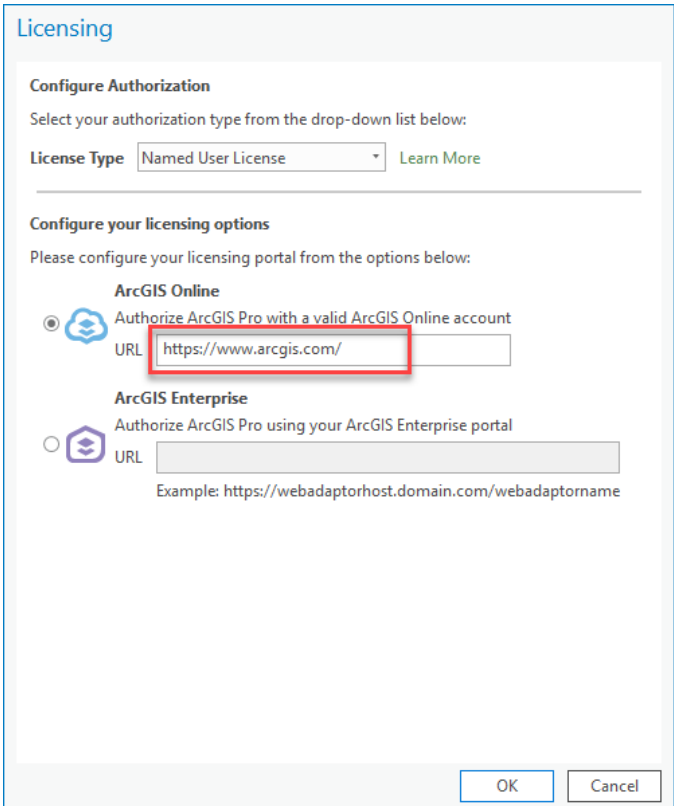
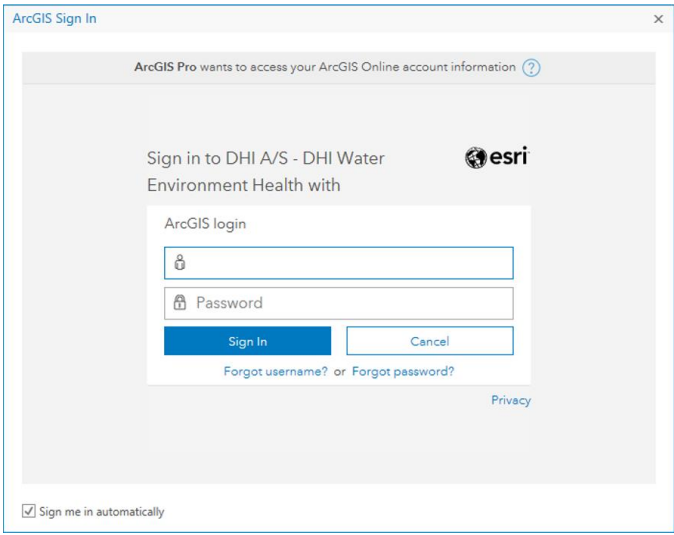
In order to authorize ArcGIS Pro, you must have received an invitation email to activate the license online. The first user activating the license from your company will automatically be assigned as 'company admin'. The activation link can be used for licensing, adding and removing members, sharing projects and maps based on the cloud solution.

To proceed with the authorization, make sure you have this activation email and you are connected to the Internet

Installation step	Screen
<p>Click on the activation link and follow the indications to create the online page for your organization</p> <p>To explore the functionality of ArcGIS online, click on 'Self-Help Resources'</p>	

Installation step	Screen
<p>If you are the first user activating the license, you are the company administrator and you can start inviting members and assigning licenses for ArcGIS Pro.</p> <p>It is allowed to invite any number of members, who will be allowed to use the license. New members will receive a similar mail with a link for creating their password.</p> <p>Each member must then activate his account with a password.</p>	<p>An invitation to join an ArcGIS Online organization, DHI A/S - DHI Water Environment Health.</p> <p> ArcGIS Notifications <notifications@arcgis.com> To:  yly_chen@arcgis.com</p> <p>yly_chen@arcgis.com has invited you to join an ArcGIS Online Organization, DHI A/S - DHI Water Environment Health.</p> <p>Please click this link to finish setting up your account and establish your password to join the organization, DHI A/S - DHI Water Environment Health: https://www.arcgis.com/home/newuser.html?invitation=Add2e1852f0994d1088034</p> <p>This link will expire in 14 day(s).</p> <p>Note that your account has already been created for you with the username, yly_chen@arcgis.com.</p> <p>If you have difficulty signing in, please contact yly_chen@arcgis.com. Be sure to include a description of the problem, the error message, and a screenshot.</p> <p>For your reference, you can access the home page of the organization here: https://orgidc0up.maps.arcgis.com</p> <p>Experience what's possible with ArcGIS Online for free hands-on lessons and other resources, visit Learn ArcGIS.</p>
<p>If you want to assign a license to an existing member, go to tab 'Licenses' \ 'Manage'. You can also assign a license without creating a member.</p> <p>You can follow below video for administration basics on ArcGIS online:</p> <p>https://www.youtube.com/watch?v=fVJ6Bq6O9XU&list=PLGZUzt4E4O2IJt1O_OTDFR-3dUpiCZGKf&index=5</p>	
<p>Activate your named license on the local installation of ArcGIS Pro:</p> <p>Start ArcGIS Pro</p> <p>Click Settings</p>	

Installation step	Screen
Click Licensing	
Click Configure your licensing options	
Select the license type 'Named user license'	

Installation step	Screen
<p>Select the license portal ArcGIS Online, with URL https://www.arcgis.com/</p>	 <p>The screenshot shows the 'Licensing' dialog box. Under 'Configure Authorization', 'Named User License' is selected. Under 'Configure your licensing options', 'ArcGIS Online' is selected with a radio button. The URL field is populated with 'https://www.arcgis.com/' and is highlighted with a red rectangle. The 'ArcGIS Enterprise' option is unselected. 'OK' and 'Cancel' buttons are at the bottom right.</p>
<p>Enter your login and password</p>	 <p>The screenshot shows the 'ArcGIS Sign In' dialog box. It prompts the user to sign in to 'DHI A/S - DHI Water Environment Health' with an ArcGIS account. There are input fields for 'Username' and 'Password', a 'Sign In' button, and a 'Cancel' button. Below the buttons are links for 'Forgot username?' and 'Forgot password?'. A 'Privacy' link is at the bottom right. A checkbox for 'Sign me in automatically' is at the bottom left.</p>

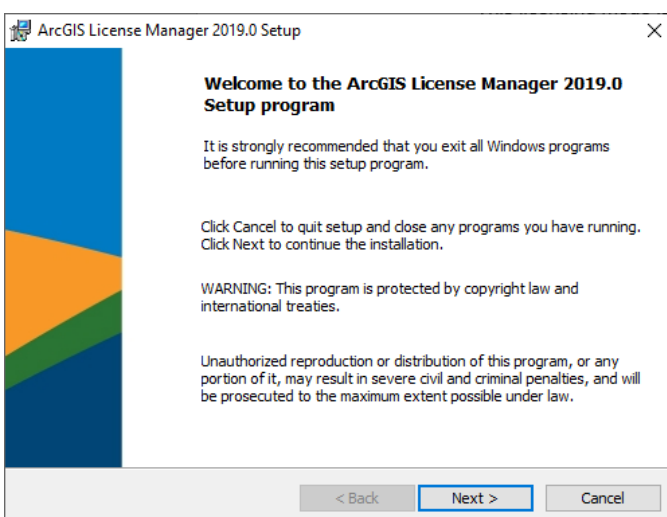
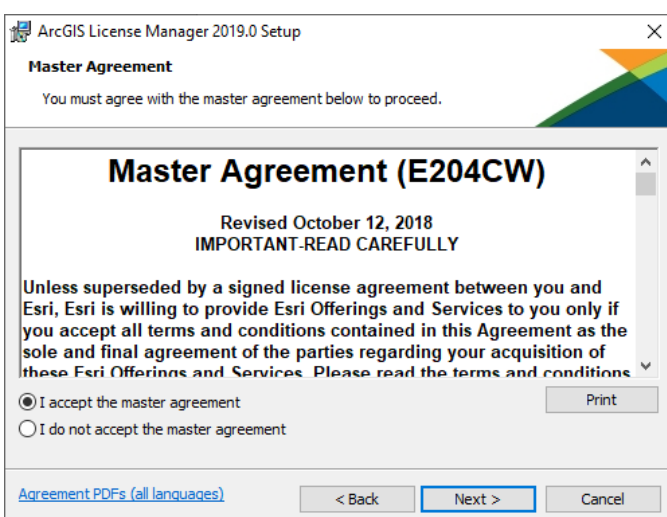
Authorization with a network license server and EFL code

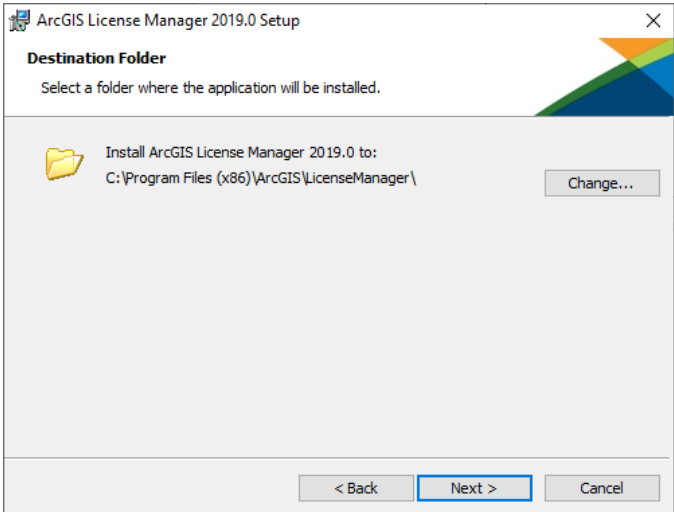
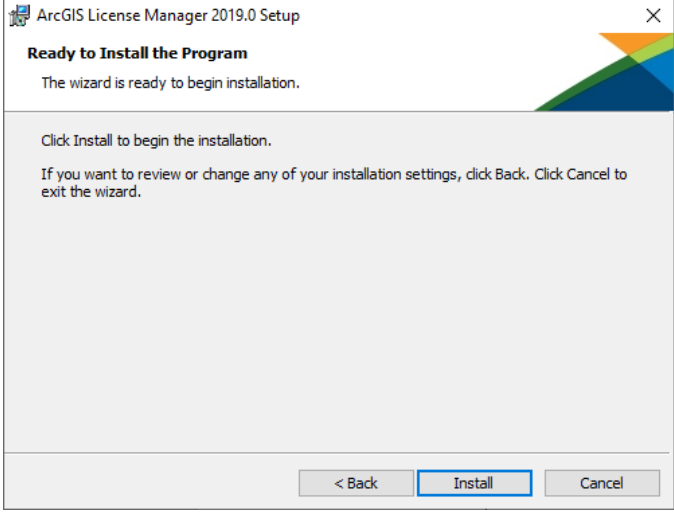
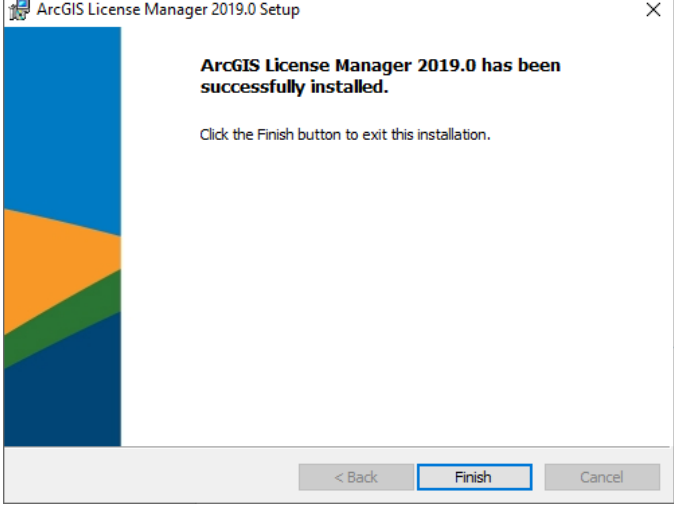
You have received a network license of ArcGIS Pro software with an ELF code (Concurrent use license, with format EFLXXXXXXXXX). Please follow these instructions to authorize the product.

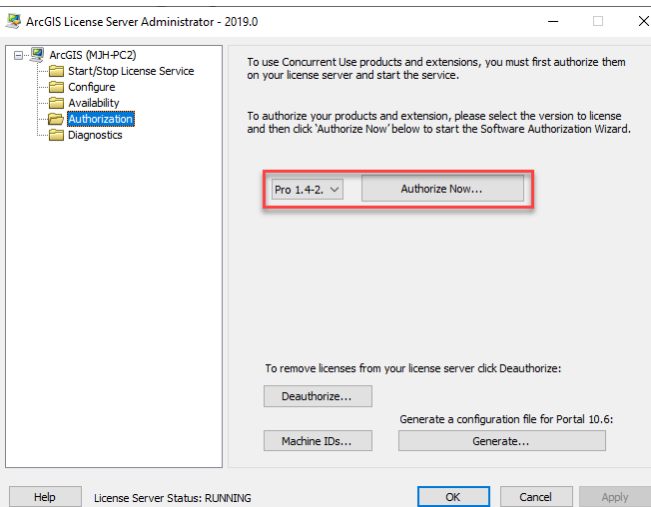
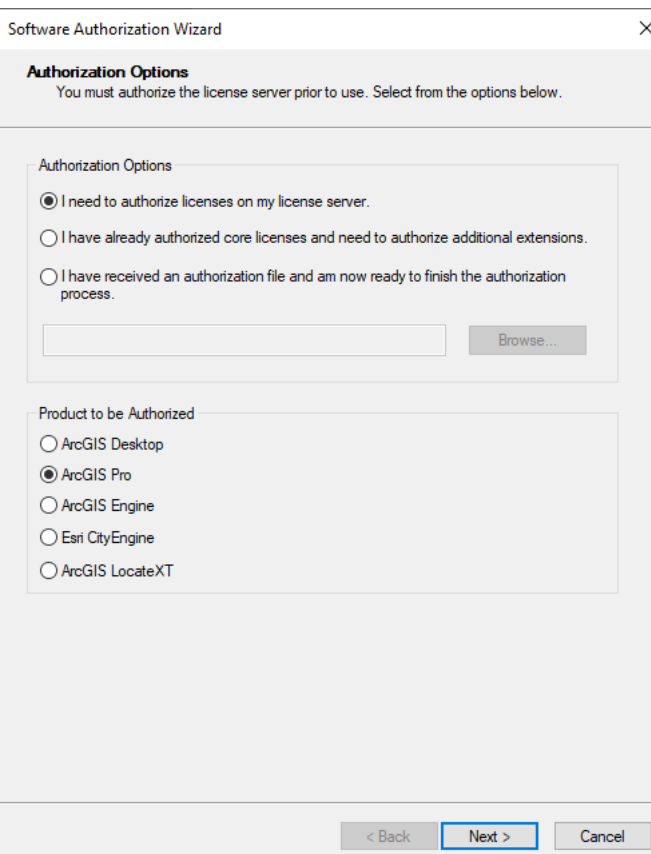
The ArcGIS License Manager in version 2019.2 or higher must be installed in order to make the licenses available. If you wish to use the software on your local PC without making it available in a network, you can install the license manager on the local PC. If

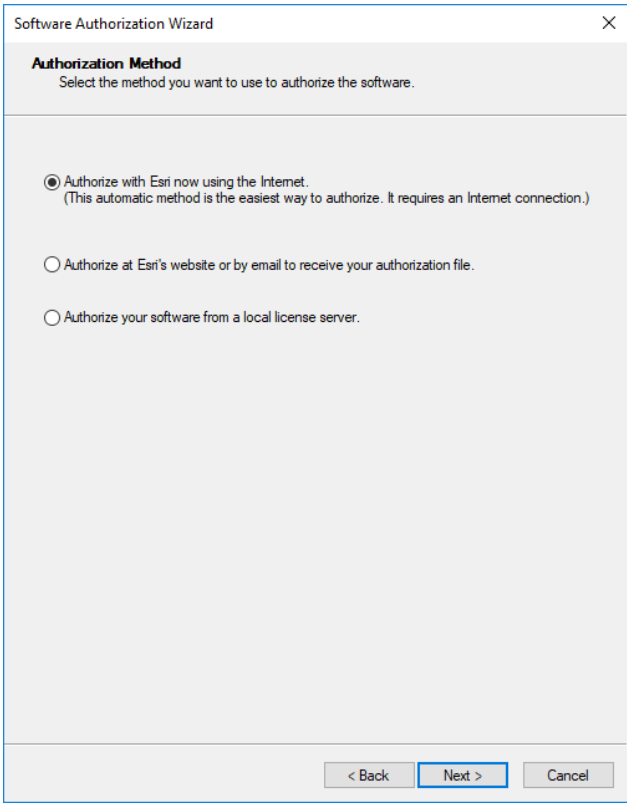
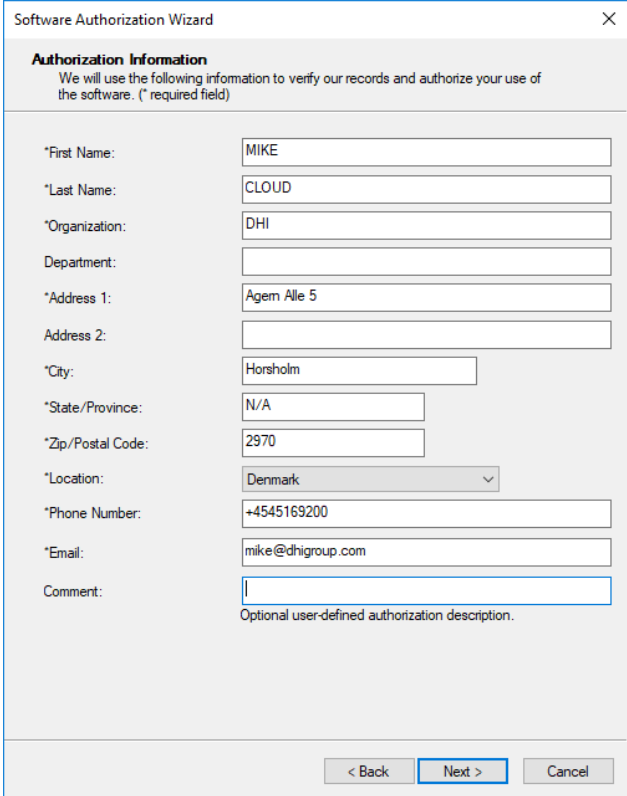
you wish to use a setup where you use a local installation of ArcGIS Pro and acquire its license from a license server, you can install it on a server in your local network.

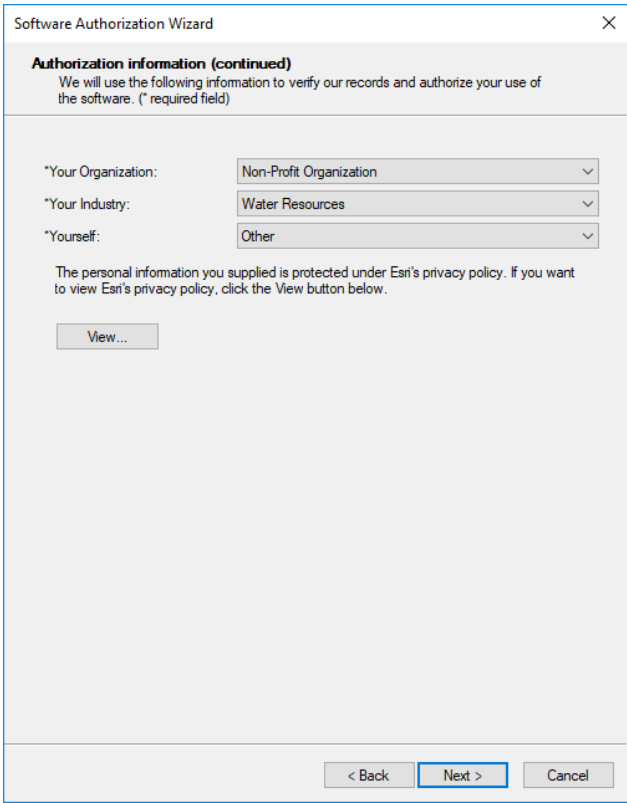
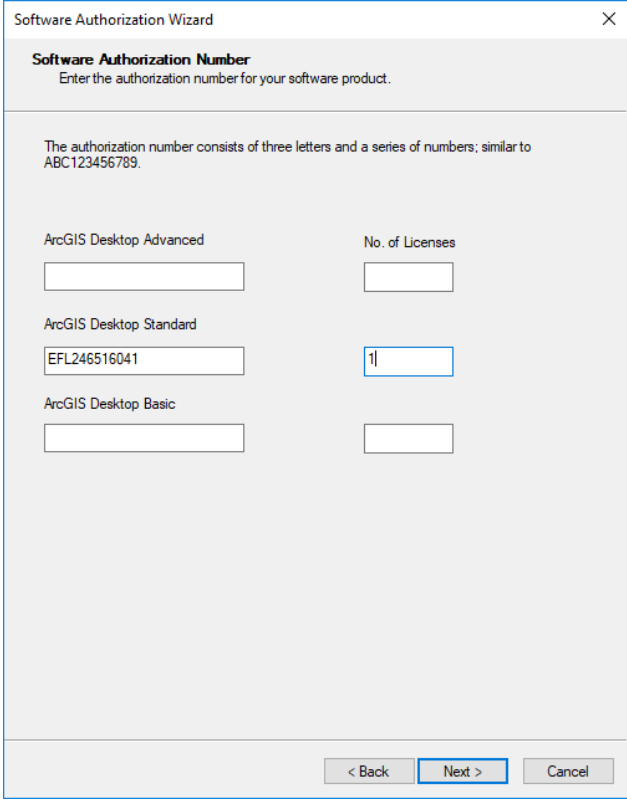
The corresponding installer is located in the “Prerequisites” sub-folder of the MIKE URBAN+ installation, under the folder ArcGIS License Manager 2019.2. If you already have an older version installed, please install the newer version, then the older version will be overwritten. Detailed info can be found here: <https://pro.arcgis.com/en/pro-app/get-started/authorize-arcgis-pro-with-concurrent-use-licenses.htm>

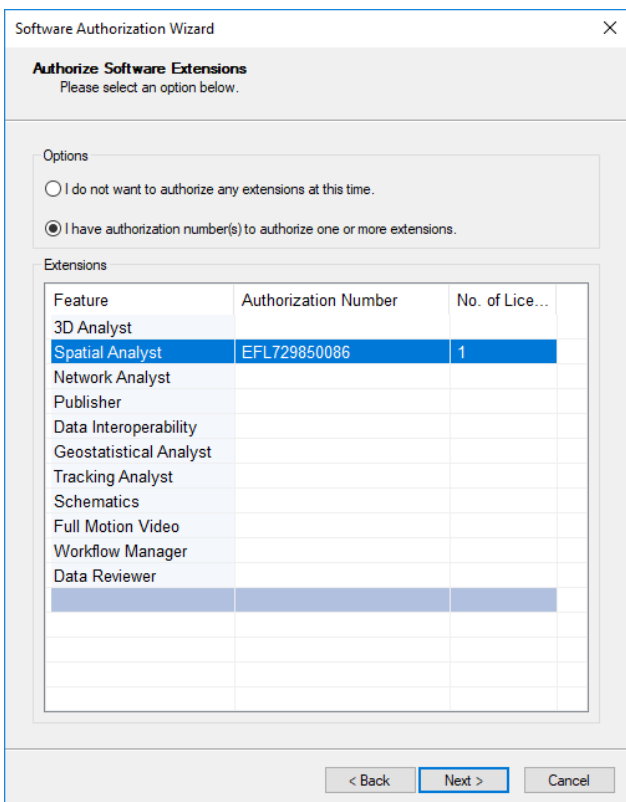
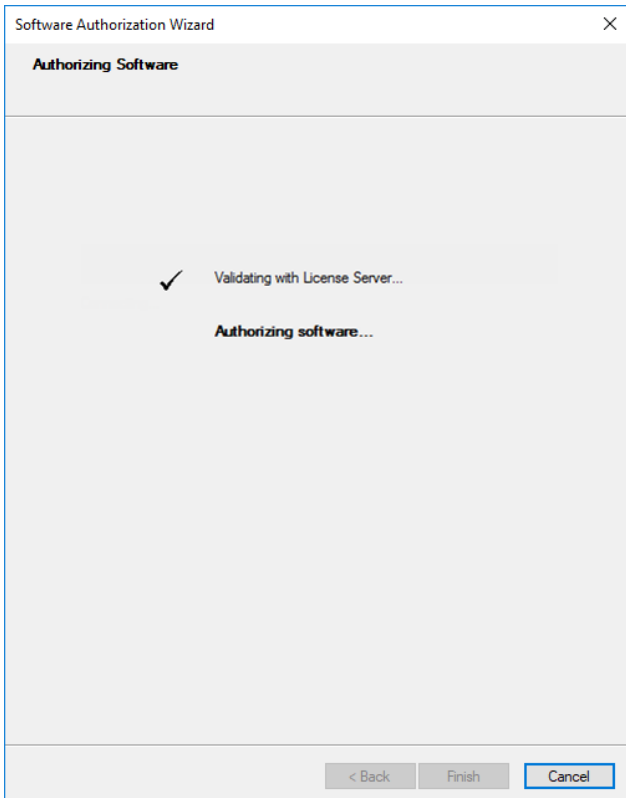
Installation step	Screen
<p>Run the <i>Setup.exe</i> program file from the installation media/download folder, in the ‘License Manager 20XX.X’ folder.</p> <p>Click Next</p>	 <p>The screenshot shows the 'ArcGIS License Manager 2019.0 Setup' window. It has a title bar with the program name and a close button. The main content area has a blue header with the text 'Welcome to the ArcGIS License Manager 2019.0 Setup program'. Below this, it says 'It is strongly recommended that you exit all Windows programs before running this setup program.' and 'Click Cancel to quit setup and close any programs you have running. Click Next to continue the installation.' There is a 'WARNING' section stating 'This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.' At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.</p>
<p>Select I accept the master agreement</p> <p>Click Next</p>	 <p>The screenshot shows the 'ArcGIS License Manager 2019.0 Setup' window at the 'Master Agreement' step. The title bar is the same. The main content area has a header 'Master Agreement' and a sub-header 'Master Agreement (E204CW)'. It says 'Revised October 12, 2018' and 'IMPORTANT-READ CAREFULLY'. The main text is a license agreement: 'Unless superseded by a signed license agreement between you and Esri, Esri is willing to provide Esri Offerings and Services to you only if you accept all terms and conditions contained in this Agreement as the sole and final agreement of the parties regarding your acquisition of these Esri Offerings and Services. Please read the terms and conditions'. Below the text are two radio buttons: 'I accept the master agreement' (selected) and 'I do not accept the master agreement'. There is a 'Print' button to the right. At the bottom, there are three buttons: 'Agreement PDFs (all languages)', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.</p>

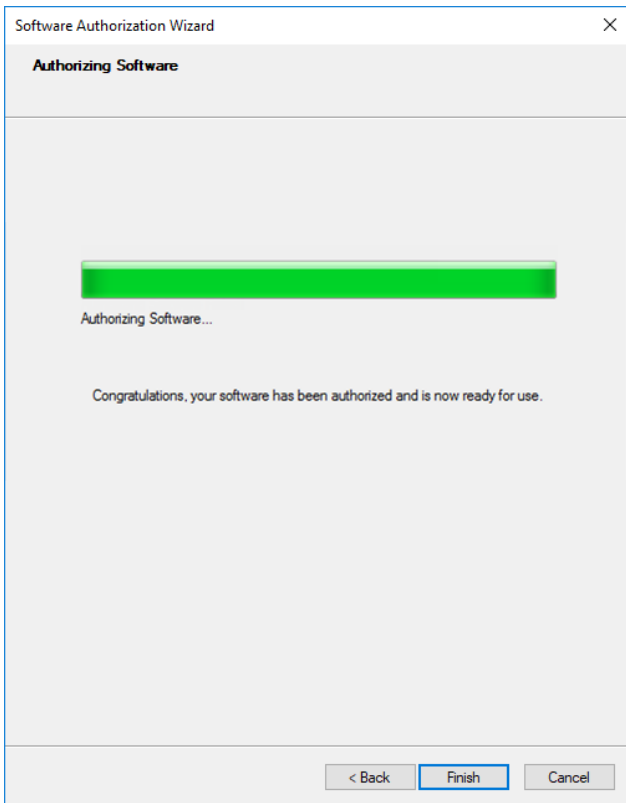
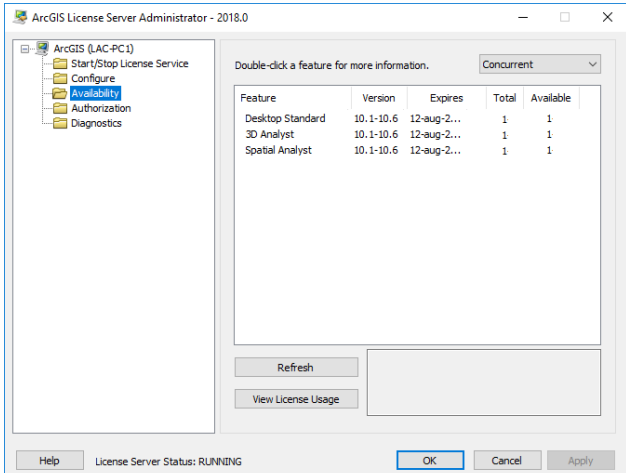
Installation step	Screen
Click Next	 <p>The screenshot shows the 'Destination Folder' screen of the ArcGIS License Manager 2019.0 Setup wizard. The title bar reads 'ArcGIS License Manager 2019.0 Setup'. The main text says 'Destination Folder' and 'Select a folder where the application will be installed.' Below this, a folder icon is shown next to the text 'Install ArcGIS License Manager 2019.0 to: C:\Program Files (x86)\ArcGIS\LicenseManager\'. A 'Change...' button is to the right. At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.</p>
Click Install The process may take several minutes	 <p>The screenshot shows the 'Ready to Install the Program' screen of the ArcGIS License Manager 2019.0 Setup wizard. The title bar reads 'ArcGIS License Manager 2019.0 Setup'. The main text says 'Ready to Install the Program' and 'The wizard is ready to begin installation.' Below this, it says 'Click Install to begin the installation.' and 'If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.' At the bottom, there are three buttons: '< Back', 'Install' (highlighted with a blue border), and 'Cancel'.</p>
Click Finish	 <p>The screenshot shows the success screen of the ArcGIS License Manager 2019.0 Setup wizard. The title bar reads 'ArcGIS License Manager 2019.0 Setup'. The main text says 'ArcGIS License Manager 2019.0 has been successfully installed.' and 'Click the Finish button to exit this installation.' At the bottom, there are three buttons: '< Back', 'Finish' (highlighted with a blue border), and 'Cancel'.</p>

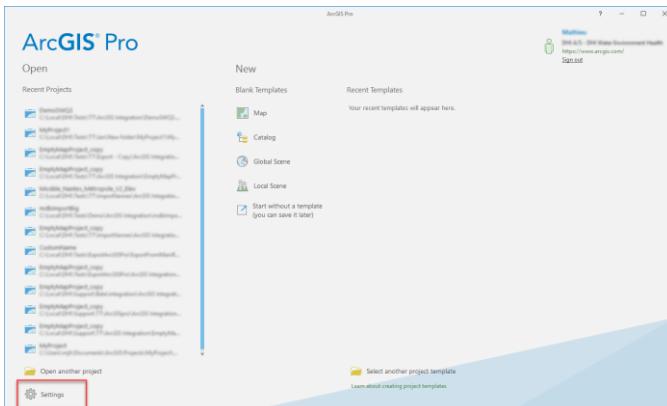
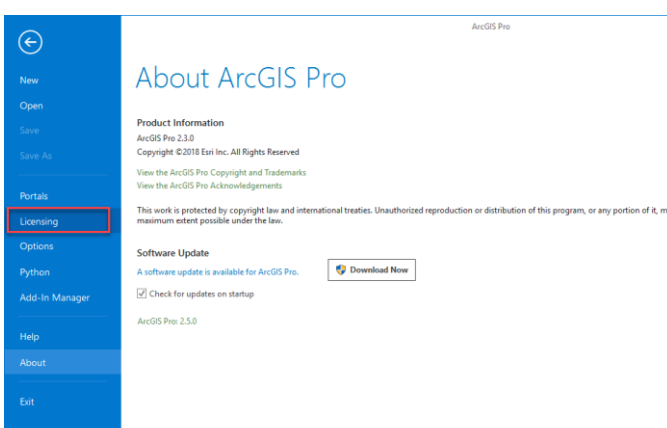
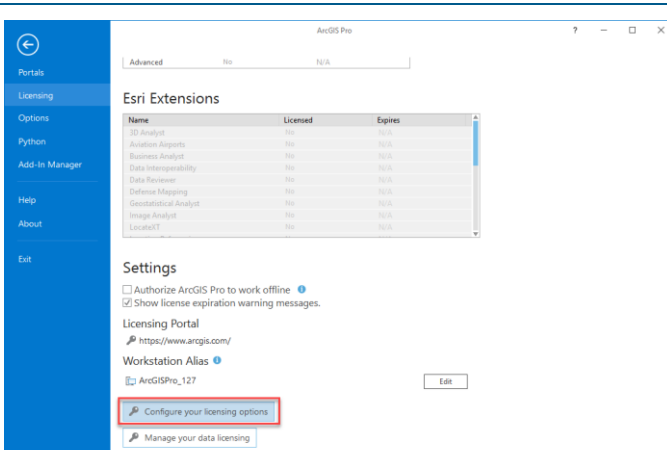
Installation step	Screen
<p>Select Pro X.X-X.X</p> <p>Click Authorize now</p>	
<p>Select 'I need to authorize licenses on my license server'</p> <p>Select the product ArcGIS Pro</p> <p>Click Next</p>	

Installation step	Screen
<p>Select this option</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard' with a close button. The main heading is 'Authorization Method' with the instruction 'Select the method you want to use to authorize the software.' There are three radio button options: <ul style="list-style-type: none"> <input checked="" type="radio"/> Authorize with Esri now using the Internet. (This automatic method is the easiest way to authorize. It requires an Internet connection.) <input type="radio"/> Authorize at Esri's website or by email to receive your authorization file. <input type="radio"/> Authorize your software from a local license server. At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'. </p>
<p>Fill in the necessary information</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard' with a close button. The main heading is 'Authorization Information' with the instruction 'We will use the following information to verify our records and authorize your use of the software. (* required field)'. Below this are several text input fields: <ul style="list-style-type: none"> *First Name: MIKE *Last Name: CLOUD *Organization: DHI Department: (empty) *Address 1: Agem Alle 5 Address 2: (empty) *City: Horsholm *State/Province: N/A *Zip/Postal Code: 2970 *Location: Denmark (dropdown menu) *Phone Number: +4545169200 *Email: mike@dhigroup.com Comment: (empty) Below the comment field is the text 'Optional user-defined authorization description.' At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'. </p>

Installation step	Screen
<p>Fill in the necessary information</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard'. Below the title bar, it says 'Authorization information (continued)'. A note states: 'We will use the following information to verify our records and authorize your use of the software. (* required field)'. There are three dropdown menus: '*Your Organization:' with 'Non-Profit Organization' selected, '*Your Industry:' with 'Water Resources' selected, and '*Yourself:' with 'Other' selected. Below these is a paragraph: 'The personal information you supplied is protected under Esri's privacy policy. If you want to view Esri's privacy policy, click the View button below.' There is a 'View...' button. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.</p>
<p>Fill in your ArcGIS Authorization code starting with EFL and select the number of seats you would like to authorize (1 seat per purchased license)</p> <p>If you have already authorized some seats earlier, they cannot be authorized again unless you have de-authorized them</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard'. Below the title bar, it says 'Software Authorization Number'. A note states: 'Enter the authorization number for your software product.' Another note states: 'The authorization number consists of three letters and a series of numbers; similar to ABC123456789.' There is a table with two columns: 'ArcGIS Desktop Advanced' and 'No. of Licenses'. The first row is for 'ArcGIS Desktop Advanced' with an empty text box and an empty text box. The second row is for 'ArcGIS Desktop Standard' with the text 'EFL246516041' in the text box and '1' in the text box. The third row is for 'ArcGIS Desktop Basic' with an empty text box and an empty text box. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.</p>

Installation step	Screen																																																
<p>If you have purchased any ArcGIS extensions, you must also authorize these with an EFL code provided for the extension(s). Enter them as shown.</p> <p>If not, choose 'I do not want to authorize any extensions at this time'.</p> <p>Click Next.</p>	 <table><thead><tr><th>Feature</th><th>Authorization Number</th><th>No. of Lice...</th></tr></thead><tbody><tr><td>3D Analyst</td><td></td><td></td></tr><tr><td>Spatial Analyst</td><td>EFL729850086</td><td>1</td></tr><tr><td>Network Analyst</td><td></td><td></td></tr><tr><td>Publisher</td><td></td><td></td></tr><tr><td>Data Interoperability</td><td></td><td></td></tr><tr><td>Geostatistical Analyst</td><td></td><td></td></tr><tr><td>Tracking Analyst</td><td></td><td></td></tr><tr><td>Schematics</td><td></td><td></td></tr><tr><td>Full Motion Video</td><td></td><td></td></tr><tr><td>Workflow Manager</td><td></td><td></td></tr><tr><td>Data Reviewer</td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table> <p>At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.</p>	Feature	Authorization Number	No. of Lice...	3D Analyst			Spatial Analyst	EFL729850086	1	Network Analyst			Publisher			Data Interoperability			Geostatistical Analyst			Tracking Analyst			Schematics			Full Motion Video			Workflow Manager			Data Reviewer														
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<p>The authorization process may take a couple of minutes</p>	 <p>Validating with License Server...</p> <p>Authorizing software...</p> <p>At the bottom of the window are three buttons: '< Back', 'Finish', and 'Cancel'.</p>																																																

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<p>Click Finish</p>	 <p>The screenshot shows the 'Software Authorization Wizard' dialog box. The title bar reads 'Software Authorization Wizard'. The main area is titled 'Authorizing Software'. A green progress bar is shown, and the text 'Authorizing Software...' is displayed. Below the progress bar, it says 'Congratulations, your software has been authorized and is now ready for use.' At the bottom, there are three buttons: '< Back', 'Finish' (highlighted with a blue border), and 'Cancel'.</p>																				
<p>Select Availability from the menu, and you will see which licenses you have available</p> <p>Click OK</p>	 <p>The screenshot shows the 'ArcGIS License Server Administrator - 2018.0' window. On the left is a tree view with folders: 'ArcGIS (LAC-PC1)', 'Start/Stop License Service', 'Configure', 'Availability' (highlighted), 'Authorization', and 'Diagnostics'. The main area is titled 'Double-click a feature for more information.' and has a 'Concurrent' dropdown menu. Below this is a table showing license availability:</p> <table><thead><tr><th>Feature</th><th>Version</th><th>Expires</th><th>Total</th><th>Available</th></tr></thead><tbody><tr><td>Desktop Standard</td><td>10.1-10.6</td><td>12-aug-2...</td><td>1</td><td>1</td></tr><tr><td>3D Analyst</td><td>10.1-10.6</td><td>12-aug-2...</td><td>1</td><td>1</td></tr><tr><td>Spatial Analyst</td><td>10.1-10.6</td><td>12-aug-2...</td><td>1</td><td>1</td></tr></tbody></table> <p>Below the table are 'Refresh' and 'View License Usage' buttons. At the bottom, there are 'Help', 'License Server Status: RUNNING', 'OK' (highlighted with a blue border), 'Cancel', and 'Apply' buttons.</p>	Feature	Version	Expires	Total	Available	Desktop Standard	10.1-10.6	12-aug-2...	1	1	3D Analyst	10.1-10.6	12-aug-2...	1	1	Spatial Analyst	10.1-10.6	12-aug-2...	1	1
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Installation step	Screen
<p>Start ArcGIS Pro</p> <p>Click Settings</p>	 <p>The ArcGIS Pro Start screen shows the 'Open' section with a list of recent projects. The 'Settings' icon in the bottom-left corner is highlighted with a red box.</p>
<p>Click Licensing</p>	 <p>The 'About ArcGIS Pro' screen is shown. The 'Licensing' option in the left-hand menu is highlighted with a red box.</p>
<p>Click Configure your licensing options</p>	 <p>The 'Licensing' screen is shown. The 'Configure your licensing options' link in the 'Settings' section is highlighted with a red box.</p>

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<p>Select the appropriate settings and specify the license manager's host name</p> <p>Click OK</p>	<div><h3>Licensing</h3><div><h4>Configure Authorization</h4><p>Select your authorization type from the drop-down list below:</p><div><div>License Type</div><div>Concurrent Use License</div><div>Learn More</div></div></div><div><h4>License Level</h4><p>Select the Pro core product license level below:</p><div><div>Advanced</div><div>Standard</div><div>Basic</div></div></div><div><div>License Manager</div><div>Not_Set</div><div>Invalid Host Name</div><div>Add Backup</div></div><table><thead><tr><th>Name</th><th>Licensed</th><th>Available Seats</th><th>Expires</th></tr></thead><tbody><tr><td>ArcGIS Pro Standard</td><td><input type="checkbox"/></td><td>0</td><td>N/A</td></tr></tbody></table><div>Refresh</div><div><div>OK</div><div>Cancel</div></div></div>	Name	Licensed	Available Seats	Expires	ArcGIS Pro Standard	<input type="checkbox"/>	0	N/A
Name	Licensed	Available Seats	Expires						
ArcGIS Pro Standard	<input type="checkbox"/>	0	N/A						