

Release Notes 2022

MIKE OPERATIONS

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Introduction

Welcome to MIKE OPERATIONS 2022 Update 1

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

MIKE OPERATIONS is a software product designed for data management and model-based forecast services and for online operational control of river systems, water collection systems and water distribution systems. MIKE OPERATIONS empowers you to build real-time systems by offering flexible tools that help you deal with complexities such as acquiring and combining online data sources in preparation for real-time modelling.

MIKE OPERATIONS is a product consolidation of software tools developed and applied in projects over the past 7-8 years. Hence, although MIKE OPERATIONS is a relatively new member of the MIKE product family it builds on proven software products that already serve many customers worldwide.

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 OPERATIONS, please go to the 'MIKE OPERATIONS' product folder and execute the setup.exe file from the downloaded, un-zipped installation files. Before you press the 'Install' button, we recommend that you read the note describing how to install MIKE OPERATIONS - this is available [here](#).

License file and dongle

To use MIKE OPERATIONS in licensed mode, please refer to the DHI License Manager Release Notes ([License Manager Release Notes](#)).

Product invocation

Launch MIKE OPERATIONS from the Windows Start menu

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. A list can be found [here](#).

Removal of TS Objects from MIKE Zero installation

The COM component TS Objects is no longer installed with MIKE Zero as of release 2021. Some users may have developed scripts that use TS Objects; after updating to MIKE Zero 2021 or later, these references will no longer function. Users are advised to replace TS Objects references with references to the MIKE Core SDK. More information about the MIKE Core SDK, including documentation and examples, is available at <http://docs.mikepoweredbydhi.com/>.

Oracle no longer supported

As of release 2022, MIKE OPERATIONS no longer supports connections to Oracle databases. Please refer to the installation guide for a list of supported database types.

New features and fixed issues

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Every new release of MIKE OPERATIONS 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
DHI Azure Active Directory	Now possible to use DHI Azure Active Directory authentication to log in to a MIKE OPERATIONS database. Access to DHI Cloud platform storage (e.g., DataAdmin) now enabled when signed in using Azure Active Directory.
MIKE Workbench: Scenario Manager	Enabled spatial outputs for MIKE 21FM adapter
MIKE Workbench: Scenario Manager	Added more options for specifying initial condition files when registering a MIKE 21FM model
MIKE Workbench: Scenario Manager	Enabled spatial outputs for MIKE SHE adapter (TT56984)
MIKE Workbench: Scenario Manager	Enabled support for gridded climate inputs when running MIKE SHE adapter
MIKE Workbench: Scenario Manager	Enabled support for dfs3 outputs from MIKE SHE adapter
MIKE Workbench: Scenario Manager	Enabled writing spatial output files to DHI Cloud platform storage, as an alternative to saving to database or to disk.
MIKE Workbench: Job Manager	Added font specification for job log data view (TT54956)
MIKE Workbench: Scenario Manager	Enabled sorting of simulations (TT57483)
MIKE Workbench: Timeseries Manager	New TS provider for other MO databases (TT57506)
MIKE Workbench: Timeseries Manager	Added option to cancel delete operation if operation has triggered confirmation popups due to feature associations (TT57592)
MIKE Workbench	Added more information about database connections to setup list to help users manage multiple databases (TT57626)

MIKE Workbench: Scenario Manager	Added .dfs0 support to MIKE+ adapter (TT58683)
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Fixed issues

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Module/type	Error/Inconvenience fixed
MIKE Workbench: Workflow Manager	Added Ctrl+S to save workflow (TT52273)
MIKE Workbench: Scenario Manager	Fixed issues with hotstarting MIKE SHE adapter (TT56993, TT57423, TT59883)
MIKE Workbench: Timeseries Manager	Fixed issues with To File tool when exporting folders with subfolders (TT57430)
MIKE Workbench: Timeseries Manager	Fixed issues with order of charts when selecting a chart from context menu (TT57519)
MIKE Workbench: Script Manager	Fixed errors in generated script code for Select Timeseries tool (TT57536)
MIKE Workbench: Scenario Manager	Added logic to terminate ensemble simulation runs after the failure of one member (TT57564)
MIKE Workbench: Timeseries Manager	Fixed error in ASCII import tool when importing ensembles (TT57572)
MIKE Workbench: Scenario Manager	Fixed bugs in MIKE+ adapter (TT57778, TT57779, TT57960)
MIKE Workbench: Timeseries Manager	Fixed bug in PeriodStatistics Tool (TT57819)
MIKE OPERATIONS Web	Added support for multiple items in under ItemGroupIDs (TT57955)
MIKE Workbench: Scenario Manager	Made improvements to adapter exception handling (TT58437)
MIKE Workbench: GIS Manager	Fixed bug in Mesh Query tool (TT58482)
MIKE Workbench: Scenario Manager	Fixed bug in MIKE FLOOD adapter (TT58515)
MIKE Workbench: Scenario Manager	Fixed output path location for river model results when using MIKE SHE adapter (TT58550)
MIKE Workbench: GIS Manager	Fixed problems with reading DHI projections (TT58582)

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MIKE Workbench: Scenario Manager	Added progress information to MIKE HYDRO Basin adapter (TT58658)
MIKE Workbench: Job Manager	Fixed bug that caused application to crash when running a job as a non-admin workspace member (TT58756)
MIKE Workbench: GIS Manager	Fixed bug in tool, "Import Temporal Raster from TIFF files" (TT59029)
MIKE Workbench: Scenario Manager	Fixed bug occurring when running scenario in background (TT59191)
MIKE Workbench: Job Manager	Fixed crash errors occurring when using job manager (TT59259, TT59263)
MIKE Workbench: GIS Manager	Fixed error in input association list view (TT59349)
MIKE Workbench: Scenario Manager	Fixed error in handling of initial conditions by MIKE SHE adapter (TT59617)
MIKE Workbench: Scenario Manager	Fixed error in handling of runoff results by MIKE+ adapter (TT59638)
MIKE Workbench: GIS Manager	Fixed error in Generic Vector importer (TT59684)
MIKE Workbench: Workflow Manager	Fixed error that caused Workflow Manager to hang after executing a workflow (TT59790)
MIKE Workbench: GIS Manager	Fixed ASCII raster import error (TT59803)

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New features

Module/type	New feature
MIKE Workbench: Document manager	Blob storage integration for documents using DHI's cloud platform.
MIKE Workbench; Scenario manager	Cross platform model execution using DHI's cloud platform Model execution service. Targeting primarily scenario runs in Docker container on Linux.
Database upgrade	MIKE OPERATIONS upgraded to PostgreSQL version 14.2

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PostGIS upgrade	MIKE OPERATIONS upgraded to PostGIS version 3.2
Python upgrade	MIKE OPERATIONS upgraded to Python version 3.9
MIKE Workbench	Significant performance improvements in manager explorers
MIKE OPERATIONS API NuGet packages	The MIKE OPERATIONS API for Managers, Tools, Adapters and Providers has been divided in to separate, individual components (NuGet packages). enabling full flexibility in building targeted, project applications where only specifically required components are included. It is no longer required to install a full MIKE OPERATIONS package for project applications. (Target: DHI developers primarily)
MIKE OPERATIONS API Documentation	The documentation for the MIKE OPERATIONS SDK has been extensively restructured and extended with descriptions and details for all entries in the MIKE OPERATIONS API. (Target: DHI developers primarily)
MIKE OPERATIONS Web 2.0	Latest version of Web client for MIKE OPERATIONS for forecast models with a number of new features and improvements: <ul style="list-style-type: none"> - map based visualization of data, models input and model outputs - intuitive model configuration, dashboard configuration, what-if scenario creation and execution, 2D-outputs animation, longitudinal profiles, job management, RSS feeds etc,

Fixed issues

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Module/type	Error/Inconvenience fixed
MIKE Workbench: GIS manager	Fixed problem in wrong Point projection ((TT60101)
MIKE Workbench: Scenario manager	Fixed problems in MIKE1D adaptor; Loading double amount of runoff timeseries (TT60344), Enable adding res1d results manually (TT60414), Capture of ERROR (TT60567), Missing detect of script files (TT60415).
MIKE Workbench: Scenario manager	Fixed problem of MIKE 21 FM reading mesh from result simulations (TT60982)
MIKE Workbench: Scenario manager	Fixed problem with assigning scenario preprocessing script (TT60939)
MIKE Workbench: GIS manager	Fixed issue for error in Data import/export failing to handle attribute names with spaces (TT60870)
MIKE Workbench: Scenario manager	Fixed issue of failure when running MIKE+ simulation on cloud (TT60844)
MIKE Workbench: Scenario manager	Fixed issue of scenario not possible to run on cloud (TT60763)
MIKE Workbench: GIS manager	Fixed issue of problems importing dfsu-file in to meshdatabase (TT60494)

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MIKE Workbench: Document manager	Fixed issue for Treeview flickering when expanding a node (TT60353), and treeview refreshing twice when selecting refresh (TT60349)
MIKE Workbench: Job manager	Fixed issue for JobLogDataView crashing on large input of output (TT60337)
MIKE Workbench CORE	Fixed issue on missing warning about unsaved changes when making new database connection (TT60286)

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