MIKE Powered by DHI

Release Notes 2021   **MIKE OPERATIONS**

Contents:

Introduction

Welcome to MIKE OPERATIONS 2021 Update 1

In this Release Note, you will find information about new features of MIKE OPERATIONS and what you need to know in order to install and get started with Release 2021.

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

The recommended minimum system requirements are:

Fully supported Windows operating systems *	Windows 10 Pro, version 20H2/2009 (64 bit) Windows Server 2016 Standard (64 bit) Windows Server 2019 Standard (64 bit)
Processor	x64, 2.2 GHz (or higher)
Memory (RAM)	2 GB (or higher)
Hard disk	40 GB (or higher)
Monitor	SVGA, resolution 1024x768 in 16-bit color
Graphics adapter	64 MB RAM (256 MB RAM or higher recommended), 32-bit true color

File system	NTFS
Software requirements	Microsoft .NET Framework 4.7.2 or later

*   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.

Installation

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.

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 Success team by e-mail or phone:

Customer Success
DHI A/S
Agern Allé 5
DK-2970 Hørsholm
Denmark

mike@dhigroup.com
Tel: +45 4516 9333

You can also contact your local Customer Success 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, 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/.

MIKE 11 Adapter warning

The removal of TS Objects from the MIKE Zero installation has also introduced breaking changes in the MIKE Workbench MIKE 11 adapter. A hotfix for the MIKE 11 adapter will be available shortly after the MIKE 2021 release. Users needing a hotfix should contact ndr@dhigroup.com. The MIKE 11 adapter is functionally normally in release 2021 update 1.

New features and fixed issues

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 short descriptions of the most significant developments below.

Release 2021 update 1

New features

Module/type	New feature
MIKE Workbench: Scenario Manager	Added support for working with 2D models when using HEC-RAS in MIKE OPERATIONS (TT51096)
MIKE Workbench: GIS Manager	New MIKE Cloud GIS provider enabling working with vector data stored in MIKE Data Admin
MIKE Workbench: GIS Manager	New MIKE Cloud raster provider enabling working with raster data stored in MIKE Data Admin
MIKE Workbench: GIS Manager	New MIKE Cloud mesh provider enabling working with mesh data stored in MIKE Data Admin
MIKE Workbench: GIS Manager	New MIKE Cloud Spatial Upload tool enabling upload to multi-dimensional storage in MIKE Data Admin
MIKE OPERATIONS Desktop	Now possible to use user-defined column headings in summary views
MIKE Workbench: GIS Manager	Added new generic raster importer, compatible with all GDAL formats (TT50653)
MIKE Workbench: GIS Manager	Added new generic raster exporter, compatible with all GDAL formats (TT51488)
MIKE Workbench: GIS Manager	Added new generic vector exporter, compatible with all GDAL formats (TT51489)
MIKE Workbench: Scenario Manager	Add support for running ensemble simulations simultaneously on multiple cores when running MIKE HYDRO River models
MIKE Workbench: Scenario Manager	Added support for spatial input timeseries (TT51498)
MIKE Workbench: Timeseries Manager	Added new tool for bulk TS selection to enable running tool sequences on multiple TS (TT51503)
Database Manager Utility	Added reporting on database usage to give users an overview of the amount of storage allocated to different databases (TT51540)

MIKE Workbench: GIS Manager	Added map selection of mesh elements to Mesh Query tool (TT51559)
MIKE Workbench: GIS Manager	Added bulk import of feature classes from a folder (TT51700)
MIKE Workbench: Scenario Manager	Added more information about storage of initial condition sets to help users monitor and manage initial conditions in operations systems (TT51984)
MIKE Workbench: Scenario Manager	Added export of simulation list (TT56765)
MIKE Workbench: Timeseries Manager	Added option to give user-defined name to TS provider connections (TT56766)
MIKE Workbench: Scenario Manager	Added support for optimization functionality when working with EPA NET adapter (TT56845)
General	Added sorting of databases on login (TT57368)
General	Added context-sensitive help
Database Manager Utility	Added auto-fill of database name on backup
Database Manager Utility	Added synchronization of port and database service for users running multiple services

Fixed issues   top

Module/type	Error/Inconvenience fixed
MIKE Workbench: Timeseries Manager	Made improvements to TS plotting (TT56714, 56793)
MIKE Workbench: Timeseries Manager	Made improvements to DIMS and MIKE Cloud TS providers (TT56771)
MIKE Workbench: Scenario Manager	Made improvements to map display of model schematics (TT56806)
MIKE Workbench: Job Manager	Performance improvements to speed up loading of job instances (TT57586)
MIKE OPERATIONS Web	Fixed zooming issues when switching between observation periods (TT57740)
MIKE OPERATIONS Web	Fixed bug when running a job with a List property (TT57824)
MIKE Workbench: GIS Manager	Fixed errors in handling of projection information (TT58163)

MIKE Workbench: Timeseries Manager	Made improvements to GIS export tools (TT58483, 58508)

Release 2021

New features

Module/type	New feature
Database support	Added support for MS SQL Server
Database support	Added support for Azure native Postgres
MIKE Workbench: Scenario Manager	New FEFLOW adapter
MIKE Workbench: Scenario Manager	New MIKE FLOOD adapter
MIKE Workbench: Scenario Manager	Upgraded MIKE URBAN/MIKE URBAN+ adapter to work with MIKE+ models
MIKE Workbench: Timeseries Manager	New MIKE Cloud TS provider
MIKE Workbench: Timeseries Manager	New MIKE Cloud TS upload tool
MIKE Workbench: Scenario Manager	Now possible to edit cross sections in MIKE HYDRO River adapter
MIKE Workbench: Scenario Manager	Added support for junctions in MIKE+ adapter (TT56545).
MIKE Workbench: Scenario Manager	Added error message explaining that US regional settings must be used when running the HEC-RAS adapter (TT56791)
MIKE Workbench: Scenario Manager	Now possible to select scenario (plan) on registration of a HEC-RAS model (TT51099)
MIKE Workbench: Scenario Manager	Progress information now displayed when running MIKE adapters (TT51443)
MIKE Workbench: GIS Manager	Added item selection on dfs2 import (TT56591)
MIKE Workbench: Job Manager	Added option to email jog log after job execution (TT50270)

MIKE Workbench: Timeseries Manager	Added option to copy charts and replace timeseries in copied charts (TT51198)
MIKE Workbench: Scenario Manager	Added simulation progress information for MIKE adapters (TT51443)
MIKE Workbench: Job Manager	Added option to prompt job service user credential during install, along with option to change later (TT51388)
MIKE Workbench: GIS Manager	Added new generic vector data importer, compatible with all GDAL formats (TT50821)
MIKE OPERATIONS Desktop	Added more functionality for display of dates when use Relative to Data observation period (TT56035)
MIKE Workbench: Spreadsheet Manager	Added functionality for retrieving all members of an ensemble timeseries (TT56202)
MIKE Workbench: Scenario Manager	Added functionality for improving logging of crash information for MIKE+ adapter (TT55383)
MIKE Workbench: Timeseries Manager	Added display of feature and other associations to timeseries on right click (TT51131)
MIKE Workbench: Script Manager	Added space key selection in script intellisense (TT50826)
MIKE Workbench: GIS Manager	Allowed updating of existing favorites on right-click in map view (TT50868)
MIKE Workbench: Timeseries Manager	Enabled export of chart images to Document Manager (TT51384)
MIKE Workbench: GIS Manager	Enabled 'save to picture' export to Document Manager (TT51385)
MIKE Workbench: Timeseries Manager	Added specification of datetime format and delete value format to ASCII import tool (TT55378)
MIKE Workbench: Timeseries Manager	Added support for res1D import (TT50847)

Fixed issues

Module/type	Error/Inconvenience fixed
MIKE OPERATIONS Desktop	Fixed error in summary displays when using Observation Period 'Relative to Now' (TT56760).

MIKE OPERATIONS Web	Fixed error in functioning of filter groups (TT56811)
MIKE OPERATIONS Web	Fixed problem with updating of summary displays (TT56807)
MIKE OPERATIONS Web	Fixed problems with synchronization of theme and map displays (TT56183)
MIKE Workbench: Scenario Manager	Fixed problem with updating of simulation dates in when changing dates in a scenario (TT56581)
MIKE Workbench: Analysis Manager	Fixed error in export of MCA Sensitivity Analysis to Excel (TT56733)
MIKE Workbench: Spreadsheet Manager	Added documentation change explaining limit of Spreadsheet Gear to old .xls worksheet dimensions when comments or controls used in worksheet (TT56764)
MIKE Workbench: Timeseries Manager	Fixed time out error when deleting timeseries values using DIMS provider (TT56154)
MIKE Workbench: Operations Manager	Fixed error in charts drawn from 'Chart with Group in drop down' node (TT56533)
MIKE Workbench: Scenario Manager	Fixed projection support error when importing MIKE+ (TT56546)
MIKE OPERATIONS Web	Fixed problem with partial hiding of ribbon that occurred when changing theme selection (TT56181)
MIKE OPERATIONS Web	Enabled map refresh after animation stop (TT56182)
MIKE Workbench: Scenario Manager	Fixed problem with modifying simulation period when creating scenarios using the MIKE FM adapter (TT56207)
MIKE Workbench: Job manager	Fixed errors in logging of jobs resulting from some regional settings (TT50632)
MIKE OPERATIONS Desktop	Fixed errors in saving of real-time configurations (TT56185)
MIKE Workbench: Scenario Manager	Made improvements to coordinate system support for MIKE 21 FM adapter (TT55369)
MIKE Workbench: GIS Manager	Made improvements to GIS raster processor clip (TT53601)
MIKE Workbench: Scenario Manager	Fixed errors occurring when using the RR m1dx file with the MIKE+ adapter (TT55345)

MIKE Workbench: Timeseries Manager	Added check for duplicate time steps in blob TS storage (TT56060)
MIKE Workbench: Spreadsheet Manager	Disabled running of embedded scripts on spreadsheet export (TT56012)
MIKE OPERATIONS Web	Fixed errors in display during animations (TT55684)
MIKE OPERATIONS Web	Fixed errors in export popup (TT56055)
MIKE Workbench: Script Manager	Enabled use of matplotlib library in CPython environment (TT54563)
MIKE Workbench: GIS Manager	Enabled import/export of delete values when working with dfs2 files (TT53915)
MIKE Workbench: Script Manager	Fixed error in querying of timeseries when list input used (TT55613)
MIKE Workbench: Script Manager	Enabled querying of multiple y-axis values during timeseries queries (TT55610)
MIKE Workbench: GIS Manager	Enabled querying of coordinates in dfsu files (TT55975)
MIKE Workbench: Spreadsheet Manager	Fixed unhandled exception occurring when editing scripts used as macros in spreadsheets (TT55574)
MIKE Workbench: Scenario Manager	Fixed error occurring when using hotstart files with MIKE+ adapter (TT55989)
MIKE Workbench: Scenario Manager	Fixed error occurring when using hotstart files with MIKE HYDRO Basin adapter (TT56518)
MIKE Workbench: Timeseries Manager	Enabled saving chart as favorite after changing legend position (TT55884)
MIKE OPERATIONS Desktop	Fixed error with application of timeseries thresholds in real-time systems (TT55854)
MIKE OPERATIONS Desktop	Fixed error with statistical maps in real-time systems (TT55853)
MIKE OPERATIONS Desktop	Fixed error with coverage tool (TT55581)
MIKE OPERATIONS Desktop	Fixed error with longitudinal profile tool in real-time systems (TT55849)

MIKE OPERATIONS Web	Fixed error with observation period display (TT55572)
MIKE OPERATIONS Web	Fixed error with display of static feature layers (TT57212)
MIKE Workbench: Scenario Manager	Fixed error with MIKE SHE adapter hot start (56994)
MIKE Workbench: Scenario Manager	Fixed error with selection of template scenario when using MIKE HYDRO River adapter (TT57316)

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