

### Setup

Install library	<code>pip install robotframework-okw-api-rest</code>
Import in <i>Settings</i>	<code>Library okw_api_rest.library.OkwApiRestLibrary WITH NAME RESTAPI</code>
Minimum Python version	Python >= 3.10
Minimum RF version	robotframework >= 6.0

YAML locator file required: locators/ServiceName.yaml with `__self__.base_url` and `__self__.content_type`. See README for full YAML examples.

### Start / Stop

RESTStart service	Start REST service (load YAML)
RESTStart service env	Start with environment file
RESTStop	Stop REST service

YAML config separates URLs and credentials from test code. Environment files are searched in: `~/okw/env/` → `$OKW_ENV_DIR` → `locators/` → OS env vars.

### Scope

RESTSelectEndpoint /path	Select endpoint (resets body/headers)
RESTSetContext path	Navigate into nested JSON
RESTSetContext customer.address	Deeper nesting via dot notation
RESTSetContext items[0]	Select array element
RESTSelectEndpoint resets body, headers, and context. Each RESTSetContext replaces the previous one (flat, no stack).	

### Input

RESTSetValue field value	Set body field
RESTSetValue ?param value	Set query parameter (? prefix)
RESTSetHeader name value	Set request header

? prefix sends field as URL query parameter instead of body field. Query parameters are not affected by RESTSetContext. Password fields are masked (\*) in logs.

### Action

RESTSendRequest GET	Send GET request
RESTSendRequest POST	Send POST request
RESTSendRequest PUT	Send PUT request
RESTSendRequest PATCH	Send PATCH request
RESTSendRequest DELETE	Send DELETE request

Request and response bodies are logged as formatted JSON. After sending, all RESTVerify and RESTMemorize keywords operate on this response.

### Verify

RESTVerifyStatus 200	Verify HTTP status code
RESTVerifyValue field expected	Verify field value (exact match)
RESTVerifyValueWCM field <i>text</i>	Wildcard match (* ?)
RESTVerifyValueREGX field <code>^[a-f]+\$</code>	Regex match
RESTVerifyHeader name expected	Verify response header
RESTVerifyResponseTime 500	Response time < 500ms

Dot notation for nested fields: `data.user.name`. With active context, fields resolve relative to context path. ResponseTime checks elapsed time, not timeout.

### Memorize

RESTMemorizeValue field NAME	Store response field value
RESTMemorizeBody NAME	Store entire response body



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### Memorize (cont)

`$MEM{NAME}` Use stored value in next request

Use `$MEM{NAME}` in any keyword: `RESTSetValue`, `RESTSetHeader`, `RESTSelectEndpoint`. Missing keys cause an immediate error. Values persist across endpoints until `RESTStop`.

### Tokens

`$IGNORE` Skip keyword (no-op)

`$EMPTY` Empty string

`$MEM{KEY}` Stored value from `RESTMemorizeValue`

`RESTSetValue email $IGNORE` → field not sent. `RESTSetValue email $EMPTY` → field sent as "". `RESTSetHeader x-auth-token $MEM{TOKEN}` → inserts stored token value.

### Phase Model

Start `RESTStart`

Scope `RESTSelectEndpoint`

Input `RESTSetValue` / `RESTSetContext` / `RESTSetHeader`

Action `RESTSendRequest`

Verify `RESTVerifyValue` / `RESTVerifyStatus`

Memorize `RESTMemorizeValue`

Stop `RESTStop`

Every REST test follows this sequence. Same pattern as OKW GUI keywords: `StartApp` → `SelectWindow` → `SetValue` → `ClickOn` → `VerifyValue` → `StopApp`.

### vs. Playwright (Code-Based)

`data: { title: 'Test' }` `RESTSetValue title Test`

`expect(response.status()).toBe(201)` `RESTVerifyStatus 201`

`const body = await response.json()` Not needed — automatic

`expect(body.title).toBe('Test')` `RESTVerifyValue title Test`

`if (email) payload.email = email` `RESTSetValue email $IGNORE`

`{ nested: { key: 'val' } }` `RESTSetContext nested + RESTSetValue key val`

No JSON syntax, no `async/await`, no variable assignments. Field name + value — readable by testers, BAs, and AI. Same keyword model for GUI and API testing.



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