

MIKE OPERATIONS

Installation Guide 2020.2



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1 Introduction

This installation guide covers the installation of MIKE OPERATIONS 2020.2 and related Modules (MIKE WORKBENCH, MIKE INFO) and required 3rd party software

MIKE OPERATIONS and MIKE INFO can be deployed in different ways – ranging from a personal installation to a corporate installation.

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.
3. Web installation, which allows for an organisation to access MIKE OPERATIONS over the Internet.

This installation guide describes the installation process for all the different deployment patterns and required associated 3rd party software.

Installation of MIKE OPERATIONS Web and MIKE INFO Web are described in separate installation guides.

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 OPERATIONS depend on some prerequisites as listed below.

1. A PostgreSQL database server with the PostGIS spatial database extender. The installation and configuration are part of the standard installer.

MIKE OPERATIONS support the following combinations of the two products:

- PostgreSQL 9.4 and PostGIS 2.1.8 (build 13780)
- PostgreSQL 9.5 and PostGIS 2.2.1 (build 14555)
- PostgreSQL 9.6 and PostGIS 2.3.0 (build 15146)
- PostgreSQL 9.6 and PostGIS 2.3.1 (build 15264)
- PostgreSQL 9.6 and PostGIS 2.3.2 (build 15302)
- PostgreSQL 9.6 and PostGIS 2.4.1 (build 16012)
- PostgreSQL 9.6 and PostGIS 2.4.4 (build 16526)
- PostgreSQL 9.6 and PostGIS 2.5.1 (build 17027)
- PostgreSQL 10.0 and PostGIS 2.4.1 (build 16012)
- PostgreSQL 10.0 and PostGIS 2.4.4 (build 16526)
- PostgreSQL 10.3 and PostGIS 2.4.3 (build 16312)
- PostgreSQL 10.3 and PostGIS 2.4.4 (build 16526)
- PostgreSQL 10.4 and PostGIS 2.4.4 (build 16526)
- PostgreSQL 10.5 and PostGIS 2.5.0 (build 16836)
- PostgreSQL 10.6 and PostGIS 2.5.0 (build 16836)
- PostgreSQL 10.6 and PostGIS 2.5.1 (build 17027)
- PostgreSQL 10.7 and PostGIS 2.5.2 (build 17328)
- PostgreSQL 10.9 and PostGIS 2.5.2 (build 17328)
- PostgreSQL 10.10 and PostGIS 2.5.3 (build 17699)
- PostgreSQL 11.0 and PostGIS 2.5.0 (build 16836)
- PostgreSQL 11.1 and PostGIS 2.5.0 (build 16836)
- PostgreSQL 11.1 and PostGIS 2.5.1 (build 17027)
- PostgreSQL 11.2 and PostGIS 2.5.2 (build 17328)
- PostgreSQL 11.4 and PostGIS 2.5.2 (build 17328)
- PostgreSQL 11.5 and PostGIS 2.5.3 (build 17699)

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

Versions accepted by MIKE OPERATIONS can be maintained in the file "DssDatabases.cfg.xml" of the MIKE OPERATIONS installation folder.

2. The DHI License Management application. The installation wizard of the DHI License Manager is included in the MIKE OPERATIONS installer.
3. Microsoft .NET framework 4.7.2

3 MIKE OPERATIONS Installation/Upgrade

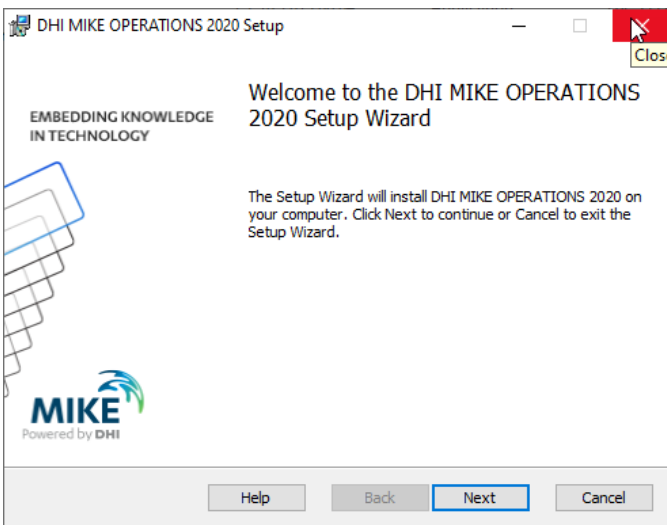
MIKE OPERATIONS 2020.2 is installed by running the *Setup.exe* program coming with the installation media. The installation process consists of two parts.

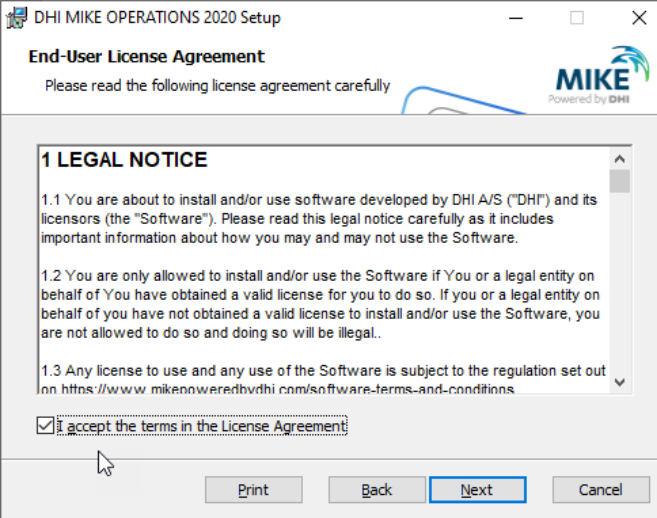
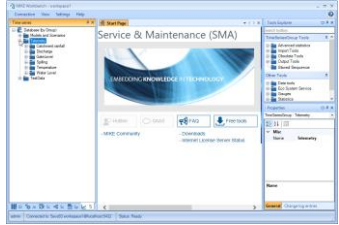
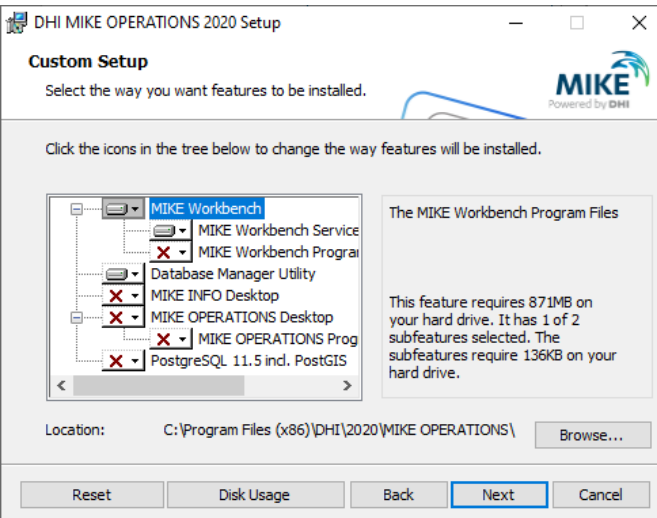
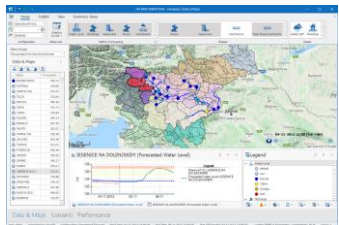
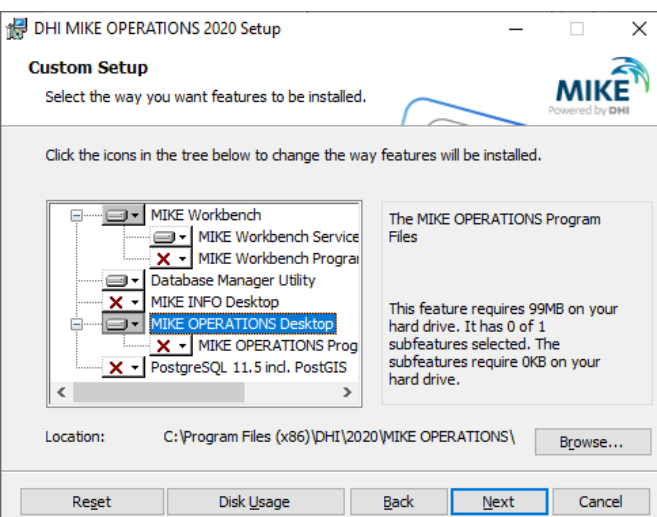
1. Installation of possible required MIKE 2020 components – only applicable if there is no MIKE Zero installation present.
2. Installation of MIKE OPERATIONS 2020.2 software files including MIKE Workbench, MIKE INFO, MIKE OPERATIONS desktop and PostgreSQL + PostGIS

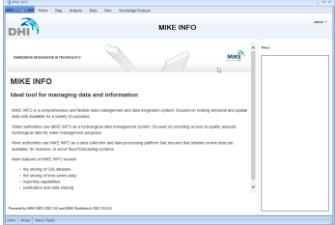
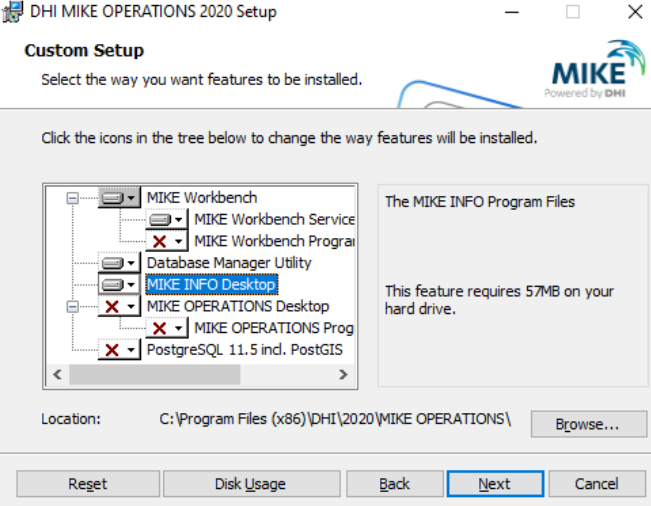
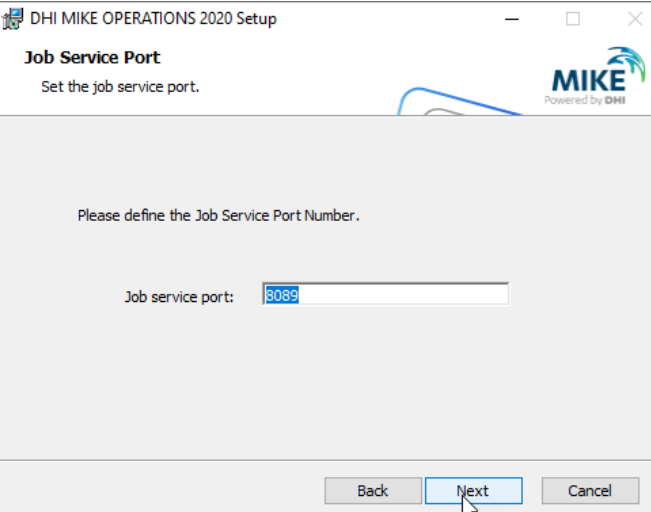
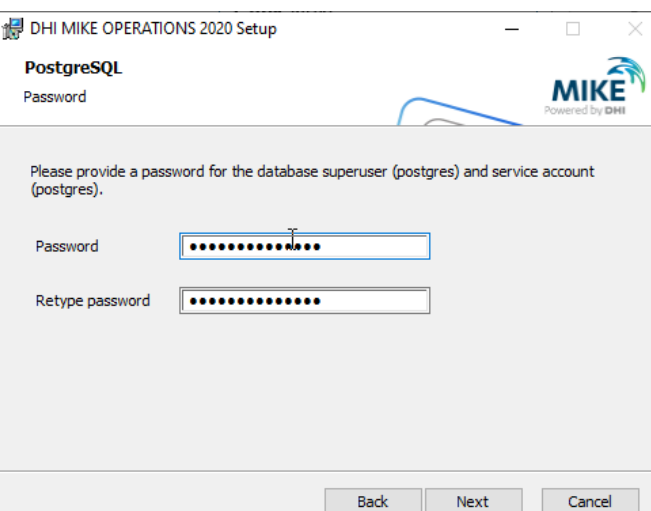
Installation of the MIKE OPERATIONS 2020.2 software package is simple and requires no user interactions beyond accepting the license conditions and specifying the installation folder.

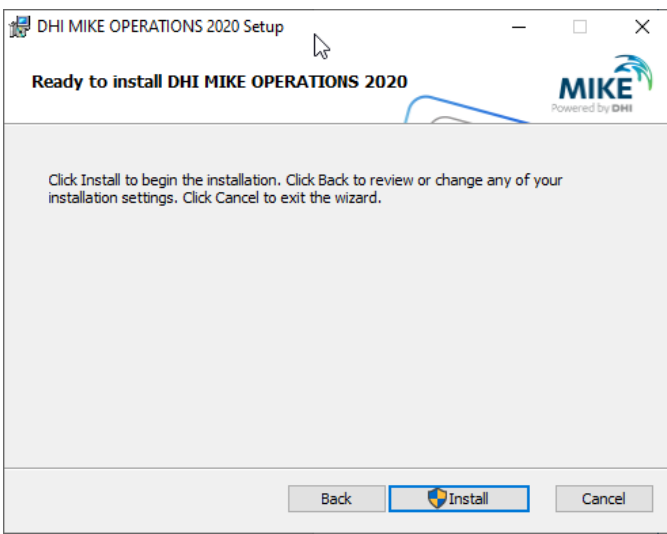
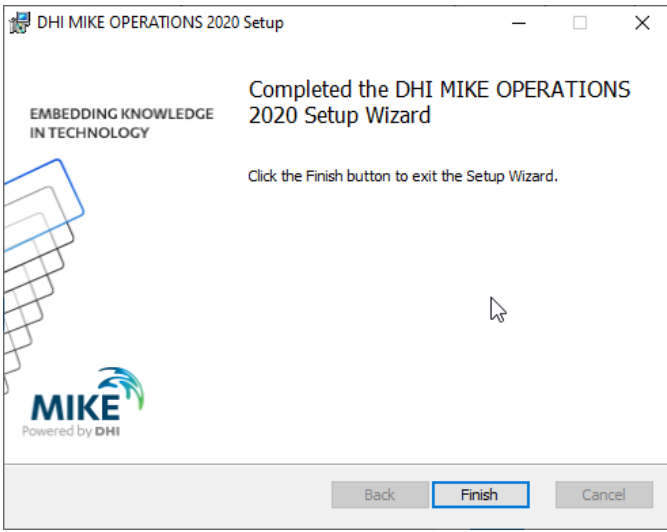
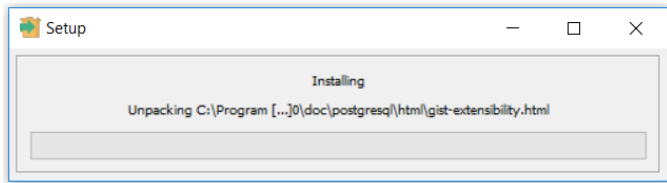
The following table explains how to install or upgrade MIKE OPERATIONS, MIKE WORKBENCH, MIKE INFO and required 3rd party software.

If you are installing MIKE OPERATIONS for the first time, PostgreSQL 11.5 and PostGIS 2.5.3 will be installed by default. If you want to use a different version, refer to APPENDIX A.

Installation step	Screen
<p>Run the setup.exe file from the installation media/download folder.</p> <p><i>Note: In case the DHI License Manager is not installed, the installation wizard of the DHI License Manager will start.</i></p> <p><i>Refer to the installation guide of the DHI License Manager for more information about features and license configuration.</i></p> <p>Click Next</p>	

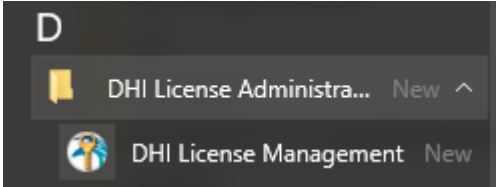
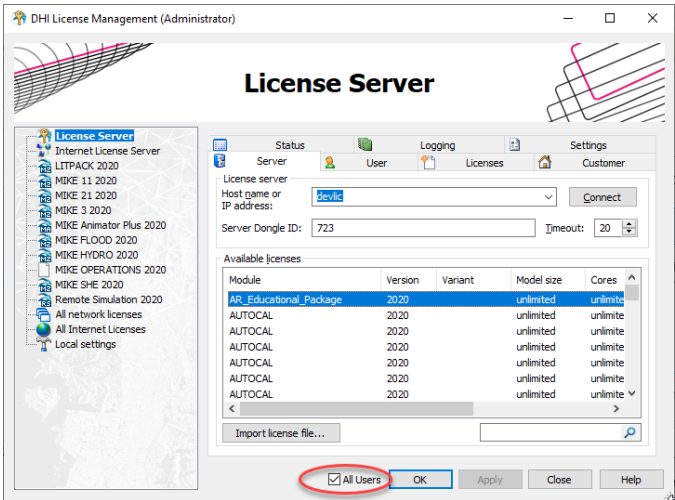
Installation step	Screen
<p>Accept the license agreement</p> <p>Click Next</p>	
<p>Select the components to install.</p> <p>MIKE Workbench and the Database Manager Utility is required components when installing MIKE OPERATIONS.</p> 	
<p>MIKE OPERATIONS Desktop</p> 	

Installation step	Screen
<p>MIKE INFO Desktop</p>  <p>Click Next</p>	 <p>Click Next</p>
<p>Job Service Port</p> <p>Specify the port to use for the Job Manager Service.</p> <p>Use the default port (8089).</p> <p><i>Note: If the Job Manager fails to start, this might be because the default port used for the Job Manager Service is already used. In that case, please restart the installation process and select a different port number.</i></p> <p>Click Next</p>	 <p>Click Next</p>
<p>If you are doing a fresh installation and want to use a local database server, you will be asked to provide a password for PostgreSQL database.</p> <p>Provide Password to the PostgreSQL database</p> <p>Click Next</p> <p>Note: The password should be used whenever the Database Manager Utility is used or PostgreSQL native software PgAdmin is applied</p>	 <p>Click Next</p>

Installation step	Screen
<p>Click Install</p>	
<p>Click Finish</p>	
<p>If you are doing a fresh installation, Wait until installation of PostgreSQL and PostGIS is complete</p> <p>And</p> <p>Click OK to complete the installation</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.

Installation step	Screen
<p>Open the DHI License Management program in the start menu as admin</p>	
<p>There three different options:</p> <ul style="list-style-type: none"> • Internet License • Network License • Local License (dongle) <p>Note: All Users must be ticked to allow job execution</p> <p>Please look in the documentation found by clicking the Help button or contact your local MIKE Sales representative.</p>	

5 Set Up Database

Once the software is installed for the first time, it is required to set up a database. This includes connecting to a database file or server, creating a database and making a database connection.

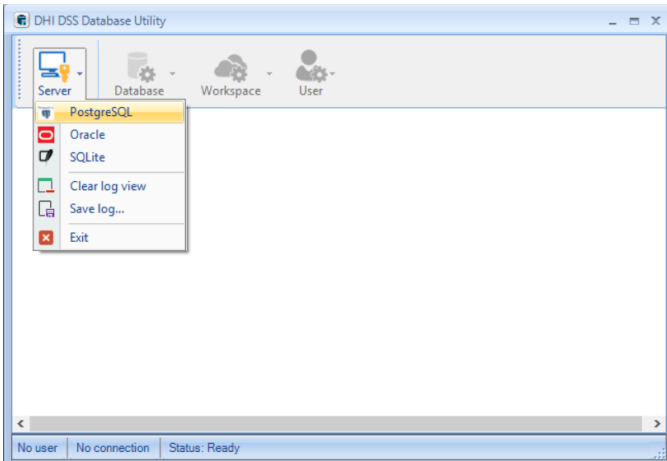
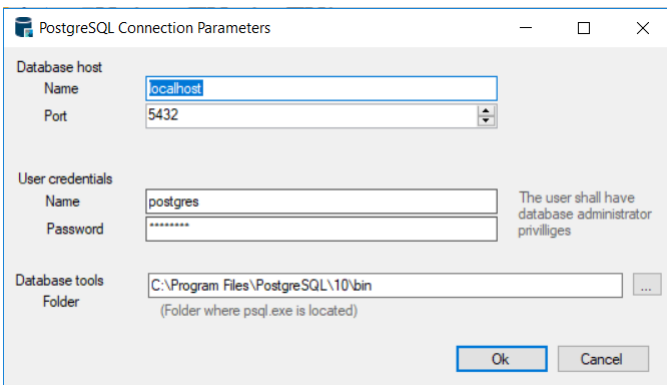
5.1 Connecting to a database

From your Windows client machine, launch **Database Manager Utility**, this can be located by going to the Start menu and search for **Database Manager Utility**.

MIKE OPERATIONS support three types of database.

5.1.1 Connecting to PostgreSQL

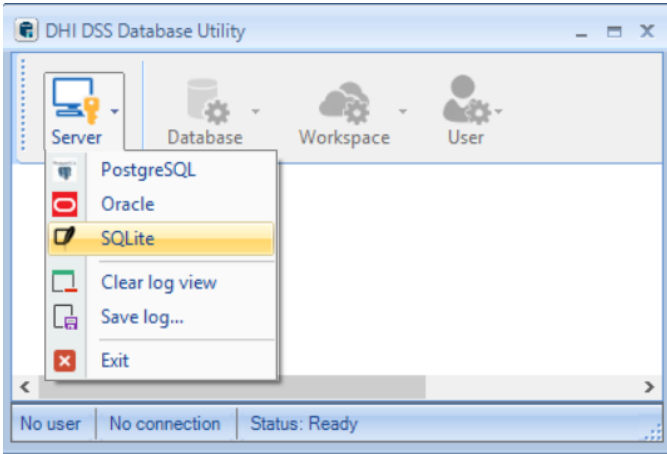
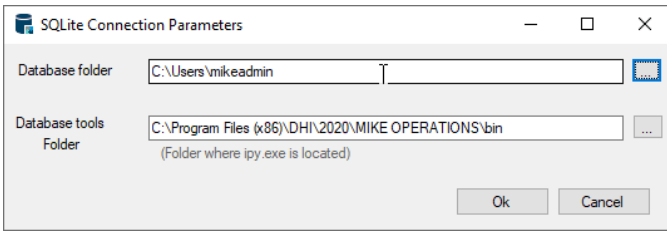
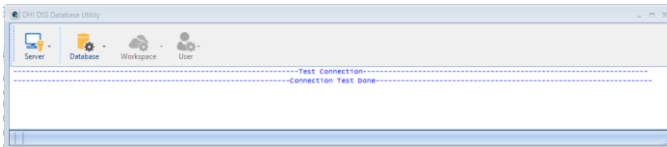
PostgreSQL is the recommended database to use with MIKE OPERATIONS.

Instructions	Screen
<p>Click the server name to expand the server tree and select the server type as PostgreSQL.</p>	 <p>The screenshot shows the 'DHI DSS Database Utility' window. The 'Server' menu is open, showing options: PostgreSQL (highlighted), Oracle, SQLite, Clear log view, Save log..., and Exit. The status bar at the bottom indicates 'No user No connection Status: Ready'.</p>
<p>Selecting a database server type in the menu will open the login dialog, where you are prompted to insert some connection parameters.</p> <ul style="list-style-type: none"> • Name of computer running the database: localhost • The communication port: 5432 • Name of the user: postgres (keep as default) • Password of the user: established during installation • The path to database server tools: keep as default 	 <p>The screenshot shows the 'PostgreSQL Connection Parameters' dialog box. The fields are: Database host Name (localhost), Port (5432), User credentials Name (postgres), Password (masked with asterisks), and Database tools Folder (C:\Program Files\PostgreSQL\10\bin). A note states: 'The user shall have database administrator privileges'. 'Ok' and 'Cancel' buttons are at the bottom right.</p>

Click **Ok** to establish the connection, and to get the list of databases on the server listed in the log screen.

5.1.2 Connecting to SQLite (Freeware)

SQLite database is a file-based database (similar to Microsoft Access). This can be accessed by only one user at the time. This database is the only one supported by the Freeware version and should be used only for testing purposes.

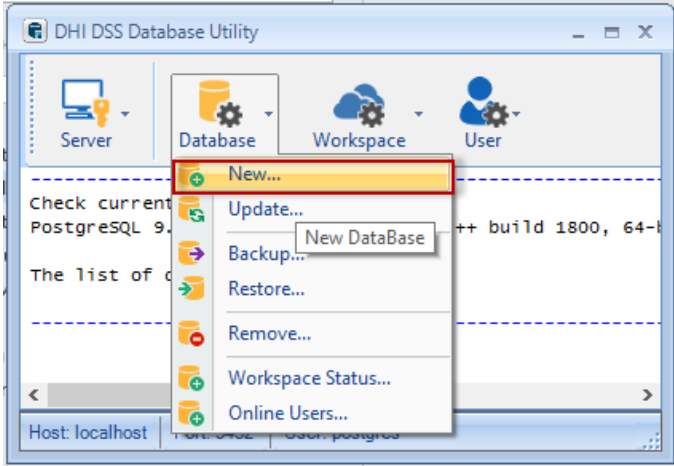
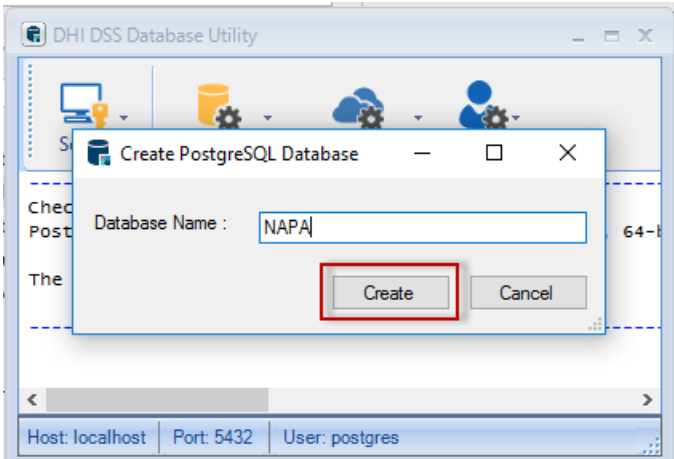
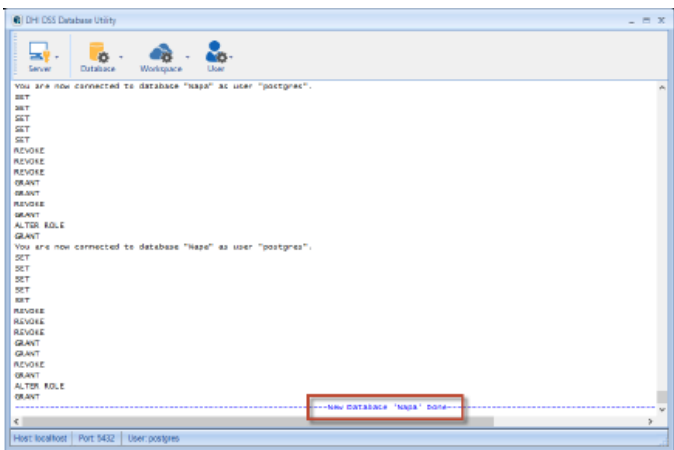
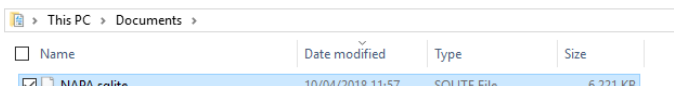
Instructions	Screen
<p>Click the server name to expand the server tree and select the server type as SQLite.</p>	 <p>The screenshot shows the 'DHI DSS Database Utility' window. The 'Server' menu is open, showing options: PostgreSQL, Oracle, SQLite (highlighted), Clear log view, Save log..., and Exit. The status bar at the bottom indicates 'No user', 'No connection', and 'Status: Ready'.</p>
<p>Selecting a where the database file will be created.</p> <p>Click Ok</p>	 <p>The screenshot shows the 'SQLite Connection Parameters' dialog box. It has two text input fields: 'Database folder' with the value 'C:\Users\mikeadmin' and 'Database tools Folder' with the value 'C:\Program Files (x86)\DHI\2020\MIKE OPERATIONS\bin'. There are 'Ok' and 'Cancel' buttons at the bottom right.</p>
<p>Wait until the connection is established.</p>	 <p>The screenshot shows the 'DHI DSS Database Utility' window after the connection. The status bar now shows 'Test Connection' and 'Connection Test done', indicating a successful connection.</p>

5.1.3 Connecting to Oracle

MIKE OPERATIONS can work with Oracle database, but the GIS information is not supported.

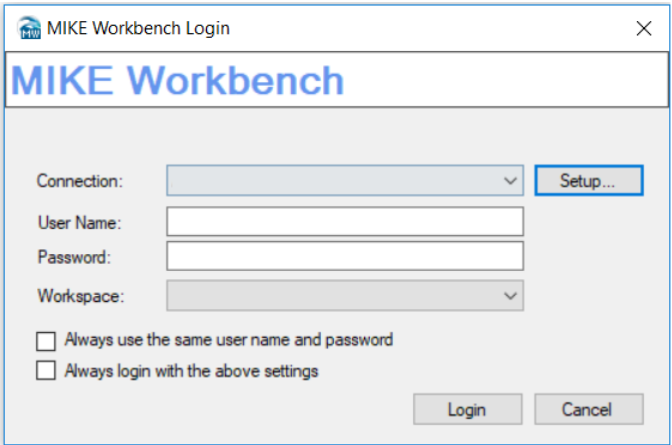
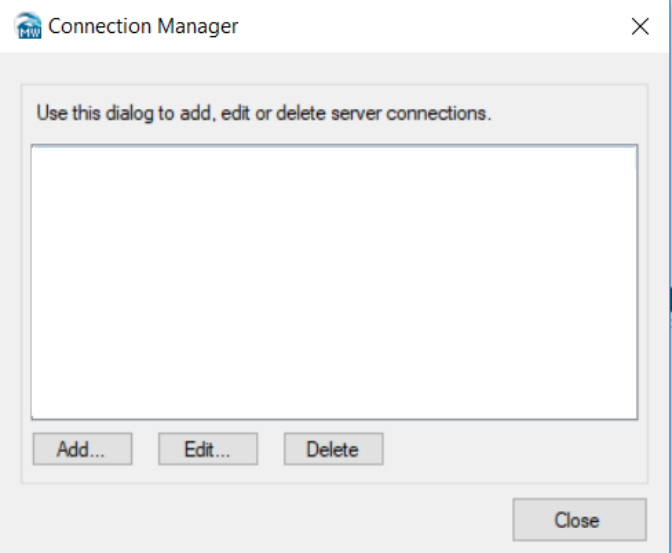
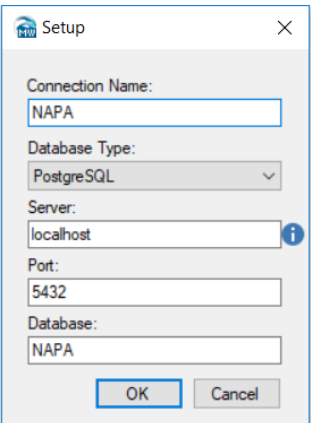
5.2 Create a new MIKE OPERATIONS database

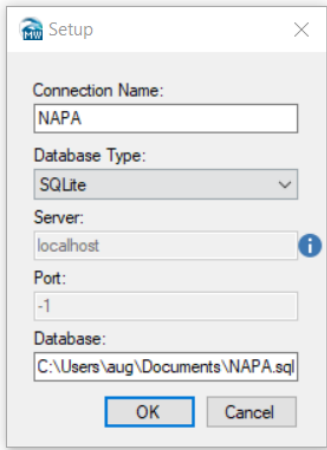
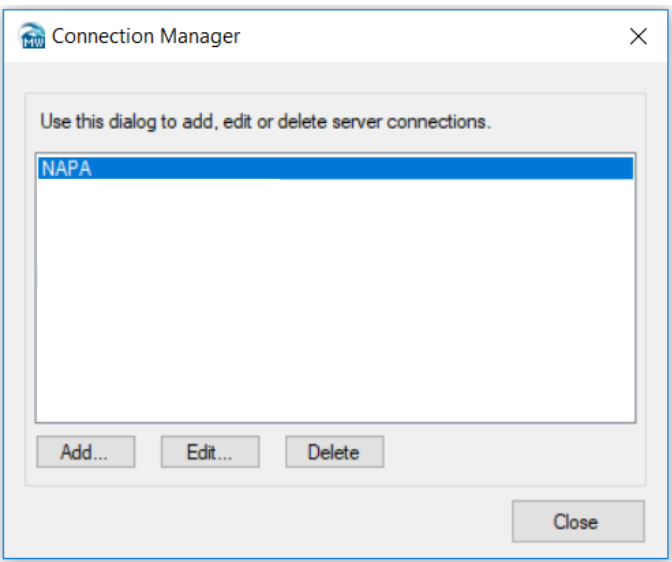
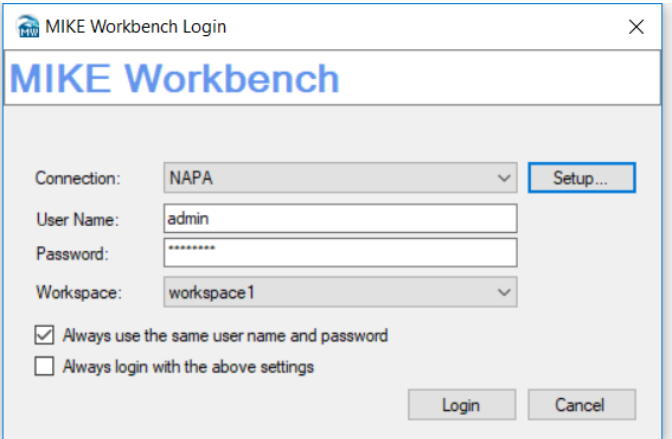
It is now required to create a new database.

Instructions	Screen
<p>Click on the database node, and select "New"</p>	
<p>Give a name (e.g. NAPA) to the new database and click Create.</p>	
<p>Wait until the database has been created and close the application.</p> <p><i>The log depends on the type of database used.</i></p>	
<p>In the case of an SQLite database, ensure the file was created locally.</p>	

5.3 Connect to MIKE OPERATIONS database

Finally, a database connection must be created in MIKE WORKBENCH.

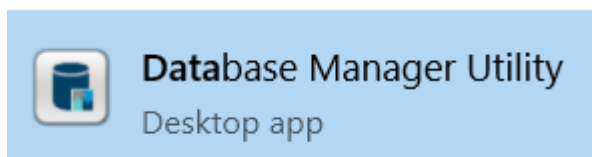
Instructions	Screen
<p>When opening MIKE WORKBENCH, a connection window appears</p> <p>Click "Setup..."</p>	
<p>A connection manager then allow you to create a connection</p> <p>Click "Add..."</p>	
<p>For PostgreSQL, you should define the Server name. In the current example, we work with a database installed locally and the Server name should be set to "localhost".</p> <p>The <i>Database</i> entry should match the name provided in chapter 5.1</p> <p>For SQLite, you should define the path to the sqlite file.</p>	

Instructions	Screen
<p>Connection Name can be any unique name you chose.</p> <p>Click OK</p>	
<p>The newly created connection appears in the list.</p> <p>Click Close</p>	
<p>The Connection menu now shows the newly created database connection.</p> <p>By default, the pre-configured administrator account is called "admin". The password is "dssadmin"</p> <p>This should be changed after logging in to the system.</p> <p>Click "Login"</p>	

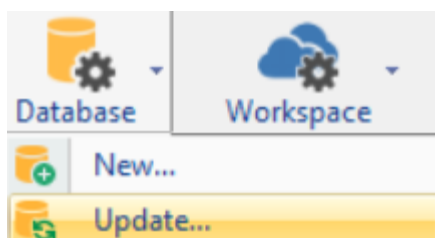
6 Updating Existing Database

If you are doing an update, you should ensure the database version and the MIKE OPERATIONS version are consistent. Indeed, from one version to another one, the database schema usually evolved.

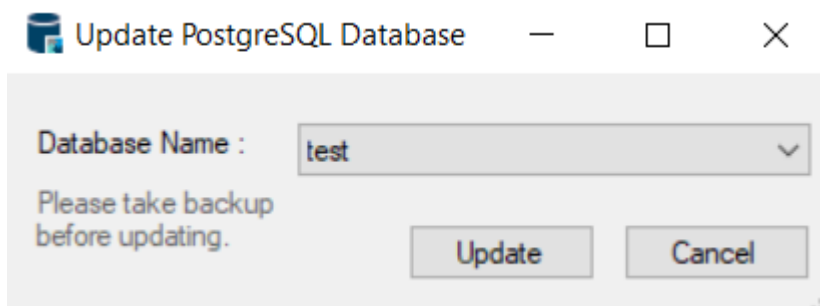
The database must be updated with the Database Utility.



After connecting to your PostgreSQL database server, you should select "Update".



Finally, you should select the database to update.



Beware that after updating the database, MIKE OPERATIONS users working with the earlier version of the software will not be able to use the database. After the database has been updated everybody using the database should update the client.

7 Database Server Update

This chapter concerns users:

- **Installing** MIKE OPERATIONS on a computer different from the database server
- **Upgrading** MIKE OPERATIONS on a computer different from the database server
- **Updating** a database with Database Management Utility from a computer different from the database server

From version 2017.5, the Mesh Database was implemented in MIKE OPERATIONS. This requires a specific dll to be located on the database server. The installer and the Database Management Utility will copy automatically if PostgreSQL is installed locally. In the case PostgreSQL is not installed locally, the user will need to carry out the following steps to ensure MIKE OPERATIONS works correctly:

- Locate and copy the file called “DHI_mesh.dll” in the MIKE OPERATIONS bin folder¹
- Log in to the computer on which the database server is installed (PostgreSQL)
- Paste the file to the “lib” folder of the PostgreSQL installation².

¹ E.g. C:\Program Files (x86)\DHI\2020\MIKE OPERATIONS\bin\PostgreSQL


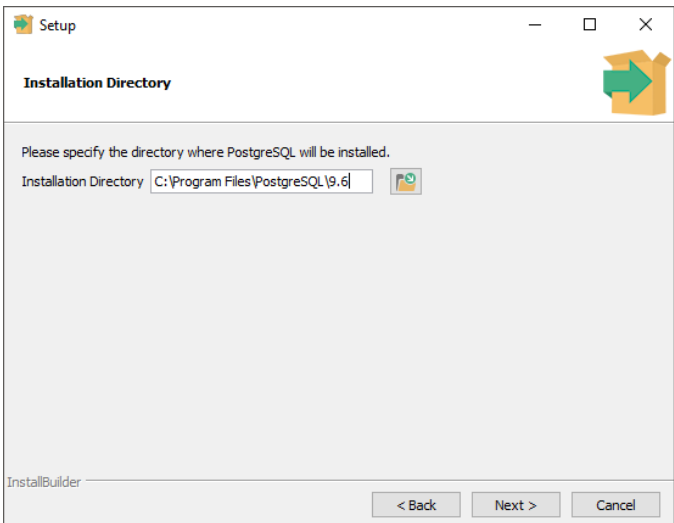
² C:\Program Files\PostgreSQL\11\lib (or relevant DB folder)

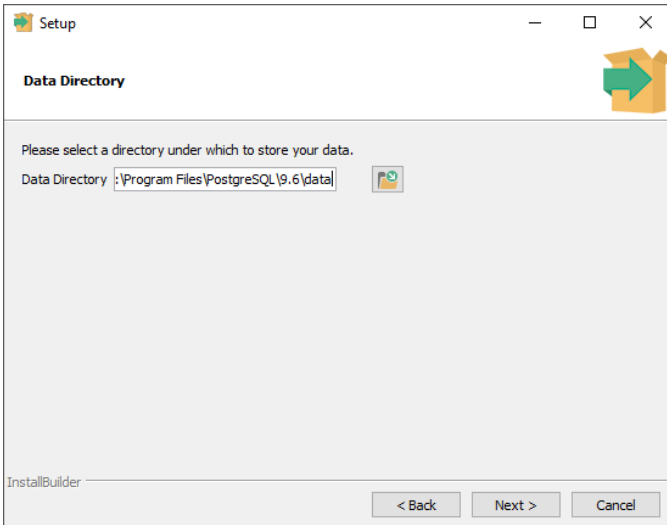
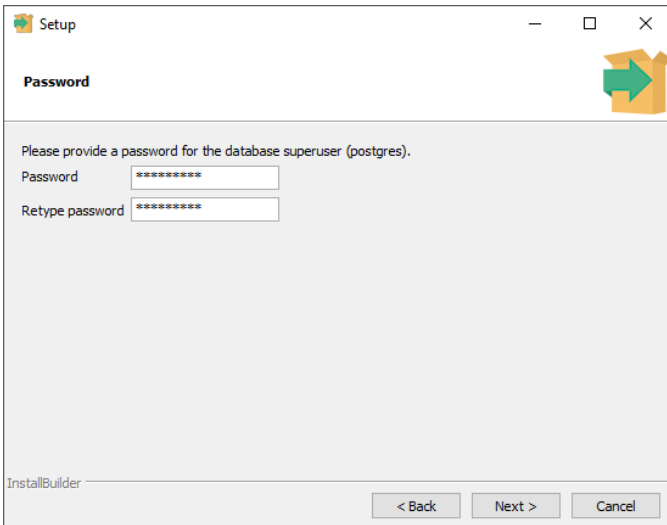
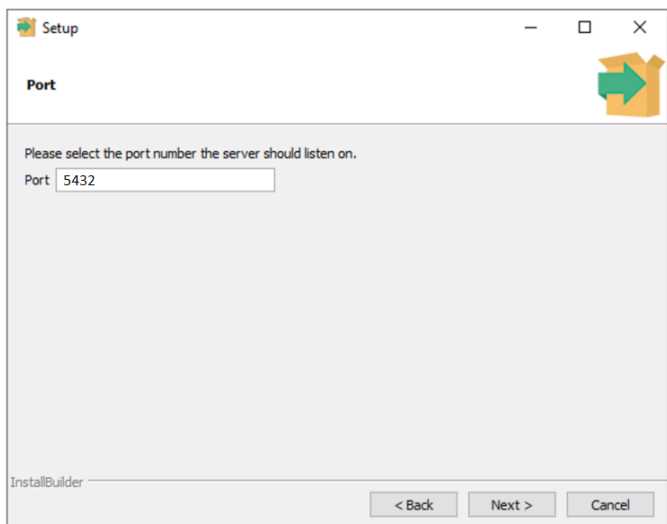
APPENDIX A: Install different version of PostgreSQL

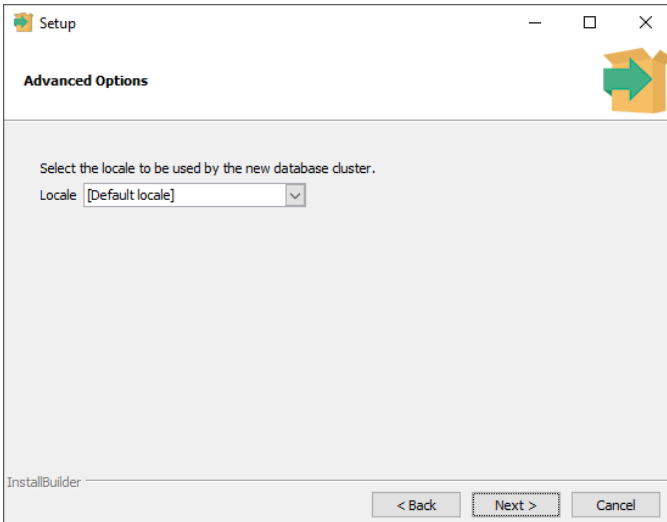
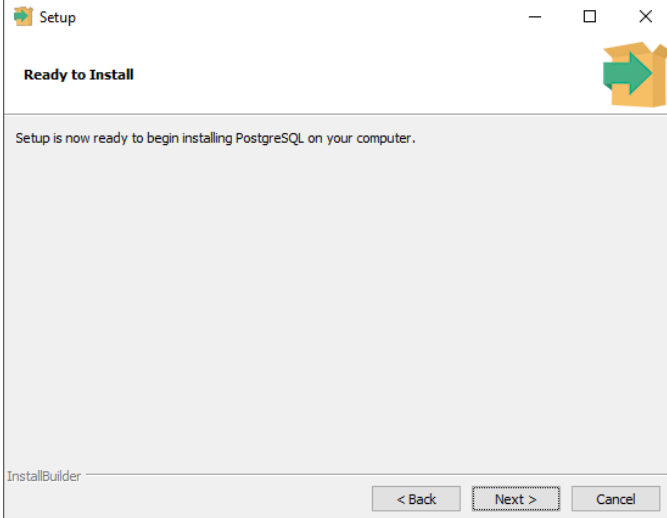
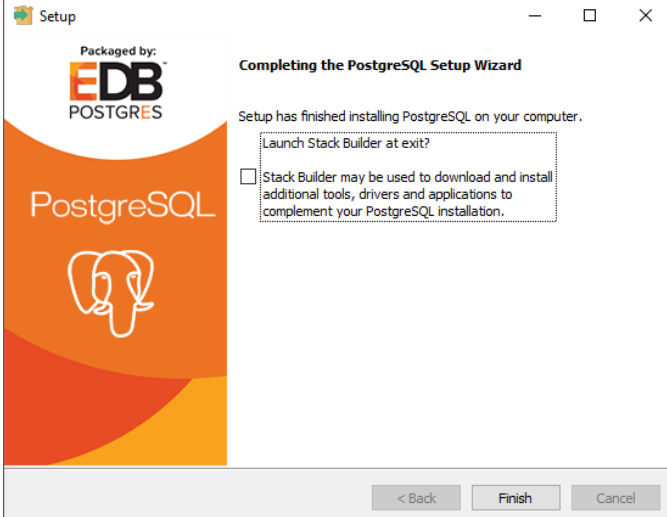
As mentioned in Chapter 2, it is possible to use several versions of PostgreSQL database.

PostgreSQL Installation

The following table explains how to install a PostgreSQL database downloaded from [internet](#).

Installation step	Screen
Run the database installation program e.g. postgresql-XX.X-X-windows-x64.exe	
Start of installation Click Next	
Accept the default installation folder Click Next	

Installation step	Screen
<p>Accept the default data folder.</p> <p>Click Next</p>	
<p>Type in a password of your choice for the “postgres” user (the administrator for the database server).</p> <p>Note: Do not forget this password</p> <p>Click Next</p>	
<p>Accept the default port number (5432)</p> <p>Click Next</p>	

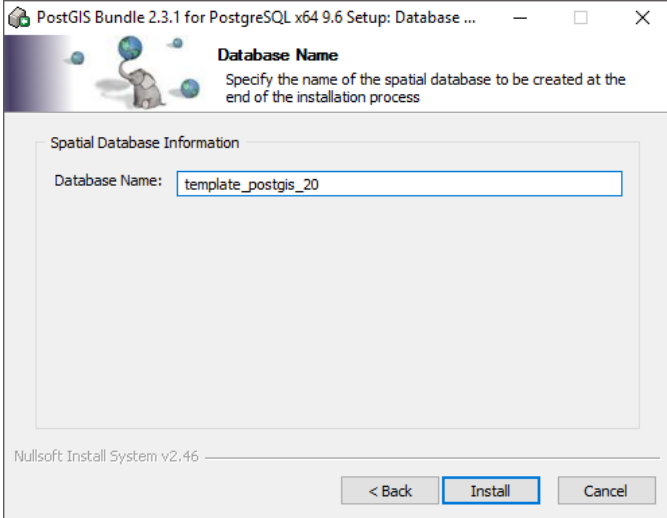
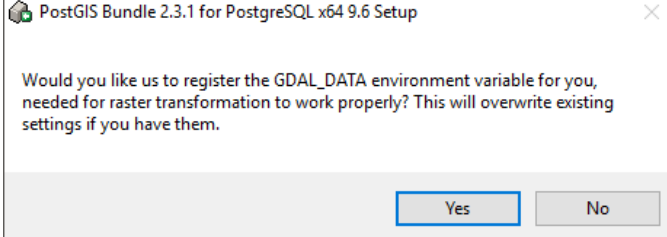
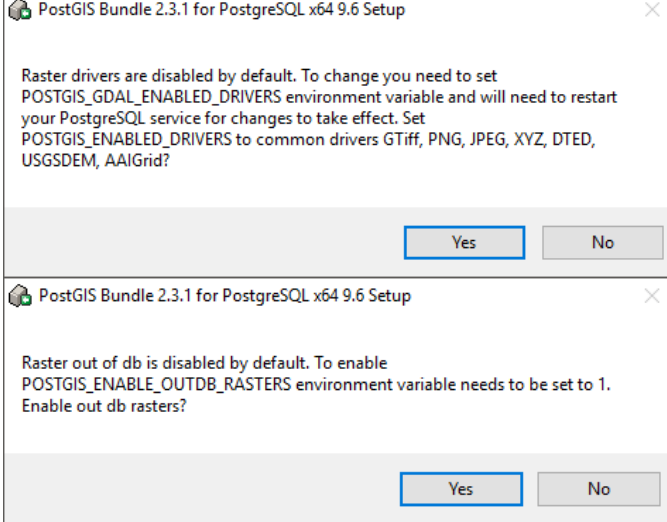
Installation step	Screen
<p>Leave the "Locale" as "Default Locale"</p> <p>Click Next</p>	
<p>Click Next</p>	
<p>The database server installation has finished</p> <p>Click off the "Launch Stack Builder at exit?" option and then click Finish</p>	

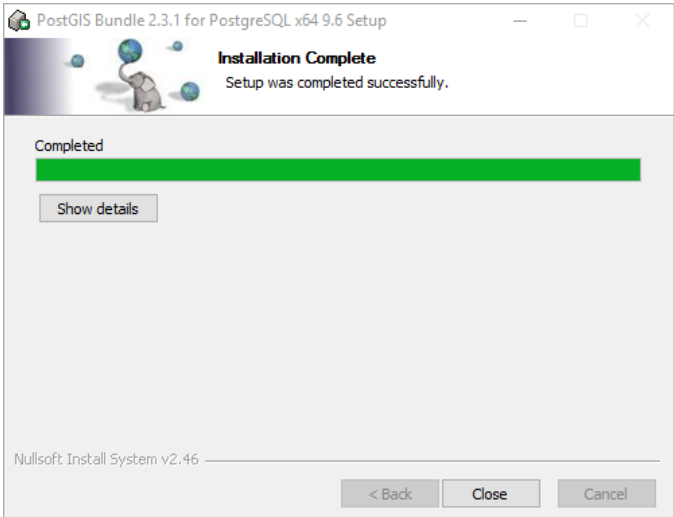
PostGIS Installation

The following table explains how to install PostgreSQL exemplified by using a PostGIS postgres-bundle-pgXXx64-setup-X.X.X-X.exe installer from [internet](#).

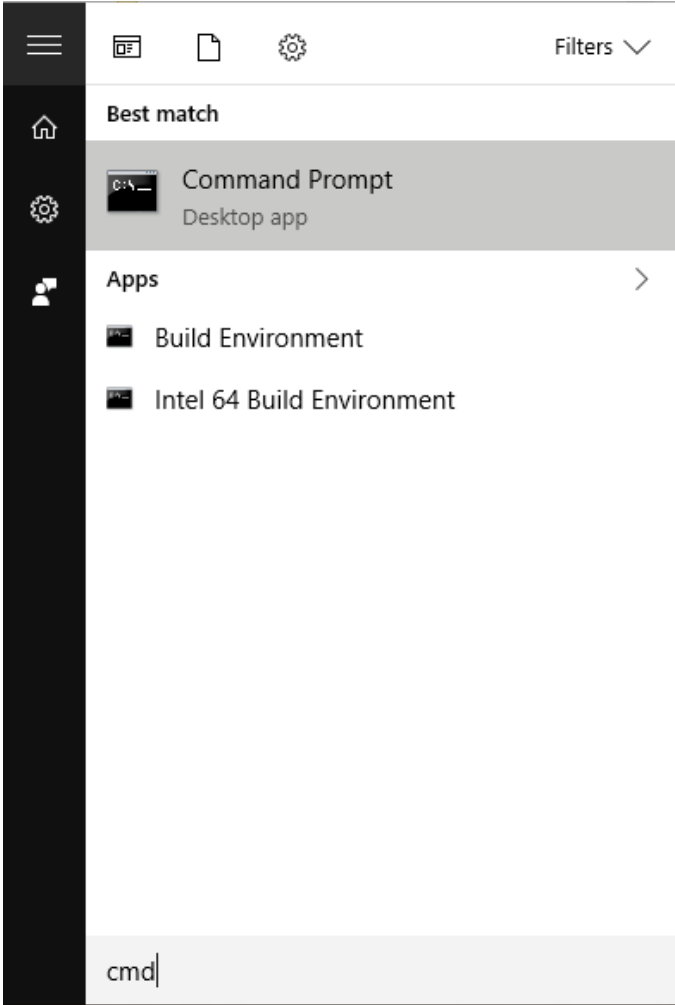
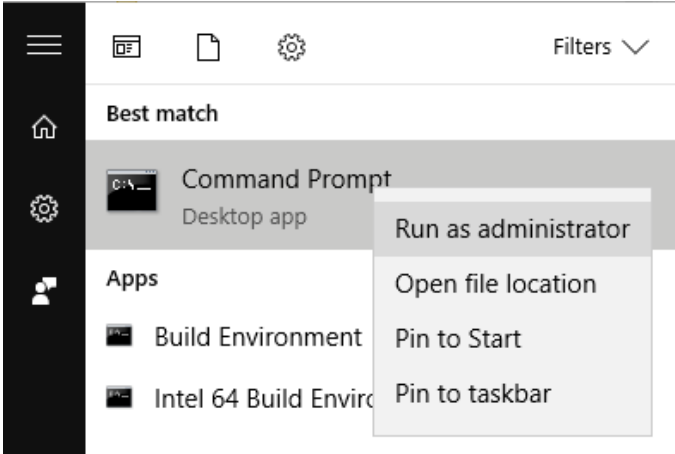
Installation step	Screen
<p>Run the PostGIS installation program (e.g. postgres-bundle-pg96x64-setup-2.3.1-1.exe)</p>	
<p>Start of installation</p> <p>Click I Agree</p>	
<p>Check “Create spatial database”</p> <p>Click Next</p>	

Installation step	Screen
<p>Accept the default folder.</p> <p>Click Next</p>	
<p>Type in the password that was specified for the “postgres” user when installing the PostgreSQL database server</p> <p>Click Next</p>	
<p>Rename the Spatial database:</p> <p>template_postgis_20</p>	

Installation step	Screen
	
<p>Yes, to the GDAL_Data environment variable</p> <p>Click Yes</p>	
<p>Yes, to both set of environment variables</p> <p>Click Yes</p>	

Installation step	Screen
<p>The installation has finished</p> <p>Click Close</p>	 <p>The screenshot shows a window titled "PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup". The main content area displays "Installation Complete" and "Setup was completed successfully." Below this is a green progress bar labeled "Completed" and a "Show details" button. At the bottom, there are three buttons: "< Back", "Close", and "Cancel". The footer of the window reads "Nullsoft Install System v2.46".</p>

Configuration of PostGIS

Installation step	Screen
<p>Open the Windows Command Prompt</p> <p>Click the Windows Start Menu and type "cmd"</p>	 <p>The screenshot shows the Windows Start Menu search interface. The search bar at the top contains the text 'cmd'. Below the search bar, the results are categorized into 'Best match' and 'Apps'. Under 'Best match', 'Command Prompt' is listed as a 'Desktop app' and is highlighted. Under 'Apps', 'Build Environment' and 'Intel 64 Build Environment' are listed. At the bottom of the window, the search input 'cmd' is visible in a text box.</p>
<p>Right-click on cmd.exe and choose Run as administrator</p>	 <p>This screenshot is similar to the previous one, but with a context menu open over the 'Command Prompt' result. The context menu options are: 'Run as administrator', 'Open file location', 'Pin to Start', and 'Pin to taskbar'. The 'Run as administrator' option is highlighted.</p>

Installation step	Screen
<p>In the command prompt type SETX /M PROJSO libproj-9.dll and press enter</p>	
<p>Restart the computer to make the environment variable available to PostGIS</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.

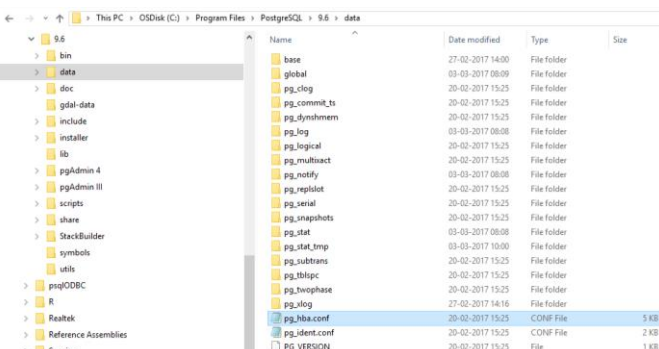
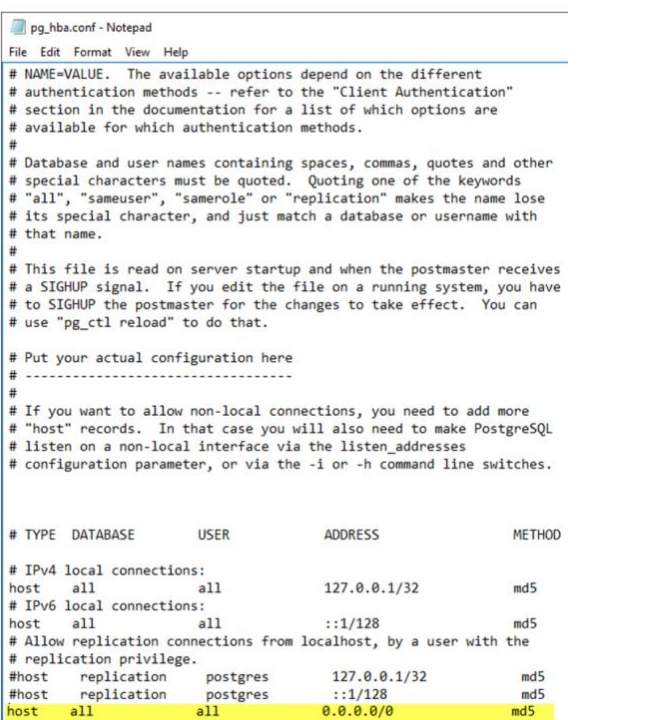
Installation step	Screen
<p>Start the pgAdmin 4 database administration tool from the Windows Start menu</p>	
<p>An internet browser opens</p>	
<p>Right click the database server entry for localhost under the Servers node to access “Connect Server”</p>	
<p>Provide the password for the “postgres” user 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>	

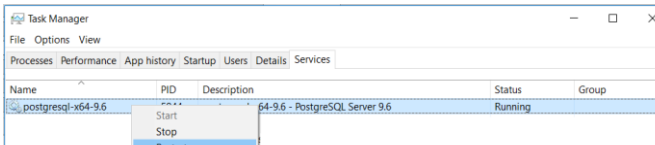
APPENDIX C: Configuring the PostgreSQL Database Server for remote access

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.


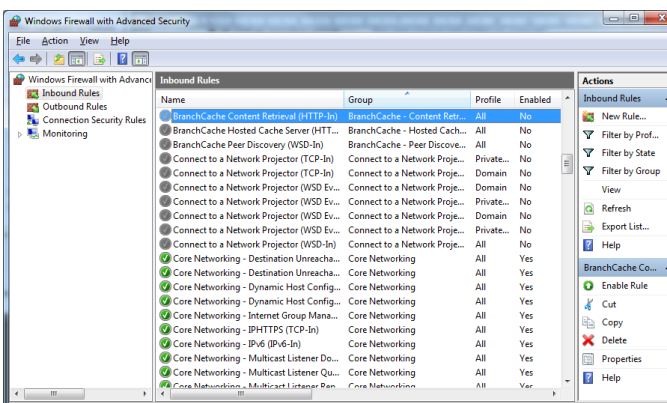
Start by enabling password save as shown in APPENDIX B.

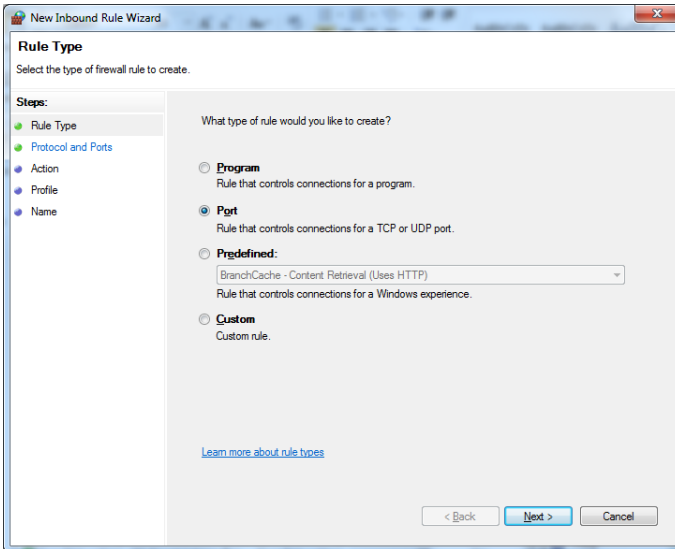
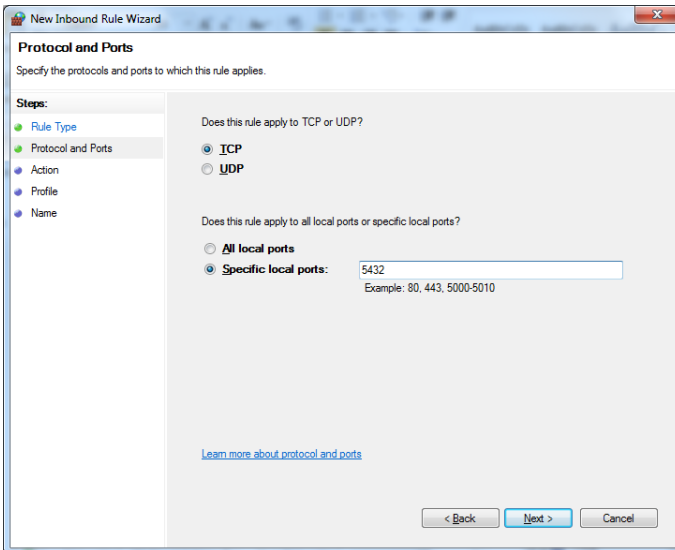
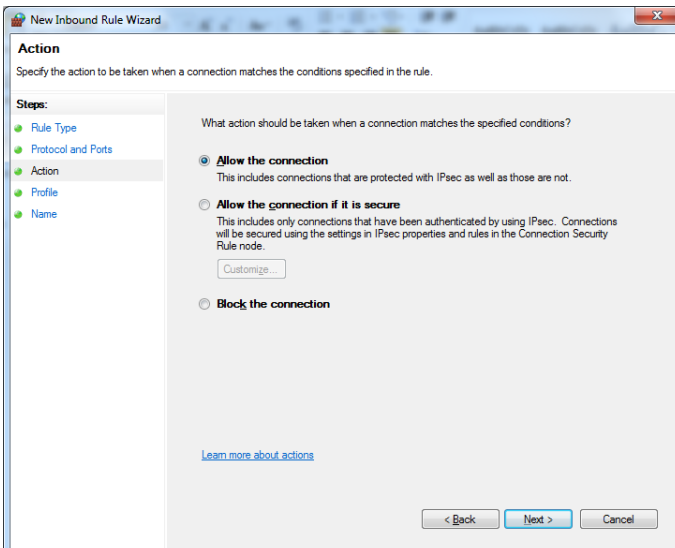
Installation step	Screen
<p>Locate the <code>pg_hba.conf</code> file in the data folder (<code>C:\Program Files\PostgreSQL\10\data</code>) and open it in an editor e.g. Notepad</p>	
<p>Insert a new line to open up for all non-local connections to database as shown on the right</p> <p>host all all 0.0.0.0/0 md5</p> <p>Adjust spaces!</p> <p>Save the configuration.</p>	 <pre> # NAME=VALUE. The available options depend on the different # authentication methods -- refer to the "Client Authentication" # section in the documentation for a list of which options are # available for which authentication methods. # # Database and user names containing spaces, commas, quotes and other # special characters must be quoted. Quoting one of the keywords # "all", "sameuser", "samerole" or "replication" makes the name lose # its special character, and just match a database or username with # that name. # # This file is read on server startup and when the postmaster receives # a SIGHUP signal. If you edit the file on a running system, you have # to SIGHUP the postmaster for the changes to take effect. You can # use "pg_ctl reload" to do that. # Put your actual configuration here # ----- # If you want to allow non-local connections, you need to add more # "host" records. In that case you will also need to make PostgreSQL # listen on a non-local interface via the listen_addresses # configuration parameter, or via the -i or -h command line switches. # TYPE DATABASE USER ADDRESS METHOD # IPv4 local connections: host all all 127.0.0.1/32 md5 # IPv6 local connections: host all all ::1/128 md5 # Allow replication connections from localhost, by a user with the # replication privilege. #host replication postgres 127.0.0.1/32 md5 #host replication postgres ::1/128 md5 host all all 0.0.0.0/0 md5 </pre>

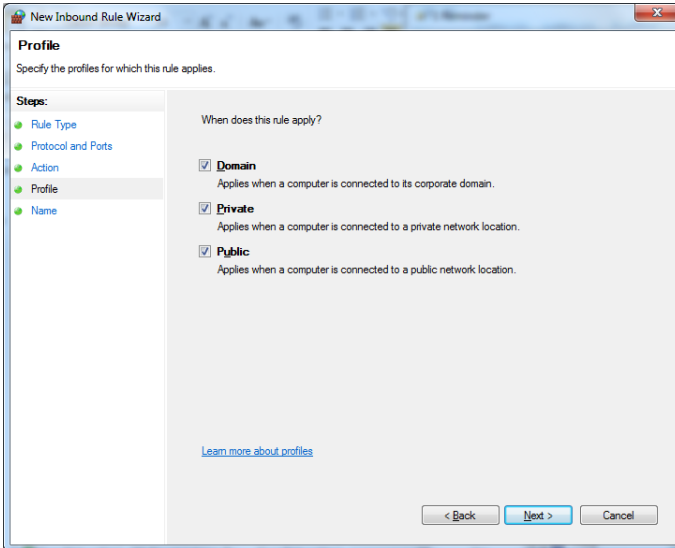
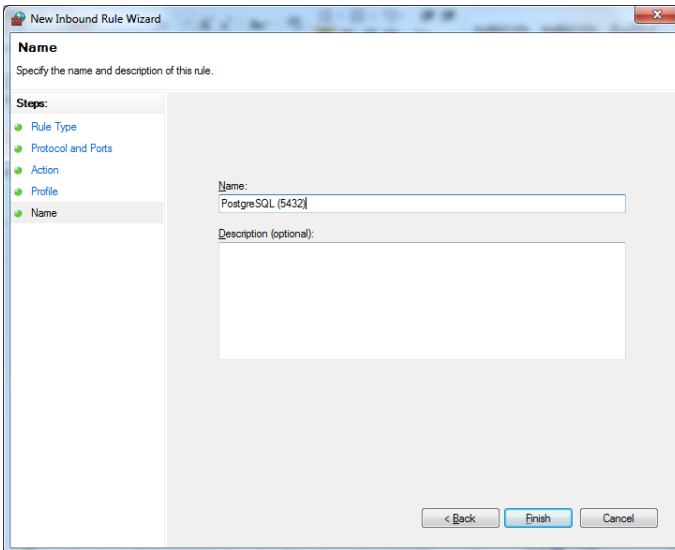
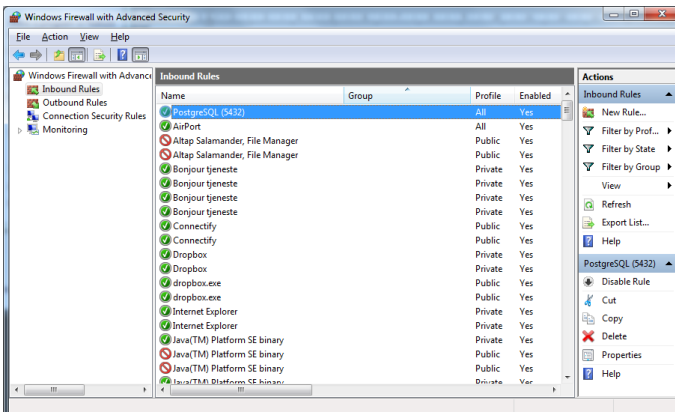
Installation step	Screen
Restart the services to apply the update	

Configuring the Windows Firewall for remote access to MIKE OPERATIONS

The section describes how to configure the Windows firewall for MIKE OPERATIONS 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>Select TCP, Specific local ports and enter 5432 (or the port number specified when installing PostgreSQL)</p> <p>Click Next</p>	
<p>Select Allow the connection</p> <p>Click Next</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: Troubleshooting

Event Manager will not start (System.PlatformNotSupportedException)

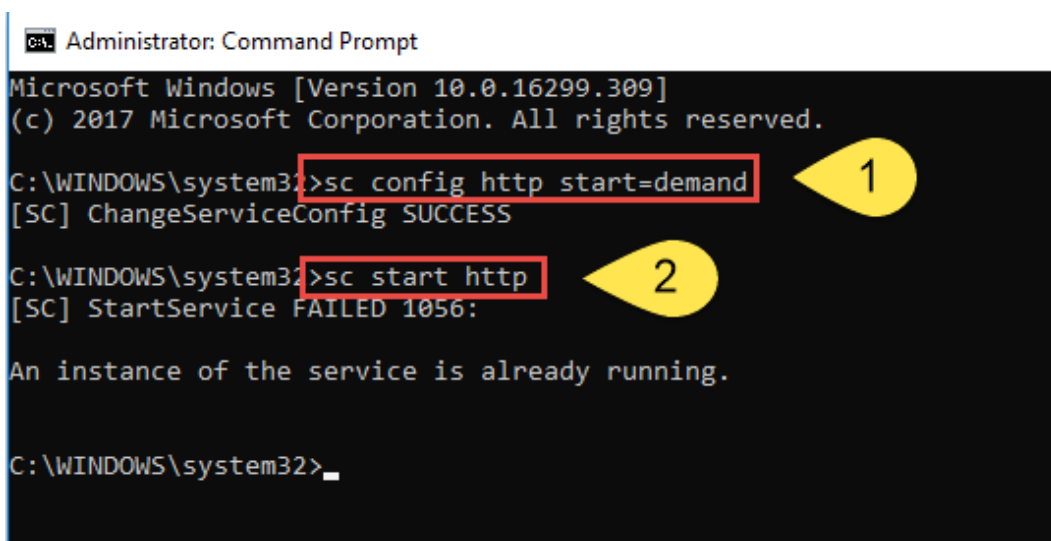
If the DHI Event Manager is not starting during the installation, the installation cannot complete and will roll back.

The following stack trace can be found in the Windows Event Viewer.

```
Service cannot be started. System.PlatformNotSupportedException: Operation is not supported on this platform.
  at System.Net.HttpListener..ctor()
  at System.ServiceModel.Channels.SharedHttpTransportManager.OnOpen()
  at System.ServiceModel.Channels.TransportManager.Open(TransportChannelListener channelListener)
  at
System.ServiceModel.Channels.TransportManagerContainer.Open(SelectTransportManagersCallback selectTransportManagerCallback)
  at System.ServiceModel.Channels.TransportChannelListener.OnOpen(TimeSpan timeout)
  at System.ServiceModel.Channels.HttpChannelListener`1.OnOpen(TimeSpan timeout)
  at System.ServiceModel.Channels.CommunicationObject.Open(TimeSpan timeout)
  at System.ServiceModel.Dispatcher.ChannelDispatcher.OnOpen(TimeSpan timeout)
  at System.ServiceModel.Channels.CommunicationObject.Open(TimeSpan timeout)
  at System.ServiceModel.ServiceHostBase.OnOpen(TimeSpan timeout)
  at System.ServiceModel.Channels.CommunicationObject.Open(TimeSpan timeout)
  at DHI.Solutions.EventManager.Service...
```

To solve the System.PlatformNotSupportedException issue:

- a. Start a command prompt “as administrator”.
- b. Run “sc config http start=demand”
- c. Run “sc start http” (to make sure that the http service is running)



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.16299.309]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>sc config http start=demand 1
[SC] ChangeServiceConfig SUCCESS

C:\WINDOWS\system32>sc start http 2
[SC] StartService FAILED 1056:

An instance of the service is already running.

C:\WINDOWS\system32>
```

Template_postgis_20 does not exist

After making a fresh installation of MIKE OPERATIONS, when trying to create a new database, if you receive an error message mentioning a missing database model “template_postgis_20”, it means that PostGIS was not installed correctly.

```

User workspace_reau already existed. been updated
(1 ligne)

DROP FUNCTION
SET
SET
SET
SET
SET
CREATE FUNCTION
    dss_alter_system_manager
-----
User workspace_member already existed. been updated
(1 ligne)

DROP FUNCTION
SET
SET
SET
SET
SET
CREATE FUNCTION
    dss_alter_system_manager
-----
User workspace_reviewer already existed. been updated
(1 ligne)

DROP FUNCTION
ERREUR: La base de donn es mod le   template_postgis_20   n'existe pas
"C:\Program Files\PostgreSQL\9.6\bin\psql.exe" -d postgres -h localhost -p 5432 -U postgres -c "CREATE DATABASE ""barragemike""
PostGIS20
Restore.bat could not create "barragemike", does it already exist?
-----Restore Database 'barragemike' Done-----

```

The solution is to reinstall PostGIS (see APPENDIX A). The download file can be found [online](#).