



# ExtendSim Release Notes

2026.R1

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## TABLE OF CONTENTS

|           |                                                                    |    |
|-----------|--------------------------------------------------------------------|----|
| SECTION 1 | RELEASE SUMMARY .....                                              | 5  |
| SECTION 2 | NEW FEATURES .....                                                 | 6  |
| 2.1       | PYTHON BRIDGE BLOCK.....                                           | 6  |
| 2.2       | NOTIFICATION WINDOW .....                                          | 6  |
| 2.2.1     | NOTIFICATION WINDOW FEATURES .....                                 | 6  |
| 2.3       | DIAGNOSTIC LOG .....                                               | 6  |
| 2.4       | PDF PRINTING.....                                                  | 9  |
| 2.5       | SIMULATION PAUSE OPTION .....                                      | 9  |
| 2.6       | PYTHON INTEGRATION SUPPORT TOOLS .....                             | 9  |
| 2.6.1     | PYTHON BRIDGE SUPPORTING ARCHITECTURE.....                         | 9  |
| 2.6.2     | PYTHON EDITOR.....                                                 | 9  |
| 2.6.3     | OTHER PYTHON-RELATED FEATURES.....                                 | 10 |
| 2.6.3.1   | Access and Manage ExtendSim model data from Python .....           | 10 |
| 2.6.3.2   | Python Bridge block integration with the Notification Window ..... | 10 |
| 2.6.3.3   | Isolated Python execution .....                                    | 10 |
| 2.6.4     | PYTHON VERSION MANAGEMENT .....                                    | 10 |
| SECTION 3 | IMPROVEMENTS .....                                                 | 11 |
| 3.1       | DATABASE ENHANCEMENTS.....                                         | 11 |
| 3.2       | DLL IMPROVEMENTS .....                                             | 11 |
| 3.3       | ADVANCED ZOOM CONTROLS .....                                       | 11 |
| 3.4       | IMPROVED NAMED CONNECTION NAVIGATION .....                         | 11 |
| 3.5       | FILE SAVE ENHANCEMENT .....                                        | 11 |
| SECTION 4 | APPLICATION FIXES .....                                            | 13 |
| 4.1       | EXTENDSIM DATABASE .....                                           | 13 |
| 4.2       | WORKSHEET AND DRAWING TOOLS .....                                  | 13 |
| 4.3       | OTHER FIXES .....                                                  | 13 |



|           |                                                          |    |
|-----------|----------------------------------------------------------|----|
| SECTION 5 | BLOCKS & LIBRARIES – NEW AND IMPROVED FEATURES .....     | 15 |
| 5.1       | DIGITAL SIGNATURES FOR LIBRARIES .....                   | 15 |
| 5.2       | BLOCK IMPROVEMENTS & FIXES .....                         | 15 |
| 5.2.1     | ANALYSIS LIBRARY .....                                   | 15 |
| 5.2.2     | CHART LIBRARY .....                                      | 15 |
| 5.2.3     | ITEM LIBRARY .....                                       | 16 |
| 5.2.4     | RATE LIBRARY .....                                       | 17 |
| 5.2.5     | RELIABILITY LIBRARY .....                                | 17 |
| 5.2.6     | UTILITIES LIBRARY .....                                  | 17 |
| 5.2.7     | VALUE LIBRARY .....                                      | 18 |
| 5.2.8     | HIERARCHICAL BLOCKS .....                                | 18 |
| 5.2.9     | OTHER BLOCK FIXES .....                                  | 18 |
| SECTION 6 | FUNCTIONS AND INCLUDES CHANGES .....                     | 19 |
| 6.1       | NEW FUNCTIONS .....                                      | 19 |
| 6.2       | DATABASE API IMPROVMENTS .....                           | 19 |
| 6.3       | CHANGES AND FIXES TO FUNCTIONS .....                     | 19 |
| 6.4       | INCLUDES IMPROVEMENTS .....                              | 19 |
| 6.4.1     | PLATFORM-WIDE INCLUDES .....                             | 19 |
| 6.4.2     | CHART LIBRARY INCLUDES .....                             | 20 |
| 6.4.3     | ITEM LIBRARY INCLUDES .....                              | 20 |
| 6.4.4     | UTILITIES LIBRARY INCLUDES .....                         | 20 |
| 6.4.5     | VALUE LIBRARY INCLUDES .....                             | 20 |
| 6.5       | CONNECTION AND OBJECT HANDLING IMPROVEMENTS .....        | 20 |
| 6.6       | OTHER IMPROVEMENTS TO INCLUDE FILES .....                | 21 |
| 6.7       | GLOBAL VARIABLE CHANGES .....                            | 21 |
| SECTION 7 | IMPORTANT CHANGES TO BE AWARE OF IN EXTENDSIM 2026 ..... | 22 |
| 7.1       | FLEXIBLE LICENSING OPTIONS .....                         | 22 |



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|           |                    |    |
|-----------|--------------------|----|
| SECTION 8 | KNOWN ISSUES ..... | 23 |
|-----------|--------------------|----|

---

|     |                                                          |    |
|-----|----------------------------------------------------------|----|
| 8.1 | MULTI-MONITOR WINDOW POSITIONING ISSUE .....             | 23 |
| 8.2 | NOTIFICATION WINDOW POSITION NOT RESTORED CORRECTLY..... | 23 |
| 8.3 | SCALING (PDF PRINTER SETTINGS) .....                     | 23 |

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|           |                 |    |
|-----------|-----------------|----|
| SECTION 9 | CONTACT US..... | 24 |
|-----------|-----------------|----|

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## SECTION 1 RELEASE SUMMARY

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This document presents the Release Notes for the ExtendSim simulation software. All details herein pertain specifically to ExtendSim build number 2026.R1, released by ANDRITZ in September 2026.

ExtendSim 2026.R1 delivers a more reliable, scalable, and developer-friendly modeling environment while providing substantial improvements to usability and diagnostic capabilities with the primary focus on five major areas:

1. Python integration and development workflows
2. Notification window and diagnostic log
3. Database scalability and performance
4. Significant stability and usability improvements across the platform
5. Improved printing and PDF generation
6. Licensing enhancements



## SECTION 2 NEW FEATURES

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### 2.1 PYTHON BRIDGE BLOCK

The Python Bridge block integrates ExtendSim with Python, enabling advanced analytics, machine learning, custom calculations, data processing, and connectivity with external systems. It provides a dedicated environment for configuring, executing, and monitoring Python functionality directly within a model.

**Key capabilities include:**

- Gateway to the full Python ecosystem, enabling use of standard libraries for analytics, optimization, and AI.
- Embedded Python code editor for writing and managing model logic.
- Native Python interpreter to execute code directly within ExtendSim models.
- Familiar, Equation-block-style interface for a seamless modeling experience
- Flexible execution and runtime options
- Variable definition and management tools
- Script monitoring and output display

### 2.2 NOTIFICATION WINDOW

Centralized window for status messages from both the application and block code (MODL and Python). The Notification Window replaces disruptive pop-up dialogs with a persistent, stackable message log. It uses color coding to clearly indicate message severity (**Critical**, **Warning**, Info, **Debug**) presenting notifications in a clear, organized interface to help monitor model activity, troubleshoot issues more efficiently, and stay informed about important events occurring during simulation runs.

#### 2.2.1 NOTIFICATION WINDOW FEATURES

The Notification Window includes several features designed to support more flexible and efficient workflows:

- Fully dockable window, allowing docking or free floating across monitors.
- Multi-monitor support
- Persistent layout and window position settings -- User's last position and docked state preserved across sessions.
- Reduced interruptions from informational messages and diagnostics

This enhanced notification experience makes it easier to monitor application activity, review diagnostics, and manage messages without disrupting model development.

### 2.3 DIAGNOSTIC LOG

Comprehensive debugging tool that records actions, events, and operations across a model. The



Diagnostic Log provides faster issue identification and resolution by giving developers clear visibility into model behavior and problem areas.

Detailed diagnostics can include critical errors, warning messages, model run information, debugging alerts, timestamps, and other model activity, such as:

- Block activity
- Message handler execution
- Script execution
- Alerts and prompts
- User interface actions
- Internal platform events
- Execution history

The Diagnostic Log provides a detailed record of session activity, making it easier to:

- Troubleshoot unexpected model behavior
- Investigate crashes by reviewing activity leading up to the crash
- Identify where execution stopped
- Understand the sequence of activity leading up to an issue

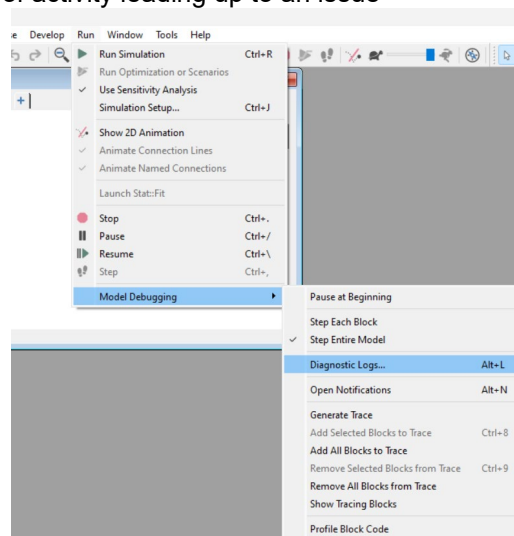


**Figure 1: Enable the Diagnostic Log via Run > Model Debugging > Diagnostic Logs**

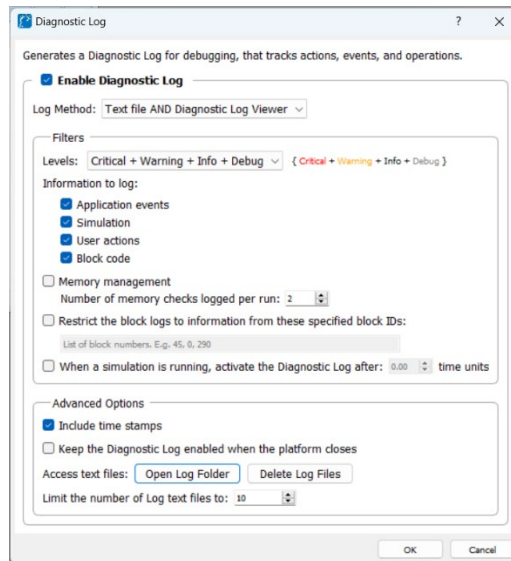


Figure 2: Diagnostic Log settings

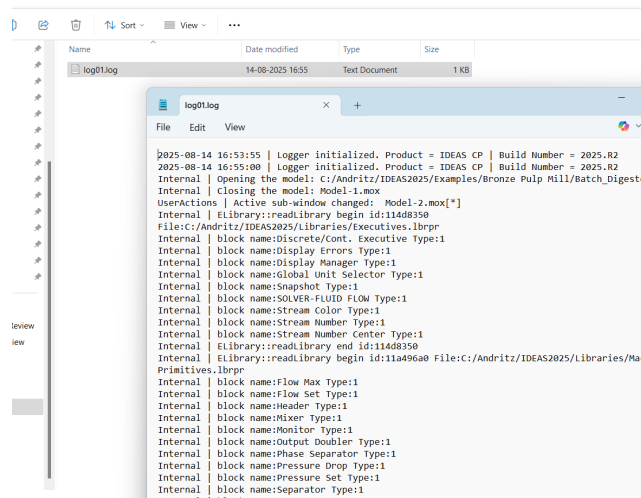


Figure 3: Diagnostic Logs are stored in the Documents > Logs folder

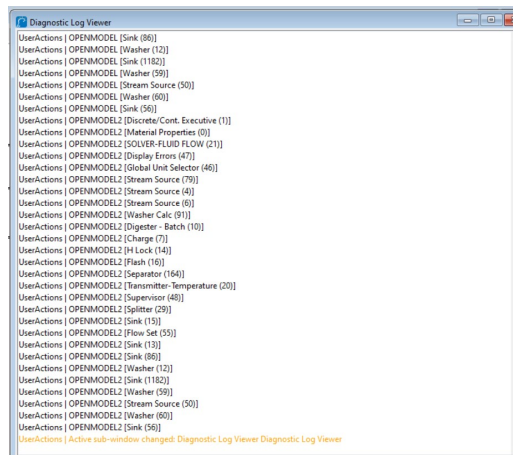


Figure 4: Diagnostic Log Viewer

## 2.4 PDF PRINTING

- New *File > Print PDF* menu item ensures correct page breaks, orientation, and sizing when printing models to PDF.
- Improves handling of large worksheets, landscape layouts, multi-page output, and page breaks.
- Scaling option allows model layouts to be resized automatically during PDF generation without modifying the original model.
- Print an entire model on one page or across multiple pages with clear page breaks.

## 2.5 SIMULATION PAUSE OPTION

- Choose whether simulations pause when editing block parameters during a model run or not
- Ideal for Digital Twins where continuous simulation is required

## 2.6 PYTHON INTEGRATION SUPPORT TOOLS

### 2.6.1 PYTHON BRIDGE SUPPORTING ARCHITECTURE

The Python Bridge block includes integrated components that manage Python execution and communication behind the scenes, including:

- Internal data structures and hidden database management
- Code editing and variable definition support
- Execution control and runtime management
- Variable display and script output handling

### 2.6.2 PYTHON EDITOR

The Python Bridge block includes a dedicated Python editor with productivity and usability features such



as:

- Two editor windows: Main and Initialization editors
- Auto-completion
- Cross-script code awareness
- Editor instance management

### **2.6.3 OTHER PYTHON-RELATED FEATURES**

#### **2.6.3.1 Access and Manage ExtendSim model data from Python**

Python scripts can directly read and update block dialog values and global variables through exposed ModL APIs and the `es.gvars` interface, making it easier to automate tasks, customize model behavior, and exchange data between Python and ExtendSim.

#### **2.6.3.2 Python Bridge block integration with the Notification Window**

Python standard output and error messages are routed directly to the Notification Window, providing a consistent in-application console experience.

#### **2.6.3.3 Isolated Python execution**

Each Python Bridge block executes within its own isolated module, preventing unintended sharing of variables and code between blocks.

### **2.6.4 PYTHON VERSION MANAGEMENT**

The Python Settings interface simplifies environment management and improves visibility into installed Python versions. The active Python version, initialization status, and available actions are clearly displayed and include:

- Support for multiple Python versions
- Efficient initialization timing
- Version validation
- Error handling
- Restart protection when switching Python versions



## SECTION 3 IMPROVEMENTS

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### 3.1 DATABASE ENHANCEMENTS

#### Improved database scalability

- A major database schema enhancement eliminates the creation of unnecessary Windows user objects for tables, significantly reducing the risk of UI freezes when working with very large database schemas.
- Improved stability of the Database Viewer, for example when importing database tables from text files. The Database Window now refreshes correctly after import and immediately displays the imported tables.

#### Enhanced Database management

Database usability has been improved through:

- Added a *Set number of records* button, in addition to append or delete, for changing the number of records in a database table.
- Improved deletion warnings
- Better field management
- Improved visual consistency across database interfaces

#### Improved database performance

Several database-related performance and stability issues have been resolved, particularly when working with large numbers of tables, fields, and records.

### 3.2 DLL IMPROVEMENTS

ExtendSim now handles missing or unresolved external DLL procedures more gracefully. Instead of causing application crashes, invalid DLL calls are reported with clear error messages, and the operation is safely aborted. Additionally, the Diagnostic Log can help identify whether issues originate from customer-developed DLLs or the ExtendSim platform.

### 3.3 ADVANCED ZOOM CONTROLS

- Improved navigation and model visualization
- Set zoom levels directly (e.g., 50%, 150%)
- Select specific zones to zoom into and quickly revert to 100%

### 3.4 IMPROVED NAMED CONNECTION NAVIGATION

- Simplifies navigation in complex models with multiple named connections.
- Quickly locate origins and destinations with a right-click to track named connection locations.

### 3.5 FILE SAVE ENHANCEMENT

To reduce the risk of file corruption, ExtendSim now saves models to a temporary file before replacing the



original model file, providing a safer and more reliable save process.



## SECTION 4 APPLICATION FIXES

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### 4.1 EXTENDSIM DATABASE

Stability issues affecting the following have been resolved:

- Database table creation
- Database schema window no longer creates Windows User Objects for tables, preventing UI freezes near the 10,000-object limit.
- In the Database Schema view, the *Insert Field* command now renders tables correctly, including the last field.
- Data integrity
- Memory consumption
- Dynamic links to empty database cells are now handled correctly. Links to blank cells no longer generate validation errors.
- Performance optimization is done while creating fields in a database.
- Improved warning messages during database, table, field, or record deletions with details on what is about to be deleted.

### 4.2 WORKSHEET AND DRAWING TOOLS

Stability enhancements for:

- Shape selection
- Multi-object movement
- Image handling
- Fixed draw text objects so their bounding boxes correctly resize when font size or font attributes change, including multi-line text, multiple selection, and text placed via code.

### 4.3 OTHER FIXES

- Cloning:
  - Fixed an issue where copying clone objects without their parent block could create invalid text objects. Only valid objects are now cloned.
  - Switching a clone from Bar to Line Chart (or vice versa) now updates the visual representation as expected.
- Fixed an issue that could cause running models to freeze when a Remote Desktop session was disconnected and later reconnected.
- Restored correct behavior so animation related updates performed outside of a running simulation refresh the icon regardless of the global animation flag.
- Treated a paused simulation as equivalent to a running one for restricted MODL APIs, preventing model modifying operations and reducing the risk of crashes or inconsistent state.
- Removed misleading guidance from the connector deletion confirmation dialog that incorrectly suggested connector types could be changed after creation.
- Fixed an issue where the warning about a missing external script file was shown only as a notification



instead of a blocking popup.

- Improved the *Sound not found in ExtendSim Extensions...* error message to include the missing file name.
- ExtendSim now displays an error message *Too many clones in the worksheet. Additional clones will not be added to the worksheet* once the number of clones reaches a certain limit, replacing the previous behavior where the application would crash upon exceeding this threshold.
- Corrected connector flags that might have incorrect values upon compilation.
- Fixed an issue where the platform might crash while modifying the dialog structure of a block.
- If a DLL is missing dependencies and is loaded during application startup, the platform might crash without any error message. A warning will be displayed in such cases.
- Fixed a crash that would happen occasionally when deleting a global array that is linked to any other objects.
- Implemented warnings when the application approaches the *Windows User Object limit* to help prevent crashes or UI malfunctions.
- Increased the maximum number of dynamic arrays that can be declared in each coded block from 254 to 1,000.
- Embedded *protoData.ini* and *Application.ini* as internal resources in the platform executable.
- Fixed synchronization issues between script and breakpoints when debugging MODL scripts in the Debug window.
- Fixed the exponentially slow selection of multiple objects on a worksheet with the command CTRL + A.
- Fixed the behavior that when an editable text is editable, the mouse can be used to select part of the text.
- Improved messaging and progress bar when opening very large models.
- Fixed a crash during model Save that was caused by missing null check on a variable.
- Fixed a crash that would happen when the platform tried to send message handlers to a deleted block.
- When creating a very large dynamic array linked to a trace (about 800 MB or more), the application will no longer crash.
- Fixed a crash that might occur when repetitively creating graphs on different plot slots from the same block and during the same run.
- Improved platform stability when working with large worksheets containing more than 200 open files.



## SECTION 5 BLOCKS & LIBRARIES – NEW AND IMPROVED FEATURES

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### 5.1 DIGITAL SIGNATURES FOR LIBRARIES

ExtendSim 2026.R1 introduces digital signature support for ExtendSim libraries (.lbr). Digital signatures help protect users from executing modified or tampered files by verifying file integrity through a trusted signing mechanism.

As part of this enhancement, this Library Signing feature verifies that official ExtendSim libraries originate from ExtendSim and have not been altered. For newly created libraries, signing occurs automatically and requires no user action. Libraries created in earlier releases can be signed the first time they are opened in ExtendSim 2026.R1.

When ExtendSim detects an unsigned library from a previous release, it displays a notification indicating that the library contains unsigned blocks. You can choose to sign the library immediately or continue working without signing it. Once signed, the library's digital signature can be used to verify the library's authenticity and help ensure the integrity of its contents.

### 5.2 BLOCK IMPROVEMENTS & FIXES

#### 5.2.1 ANALYSIS LIBRARY

##### Analysis Manager

- Improved global state handling
- Simplified Results table structure
- Enhanced block factor history tracking

#### 5.2.2 CHART LIBRARY

##### All Chart library blocks

- **Trace connector validation** -- Added validation checks before retrieving trace connector information.
- **Database selection** -- Fixed an issue where dialog tables linked to a database or table selection were not always refreshed correctly.
- **Database utility integration** -- Corrected include references used by chart-related database utilities.
- **Chart axis settings** -- Fixed an issue where opening a Chart dialog or running a model could reset custom axis scales to automatic scaling. User-defined axis values are now preserved.
- Improved Chart trace handling by removing a dependency on the *CHART\_DATA\_MANAGEMENT* include.

##### Line Chart, DB Line Chart, and Scatter Chart blocks



- Improved default trace connector initialization by correcting connector initialization for blocks with multiple default traces.

### 5.2.3 ITEM LIBRARY

#### Activity, Convey Item, Queue & Workstation

- Enhanced wait-time statistics to provide more accurate results when no valid wait times have been recorded. Updates include:
  - *Average Wait* is displayed as blank until a valid wait time exists.
  - *Maximum Wait* is displayed as blank until the first wait event occurs.
  - Wait-related statistics are properly reset when statistics are cleared.

#### Activity

- Capacity changes made through the Analysis Manager block are now captured more reliably.
- Shift schedules no longer generate item requests while the activity is off shift.
- Wait statistics and delay-time outputs are correctly cleared when statistics are reset.

#### Batch

- Corrected item-priority assignment during batch operations.

#### Executive

- Improved initialization processing within the Executive block.

#### Gate

- Updated request handling to correctly reject downstream requests when no Item In connector is present.

#### Resource Manager

- Resource allocation information is now maintained more accurately during batching and unbatching operations.
- Resource order creation has been updated to prevent unnecessary hierarchy propagation.
- Enhanced handling of batched-item arrays to prevent invalid array access.
- Resource counting functions now include all resource orders within a hierarchy.
- Disabling the Dialog Name filter now automatically disables dependent Dialog Type and Dialog Value filters.
- Updated dialog filtering behavior to ensure dialog type and value filters are applied only when appropriate.
- Improved Empty Dialog Name Handling
- Improved Dialog Tab Filtering
- Enhanced Dialog List Display
- Improved Table Validation

#### Select Item In



- Now updates connection information earlier during model processing.
- Updated connector resizing behavior to ensure variable connectors remain synchronized with their associated dynamic arrays.

#### **Select Item Out**

- Now optimizes connector updates during multi-run simulations.
- Updated connector resizing behavior to ensure variable connectors remain synchronized with their associated dynamic arrays.

#### **Throw Item**

- Resolved an issue that could cause label validation failures when block numbers were displayed with Catch labels.

### **5.2.4 RATE LIBRARY**

#### **All Rate Library blocks**

- The Rate library source code has been unprotected, and the associated include files have been moved back to the standard Rate installation folder.

#### **Convey Flow**

- Resolved an issue that could generate unnecessary empty-portion events when the conveyor was full.
- Fixed an issue where pausing a simulation during rate recalculation could result in incorrect rate values being retrieved.

### **5.2.5 RELIABILITY LIBRARY**

- The Reliability library now supports an open-source distribution model, providing greater transparency and flexibility for users and developers who wish to review, customize, or extend library functionality.
- Licensing restrictions related to Reliability Event Cycles (RECs) have been removed, providing greater flexibility when building and running reliability models that require extensive event processing.

### **5.2.6 UTILITIES LIBRARY**

#### **Search Blocks**

- Added support for table value filters for:
  - A single cell
  - Any row or column
  - All rows or columns
- Added validation to prevent incompatible filter combinations.
- Added a notification when no matching candidates are found.



### 5.2.7 VALUE LIBRARY

#### Read

- Fixed an issue that could occur when copying and pasting blocks could affect shared object handles when working with Excel.
- Corrected data-read behavior to ensure users can perform a single, controlled read operation when desired.

#### Write

- Fixed an issue that could occur when copying and pasting blocks could affect shared object handles when working with Excel.
- Connector labels now correctly reflect field numbering based on the configured starting coordinate.
- Fixed an issue that could prevent or incorrectly trigger data writes at the end of a simulation.

### 5.2.8 HIERARCHICAL BLOCKS

- Improved handling of HBlock creation, connectors, connections, and instance updates.
- Improved synchronization of connector changes between HBlock definitions and existing instances.
- Added validation to prevent incompatible HBlock connections and improved handling of invalid connector configurations.
- Fixed a crash that could occur when copying and pasting HBlocks between models.
- Improved handling of HBlock deletion from libraries to prevent stale instance links and provide more accurate messaging.
- Fixed a regression where *Also Update Blocks in Open Models* no longer update existing HBlock instances, restoring correct propagation of changes to open models.
- Corrected that when updating HBlock instances with a new version of the HBlock, existing connections may be deleted if the updated connector configuration does not match the original.
- The platform now disallows incompatible connections immediately upon creation of an HBlock connector to preserve structural validity.
- In the Icon tab of an HBlock, users will be warned that HBlocks do not support variable connectors when attempting to use such functionality.

### 5.2.9 OTHER BLOCK FIXES

- Restored proper warning behavior when placing uncompiled blocks on the worksheet. This fix includes correct handling of notification settings and legacy confirmation dialogs.
- Sometimes when updating instances of a block or opening models containing those instances, removing a connector from a scripted block would lead to a crash. This has been fixed.



## SECTION 6 FUNCTIONS AND INCLUDES CHANGES

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### 6.1 NEW FUNCTIONS

- `PlaceLineObject()`
- `ConnectionThicknessGet()`
- `UserDiagnosticLog()`
- `UserNotify()`
- `UserWindow()`
- `TextBlockRename()` – Use to change the text of existing Draw objects.
- `IconViewHideByName()`
- Added new database parent access APIs and exposed them to Python, with updated and consistent API naming.

### 6.2 DATABASE API IMPROVEMENTS

- New database parent-access APIs have been added and exposed to Python, providing additional flexibility when interacting with database structures.

### 6.3 CHANGES AND FIXES TO FUNCTIONS

- Fixed a crash that could occur when placing blocks by adding safe handling for missing dialog items in *DILinkClear()*.
- Fixed *SelectBlock2* so the target block is reliably selected by ensuring the correct subwindow is made current before performing the selection.
- Fixed *ConArrayGetConNumber(...)* so it no longer grows variable connectors when the requested position is beyond the current size, instead returning -2 when the connector is not found.
- Updated the *MakeConnection()* API to fully respect the model's current connection style settings, ensuring programmatically created connections match manually drawn ones.
- Improved performance by reducing unnecessary computation in the *AnimationShow* and *AnimationHide* APIs when animation is disabled.
- The *Poke* and *Request* APIs currently support interaction with static variables as well.
- *CloneGetInfo* now retrieves the *ObjectID* associated with a given *CloneID*, along with other potential attributes.
- Enhanced the *MoveBlock* and *MoveBlockTo* to also support moving draw objects and pictures on the worksheet, not just blocks.
- Fixed draw text from jumping position triggered by a call to *FindBlock()*.

### 6.4 INCLUDES IMPROVEMENTS

#### 6.4.1 PLATFORM-WIDE INCLUDES

- Hierarchical block connection handling
- Trace integration support



- Trace performance
- Connector type constants
- *FindInHierarchy* API readability

#### **6.4.2 CHART LIBRARY INCLUDES**

- Partial connector validation
- Expanded database utility functions
- New messaging utilities
- Model type detection
- Connector utilities

#### **6.4.3 ITEM LIBRARY INCLUDES**

- Equation-based connector messaging
- Equation editor Save reliability
- Block-to-block animation stability
- Block-to-block animation integration

#### **6.4.4 UTILITIES LIBRARY INCLUDES**

- Search and database utility reliability
- Partial connection handling
- Expanded database utility functions
- New messaging utilities
- Model type detection
- Connector utilities
- Dynamic dialog table support

#### **6.4.5 VALUE LIBRARY INCLUDES**

- Equation-based connector messaging
- Equation editor Save reliability
- Partial connector validation
- Database utility functions

### **6.5 CONNECTION AND OBJECT HANDLING IMPROVEMENTS**

Numerous APIs have been enhanced to improve consistency and support for:

- Draw object
- Pictures
- Connection styles
- Connector management
- Worksheet object movement



## 6.6 OTHER IMPROVEMENTS TO INCLUDE FILES

**Updated dialog table Include requirements** -- Due to updates in dialog table handling, the required include file must now be referenced before any procedure definitions.

**Enhanced COM/API stability** -- Added safeguards to prevent crashes when *PauseSimForSave()* and *PauseSim()* are invoked through COM or API integrations.

**Licensing values** -- The *GetExtendType()* API has been updated to align with current licensing options and now returns the correct values for Model Developer Editions, Student, Analysis RunTime, Student, and Trial ExtendSim licenses.

## 6.7 GLOBAL VARIABLE CHANGES

New global pointer variables have been added, providing additional flexibility for advanced developers.

- GLOBALPOINTERTYPE0
- GLOBALPOINTERTYPE50



## **SECTION 7 IMPORTANT CHANGES TO BE AWARE OF IN EXTENDSIM 2026**

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### **7.1 FLEXIBLE LICENSING OPTIONS**

With ExtendSim 2026, customers can now choose the licensing model that best fits their needs. New Subscription licenses provide predictable annual pricing with updates, upgrades, and technical support included. Customers who prefer long-term ownership can continue using Perpetual licenses, which remain fully supported through the Maintenance & Support Plan (MSP). Both licensing options provide access to the full power of ExtendSim 2026 while offering greater flexibility in budgeting and software management.



## SECTION 8 KNOWN ISSUES

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### 8.1 MULTI-MONITOR WINDOW POSITIONING ISSUE

When the main ExtendSim window and one or more dock windows are located on different monitors with different display resolutions, menu and popup positioning may be offset from the mouse pointer location, causing interface elements to appear at unexpected locations.

**Workaround:** Move all dock windows to the same monitor as the main ExtendSim window and slightly reposition the main ExtendSim window.

**Status:** Planned to be fixed in the next release.

### 8.2 NOTIFICATION WINDOW POSITION NOT RESTORED CORRECTLY

When the Notification Window is detached from the main ExtendSim window, and ExtendSim is closed in that state, the Notification Window size and position may not be restored correctly when ExtendSim is reopened. The Notification Window may appear in a small size near the upper-right corner of a monitor, making it difficult to locate.

**Workaround:** Resize and reposition the Notification Window after opening ExtendSim. Docking the Notification Window within the main ExtendSim window before closing the application prevents the issue.

### 8.3 SCALING (PDF PRINTER SETTINGS)

With large Scaling values in PDF Printer Settings, text does not scale with the model, and lines and icons look less sharp.

**Workaround:** Keep Scaling near 100%.

**Status:** Work to improve scaling and configurable print resolution are in progress.



## SECTION 9 CONTACT US

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**For more information, contact ANDRITZ:**

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