Update 6

Release notes for FrameworX 10.1 Update 6 (version 10.1.6), a feature release of the 10.1 platform.

Update 6 installs side by side with 10.1.5, in its own installation folder. Moving your solutions to 10.1.6 is strongly recommended: this version brings important advances in connectivity, security, redundancy, displays and the AI tools that make the move worthwhile. Your 10.1.5 installation stays in place and available as a fallback while you migrate.
Both versions run on the same computer, and you open each solution from Solution Center.

FrameworX 10.1 Update 6

Version: 10.1.6 (Build 3042)
Release Date: October 15, 2026
Type: Feature Release

If you installed an RC version of 10.1.6, update to this final version.

At a Glance

- **Charts.** Heatmap, Pareto, waterfall, bullet, sparkline, histogram, SPC control, funnel and radar charts, on the Rich Client and the web client.
- **Displays and web client.** Embedded displays accept parameters, Sankey charts render in the web client, and web client URLs carry the display and its parameter values.
- **Connectivity.** Kafka Producer and Consumer connectors, a Siemens S7-1200 and S7-1500 Symbolic connector, and built-in CODESYS and ControlLogix simulators.
- **Alarms and redundancy.** Alarm notifications reach a webhook, an MQTT broker, and the iPhone and iPad app. The standby server returns unreplicated history to the active server.
- **AI.** AI Chat calls the custom MCP tools of the solution. The AI Designer drives the script debugger and connects display elements.
- **Security.** SAML 2.0 sign-in, and stricter access rules for the MCP-over-HTTP servers and the Runtime API.
- **Designer and scripts.** The display editor stays responsive on large displays. The script editors add Go to Definition and solution-wide namespace declarations.

What's Included

Main items by area. Complete list: Update 6 - Detailed Release Notes.

AI, MCP and automation

- **AI Chat calls the solution's read-only custom MCP tools.** See ChatSession Control Reference.
- **AI Chat adds Clear and Compress conversation actions and follows the display theme.** See ChatClear Action Reference.
- **AI Chat traffic of a solution can go out through one designated runtime server.** See Local AI Configuration Reference.
- **AI Designer drives the script debugger: breakpoints, stepping, call stack and local variables.** See AI Designer Connector.

Displays and Symbols

- **Eight new chart controls cover operations, OEE and quality displays.** See HeatMapChart Control Reference, ParetoChart Control Reference, WaterfallChart Control Reference, BulletChart Control Reference, SparklineChart Control Reference, HistogramChart Control Reference, ControlChart Control Reference and FunnelChart Control Reference.
- **Radar chart compares several measurements, each on its own axis and scale.** See RadarChart Control Reference.
- **Sankey chart renders in the web client as well as the Rich Client.** See SankeyChart Control Reference.
- **Embedded displays accept parameters, and each instance keeps its own values.** See ChildDisplay Control Reference.

HTML5 and web client

- **Web client URLs carry the display name and its parameter values.** See Desktop, Web and Mobile Clients.
- **Web client Trend Chart pen grids open a pen settings editor and color picker.**
- **Web client releases memory when displays with charts, grids, gauges and maps close.**

Mobile client

- **The iPhone and iPad app shows alarm notifications, including when the app is closed.** See Mobile App.
- **Press-and-release buttons work with touch in the web client and the Android app.**

Unified Namespace, ontology and knowledge graph

- **Runtime follows the Reference target set for each UserType instance.** See Knowledge Graph How-to.
- **Per-instance start values can be set on members of nested UserTypes.**
- **RDF export writes every tag instance and the asset tree in all four graph formats.** See Export your UNS to RDF/OWL/GraphDB.
- **Asset tree imports keep every folder under the right parent, in any row order.**

Devices and protocols

- **A Kafka Producer connector streams tag values to Apache Kafka clusters with no middleware.** See Kafka Producer Connector.
- **A Kafka Consumer connector reads Apache Kafka topics into FrameworX tags.** See Kafka Consumer Connector.
- **The CODESYS PLC Handler driver includes a built-in simulator that needs no controller or network.** See Codesys PLC Handler Connector.
- **The Siemens S7-1200 and S7-1500 Symbolic Connector reads and writes PLC variables by symbol, including optimized data blocks.**
- **The ControlLogix Simulator runs a ControlLogix channel with no PLC, launched from Devices > Channels.**

Alarms, Historian and redundancy

- **Alarm notifications can be sent to a webhook or an MQTT broker.** See Alarms Notifications Reference.
- **Redundancy recovers Alarm and Tag Historian records from the standby server into the active server.** See Redundancy Reference.
- **The Alarms module starts faster on solutions with many alarm items.**
- **Both servers of a redundant pair use the same port, and the Designer enforces it.** See Redundancy Reference.

Designer and data

- **A Merge plugin import lists the objects that differ and lets you choose which to replace.** See Solution Import Plugin Reference.
- **Solution Center and the Designer start in the Windows display language when a matching translation exists.** See Multi-Language UI Localization.
- **The display editor stays responsive when dragging, nudging, zooming, and selecting in large displays.**
- **Large displays, the symbol library, and the Component toolbox load without blocking the Designer.**

Scripts

- **The script debugger attaches to solutions running on the Multiplatform (.NET 10) runtime.** See Code Editor Reference.
- **Scripted AI calls support Anthropic Claude models in addition to OpenAI-compatible endpoints.** See AI.Execute API Reference.
- **Global namespace declarations set once in Solution Settings apply to the scripts of the solution.** See Solution Settings Reference.
- **Ctrl+click on a class, method, or namespace member in the script editors opens its definition.**

Security and access

- **Operators sign in to runtime clients through SAML 2.0 identity providers.** See Security Identity Providers Reference.
- **Administrators can reveal and copy a stored secret value from the Security Secrets editor.** See Security Secrets Reference.
- **The Runtime API requires a signed-in session or a bearer token linked to a user.** See Runtime REST API Reference.
- **Stored passwords and secrets stay on the runtime server.**
- **The SolutionCenter API is available for administrators who enable it.**

Runtime and platform

- **FxResourceMonitor records CPU and memory of every FrameworX runtime process on Windows.** See FxResourceMonitor Reference.
- **Runtime diagnostics and System Monitor values work on .NET 10 runtimes on Windows, Linux and macOS.** See Runtime Diagnostics Reference.
- **Opening a solution from an earlier version always saves a backup copy before the upgrade.** See Upgrading Solutions Reference.
- **Designer, Solution Center and runtime clients reconnect after a lost server connection without a restart.**
- **Reconnecting client stations receive the current tag values from the server.**

Compatibility and Lifecycle

- Upgrade steps: Legacy Versions Upgrade, Managing Updates and Multiple Versions Reference and Install and Activate.
- Earlier updates: Release Notes. Support phases and end-of-support dates: Product Lifecycle and End of Support.

Security Note

This release contains security corrections and hardening. For per-item detail (affected versions, severity, required action) and the component manifest (CycloneDX) of your version, contact **support@tatsoft.com**.

- Update 6 - Detailed Release Notes