Release Notes 2022

MIKE SHE

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Introduction

Welcome to MIKE SHE 2022 Update 1

In this Release Note you will find information about new features of MIKE SHE, and what you need to know in order to install and get started with Release 2022.

MIKE SHE is a modelling system for integrated catchment hydrology. MIKE SHE covers all aspects of the entire land phase of the hydrological cycle with specific strength in the dynamic interaction between surface water and sub-surface water (ground water).

System requirements

Operating systems

Fully supported Windows operating systems *	Windows 11 Pro, version 21H2 (64 bit) Windows 10 Pro, version 21H2 (64 bit) Windows Server 2022, version 21H2 Windows Server 2019 Standard, version 1809
Non-supported but partially tested operating systems **	Windows Server 2016 Standard, version 1607

* Fully supported operating systems are systems that have been tested in accordance with MIKE's Quality Assurance procedures and where warranty and software maintenance agreement conditions apply.

** Non-supported but partially tested operating systems are systems, which are not officially supported by the MIKE software products. These operating systems have only undergone very limited testing for the purpose of MIKE software, but the software and key features are likely to work. Installation of MIKE software on a non-supported operating system is done so at the user's own risk. The MIKE software warranty and software maintenance agreement conditions do not apply for unsupported operating systems and DHI is under no obligation to provide assistance or troubleshooting for cases where the software is being used on a non-supported operating system.

Please note that when running a fully supported operating system as a 'guest operating system' on a virtualization platform, it is automatically downgraded to a non-supported operating system under the conditions provided above.

Minimum hardware/software requirements

Processor	compatible with x64 instruction set, 2.2 GHz or higher

Memory (RAM)	4 GB or higher *
Storage	64 GB or higher *
Display	resolution 1024 x 720 (High-Definition) or higher, 24-bit color (true color)
Graphics adapter	64 MB RAM (256 MB RAM or higher recommended), 32-bit true color
Software requirements	Microsoft .NET Framework 4.7.2 or higher

* The actual required amount of memory and disk space depend on the usage (application, model setup, size of data files etc.)

Installation

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To install MIKE SHE, please go to the 'MIKE SHE' product folder and execute the setup.exe file either on the MIKE 2022 USB or from the downloaded, un-zipped installation files. Press the 'Install' button to begin installation.

License file and dongle

Please Note that when using the local or network license option, which require a license file and a dongle, then

- the DHI License Manager must installed separately.
- all licensed applications included in MIKE 2022 require a 2022 version of the DHI License Manager.
- a new license file format (file extension dhilic2) has been introduced with MIKE 2022 and these license files can only be used together with a DHI License Manager 2022 or newer.

To use MIKE SHE in licensed mode, please refer to the DHI License Manager Release Notes (License Manager Release Notes).

Product invocation

Launch 'MIKE Zero' from the Windows Start menu. Then you can select MIKE SHE from within the MIKE Zero Shell.

Starting MIKE SHE without a DHI configured hardware key and valid licence files will cause the program to run in demo mode. If this happens, a message box will inform you during program initialisation. When running in demo mode, MIKE SHE supplies full access to all editors, computational engines and editing facilities. However, restrictions apply to the setups that can be executed as a model simulation.

Support

For general support, please refer to our FAQ.

If you experience any difficulties, or if you have questions, please contact our Customer Care team at mike@dhigroup.com.

You can also contact your local Customer Care team for support in your local language. You can find the list here.

New features and fixed issues

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Every new release of MIKE SHE consists of new modules, new features and/or corrections to problems or significant inconsistencies discovered in previous releases. Please find below short descriptions of the most significant news.

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New features

Module/type	New feature
MIKE 11 coupling	Workflow improvements to make it easier to select branch names and chainages for MIKE 11 result reporting (TT17034)
Climate data	Made performance improvements to accelerate reading of input climate data (TT5671)

Fixed issues

Module/type	Error/Inconvenience
MIKE HYDRO River coupling	Enabled use of decoupled HD result file when using MIKE HYDRO Rive as river model in a MIKE SHE simulation (TT55663)
MIKE HYDRO River coupling	Eliminated reset of MIKE HYDRO River HD simulation when running MIKE SHE pre-processor in coupled simulations (TT55745)
Simulation statistics	Harmonized coordinates used in MIKE SHE simulation statistics with Q- and H- point coordinates displayed in MIKE HYDRO River (TT58399)
Python interface	Added description strings to string representation of MIKE SHE dataset (TT59794)
UZ model	Accelerated loading times when running a simulation many (~3000) independently defined UZ soil parameters (TT59176)
Water quality	Fixed error in the transfer of water quality components from MIKE SHE to MIKE HYDRO River when two or more kinds of components are being transferred (TT58806)

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New features

Module/type	New feature
User interface	Enabled tabular input with cut and paste for UZ soils, linear reservoirs, and subcatchments (TT17022).
Python interface	Python 3.10 now supported.

Fixed issues

Module/type	Error/Inconvenience
User interface	Re-enabled display of coordinates synced with mouse pointer (TT60227).
User interface	Fixed crash error occurring when updating climate data (TT60328).