WebAccess API Reference

Legacy REST API for reading and writing tag values over HTTP. **Deprecated** — new integrations should use the Runtime REST API.

> **Deprecated — use the Runtime REST API**
>
> The WebAccess API (the `/rtServices/api/` surface documented on this page) is **deprecated** as of FrameworX 10.1.5. It remains supported for existing integrations and continues to ship, but it will not gain new capabilities.
>
> **New integrations should use the Runtime REST API** — the versioned `/api/v1/…` data-plane API on the same TServer port. It adds aggregated history, alarms, Object Model browse, UserTypes, RFC 7807 errors, and a published OpenAPI 3.1 contract. The Runtime REST API Reference includes a migration table mapping each legacy verb below to its `/api/v1/` equivalent.

We provide an API via Web-Service that can read and write tag values. To access the tags, a login is required for solution users. You can directly access this API through HTTP (REST API) connecting with a runtime system.

This page presents information about how to use the WebAccess REST API.

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Where This API Fits in the Runtime API Landscape

This page documents the **legacy `/rtServices/api/` surface** exposed by the runtime web server on port `3101`. It remains supported for existing integrations and continues to ship with FrameworX 10.1.5, but it is deprecated for new work.

Starting with 10.1.5, FrameworX also exposes a **versioned Runtime REST API v1.0** on the same TServer port (`3101`+) covering tag read/write, alarm history, aggregated history, and other runtime surfaces under versioned endpoints with Bearer authentication. The v1.0 surface is documented in the Runtime REST API Reference. For machine-wide management (solution lifecycle, licensing, files) see the SolutionCenter API Reference on port 10108 — note it cannot be enabled on 10.1.5 builds and becomes available in a future FrameworX release.

Companion health endpoints are published on the same port:

- `/health` — liveness and runtime status.
- `/ready` — readiness for traffic (modules loaded, datasets connected).

When choosing between surfaces: use the legacy verbs below only to maintain existing clients; use the Runtime REST API for all new integrations.

Contract Methods Using REST API

SetServer

Defines the Server for following requests.

Method: GET

URL Example: http://localhost:3101/rtServices/api/SetServer

Request

```
Request/Headers
      . Content-Type: application/json
    . Request/Body
      . { "ModuleName": "Test", "UserName": "guest", "Password": "" }
```

Response

```
Response/Headers
      . Access-Control-Allow-Origin: *
      . Access-Control-Allow-Headers: Content-Type, Content-Length, Authorization
      . Access-Control-Expose-Headers: Content-Type, Content-Length, Authorization
      . Access-Control-Allow-Methods: *
      . Content-Length: 0
      . Content-Type: application/octet-stream
      . Access-Control-Max-Age: 1728000
      . Authorization: Bearer c30730a4-e2ee-4595-9131-d64769c5afbe
      . Date: Tue, 28 Nov 2023 13:47:35 GMT
      . Server: TServer WebServer
    . Response/Body
       . Nothing
```

ReadObject

Reads value from specified object.

Method: GET

URL Example: http://localhost:3101/rtServices/api/SyncObjects/ReadObject

Request

```
Request/Headers
     . Content-Type: application/json
     . Authorization: Bearer c30730a4-e2ee-4595-9131-d64769c5afbe
     . content-length: 25
   . Ex: .../api/SyncObjects/ReadObject?ObjectName=Tag1
```

Response

```
Response/Headers
     . Content-Length: 89
     . Content-Type: application/json
     . Content-Encoding: utf8
     . Date: Tue, 28 Nov 2023 13:56:03 GMT
     . Server: TServer WebServer
   . Response/Body
     . { "ObjectName":"Tag1","Value":11,"Quality":192,"UtcTimeStamp":"11/28/2023 1:49:28.000 PM" }
```

ReadObjects

Reads value from multiple specified objects.

Method: GET

URL Example: http://localhost:3101/rtServices/api/SyncObjects/ReadObjects

Request

```
Request/Headers
     . Content-Type: application/json
     . Authorization: Bearer c30730a4-e2ee-4595-9131-d64769c5afbe
     . content-length: 25
   . Request/Body
     . { "ObjectNames": [ "Tag1", "Server.Now" ] }
```

Response

```
Response/Headers
     . Content-Length: 89
     . Content-Type: application/json
     . Content-Encoding: utf8
     . Date: Tue, 28 Nov 2023 13:56:03 GMT
     . Server: TServer WebServer
   . Response/Body
     . [ {"ObjectName":"Tag1","Value":11,"Quality":192,"UtcTimeStamp":"11/28/2023 10:47:50.581 AM"},
{"ObjectName":"Server.Now","Value":"11/28/2023 1:48:26.003 PM"} ]
```

WriteObject

Write value to a specified object. You can only write values to objects that have their Visibility property set to Public.

Method: POST

URL Example:http://localhost:3101/rtServices/api/SyncObjects/WriteObject

Request

```
Request/Headers
     . Content-Type: application/json
     . Authorization: Bearer c30730a4-e2ee-4595-9131-d64769c5afbe
     . content-length: 25
   . Request/Body
     . { "ObjectName" : "Tag1", "Value" : 11, "Quality": 192, "UtcTimestamp": "2023-11-28T10:18:22.260Z" }
```

Response

```
Response/Headers
     . Content-Length: 89
     . Content-Type: application/json
     . Content-Encoding: utf8
     . Date: Tue, 28 Nov 2023 13:56:03 GMT
     . Server: TServer WebServer
   . Response/Body
     . true
```

WriteObjects

Write value to specified objects. You can only write values to objects that have their Visibility property set to Public.

Method: POST

URL Example:http://localhost:3101/rtServices/api/SyncObjects/WriteObjects

Request

```
Request/Headers
     . Content-Type: application/json
     . Authorization: Bearer c30730a4-e2ee-4595-9131-d64769c5afbe
     . content-length: 25
   . Request/Body
     . { "ObjectList": [ {"ObjectName": "Tag1", "Value": 11 }, { "ObjectName": "Tag2", "Value": 2,
"Quality": 192, "UtcTimeStamp": "2023-11-28T10:18:22.260Z" } ] }
```

Response

```
Response/Headers
. Content-Length: 89
. Content-Type: application/json
. Content-Encoding: utf8
. Date: Tue, 28 Nov 2023 13:56:03 GMT
. Server: TServer WebServer
. Response/Body
. [true,true]
```

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