Release Notes 2025

WEST

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Introduction

Welcome to WEST 2025.

In this Release Note you will find information about new features of WEST, and what you need to know in order to install and get started with Release 2025.

WEST 2025 is a powerful and user-friendly tool for dynamic modelling and simulation of municipal Water Resource Recovery Facility (WRRF) and Integrated Urban Water System (IUWS). The extensive state-of-the art model library of WEST enables one to model and evaluate almost any kind of modern WRRF and a variety of IUWS systems.

WEST 2025 comes in five different flavors:

- **WEST Basic**: Entry-level product: allows for the construction of a plant layout (limited in size) and for the execution simulations, using a reduced block library
- **WEST**: Construction of plant models using standard blocks, simulation, output visualization, and computation of user-specified objective functions, and execution of advanced experiments (formerly: WESTforDESIGN)
- **WEST +**: Construction of plant models using standard and custom blocks, simulation, output visualization, computation of user-specified objective functions, and execution of advanced experiments (formerly: WESTforOPTIMIZATION)
- **WEST Player**: Simulation, output visualization, and computation of user-specified objective functions on the basis of a fixed executable plant model, previously prepared by WEST or WEST + (formerly: WESTforOPERATORS)
- **WEST SDK**: Software Development Kit for the integration of the WEST engine (i.e. Tornado) in custom applications (formerly: WESTforAUTOMATION)

WEST 2025 comes with 2 separate model libraries: the **MSL** library (that uses MSL as modelling language), now obsolete, and the **Modelica** library (that uses Modelica as modelling language).

Important: issues that should surface in the MSL library will be solved, but the library will no longer be actively developed and will eventually be discontinued. As of Release 2020, all new (model) development is taking place in Modelica.

System requirements

Operating systems

Fully supported Windows operating systems *	Windows 11 Pro, version 24H2 (64 bit) Windows 11 Pro, version 23H2 (64 bit) Windows 10 Pro, version 22H2 (64 bit) Windows Server 2022 Standard, version 21H2
Non-supported but partially tested operating systems **	Windows Server 2019 Standard, version 1809

* 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

DHI License Management - If you are installing on a computer or server where you will also install the license file, please also install the DHI License Manager. It must be downloaded separately.

To install WEST, please go to the WEST product folder and execute the setup.exe file either on the MIKE 2025 USB or from the downloaded, un-zipped installation files. Press the ‘Install’ button to begin installation.

The setup program will automatically install all necessary files and folders on your computer. Additionally, an entry is created in the Start Menu for WEST.

Important information: Please be aware that all MIKE software on the same computer must be installed with the same service pack. This is due to the dependencies between MIKE software products and the ability for the software to use the latest features and systems updates.

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 2025 require a 2025 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 WEST software in licensed mode, please refer to the DHI License Manager Release Notes. (License Manager Release Notes)

Product invocation

Launch WEST from the Windows Start menu.

Support

For general support, please refer to our Customer Care Portal.

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 accessed from here.

New features and fixed issues

Every new release of WEST consists of new modules, new features and/or corrections to problems or significant inconsistencies discovered in previous releases. Below is an overview of the most significant news.

Release 2025

New features and improvements

Module/type	New feature
Modelica Library	Models Guide (available upon request)
Modelica Library	New primary and secondary settling tank models, both ideal (point-settler) and 1D (Takacs), with the option of different removal efficiency for different particulate fractions.

Fixed issues/inconveniences

Module/type	Error/Inconvenience
Modelica Library	Ensured phosphorous continuity through an anaerobic digester.
Modelica Library	Correction to the calculation of TSS (and biofilm mass) in biofilm model (in ASM2dMod).
Modelica Library	Improved initialization mechanism of biofilm models, both flat and granular.
Modelica Library	Fixed error in calculation of X_BOD in ASM2dISS.
Modelica Library	Fixed error in calculation of help_Conc_S and help_Conc_NP, in DWF2 conversion model.
Modelica Library	Calculation of methane yield added to anaerobic digestion model.

Known defects and workarounds

Module/type	Error/Inconvenience	Work-around
WEST GUI	The definition of Calculator Variables involving vectors or matrices in Modelica results in an error	Manually edit the TornadoMain.xml in the WEST\2021\etc\ folder and set to “**false**” the **EnableMSLCalcVarCompatibility** property
Samples	Python Extensions sample only works after executing steady-state and dynamic simulation	Follow instructions provided in the Notes to the sample