What's New in 10.1.5

FrameworX 10.1.5 is generally available as of **2026-05-26**. This is the largest single release in the product line: AI is now a first-class platform pillar, the runtime moves to **.NET 10** (LTS), the Unified Namespace becomes industrial-ontology-aware, and a fleet of new connectors, REST APIs, and enterprise IT tooling lands together. **Free upgrade for every FrameworX 10.x customer.**

This page describes FrameworX 10.1.5, released 2026-05-26. For the current release, see What's New.

Highlights

AI is now a platform pillar

Local AI joins OPC Server, MQTT Broker, and DataHub as a configurable platform service. The platform ships a default endpoint preset (recommended model `qwen2.5:7b-instruct`) that you point at your own LLM on a separate machine (an OpenAI-compatible server such as Ollama, or a Claude /Anthropic endpoint), with a live reachability indicator. Operators and engineers get a Tatsoft-grade AI surface that runs on your hardware, on your network, behind your firewall, with no cloud dependency, no data exfiltration, no per-seat AI subscription.

FrameworX AI Chat inside Displays and Scripts

Wire AI conversations directly into any operator screen. The new **CHAT** action verb binds a TextBox and Button to a query Tag and a reply Tag; the portable **TChatSession** Display control renders the conversation thread; the **ChatRequest** Script API dispatches chat requests programmatically. Plant operators conversing with the solution's own AI, over its own UNS data, in a single Display.

Drivable Designer for any MCP client

The Designer is now a fully drivable workspace for AI assistants. **DesignerMCP** lets an AI browse the object model, read and write any object, run import wizards, capture screenshots, and generate visual reports. The new **ConsoleMCP** ships a file-based JSON workspace surface with stdio and HTTP transports, with no live Designer required, ideal for CI and headless authoring. **RuntimeMCP** exposes live tag values, alarms, and history to AI agents. Three MCP surfaces, one platform.

Industrial-ontology-aware Unified Namespace

Tags, UserTypes, and member definitions now carry first-class semantic metadata: display text, labels, ontology source links. A new Designer importer reads RDF/OWL files straight into UserTypes and Tags. Export the UNS as **RDF/JSON, JSON-LD, Turtle, or N-Triples** for GraphDB, Stardog, Fuseki, or any ontology store. Your SCADA / HMI / Historian object model speaks the same vocabulary as the rest of the enterprise: RDF, OWL 2, SKOS, ISA-88, ISA-95, and the Industrial Ontology Foundry (IOF).

MongoDB, QuestDB, and Sorba.AI connectors

MongoDB ships as a unified four-role connector (Device protocol, UNS TagProvider, Historian StorageLocation, Dataset provider) in a single driver. **Quest DB** ships as a unified three-role time-series connector with high-throughput ILP/HTTP ingest. **Sorba.AI** arrives as a bidirectional ML connector with 11 machine-learning algorithm UserTypes pre-loaded: pipe live UNS values to Sorba models, stream predictions back through the same TagProvider, no custom glue code. One configuration, one set of credentials, one mental model per database.

REST APIs for runtime data and solution management

Two new REST API surfaces. The **Runtime API v1.0** on TServer exposes live tag values, alarm state, historian queries, and aggregated history with Bearer-GUID authentication and an OpenAPI 3.1 spec. The **SolutionCenter API v1.0** on TWebServices covers Solutions, Files, License, Machine, and Server operations with JWT / OIDC authentication *(activation deferred: the SolutionCenter API cannot be enabled on 10.1.5 builds and becomes available in a future FrameworX release)*. Data plane and management plane, cleanly separated, both first-class HTTP citizens for partner and enterprise IT integrations.

Enterprise SSO and Kubernetes-ready runtime

Industry-standard Single Sign-On via **OIDC / OAuth2** integrates with **Keycloak**, **Auth0**, **Microsoft Entra ID**, and **login.gov**. Both **TServer** and **TWebServices** expose Kubernetes-compatible `/health` and `/ready` probes. The new **Tatsoft.FrameworX PowerShell module v1.0.0**, silent-install installer, `TManageServices` CLI, and `UpgradeSolution.exe` support scripted enterprise deployment via SCCM, Intune, Ansible, or PowerShell DSC, documented end-to-end in the new **IT Deployment Runbook**.

Runtime on .NET 10, AI Tutor, and multi-language IDE

The runtime ships on **.NET 10** (Microsoft's current LTS) at **no charge** for every FrameworX 10.x customer. The new **AI Tutor** delivers structured, interactive learning inside the Designer across three tiers (Essentials, Intermediate, Advanced), with persistent per-user progress and completion certificates (Associate, Professional, Expert). Solution Center and Designer are now fully localizable, with bundled translation files and a Claude-powered `.mui` translation toolchain that keeps product nouns in English across every locale.

For Control Engineers

- Unified **TRadialGauge** replaces three legacy circular gauges with four presets and tag-driven range boundaries; **TKnowledgeGraph** renders ontology and asset relationships as Mermaid or Cytoscape graphs.
- **Trend Annotations** let operators place inline timestamped, commented markers on Trend Chart pens, visible to anyone reviewing the same time range.
- **GIS and CAD tag importers** turn GeoJSON, Shapefile, KML, DXF, and DWG files into native UNS tags and Displays in one wizard pass.
- **Display Connector tool restored** with clipboard, undo, delete; faster Display open; MQTT Sparkplug B publish-by-name decoupled from Store-and-Forward.
- New embedded **Visual Query Editor** in the Datasets page: drag tables, joins, columns, and filters with full Designer theming.

For System Integrators

- **Within-major 100% compatibility**: every 10.1.x solution opens and runs on 10.1.5 without migration. `UpgradeSolution.exe` upgrades legacy 10.1.4 solutions with named-backup preservation and failure-safety.
- **ConsoleMCP workspaces** turn a folder of JSON files into a runnable `.dbsln`, ready for Git, code review, and CI pipelines.
- **WebData module** unifies REST, GraphQL, and MCP-client access from inside the runtime, so you can call other MCP servers from Scripts, Tasks, or Displays.
- **JSON Import Mirror Sync** propagates source-file deletions to the target solution, making JSON exports a viable Git source of truth.

For IT and DevOps

- **Kubernetes-grade health endpoints** (`/health`, `/ready`) on TServer and TWebServices for liveness and readiness probes.
- **Tatsoft.FrameworX PowerShell module v1.0.0** wraps the installer, `TManageServices` CLI, and SolutionCenter API for scripted enterprise deployment *(the SolutionCenter API cmdlets become usable in a future FrameworX release)*.
- **OIDC / OAuth2 SSO** with Keycloak, Auth0, Microsoft Entra ID, and login.gov.
- **SQL injection hardening** in InfoService ADOAPIService and a new `PARAMS` prefix for safe parameterized Dataset queries against untrusted inputs.
- **IT Deployment Runbook** covers install, configure, monitor, update end-to-end for Windows .NET 10 deployments.

For AI and Data Teams

- **Local AI service**: bring your own LLM (an OpenAI-compatible server such as Ollama, or a Claude/Anthropic endpoint), run on your own hardware, no per-seat cloud cost.
- **DesignerMCP, ConsoleMCP, RuntimeMCP**: three MCP surfaces that let an AI client browse, author, and read live data across the full FrameworX object model.
- **Ontology-aware UNS** with RDF/OWL import and RDF/JSON, JSON-LD, Turtle, N-Triples export.
- **Runtime REST API v1.0** for live tag values, alarms, and history; partner integrations and notebook analytics no longer need to talk a SCADA protocol to reach the data.
- **Sorba.AI bidirectional ML connector** with 11 ML algorithm UserTypes pre-loaded.

Try it now

FrameworX 10.1.5 is a **free upgrade for every FrameworX 10.x customer**. Every 10.1.x solution opens and runs on 10.1.5 without migration or rework.

- Download FrameworX from tatsoft.com.
- Open the Designer, start the **AI Tutor** from the first-run nudge, and earn your Associate certificate.
- Talk to us about partner integration, enterprise deployment, or your industrial-ontology use case.