FrameworX REST APIs

The HTTP REST surfaces FrameworX exposes — how to choose one, authenticate, and find the OpenAPI specification.

FrameworX exposes its functionality over HTTP through **two independent REST APIs**, split by purpose. They share no port, no authentication state, and no implementation — a client can integrate against one without the other. A third, older surface (the WebAccess API) remains supported for existing integrations but is deprecated in favor of the Runtime REST API.

The REST surfaces

API	Plane	Port	Server	Authentication	Reference
Runtime REST API v1	Data — live tag values, historian, alarms, Object Model, tag writes	3101 / 3201 / 3301 / 3401 (per execution profile)	TServer (one process per running solution)	Bearer token (session GUID or pre-issued Bearer Token)	Runtime REST API Reference
SolutionCenter API v1 *Not callable on 10.1.5 — cannot be enabled on 10.1.5 builds; planned for a future FrameworX release*	Management — list/run/stop solutions, file operations, license activation, machine settings, server info	10108	TWebServices (machine-wide)	JWT / OIDC Bearer	SolutionCenter API Reference
WebAccess API *(legacy)*	Data — tag read/write over `/rtServices/api/`	3101+	Bearer token	Bearer token	WebAccess API Reference — **deprecated**

> The two APIs answer different questions. **"What is my solution's live data doing right now?"** is the Runtime REST API (on the solution's TServer port). **"What solutions are installed on this machine, and what is their lifecycle / license state?"** is the SolutionCenter API (on TWebServices port 10108).

Which one do I use?

Goal	Use
Read a live tag value, historian trend, or aggregated history	Runtime REST API — `GET /api/v1/uns/{path}`, `/history`, `/aggregated`
Read active alarms or alarm history	Runtime REST API — `GET /api/v1/alarms/active`, `/alarms/history`
Write a setpoint or tag value	Runtime REST API — `PUT /api/v1/uns/group` (governed by tag security)
Browse the Object Model (Server, Device, Script, … roots)	Runtime REST API — `GET /api/v1/runtime-object/browse`
Start / stop a solution, activate a license, manage files on a machine	SolutionCenter API — `/api/v1/solutions/…`, `/license`, `/files` *(not callable on 10.1.5; available in a future FrameworX release)*
Maintain an existing integration built on `/rtServices/api/…`	WebAccess API (legacy) — plan migration to the Runtime REST API

Machine-readable specification (OpenAPI / Swagger / Postman)

Both APIs ship an **OpenAPI 3.1** contract. You do not have to read hand-written endpoint tables to integrate — load the spec into Swagger UI, Postman, or an OpenAPI client generator and work from the always-current contract.

API	OpenAPI document
SolutionCenter API	Served live at `GET /api/v1/openapi` on port 10108 (anonymous; bypasses the activation gate). Also retrievable with `Get-FrameworXOpenApi` in the PowerShell module.
Runtime REST API	From FrameworX 10.1.6, the runtime serves an OpenAPI 3.0.3 document at `GET /api/v1/openapi.json` (anonymous). See the Runtime REST API Reference.

Shared conventions

- **Time** — ISO 8601 strict UTC. The `Z` suffix is mandatory on input and output; output carries millisecond precision.

- **Errors** — RFC 7807 Problem Details (`type`, `title`, `status`, `detail`, `instance`).
- **Pagination** — truncation envelope (`truncated`, `totalMatched` / `totalReturned`); re-query with a narrower filter to drill in.

In this section...

- Runtime REST API Reference
