

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 OPERATONS 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

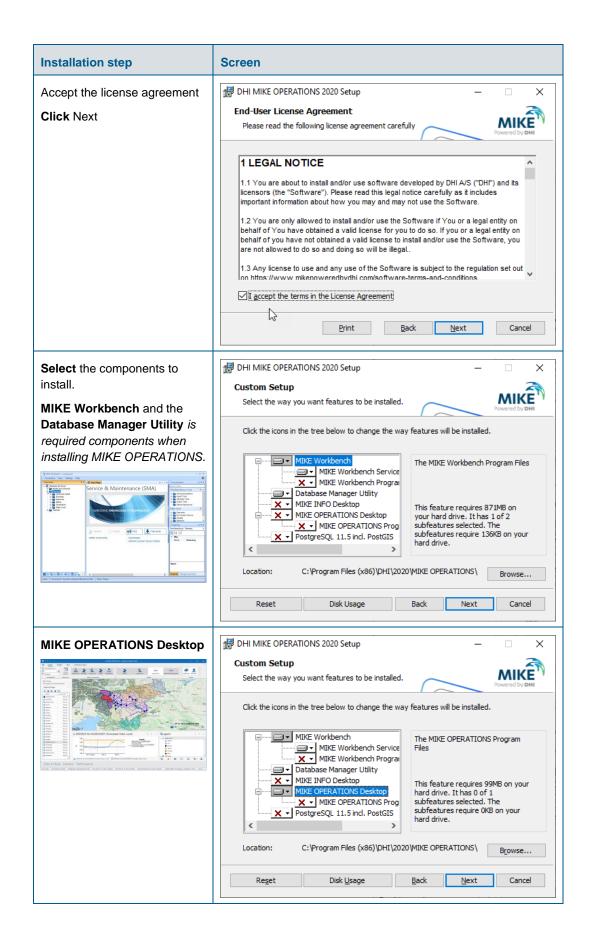
Installation of the MIKE OPERATIONS 2020.2 software package is simple and requires no user interactions beyond accepting the license conditions and specifying the installation folder.

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
Run the setup.exe file from the installation media/download folder. Note: In case the DHI License Manager is not installed, the installation wizard of the DHI License Manager will start. Refer to the installation guide of the DHI License Manager for more information about features and license configuration.	DHI MIKE OPERATIONS 2020 Setup O Close Welcome to the DHI MIKE OPERATIONS 2020 Setup Wizard The Setup Wizard will install DHI MIKE OPERATIONS 2020 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Click Next	Powered by DHI Help Back Next Cancel







Installation step	Screen
	DHI MIKE OPERATIONS 2020 Setup Select the way you want features to be installed. Click the icons in the tree below to change the way features will be installed. Click the icons in the tree below to change the way features will be installed. Click the icons in the tree below to change the way features will be installed. The MIKE Workbench MIKE Workbench Service MIKE Workbench Program MIKE Workbench Program The MIKE INFO Program Files This feature requires 57MB on your MIKE OPERATIONS Prosg MIKE OPERATIONS Prosg C:\Program Files (x86)\PHI\2020\MIKE OPERATIONS\ Browse
Click Next	Reget Disk Usage Back Next Cancel
Job Service Port Specify the port to use for the Job Manager Service. Use the default port (8089). 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.	DHI MIKE OPERATIONS 2020 Setup Job Service Port Set the job service port. Please define the Job Service Port Number. Job service port: 3089
Click Next	Back Next Cancel
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. Provide Password to the	DHI MIKE OPERATIONS 2020 Setup PostgreSQL Password Please provide a password for the database superuser (postgres) and service account (postgres).
Provide Password to the PostgreSQL database Click Next Note: The password should be used whenever the Database Manager Utility is used or	Password Retype password
PostgreSQL native software PgAdmin is applied	Back Next Cancel



Installation step	Screen
Click Install	Provered by DHI MIKE OPERATIONS 2020 Setup
	Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
	Back SInstall Cancel
Click Finish	🛃 DHI MIKE OPERATIONS 2020 Setup — 🗆 🗙
	Completed the DHI MIKE OPERATIONS EMBEDDING KNOWLEDGE 2020 Setup Wizard
	Click the Finish button to exit the Setup Wizard.
	MIKE
	Powered by DHI Back Finish Cancel
If you are doing a fresh installation , Wait until installation of PostgreSQL and PostGIS is complete	Setup — — — X Installing Unpacking C:\Program []0\doc\postgresq\\html\gist-extensibility.html
And	
Click OK to complete the installation	



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
Open the DHI License Management program in the start menu as admin	D DHI License Administra New ^ OHI License Management New
There three different options:	🖓 DHI License Management (Administrator) — 🗆 X
Internet License	License Server
Network License	Hitcense Server
Local License (densite)	Internet License Server Status Logging ≧ Settings Internet License Server Internet License Server Logging ≧ Settings Internet License Server Internet License Server License Server License Server Internet License Server License Server License Server License Server Internet License Server License Server License Server Connect
(dongle)	Transfer 2020 TP address: TP address: Transfer 2020 TP address: Transfer 2020 Transfer 202 Transfer 202
Note: All Users must be	MIKE FLOOD 2020 Available licenses
ticked to allow job execution	MIKE OPERATIONS 2020 Reg MIKE SHE 2020 Module Version Variant Model size Cores A
Please look in the documentation found by clicking the Help button or contact your local MIKE Sales representative.	ARmote Simulation 2020 AR_Educational_Padage 2020 unlimited unlimited All Internet Licenses AUTOCAL 2020 unlimited unlimited AUTOCAL 2020 unlimited unlimited AUTOCAL 2020 unlimited unlimited AUTOCAL 2020 unlimited unlimite Up of locational padage 2020 unlimited unlimite

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
Click the server name to expand the server tree and select the server type as PostgreSQL.	DHI DSS Database Utility PottgreSQL Oracle SQLite Clear log view Save log Sit No user No connection Status: Ready
Selecting a database server type in the menu will open the login dialog, where you are prompted to insert some connection parameters.	PostgreSQL Connection Parameters
Name of computer running the database: localhost	Name postgres I he user shall have database administrator priviliges
• The communication port: 5432	Database tools Folder C:\Program Files\PostgreSQL\10\bin (Folder where psql.exe is located)
 Name of the user: postgres (keep as default) 	Ok Cancel
 Password of the user: established during installation 	
The path to database server tools: keep as default	

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 accessed be by on 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
Click the server name to expand the server tree and select the server type as SQLite.	Clear log view Save log No user No connection Status: Ready
Selecting a where the database file will be created.	SQLite Connection Parameters - - × Database folder C:\Users\mikeadmin
Wait until the connection is established.	Did DD Dataset UNy

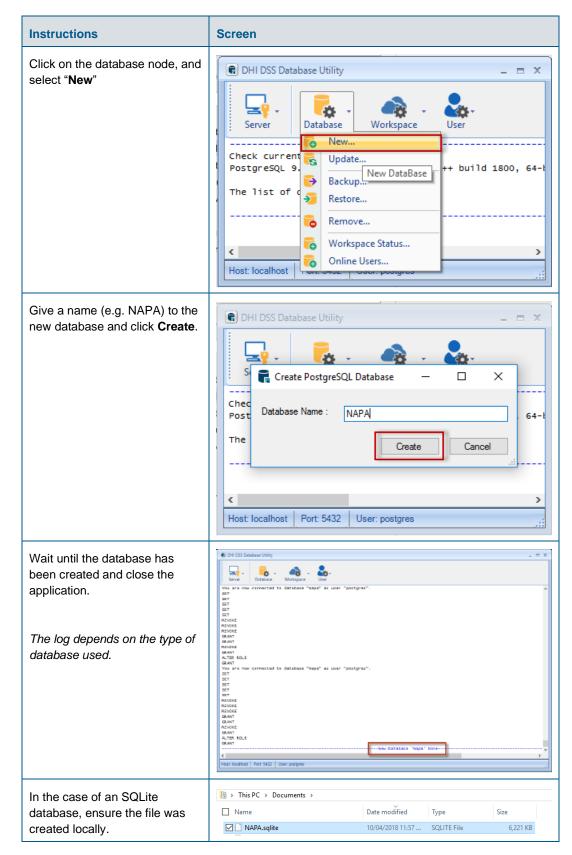
5.1.3 Connecting to Oracle

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.





5.3 Connect to MIKE OPERATIONS database

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

Instructions	Screen
When opening MIKE WORKBENCH, a connection	MIKE Workbench Login ×
window appears	MIKE Workbench Connection: ✓ Setup User Name: ✓ Password: ✓ Workspace: ✓ Always use the same user name and password ✓ Always login with the above settings Login Cancel
Click "Setup…"	Login Cancel
A connection manager them allow you to create a connection	Connection Manager ×
Click "Add…"	Use this dialog to add, edit or delete server connections.
	Close
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". The <i>Database</i> entry should match the name provided in chapter 5.1	Connection Name: NAPA Database Type: Postgre SQL Server: localhost Pott: 5432 Database: NAPA OK Cancel
For SQLite , you should define the path to the sqlite file.	



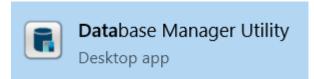
Instructions	Screen
<i>Connection Name</i> can be any unique name you chose. Click OK	Connection Name: NAPA Database Type: SQLite Server: localhost Pot: -1 Database: C:\Users\aug\Documents\NAPA.sql OK Cancel
The newly created connection appears in the list.	Connection Manager × Use this dialog to add, edit or delete server connections. NAPA Add Edit
Click Close	Close
The Connection menu now shows the newly created database connection.	MIKE Workbench Login ×
By default, the pre-configured administrator account is called "admin". The password is "dssadmin" This should be changed after logging in to the system. Click "Login"	Connection: NAPA Setup User Name: admin Password: ******** Workspace: workspace1 ~ ✓ Always use the same user name and password



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".

Data	b ase	Workspace -	
5	New		
G	Updat	e	

Finally, you should select the database to update.

Update Postgres	QL Database	_		×
Database Name :	test			~
Please take backup before updating.	Upo	late	Cance	

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 is 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	Setup - C X Packaged by: POSTGRES Setup - PostgreSQL Welcome to the PostgreSQL Setup Wizard.
	< Back Next > Cancel
Accept the default installation folder Click Next	Setup – C X Installation Directory Please specify the directory where PostgreSQL will be installed. Installation Directory C:\Program Files\PostgreSQL \(9.6) InstallBuilder Ask Next > Cancel



Installation step	Screen
Accept the default data folder. Click Next	Setup — C X Data Directory Please select a directory under which to store your data. Data Directory : Program Files PostgreSQL \9.6 \data
	InstallBuilder Kancel
Type in a password of your choice for the "postgres" user (the administrator for the database server). Note: Do not forget this password Click Next	Setup – C × Password Please provide a password for the database superuser (postgres). Password ******* Retype password ******* InstallBuilder << Back Next > Cancel
Accept the default port number (5432) Click Next	Setup Port Please select the port number the server should listen on. Port 5432 InstallBuilder InstallBuilder Cancel



Installation step	Screen
Leave the "Locale" as "Default Locale" Click Next	Setup – – × Advanced Options Select the locale to be used by the new database cluster. Locale [Default locale]
Click Next	< Back Next > Cancel Setup - × Ready to Install Image: Computer
The database server installation has finished Click off the "Launch Stack Builder at exit?" option and then click Finish	Setup Packaged by: PostgreSQL Source and installing PostgreSQL on your computer. Launch Stack Builder at exit? Stack Builder are exit? Stack Builder are postgreSQL installation.



PostGIS Installation

The following table explains how to install PostgreSQL exemplified by using a PostGIS postgis-bundle-pgXXx64-setup-X.X.X-X.exe installer from internet.

Installation step	Screen
Run the PostGIS installation program (e.g. postgis-bundle-pg96x64- setup-2.3.1-1.exe)	
Start of installation Click I Agree	PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup — X License Agreement Please review the license terms before installing PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6. Press Page Down to see the rest of the agreement. GNU GENERAL PUBLIC LICENSE Version 2, June 1991
	Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. Preamble The licenses for most software are designed to take away your If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6. Nullsoft Install System v2.46 I Agree Cancel
Check "Create spatial database" Click Next	PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup Octoose Components Choose Components Choose which features of PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 you want to install. Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
	Select components to install: PostGIS Create spatial database Description Position your mouse over a component to see its description.
	Nullsoft Install System v2.46



Installation step	Screen			
Accept the default folder. Click Next	PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup Choose Install Location Choose Install Location Choose the folder in which to install PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6. Setup will install PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue. Destination Folder Ctiveram Files/PostgreSQL/9.6/ Browse			
	Space required: 154.0MB Space available: 48.4GB Nullsoft Install System v2.46			
Type in the password that was specified for the "postgres" user when installing the PostgreSQL database server Click Next	PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup: Database C – × Database Connection Specify the database connection Database Connection Information User Name: postgres Password: ••••••••• Port: 5433 Nullsoft Install System v2.46 Kullsoft Install System v2.46			
Rename the Spatial database: template_postgis_20	PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup: Database X Database Name Specify the name of the spatial database to be created at the end of the installation process Spatial Database Information Database Name: postgie_33_gample Nullsoft Install System v2.46			



Installation step	Screen			
	PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup: Database × Database Name Specify the name of the spatial database to be created at the end of the installation process Spatial Database Information Database Name: template_postgis_20			
	Nullsoft Install System v2.46			
Yes, to the GDAL_Data environment variable Click Yes	 PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup Would you like us to register the GDAL_DATA environment variable for you, needed for raster transformation to work properly? This will overwrite existing settings if you have them. 			
	Yes No			
Yes, to both set of environment variables Click Yes	Raster drivers are disabled by default. To change you need to set POSTGIS_GDAL_ENABLED_ORIVERS environment variable and will need to restart your PostgreSQL service for changes to take effect. Set POSTGIS_ENABLED_DRIVERS to common drivers GTiff, PNG, JPEG, XYZ, DTED, USGSDEM, AAIGrid?			
	Yes No			
	PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup Raster out of db is disabled by default. To enable POSTGIS_ENABLE_OUTDB_RASTERS environment variable needs to be set to 1. Enable out db rasters?			
	Yes No			



Installation step	Screen
The installation has finished Click Close	PostGIS Bundle 2.3.1 for PostgreSQL x64 9.6 Setup — Installation Complete Setup was completed successfully. Completed Show details
	Nullsoft Install System v2,46



Configuration of PostGIS

Installation step	Screen	1		
Open the Windows Command Prompt		Ē ☐ ۞ Filters ∨		
Click the Windows Start Menu and type "cmd"	命 Best match			
	ø	Command Prompt Desktop app		
	z	Apps >		
		Build Environment		
		Intel 64 Build Environment		
		cmd		
Dight click on and ave and		cinq		
Right-click on cmd.exe and choose Run as administrator		☞ 🗋 🔅 Filters ∨		
	ŵ	Best match		
	<u>~~</u> ~	Command Prompt		
	ŝ	Desktop app Run as administrator		
	r	Apps Open file location		
		Build Environment Pin to Start		
		Intel 64 Build Envire Pin to taskbar		



Installation step	Screen
In the command prompt type SETX /M PROJSO libproj- 9.dll and press enter	Administrator: Command Prompt — — X Microsoft Windows [VerSion 10.0.10586] (c) 2015 Microsoft Corporation. All rights reserved. C:\WINDOWS\system32>SETX /M PRO3SO libproj-9.dll
	Administrator: Command Prompt Microsoft Windows [Version 18.8.18586] (c) 2015 Microsoft Corporation. All rights reserved. C:\WINDOWS\system32>SETX /M PROJSO libproj-9.dll SUCCESS: Specified value was saved. C:\WINDOWS\system32>
Restart the computer to make the environment variable available to PostGIS	Sleep Closes all apps, turns off the again. Restart Power E All apps New New



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	Image: PostgreSQL 9.6 New ^ Image: Application Stack Builder New Image: Imag
An internet browser opens	Image: pgAdmin 4 X + $\leftarrow \rightarrow C'$ ① 127.0.0.1:55678/browser/ Image: pgAdmin 4 File \checkmark Object \checkmark Tools \checkmark Help \checkmark
Right click the database server entry for localhost under the Servers node to access "Connect Server"	 Servers (2) PostgreSQL 9.6 PostgreSQL 10 Create Refresh Delete/Drop Connect Server Properties
Provide the password for the "postgres" user and check on the "Store password" option Note: Clicking on "Store password" leads to a warning. Click OK on the warning dialog	Connect to Server Please enter the password for the user 'postgres' to connect the server - "PostgreSQL 10" Password Image: Save Password OK



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.

Installation step	Screen			
	← → → ↑ 📴 → This PC → OSDisk (C:) → Program Files →	P-1		
Locate the pg_hba.conf file in	v 9.6	Name	Date modified Type	Size
the data folder (C:\Program	> 🦲 bin	base	27-02-2017 14:00 File folder	
· •	> 📙 data	🔜 global	03-03-2017 08:09 File folder	
Files\PostgreSQL\10\data)	> doc dal-data	pg_clog pg_commit_ts	20-02-2017 15:25 File folder 20-02-2017 15:25 File folder	
and open it in an editor e.g.	j gal-alta	pg_dynshmem	20-02-2017 15:25 File folder	
	> 🧾 installer	pg_log	03-03-2017 08:08 File folder 20-02-2017 15:25 File folder	
Notepad	🧾 lib	pg_logical pg_multixact	20-02-2017 15:25 File folder	
	> pgAdmin 4	pg_notify	03-03-2017 08:08 File folder	
	> pgAdmin III > scripts	pg_repisiot pg_serial	20-02-2017 15:25 File folder 20-02-2017 15:25 File folder	
	> 📙 share	pg_snapshots	20-02-2017 15:25 File folder	
	> 🛄 StackBuilder	pg_stat	03-03-2017 08:08 File folder 03-03-2017 10:00 File folder	
	symbols	pg_subtrans	20-02-2017 15:25 File folder	
	> psqlODBC	pg_tblspc	20-02-2017 15:25 File folder	
	> R	pg_twophase	20-02-2017 15:25 File folder 27-02-2017 14:16 File folder	
	> 🦲 Realtek	ng_hba.conf	20-02-2017 15:25 CONF File	5 KB
	Reference Assemblies	Pg_ident.conf	20-02-2017 15:25 CONF File 20-02-2017 15:25 File	2 KB
	> 🔜 Seapine		10-00-0011 (2007) 100	1.60
Insert a new line to open up for all non-local connections to database as shown on the right host all all 0.0.0/0 md5 Adjust spaces! Save the configuration.	<pre> pg_hbs.conf-Notepad File Edit Format View Help # NAME=VALUE. The available opt # authentication methods refe # section in the documentation f # available for which authentica # Database and user names contai # platabase and user names contai # special characters must be quo # "all", "sameuser", "samerole" # its special character, and jus # that name. # This file is read on server st # a SIGHUP signal. If you edit # Dut your actual configuration #</pre>	r to the "Client Autho or a list of which opt tion methods. ning spaces, commas, c ted. Quoting one of t or "replication" makes t match a database or artup and when the pos the file on a running he changes to take eff here 	entication" tions are quotes and other the keywords s the name lose username with stmaster receives system, you have fect. You can d to add more make PostgreSQL esses d line switches. METHOD md5 md5	

Start by enabling password save as shown in APPENDIX B.



Installation step	Screen	
Restart the services to apply the update	File Options View Processes Performance App history Startup Vacesses Performance App Description Name PID Description Status Status 64-9.6 Start Status Stop Restart File PostgreSQL Server 9.6	Group

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
Open the Firewall applet in the Windows Control Panel Click Advanced Settings	Control Panel Home Allow a program or feature through Windows Firewall Control Panel Home Allow a program or feature through Windows Firewall can help prevent hackers or malicious software from gaining access to your computer through the Internet or a network. Change notification settings Turn Windows Firewall or off Restore defaults Advanced settings Troubleshoot my network Update your Firewall settings Windows Firewall is not using the
Select Inbound Rules	See also Action Center Network and Sharing Center What are the recommended settings? What are the recommended settings? The Mindows Firewall with Advanced Security Site Action View Help Windows Firewall with Advanced Security
Click New Rule in the Actions panel to the right	Mindow Freeal with Advance Inhound Rules Actions Mindow Freeal with Advance Inhound Rules Actions Outbound Rules Inhound Rules Inhound Rules Actions Concent on Security Fulley Branch Cache Hoster Cache Ad No Branch Cache Hoster Cache Ad No Inhound Rules Inhound Rules Concent on Security Fulley Branch Cache Hoster Cache Ad No No Concent on Security Fulley Branch Cache Hoster Cache Ad No No Concent on Security Fulley Branch Cache Hoster Cache Ad No No Connect to a Network Project (VTCPA) Connect to a N



Installation step	Screen	
Select Port Click Next	New Inbound Rule Wizard Rule Type Select the type of firewall rule to cre	cale.
	Steps: Pale Type Protocol and Ports Action Profile Name	What type of rule would you like to create? Program Rule that controls connections for a program. Prodefuned: Rule that controls connections for a CP or UDP port. Prodefuned: Rule that controls connections for a Windows experience. C Custom Custom rule.
		Learn more about rule types Kest > Cancel
		×
Select TCP, Specific local	Protocol and Ports	
ports and enter 5432 (or the port number specified when	Specify the protocols and ports to v	which this rule applies.
installing PostgreSQL)	Steps: Rule Type	Does this rule apply to TCP or UDP?
	Protocol and Ports	● ICP
Click Next	 Action Profile 	© <u>U</u> DP
	Name	Does this rule apply to all local ports or specific local ports?
		<u>All local ports</u> <u>Specific local ports</u> : <u>5432</u> Example: 80, 443, 5000-5010
		Learn more about protocol and ports
		< Back Next > Cancel
Select Allow the connection	New Inbound Rule Wizard	×
Click Next	Action Specify the action to be taken whe	in a connection matches the conditions specified in the rule.
	Steps: Rule Type Protocol and Ports Action	What action should be taken when a connection matches the specified conditions? Allow the connection
	Profile Name	This includes connections that are protected with IPsec as well as those are not. Allow the <u>connection if it is secure</u> This includes only connections that have been authenticated by using IPsec. Connections will be accured using the settings in IPsec properties and rules in the Connection Security Rule node.
		Customize
		Learn more about actions Back Next > Cancel



Installation step	Screen
Click on for all profiles Click Next	New Inbound Rule Wizard Profile Specify the profiles for which this rule applies.
	Steps: When does this rule apply? Protocol and Pots Image: Comparison of the protocol of the pr
Specify a rule name – e.g. "PostgreSQL (5432)" – and a description	New Inbound Rule Wizard Name Specify the name and description of this rule. Steps:
Click Finish	Rule Type Protocol and Ports Action Profile Profile Postgre SQL (5432) Name Description (optional):
	< Back Finish Cancel
The new rule is now added to the list of Inbound rules	Windows Firewall with Advanced Security File Action View Help Windows Firewall with Advanced Windows Firewall with Advance Inbound Rules Actions
	Signed Subscript Rules Inhound Rules Inhound Rules Signed Subscript Rules Connection Security Rules Inhound Rules Signed Subscript Rules Public Yes Yes Signed Subscript Rules Private Yes Vertice Vertice Signed Subscript Rules Private Yes Refersh Signed Subscript Rules Private Yes Refersh Signed Subscript Rules Private Yes Inhound Rules Signed Subscrept Rul
	Available State Sta



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.HttpListenerctor()			
at System.ServiceModel.Channels.SharedHttpTransportManager.OnOpen()			
at System.ServiceModel.Channels.TransportManager.Open(TransportChannelListener			
channelListener)			
at			
System. Service Model. Channels. Transport Manager Container. Open (Select Transport Managers Callbourger Container. Co			
ack 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





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 wurkspace_reau arreauy existed, been updated	
L	(1 ligne)	
L	DROP FUNCTION	
L	DROF FURCIEUR	
L	SET	
L	SET	
Ш	SET	
L	SET	
Ш	SET CREATE FUNCTION	
L		
Ш	dss_alter_system_manager	
		l
Ш	User workspace_member already existed, been updated	
L	(1 ligne)	
L		
L	DROP FUNCTION	
L	SET	
L	SET	
1	SET	
L	SET	
r	SET	
1	CREATE FUNCTION	
Ш	dss_alter_system_manager	l
L		
L	User workspace_reviewer already existed, been updated	
L	(1 ligne)	
L		
L	DROP FUNCTION	
L	EREUR: la base de donnAmes modA'le A« template_postgis_20 A» n'existe pas	
L	"C:\Program Files\PostgreSQL\9.6\bin\psql.exe" -d postgres -h localhost -p 5432 -U postgres -c "CREATE DATABASE ""barragemikep""	
1	PostGIS20	
1	Restore.bat could not create "barragemikep", does it already exist?	
1	Restore Database 'barragemikep' Done	

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