

Release Notes 2024

MIKE OPERATIONS

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Introduction

Welcome to MIKE OPERATIONS 2024

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 2024.

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 14-15 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.

Note that model adapters of MIKE OPERATIONS support the official MIKE 2024 release only. This means that pre-releases of MIKE engines as well as the intermediate releases of MIKE+ 2023 Update 1, MIKE 2024 pre-releases and future update releases of MIKE 2024, are NOT supported.

System requirements

Operating systems

Fully supported Windows operating systems *	Windows 11 Pro, version 23H2 (64 bit) Windows 10 Pro, version 22H2 (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

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](#).

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 below short descriptions of the most significant news.

Release 2024

The MIKE OPERATIONS 2024 release is an official release based on version 2024 of MIKE Zero, MIKE+ and FEFLOW (8.1). The feature list includes both features included in the intermediate release of MIKE OPERATIONS 2023.1, MIKE OPERATIONS 2023.2 and MIKE OPERATIONS 2023.3 and features added since. MIKE OPERATIONS 2024 has gone through beta testing program and is considered the recommended release. This also means that installations running on the intermediate release of MIKE OPERATIONS 2023.1, 2023.2 and MIKE OPERATIONS 2023.3, should upgrade to MIKE OPERATIONS 2024.

Note that version of IronPython has been downgraded to version 2.7.12 because of critical issues in IronPython version 3.4.

New features (2024)

Module/type	New feature
Core	Security enhancements. Various security issues have been fixed and 3 rd party components upgraded.
Job Manager	More tools and providers are now cross platform enabled , so that they can be used for cloud and container execution.
Scenario Manager	FEFLOW model adapter enhancements. The FEFLOW adapter has some updates and improvements made as part of the MIKE Mine project.
Script Manager	Support for multiple Python installations. It is now possible to use your own Python libraries and activated Python version.
Script Manager	DevOps and GitHub script providers now support using Git branches.
Script Manager	IronPython version has been downgraded to version 2.7.12 because of critical in IronPython 3.4. <i>This means that updating scripts is no longer needed when upgrading to MIKE OPERATIONS 2024, even when upgrading from versions before 2023.3.</i>

New features (2023.3)

Module/type	New feature
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Core	<p>Security enhancements. Various security issues have been fixed.</p>
GIS Manager	<p>Support for temporal feature classes, so that multiple time steps can be stored and visualized in MIKE WORKBENCH.</p> <p>Feature classes are more efficient and requires less data to be stored. This also means that using and visualizing feature classes in Web applications are much more efficient than using 2D and 3D data as dfs2 and dfsu files.</p> <p>The introduction of temporal feature classes will allow model engines to store model output as feature classes (e.g. polylines).</p> <p>Initially this has been implemented in the FEFLOW model adapter.</p>
Job Manager	<p>MIKE OPERATIONS now supports and facilitates running CPython scripts on the job service of the DHI Cloud Platform. Simply create CPython scripts in MIKE OPERATIONS or in Git repositories and schedule them for DHI Cloud Platform execution from the MIKE OPERATIONS Job Manager.</p>
Scenario Manager	<p>HEC-RAS model adapter enhancements.</p> <p>The HEC-RAS adapter has been updated, fixing various issues as well as support running against more versions of HEC-RAS, so that the version of HEC-RAS used is identified and in case more HEC-RAS versions are installed, the version to use can be specified.</p>
Scenario Manager	<p>FEFLOW model adapter enhancements.</p> <p>The FEFLOW adapter has many updates and improvements made as part of the MIKE Mine project.</p> <p>These new features are now available for users upgrading to MIKE OPERATIONS 2023.3.</p> <p>This includes:</p> <ul style="list-style-type: none"> • Multi layer wells • Contour line output (as temporal feature classes) • Additional spatial output and output time series and parameters <ul style="list-style-type: none"> ○ Concentration ○ Well type ○ Node selections ○ LCE ○ Slice Number
Script Manager	<p>Note: IronPython has been downgraded to version 2.7.12 in MIKE OPERATIONS 2024 because critical issues was found in IronPython 3.4. This means that updating scripts is not needed in order to upgrade to MIKE OPERATIONS 2024.</p> <p>The Python engine used by IronPython scripts has been upgraded to Python v3 (3.4).</p>

The screenshot shows the ScriptDebugger interface. The main window displays a Python script with the following code:

```

1 import sys
2
3 def PrintVersion():
4     """
5     <Script>
6     <Author>admin</Author>
7     <Description>Please enter script description here</Description>
8     </Script>
9     """
10
11     print(sys.version_info)
12

```

Below the code editor, the Output window shows the result of the script execution:

```

sys.version_info(major=3, minor=4, micro=1, releaselevel='final', serial=0)

```

The status bar at the bottom of the window indicates "Finished".

Python 2 is outdated and there has been an urgent need for moving the scripts used in MIKE OPERATIONS to Python 3.

The move to Python 3 has been done in the internal release of MIKE OPERATIONS, so that the benefits of Python 3 now also are available in MIKE OPERATIONS.

Python 3 is:

- Readable and easily understandable compared to Python 2.
- Improves performance of the code's runtime compared to Python 2.
- Python 3 is not backwardly compatible with Python 2.
- Updated with new extended Python libraries.

Python 3 drastically changed the language to address security issues and design flaws in previous versions. Python 3 comes with a new syntax intended to prevent redundant or repetitive code, that is, code that does the same task in different ways. By providing a single, clear way of doing things, the ease of use and readability of Python 3 has improved considerably.

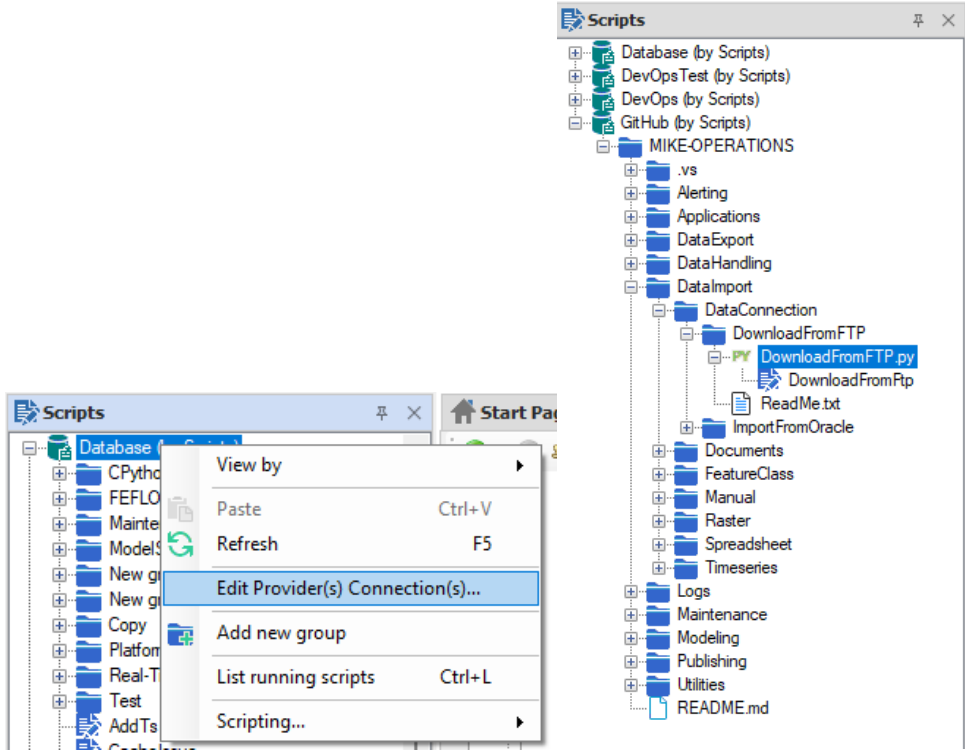
Some of the major changes in Python 3 include changing the print declaration to a built-in function, improved integer division, and improved Unicode support. The nature of these changes is such that Python 3 was incompatible with Python 2, in other words, it is backwards incompatible.

BREAKING CHANGE

The move from Python 2 to Python 3 is a breaking change.

This means that some old Python 2 scripts will have syntax errors when moving to Python 3 (note the following commonly used syntax).

- PRINT statement is now a method `print("")`.
Change the Python 2 script to use the `script()` method instead of the `print STATEMENT` that does not exist in Python 3.
- Integer division is always a float
- In IF statements `<>` is no longer supported. Use `!=`
Change any use of `<>` in IF statements to `!=`

	<p>For a complete list of changes between Python 2 and Python 3, please refer to web sites describing the language differences e.g. http://python3porting.com/differences.html</p>
<p>Script Manager</p>	<p>Script Providers for Azure DevOps and GitHub.</p> <p>The script manager has been upgraded to support the provider concept instead of the old Import from Git functionality.</p> <p>The new provider concept will allow easy sharing of scripts between projects as well as and the use of version control.</p> <p>Keeping scripts in Git repositories allows the use of 3rd party script editors instead of the script editor in MIKE OPERATIONS. Simply use any a 3rd party script editor (e.g. Visual Studio Code, PyCharm or Spyder) to use a well know script environment.</p> <p>The new script providers will allow scripts stored in Git repositories to be executed and debugged from within MIKE WORKBENCH instead of importing scripts to the MIKE OPERATIONS database.</p>  <p>The screenshot shows the 'Scripts' window with a tree view. The tree view includes categories like 'Database (by Scripts)', 'DevOps Test (by Scripts)', 'DevOps (by Scripts)', and 'GitHub (by Scripts)'. Under 'MIKE-OPERATIONS', there are sub-folders such as '.vs', 'Alerting', 'Applications', 'DataExport', 'DataHandling', 'DataImport', 'DataConnection', 'DownloadFromFTP', 'ImportFromOracle', 'Documents', 'FeatureClass', 'Manual', 'Raster', 'Spreadsheet', 'Timeseries', 'Logs', 'Maintenance', 'Modeling', 'Publishing', 'Utilities', and 'README.md'. A context menu is open over the 'DownloadFromFTP.py' file, showing options like 'View by', 'Paste (Ctrl+V)', 'Refresh (F5)', 'Edit Provider(s) Connection(s)...', 'Add new group', 'List running scripts (Ctrl+L)', and 'Scripting...'.</p>

New features (2023.2)

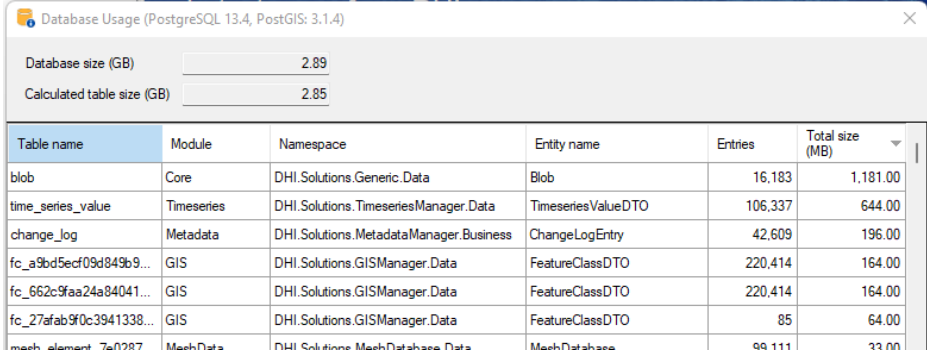
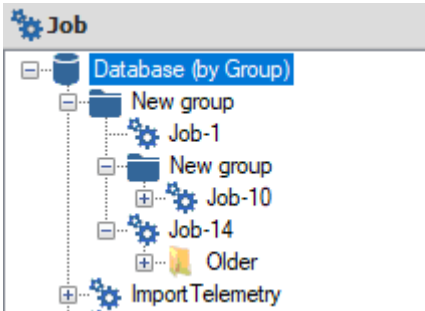
Module/type	New feature
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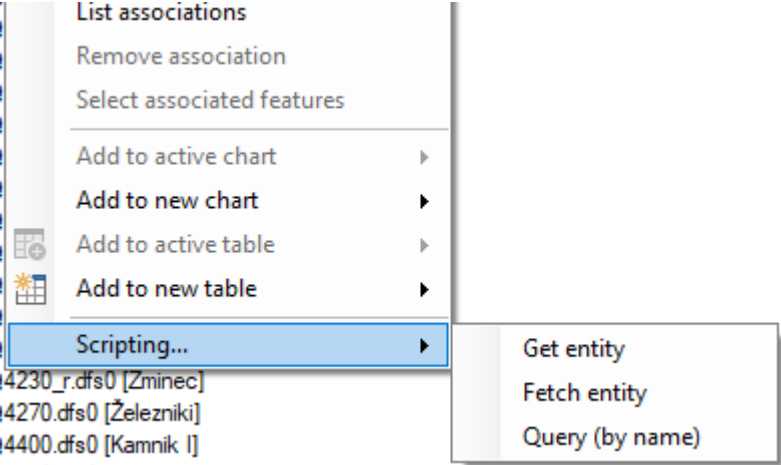
Core	Security enhancements. Various security issues have been fixed.
GIS Manager	<p>DHI Data Catalog Download Tool.</p> <p>Tool for downloading DHI global shared data as either time series or spatial data. The data can be imported directly into the MIKE OPERATIONS database or into files on disk (dfs0 or dfs2).</p>
GIS Manager	<p>Various import and export tools have been updated to target .NET Standard 2.0 and .NET 6 Windows, making the tools available on Linux and in the upcoming .NET 6 release of MIKE OPERATIONS. This includes:</p> <ul style="list-style-type: none"> • Shape File import/export • IMG raster import • KML import/export • TIFF import/export • ASCII file import/export • ASCII grid import/export
Job Manager	<p>Additional tools and providers added to the container used by the MIKE Cloud Job Service. This means that job tasks can use e.g. scripts using more tools and providers.</p> <p>The container now contains the following MIKE OPERATIONS NuGet packages (managers, providers and tools):</p> <ul style="list-style-type: none"> • DHI.MikeOperations.Core • DHI.MikeOperations.DocumentManager • DHI.MikeOperations.DocumentManager.Provider.MikeCloud • DHI.MikeOperations.DocumentManager.Tools.Export • DHI.MikeOperations.DocumentManager.Tools.Import • DHI.MikeOperations.FavoriteManager • DHI.MikeOperations.GISManager.Provider.MikeCloud.GIS • DHI.MikeOperations.GISManager.Provider.MikeCloud.Mesh • DHI.MikeOperations.GISManager.Provider.MikeCloud.Raster • DHI.MikeOperations.GISManager.Provider.Service • DHI.MikeOperations.GISManager.Raster • DHI.MikeOperations.GISManager.Tools.ASCIIFileImport • DHI.MikeOperations.GISManager.Tools.ASCIIGridFileExport • DHI.MikeOperations.GISManager.Tools.ASCIIGridFileImport • DHI.MikeOperations.GISManager.Tools.ASCIITemporalImport • DHI.MikeOperations.GISManager.Tools.Dfs2Import • DHI.MikeOperations.GISManager.Tools.Dfs2TemporalRasterFileExport • DHI.MikeOperations.GISManager.Tools.Dfs3Import • DHI.MikeOperations.GISManager.Tools.DfsulImport • DHI.MikeOperations.GISManager.Tools.DfsuToFeaturesImport • DHI.MikeOperations.GISManager.Tools.GeoProcessing • DHI.MikeOperations.GISManager.Tools.ImageFileImport • DHI.MikeOperations.GISManager.Tools.ImgRasterImport • DHI.MikeOperations.GISManager.Tools.KmlFileExport • DHI.MikeOperations.GISManager.Tools.KmlFileImport • DHI.MikeOperations.GISManager.Tools.MikeCloudDfsUpload • DHI.MikeOperations.GISManager.Tools.RasterProcessing • DHI.MikeOperations.GISManager.Tools.Res11Import • DHI.MikeOperations.GISManager.Tools.ShapeFileExport

	<ul style="list-style-type: none"> • DHI.MikeOperations.GISManager.Tools.ShapeFileImport • DHI.MikeOperations.GISManager.Tools.TiffImport • DHI.MikeOperations.GISManager.Tools.TiffTemporalImport • DHI.MikeOperations.IndicatorManager • DHI.MikeOperations.JobManager • DHI.MikeOperations.JobManager.JobServiceProviderMikeCloud • DHI.MikeOperations.JobManager.Tools.JobExport • DHI.MikeOperations.MetadataManager • DHI.MikeOperations.PlacesManager • DHI.MikeOperations.ScenarioManager • DHI.MikeOperations.ScenarioManager.Adapters.MIKE1D • DHI.MikeOperations.ScenarioManager.Adapters.MIKE21FM • DHI.MikeOperations.ScenarioManager.Adapters.MIKEFlood • DHI.MikeOperations.ScenarioManager.Adapters.MIKESHE • DHI.MikeOperations.ScenarioManager.Execution.MikeCloud • DHI.MikeOperations.ScriptManager.IronPython • DHI.MikeOperations.SpreadsheetManager • DHI.MikeOperations.SpreadsheetManager.Functions.GIS • DHI.MikeOperations.SpreadsheetManager.Functions.Indicator • DHI.MikeOperations.SpreadsheetManager.Functions.Spreadsheet • DHI.MikeOperations.SpreadsheetManager.Functions.Timeseries • DHI.MikeOperations.SystemManager • DHI.MikeOperations.TimeseriesManager • DHI.MikeOperations.TimeseriesManager.Provider.MikeCloud • DHI.MikeOperations.TimeseriesManager.Provider.MikeOperations • DHI.MikeOperations.TimeseriesManager.Tools.AdvancedStatistics • DHI.MikeOperations.TimeseriesManager.Tools.BasicStatistics • DHI.MikeOperations.TimeseriesManager.Tools.ExtremeValues • DHI.MikeOperations.TimeseriesManager.Tools.ImportTools • DHI.MikeOperations.TimeseriesManager.Tools.ImportTools.USGS • DHI.MikeOperations.TimeseriesManager.Tools.MikeCloudUpload • DHI.MikeOperations.TimeseriesManager.Tools.Processing • DHI.MikeOperations.TimeseriesManager.Tools.TimeseriesExport • DHI.MikeOperations.TimeseriesManager.Tools.TsUtilities
Scenario Manager	<p>FEFLOW adapter improvements. This includes:</p> <ul style="list-style-type: none"> • Create feature class for first element layer. • Support for temporal 2D output as individual slices for: <ul style="list-style-type: none"> ○ Head ○ Nodal Distributions

New features (2023.1)

Module/type	New feature
Core	General performance improvements maintaining data. The user experience working with data in the explorers is improved retrieving data faster.
Core	Database Usage updates for a getting a better overview of data base usage.

	 <table border="1" data-bbox="472 325 1393 556"> <thead> <tr> <th>Table name</th> <th>Module</th> <th>Namespace</th> <th>Entity name</th> <th>Entries</th> <th>Total size (MB)</th> </tr> </thead> <tbody> <tr> <td>blob</td> <td>Core</td> <td>DHI.Solutions.Generic.Data</td> <td>Blob</td> <td>16,183</td> <td>1,181.00</td> </tr> <tr> <td>time_series_value</td> <td>Timeseries</td> <td>DHI.Solutions.TimeseriesManager.Data</td> <td>TimeseriesValueDTO</td> <td>106,337</td> <td>644.00</td> </tr> <tr> <td>change_log</td> <td>Metadata</td> <td>DHI.Solutions.MetadataManager.Business</td> <td>ChangeLogEntry</td> <td>42,609</td> <td>196.00</td> </tr> <tr> <td>fc_a9bd5ecf09d849b9...</td> <td>GIS</td> <td>DHI.Solutions.GISManager.Data</td> <td>FeatureClassDTO</td> <td>220,414</td> <td>164.00</td> </tr> <tr> <td>fc_662c9faa24a84041...</td> <td>GIS</td> <td>DHI.Solutions.GISManager.Data</td> <td>FeatureClassDTO</td> <td>220,414</td> <td>164.00</td> </tr> <tr> <td>fc_27afab9f0c3941338...</td> <td>GIS</td> <td>DHI.Solutions.GISManager.Data</td> <td>FeatureClassDTO</td> <td>85</td> <td>64.00</td> </tr> <tr> <td>mash_element_7af0287</td> <td>MashData</td> <td>DHI.Solutions.MashDatabase.Data</td> <td>MashDatabase</td> <td>99,111</td> <td>73.00</td> </tr> </tbody> </table>	Table name	Module	Namespace	Entity name	Entries	Total size (MB)	blob	Core	DHI.Solutions.Generic.Data	Blob	16,183	1,181.00	time_series_value	Timeseries	DHI.Solutions.TimeseriesManager.Data	TimeseriesValueDTO	106,337	644.00	change_log	Metadata	DHI.Solutions.MetadataManager.Business	ChangeLogEntry	42,609	196.00	fc_a9bd5ecf09d849b9...	GIS	DHI.Solutions.GISManager.Data	FeatureClassDTO	220,414	164.00	fc_662c9faa24a84041...	GIS	DHI.Solutions.GISManager.Data	FeatureClassDTO	220,414	164.00	fc_27afab9f0c3941338...	GIS	DHI.Solutions.GISManager.Data	FeatureClassDTO	85	64.00	mash_element_7af0287	MashData	DHI.Solutions.MashDatabase.Data	MashDatabase	99,111	73.00
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GIS Manager	Remote DFSU provider for visualizing DFSU files in MIKE OPERATIONS.																																																
Job Manager	<p>Organize jobs in groups in the job explorer.</p> 																																																
Scenario Manager	Performance updates for a better user experience in the scenario explorer when maintaining scenarios and simulations.																																																
Scenario Manager	<p>Import simulation, allows importing native simulation runs into MIKE OPERATIONS for selected model adapters, so that historical results can be used in MIKE OPERATIONS, without running the simulation from within MIKE OPERATIONS. The following model adapters supports simulation import.</p> <ul style="list-style-type: none"> • MIKE HYDRO Basin • MIKE HYDRO River • MIKE21FM • FEFLOW • GoldSim • HEC-RAS • NWS • SWAT 																																																
Scenario Manager	<p>FEFLOW adapter improvements. This includes:</p> <ul style="list-style-type: none"> • Performance improvements for a nice user experience. • Select what model object types and model objects to register. • Support for setting nodal distributions based on nodes in applied node selections. • Save nodal distribution output as spatial output (feature classes). 																																																
Script Manager	<p>New module provider query options for better performance in queries used in scripts.</p> <ul style="list-style-type: none"> • OrderBy Order results of a database query. • MaxResults Only return a limited number of results from the database. 																																																

	<ul style="list-style-type: none"> CountResults Count the number of results of a query without retrieving entities from the database. <pre># Count the number of time series of storage type 1 (Blob) module = app.Modules.Get('Time series Manager') query = DHI.Solutions.Generic.Query() query.Add(DHI.Solutions.Generic.QueryElement("StorageType", 1, DHI.Solutions.Generic.QueryOperator.Eq)) count = module.TimeSeriesList.CountResults(query)</pre>
Script Manager	Support debugging CPython scripts.
Script Manager	Paste code snippets based on explorer selections directly into scripts. 
Script Manager	Additional CPython Python Libraries embedded in the MIKE OPERATIONS installation. <i>csv, gdal, geopandas, glob, h5netcdf, matplotlib, mikeio1d, MIKE.IO, mikecore-python, netCDF4, numPy, ogr, os, pythonnet, Pandas, PIP, rasterio, scipy, Xarray</i>
Time Series Manager	Global Cloud Data Tool for importing data from the Cloud DHI Global Data Storage.

Fixed issues (2024)

Module/type	Error/Inconvenience fixed
ANM – Analysis Manager	XML doc missing - Analysis Manager
CON – Configuration	MO Desktop does not open
COR - Core	Extra blank on Database Usage
COR - Core	Wrong status for Troubleshooting wizard
COR - Core	XML doc missing - Event Manager

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COR - Core	XML doc missing - Core
DBU – Database Utility	Upgrade of database in Azure does not complete
GIS – GIS Manager	Rasters and vectors are not placed in the right position.
GIS – GIS Manager	Cloud Download tool expect regular timesteps
GIS – GIS Manager	When temporal raster added to the map - nothing is visible
IM – Indicator Manager	XML doc missing - Indicator Manager
JOB – Job Manager	Make a Cloud connection in Job manager, gets an error
JOB – Job Manager	Beta: After uninstalling MO 2023, MO 2024 jobs will not run
MET – Metadata Manager	XML doc missing - Metadata Manager
MIKE OPERATIONS Web Classic	Not able to run job from MO web
MO Desktop - Configuration	Saving changes button for configuration is not working
PLM – Places Manager	XML doc missing - Places Manager
REP – Report Manager	XML doc missing - Report Manager
SCM – Scenario Manager	MIKE 21 error during registration
SCM – Scenario Manager	The scenario Properties gets lost when the focus is going to other place
SCM – Scenario Manager	MIKE+ adaptor - model does not run
SCM – Scenario Manager	HEC-RAS adapter did not work if DHI.Solutions.ScenarioManager string in config did not exist and RAS503 is not installed
SCM – Scenario Manager	Crash on registering FEFLOW model
SCM – Scenario Manager	Unexpected error message pops up for Mike Hydro Basin adapter when Mike Zero is not installed
SCM – Scenario Manager	Potential bug MIKE Hydro River Adapter
SCM – Scenario Manager	Error Cloud executing of MIKE1D

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SCM – Scenario Manager	HEC-RAS adaptor works wrongly for complex setup (done here in Prague)
SCM – Scenario Manager	SHE adapter - example module under installation folder cannot be executed
SCM – Scenario Manager	HEC-RAS adaptor stop recognize Time series
SCM – Scenario Manager	Error messages when registering models
SCM – Scenario Manager	XML Doc missing - Script Manager
SCM – Scenario Manager	XML doc missing - Spreadsheet Manager
SCR – Script Manager	CPython - Fails when more Python versions installed (or version mismatch)
SCR – Script Manager	Scripting on any tools is not working
SCR – Script Manager	Script help has uneven formatting
SCR – Script Manager	Describe script provider token scopes in online help
SCR – Script Manager	Error when setting up script provider
SCR – Script Manager	Application crash on GitHub script provider
SCR – Script Manager	F1 help not available in Script Editor
SCR – Script Manager	Run menu on non-script
SCR – Script Manager	Edit/Open only possible on non-script files in Script Provider
SCR – Script Manager	Simple test script cannot execute from GitHub provider and imports are unclear (import <storage> should use same provider)
SCR – Script Manager	The F1 help is not properly pops up for provider setup form
SPR – Spreadsheet Manager	Get a function on a cell works and then get it again on another cell, shell crashes
SYS – System Manager	System Manager-Create New workspace documentation update.
TIM – Time Series Manager	After editing of the long TS in Cloud -> data are gone
TIM – Time Series Manager	XML doc missing - Time Series Manager

WFM - Workflow Manager	It is not possible to create a workflow
WFM - Workflow Manager	XML doc missing - Workflow Manager

Fixed issues (2023.3)

Module/type	Error/Inconvenience fixed
DBU – Database Utility	Database Manager Utility makes too many idle connections
GIS – GIS Manager	MIKE Cloud GIS Provider - coordinate system error -> Pulkovo 1942(58) / Stereo70
GIS – GIS Manager	Coordinate system transformation Cloud / Processed cloud mesh /shape file
JOB – Job Manager	Job instance is not updated in Explorer when running in the cloud
JOB – Job Manager	OutputTimeseriesDisposition cannot be reset
SCM – Scenario Manager	Coordinate System not supported error
SCM – Scenario Manager	HEC-RAS adapter does not parse Limpopo
SCM – Scenario Manager	HEC-RAS adapter makes wrong output hot start
SCM – Scenario Manager	HEC-RAS adapter picks wrong initial condition
SCM – Scenario Manager	HEC-RAS adapter shares temporary directory across models
SCM – Scenario Manager	Un-support version of HEC-RAS gives a warning, but simulation runs.
SCM – Scenario Manager	MIKE SHE cannot run in the cloud
SCM – Scenario Manager	MIKE SHE execution in jobs does not work in cloud
SCM – Scenario Manager	HEC-RAS adapter gets historical results and slows down
SCM – Scenario Manager	Error registering a MIKE 1D model
SCM – Scenario Manager	MIKE1D adapter cannot read control strategy output timeseries
SCM – Scenario Manager	MIKE 21 adaptor - Do not include disabled outputs

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SCM – Scenario Manager	MIKE 21 adaptor - Do not require result files for constant initial conditions
SCM – Scenario Manager	MIKE 21 adaptor - Error on valid initial conditions
SCM – Scenario Manager	Model execution fails for MIKE Hydro River model
SCM – Scenario Manager	MIKE+ Adaptor issues (NZ model)
SCM – Scenario Manager	MIKE HYDRO River issue
SCR – Script Manager	Script debugger picks wrong script

Fixed issues (2023.2)

Module/type	Error/Inconvenience fixed
COR - Core	User of the type of workspace_member can execute SQL for example from Attribute Query in map - to all tables, he have right.
COR - Core	All explorers are selected by default
COR - Core	Unrecoverable Error contains wrong svclog(s)
DOC – Document Manager	Document Manager Cloud Provider: Create new group and delete it again throws an exception
DOC – Document Manager	The read-only user should not have edit access to datasets and projects on Cloud
DOC – Document Manager	Read-only users should not have edit access for Cloud datasets and projects
GIS – GIS Manager	Invalid PostGIS version is not clear
GIS – GIS Manager	KML file import fails
GIS – GIS Manager	MIKE Cloud dfs2 is wrong
GIS – GIS Manager	GIS Manager: MIKE Cloud upload tool does not show the alias in the list of providers
GIS – GIS Manager	Platform - Show read-only datasets and projects
GIS – GIS Manager	NuGet packages not created
GIS – GIS Manager	Refresh on a group in the GIS explorer does not update nodes under the group

GIS – GIS Manager	Import from KML/KMZ file tool gets an error
GIS – GIS Manager	Import from KML tool has the wrong validation for duplicate names
GIS – GIS Manager	If raster, having / in item name and dfsu file is loaded to the Cloud multidimensional storage by Cloud Admin or MIKE C...
GIS – GIS Manager	ASCII temporal import tool gives an error "Index was outside the bounds of the array"
JOB – Job Manager	Editing connection on MO Job Service Provider will keep a default connection
JOB – Job Manager	Change port on localhost
JOB – Job Manager	Wrong icon for scheduled MIKE Cloud job
JOB – Job Manager	Wrong sorting and strange menu
JOB – Job Manager	Execute a Cloud job is not possible
JOB – Job Manager	Job instance properties are not always shown
JOB – Job Manager	Schedule a job will not have the logs sort in the right order
JOB – Job Manager	Scheduling information is empty
JOB – Job Manager	Scripting 'fetch all entries in a group' is not consistent
JOB – Job Manager	List of job instances is not refreshed when started on schedule
JOB – Job Manager	Sorting of job instance will not refresh
JOB – Job Manager	Finish time is wrong for jobs in MIKE Cloud
JOB – Job Manager	Crash when moving window
JOB – Job Manager	Right-click in explorer crashes the application
OPR – Operations Manager	Operations manager throws an exception
OPR – Operations Manager	FilterValues is not working in the Operations Manager
REP – Report Manager	Pop-up window too small when updating report definition template

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SCM – Scenario Manager	Running a scenario with auto-approve in background cause an error
SCM – Scenario Manager	Pre- and Post-Processing scripts cannot be assigned if they have multiple arguments
SCM – Scenario Manager	The attached MIKE+ model cannot run in MIKE Operations
SCM – Scenario Manager	Delete a scenario while it has simulation running in the background gets an exception
SCM – Scenario Manager	MIKE+ results with DA are different when run with MIKE+ adapter compared to without
SCM – Scenario Manager	Registered 3-way model setup (Blue Beach) does not execute
SCR – Script Manager	Data Export/Import of scripts linked to scenario fails if script moves group
SCR – Script Manager	Crash when maximizing window
SCR – Script Manager	Running job takes focus
SCR – Script Manager	Scripting get tool with properties - enum should be fully qualified
SCR – Script Manager	Reviewer role cannot script on an entity, a warning pops-up
SCR – Script Manager	Supply the script path to Execute Script Tool and clear the path, shell crashes
SPR – Spreadsheet Manager	GetTimeseries spreadsheet function does not work with providers
SPR – Spreadsheet Manager	The spreadsheet data export tool cuts off columns of more than 256
SYS – System Manager	The password reset looks wrong
TIM – Time Series Manager	Extract time series tool does not work for step accumulated
TIM – Time Series Manager	Net6: List association on a time series gets a warning that an assembly is missing
TIM – Time Series Manager	Application crashes on plotting timeseries

Fixed issues (2023.1)

Module/type	Error/Inconvenience fixed
CON – Configuration	Run R-Statistics tool gets a warning that contains path3 that does not exist

COR - Core	It must be possible to delete saved tool instance after close / open the shell
COR - Core	Error in Database usage feature; wrong calculation of database storage
COR - Core	Support new PostGIS 3.3 version for PostgreSQL 14 and 15
COR - Core	Database Usage - Size of the blob table is not accurate
GIS – GIS Manager	GIS: Temporal Zonal Statistics Tool returns wrong timeseries
GIS – GIS Manager	GIS: Color Representation of Raster is misleading
GIS – GIS Manager	Error in display of NetCDF files
GIS – GIS Manager	GISRasterProcessor.Clip does not work for different coordinate systems
GIS – GIS Manager	Vector to Raster - error for rotated rasters - wrong position
GIS – GIS Manager	Vector to Raster - error for rotated rasters - lock MO
GIS – GIS Manager	Big raster from MIKE Cloud raster provider cannot be drawn on map
GIS – GIS Manager	Polygon feature class that has amount of data, change the layer style from simple to unique values, shell vanish
GIS – GIS Manager	Change the layer style of a line type feature class to
GIS – GIS Manager	Reset layer symbology to workspace default crash for Remote raster providers (file + cloud)
JOB – Job Manager	RunScript task does not log print statements
JOB – Job Manager	Delete the job Target then press delete again will cause an error
JOB – Job Manager	Beta: pictures in online help for jobs look terrible
JOB – Job Manager	JobView does not dimm disabled task for MIKE Cloud
JOB – Job Manager	Displaying job task description does not respect changing category
JOB – Job Manager	Beta: Workflow does not run from job
JOB – Job Manager	MIKE 1D support in MO for External Simulation
MET – Metadata Manager	Metadata manager cannot set float value for property

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MIKE Workbench	Documentation on Initial Condition logic in Scenario Manager (CAS-06766)
MIKE Workbench	There is still a lot of "MC" in the help file
SCM – Scenario Manager	Register MHR Model - Scenario creation error message
SCM – Scenario Manager	MIKE SHE adapter has issue with NON-UTM
SCM – Scenario Manager	Mike Operations GoldSim Adapter
SCM – Scenario Manager	MIKE1D adapter links wrong hot start and result for RR
SCM – Scenario Manager	SCM: HEC-RAS cannot load geometry data - and does not inform about the cause
SCM – Scenario Manager	Beta: MIKE1D adapter fails to synchronize from cloud in case of engine error
SCM – Scenario Manager	MIKE1D exception in MIKE Cloud fails on scripts
SCM – Scenario Manager	MIKE1D adapter: Exceptions thrown during preprocessing of simulation runs does not show the full stack trace
SCM – Scenario Manager	MHB takes a very long time to run when using dfs0 files with multiple items.
SCM – Scenario Manager	MIKE Hydro River Adapter fails to execute model
SCM – Scenario Mode	Creating scenario for MIKE+ model in MIKE OPERATIONS
SCR – Script Manager	CPython storage fails to "import" another CPython storage
TIM – Time Series Manager	Slow run time for delta change factor tool
TIM – Time Series Manager	Timeseries Flags are not maintained correctly
TIM – Time Series Manager	Crash when there are no flag definitions of a flag type being used on a time series