

EXPOSE · DESCRIBE · OBSERVE

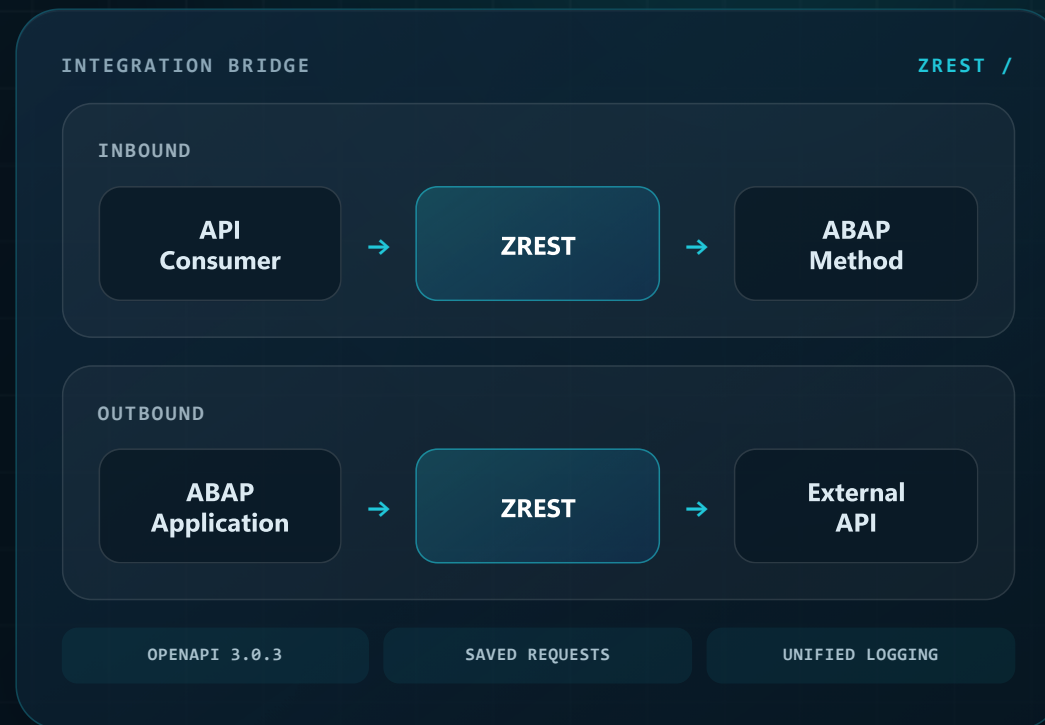
REST APIs for classic ABAP.

Configuration-driven inbound and outbound integration with generated OpenAPI, interactive documentation and unified logging.

• OpenAPI 3.0.3

• ABAP 7.40 SP08+

• Inbound + Outbound



Your APIs should differ in business logic — not plumbing.

REBUILT PER SERVICE

01 **Route and bind**
Custom URL matching, conversions and body parsing.

02 **Describe**
Documentation drifts away from implementation.

03 **Operate**
Errors, logging and targets behave differently.



CENTRALIZED BY ZREST

01 **One request pipeline**
Configuration selects the ABAP operation.

02 **Contract from code**
Signatures and DDIC types become OpenAPI.

03 **Shared operating model**
Consistent responses, logs and connection setup.



One framework for both directions

INBOUND REST

**Publish ABAP methods
as documented APIs**

Route · Bind · Execute · Respond



HTTP



ICF



ABAP

OUTBOUND REST

**Call external APIs
through one contract**

Configure · Connect · Call · Observe



ABAP



URL / SM59



API

CUSTOMIZING

TYPE MAPPING

ERROR HANDLING

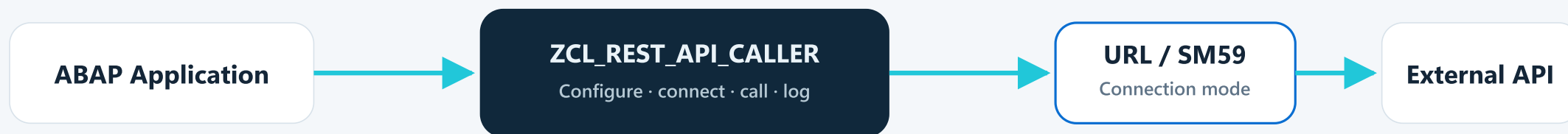
LOGGING

A small core coordinates the full API lifecycle

INBOUND LANE

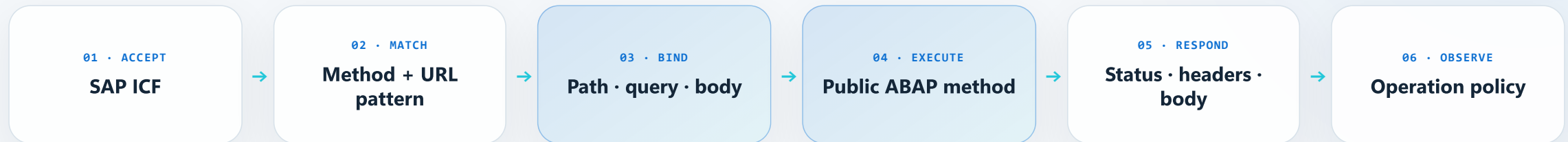


OUTBOUND LANE



From an HTTP request to a typed ABAP call

● LIVE VERIFIED · 02 SEP 2026



Route from configuration

HTTP method and the configured URL regex select one operation and handler method.

Bind by HTTP semantics

Path values work for every method. GET reads query values; non-GET input comes from the body where defined.

Return typed results

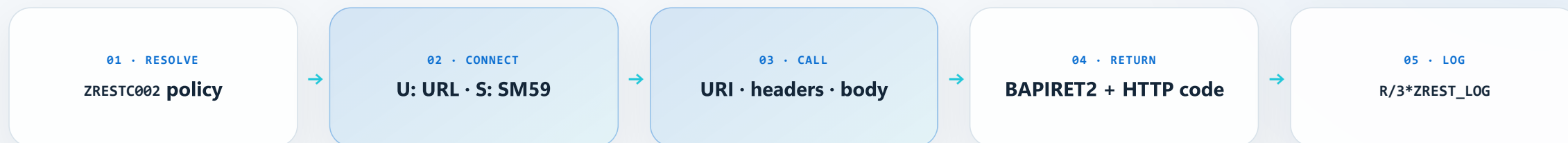
The responder emits JSON, text or binary content with the operation's status and response type.

Separate saved route

[/swagger.saved](#) branches before the router, binder and normal operation logging.

One call contract. Two connection modes.

● IMPLEMENTED · S-MODE ACCEPTANCE PENDING



Configuration first

Target, method, authentication, proxy, fixed headers, timeout and logging policy are resolved centrally.

Raw or typed result

The caller receives **BAPIRET2**, the HTTP status and a raw or deserialized response.

Transaction-aware log

Default outbound logging uses **COMMIT CONNECTION**, so a caller rollback does not remove the log.

Recorded boundary

The live demo uses U mode. A target-system U/S runtime comparison has not yet been recorded.

One inbound service maps eleven real operations

ZRESTC001 · DISPLAY MODE

Service → handler

DMOI is active and bound to
ZCL_REST_DEMO_INBOUND.

Operation → method

Each row maps an operation ID, HTTP
method and URL regex to one public ABAP
component.

Policy per operation

Authorization and logging behavior remain
explicit, visible and configurable.

Display View "RESTful inbound operation configuration": Overview

Service ID: DMOI ZREST Demo - inbound (business partner)

Op. ID	Operation description	Component	Active?	HTTP method	URL regex
☐ 10	List business partners	Lists customers and vendors using filters	☒	Get	/partners\$
☐ 20	Customer details	Reads details of a single customer	☒	Get	/customers/([^\s]+)\$
☐ 30	Vendor details	Reads details of a single vendor	☒	Get	/vendors/([^\s]+)\$
☐ 40	Customer sales areas	Returns customer sales areas in a sale...	☒	Get	/customers/([^\s]+)/salesareas/([^\s]+)
☐ 50	Business partner type info	Returns business partner type and rec...	☒	Get	/partnertypes/([A-Z])\$
☐ 60	Create business partners as an array (DEMO)	Accepts multiple business partners as ...	☒	Post	/partners\$
☐ 70	Fully replace customer (DEMO)	Replaces customer with the complete ...	☒	Put	/customers/([^\s]+)\$
☐ 80	Partially update customer (DEMO)	Updates only supplied customer fields ...	☒	Patch	/customers/([^\s]+)\$
☐ 90	Delete customer - authorization checked (DEMO)	Deletes customer with authorization ch...	☒	Delete	/customers/([^\s]+)\$
☐ 100	Download business partners as CSV	Downloads the business partner list as...	☒	Get	/partners/export\$
☐ 110	Download business partners as binary	Downloads the business partner list as...	☒	Get	/partners/export/raw\$
☐					
☐					
☐					

Targets are configured—not hard-coded

LIVE CONFIGURATION · U MODE SHOWN

Connection behavior remains visible

- **Target** — direct URL or SM59 destination, HTTP method and active state.
- **Connection** — authentication, proxy, timeout and fixed headers.
- **Policy** — automatic and custom logging, HTTP header capture and retention are controlled per operation.

Petstore demo operations are installed inactive; active rows use controlled targets. The live demo uses U mode; no credential or secret header is shown.

Display View "RESTful outbound operation configuration": Overview

Service ID: ZREST Demo - outbound

System ID	Op. ID	Operation description	Active?	HTTP method	Content type	Conn.mode	RFC Destination
☐ OND	10	Send business partners	☒	Post	application/json	URL (direct addr...	
☐ OND	20	Retrieve customer details	☒	Get	application/json	URL (direct addr...	
☐ OND	30	Petstore status query	☐	Get	application/json	URL (direct addr...	
☐ OND	40	Create Petstore record	☐	Post	application/json	URL (direct addr...	
☐ OND	50	Petstore not-found record	☐	Get	application/json	URL (direct addr...	
☐ OND	60	Retrieve business partners	☒	Get	application/json	URL (direct addr...	
☐ OND	70	Fully replace customer	☒	Put	application/json	URL (direct addr...	
☐ OND	80	Partially update customer	☒	Patch	application/json	URL (direct addr...	
☐ OND	90	Delete customer	☒	Delete	application/json	URL (direct addr...	
☐ OND	100	Retrieve CSV response	☒	Get	application/json	URL (direct addr...	
☐ OND	110	Send raw JSON	☒	Post	application/json	URL (direct addr...	
☐ OND	120	Field-mapped Petstore record	☐	Post	application/json	URL (direct addr...	

Configuration and code become the OpenAPI contract

01 · PUBLIC ABAP SIGNATURE

API_GET_PARTNER_LIST

02 · GENERATED OPERATION

GET /partners

Parameter	Type	Pa...	O...	Typing Method	Associated Type	Default Value	Description
COUNTRY	Importing	☒	☒	Type	LAND1		Filter by country key, e.g. TR (optional)
NAME	Importing	☒	☒	Type	STRING		Filter by name; wildcard * allowed (opti...
CREATED_FROM	Importing	☒	☒	Type	ERDAT		Created after this date, 2020-01-01 (opt...
MAX_ROWS	Importing	☒	☒	Type	I	20	Maximum rows (1-100, default 20)
RS_RESPONSE	Returning	☒	☒	Type	TY_S_PARTNER_LIST_RESPONSE		Envelope + data: paging and business p...

✓ Typed filters, bounded row count and a typed partner-list response.

Parameters

Name	Description
country string (query)	Filter by country key, e.g. TR (optional) country
name string (query)	Filter by name; wildcard * allowed (optional) name
createdFrom string(\$date) (query)	Created after this date, 2020-01-01 (optional) createdFrom
maxRows integer(\$int32) (query)	Maximum rows (1-100, default 20) 20

Responses

Code	Description
200	successful operation Media type: application/json Controls Accept header. Example Value Schema

✓ The same parameter names, default maxRows = 20 and response 200.

DDIC metadata becomes an API contract

01 · DDIC SOURCE

Fixed values + descriptions

02 · GENERATED PARAMETER

GET /partnertypes/{partnerType}

SAP Dictionary: Display Domain

Domain: ZREST_DEMO_DO_PARTNER_TYPE Active

Short Description: Demo: business partner type

Properties Definition Value Range

Single Vals

I	Fix.Val.	Short Descript.
☐	C	Customer (KNA1)
☐	V	Vendor (LFA1)

Intervals

Lower Limit	UpperLimit	Short Descript.
☐		
☐		
☐		
☐		
☐		
☐		
☐		
☐		

✓ Domain semantics remain in the SAP type system.

CREATED_FROM → createdFrom

MAX_ROWS DEFAULT 20 → maxRows · default 20

GET /partnertypes/{partnerType} Business partner type info

Parameters

Name	Description
partnerType * required string (path)	Business partner type: C = customer, V = vendor

EXECUTE Save

Responses

Code	Description
200	successful operation

Media type: application/json

Controls Accept header.

Example Value | Schema

```
{
  "result": "",
  "message": "string",
  "details": {
    "type": "s",
    "id": "string",
    "number": "string",
    "message": "string",
    "logNo": "string",
    "logMsgNo": "string",
    "logMsg": "string"
  }
}
```

✓ Descriptions, allowed values and reusable schemas reach OpenAPI.

domain fixed values → enum

ABAP structures → component schemas

A focused demo proves the flow end to end

7

API paths

Customer, vendor, partner and export routes.

11

Operations

GET, POST, PUT, PATCH and DELETE.

4

Tags

A navigable generated API surface.

15

Schemas

Request and response models from ABAP types.



Demo-system data only · no production business data

Explore every operation in one place

- 01

Generated contract

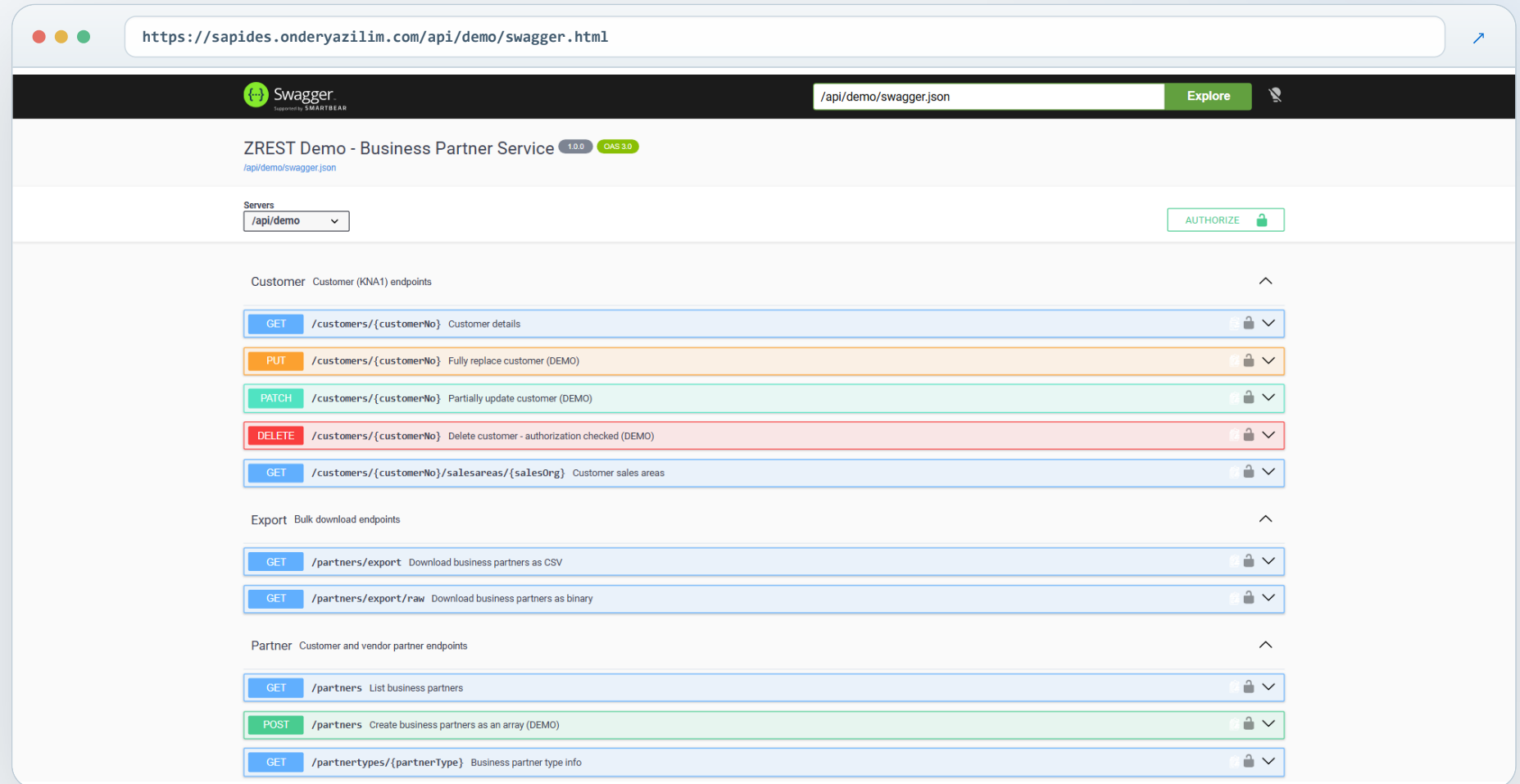
Configuration, public ABAP signatures and DDIC types define the surface.
- 02

OpenAPI 3.0.3

Standard paths, parameters, schemas and operationId.
- 03

Interactive

Documentation and execution share the same contract.



Try the API where it runs

1 Select operation

GET /partners

2 Enter parameters

maxRows = 2

3 Execute

Inspect the HTTP status and returned response.

✓ Demo data only

DIRECT API PATH

Browser ⇄ SAP ICF

Try It Out sends the request directly from the browser to the published SAP endpoint; ZREST adds no Postman installation or third-party API-testing relay to the request and response path.

https://sapides.onderyazilim.com/api/demo/swagger.html

GET /partners List business partners

Parameters

Name	Description
country string (query)	Filter by country key, e.g. TR (optional)
name string (query)	Filter by name; wildcard * allowed (optional)
createdFrom string(\$date) (query)	Created after this date, 2020-01-01 (optional)
maxRows integer(\$int32) (query)	Maximum rows (1-100, default 20)

EXECUTE Save Saved CLEAR

Responses

Curl

```
curl -X 'GET' \
  'https://sapides.onderyazilim.com/api/demo/partners?maxRows=2' \
  -H 'accept: application/json'
```

Request URL

```
https://sapides.onderyazilim.com/api/demo/partners?maxRows=2
```

Server response

Code	Details
200	

Save, reuse and manage request variants

01 Save

Store method, path, parameters and optional body or response as a named variant.

02 Reopen

Load visible variants inside Swagger UI—no external collection to maintain.

03 Manage

Search, load, view, rename and delete from the same browser experience.

04 Control

SAP-backed variants apply owner-only updates and deletion, with a payload-free lifecycle audit.

Variants may be kept in the browser or stored in SAP. A saved variant may include request or response content; its separate lifecycle audit does not copy that payload.

SAVE CURRENT REQUEST

https://sapides.onderyazilim.com/api/demo/swagger.html

Save request

GET /partners

Name

Partners · maxRows 2

1 parameter will be saved.

☐ Also store the last response (200)

Save to

☒ **SAP**
Stored on the SAP system, available from any machine

☐ **This device**
Stored only in this browser

Credentials (Authorize / token / cookies) are not saved. Re-authorize after loading if needed.

Cancel Save

MANAGE SAVED VARIANTS

https://sapides.onderyazilim.com/api/demo/swagger.html

Saved requests

Search saved requests (name or path)

1 SAP (2) Stored on the SAP system, available from any machine

2 This device (1) Stored only in this browser

GET Partners · maxRows 2
/partners · 03.09.2026 02:54 · response 200

Load View Rename Delete

1 saved · about 1 KB used

Export Import Delete all

Inspect API calls—and decide what to record

sapides.onderyazilim.com · ZRESTLOG · client 800

SAP

Service description	Operation description	Created By	Start Date	Start time	HTTP method	Service URL
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:54:21	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:46:49	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:46:26	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:46:01	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:45:34	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:44:20	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:36:38	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:35:02	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	02:00:00	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:59:19	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:58:46	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:58:12	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:57:27	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	Customer details	MONDER	03.09.2026	01:54:59	GET	/api/demo/custom
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:52:57	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:51:17	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:50:38	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:39:42	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:39:42	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:39:42	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:39:42	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	Customer details	MONDER	03.09.2026	01:39:42	GET	/api/demo/custom
☐ ZREST Demo - inbound (business partner)	Create business partners as an array (DEMO)	MONDER	03.09.2026	01:39:42	POST	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:39:42	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	List business partners	MONDER	03.09.2026	01:39:42	GET	/api/demo/partner
☐ ZREST Demo - inbound (business partner)	Customer details	MONDER	03.09.2026	01:39:42	GET	/api/demo/custom
☐ ZREST Demo - inbound (business partner)	Fully replace customer (DEMO)	MONDER	03.09.2026	01:39:42	PUT	/api/demo/custom
☐ ZREST Demo - inbound (business partner)	Fully replace customer (DEMO)	MONDER	03.09.2026	01:39:42	PUT	/api/demo/custom

ZRESTLOG · LIVE WEBGUI

Find the call
Filter by business key, service, operation, date, user, direction, HTTP result, URL or log GUID.

Open request and response
Use the result-row links to view captured request and response bodies, form data and HTTP headers.

Control it per operation
[LOG_ALL](#) enables automatic logs; business-key paths can trigger inbound logs, and [LOG_CUSTOM](#) governs explicit custom entries. [LOG_HTTP_HEADER](#) separately controls header storage.

Bodies are stored when an operational log is written; HTTP header capture is controlled separately. Content may be unmasked, so SAP roles and retention must restrict access.

Retention is explicit and controlled per operation

● IMPLEMENTED · LANDSCAPE ACCEPTANCE PENDING

- RETENTION_DAYS defines operation-level retention.
- 0 means undefined; it never means “delete everything.”
- Cleanup processes at most 50,000 rows per package and records header and data deletion counts.
- In standard mode, a payload row is removed only after its final linked header row is gone.
- Schedule periodic cleanup with SM36 and monitor the job.

The selection screen shown here is real, but no deletion was run. Production scheduling and authorizations remain landscape-specific.

The screenshot shows the SAP 'Delete RESTful service logs' selection screen. The browser address bar displays 'sapides.onderyazilim.com · ZREST_API_DELETE_LOG · client 800'. The SAP logo is in the top right corner. The screen title is 'Delete RESTful service logs'. Below the title are 'Execute' and 'More' buttons. The screen is divided into several sections: 'Run Mode (Performance Option)' with radio buttons for 'Standard Cleanup (See Config)' (selected), 'Deep Cleanup (Orphan Records)', and a checkbox for 'Fast delete (skips GUID sharing check)'; 'Operation Criteria' with input fields for 'Service ID' and 'Operation ID', each with a 'to:' field and a copy icon; 'Log Filters' with input fields for 'Start time' (00:00:00), 'Created By', 'Message type', and 'Service direction', each with a 'to:' field and a copy icon; and 'Date Restrictions' with a checkbox for 'Use custom date range (overrides config)' and a field for 'Retention period for orphan logs (days)' set to 15.

A short path from repository to a live endpoint

CURRENT DEMO VERIFIED · LANDSCAPE STEPS APPLY

- 01 Import**
Pull the repository into package ZREST with abapGit.
- 02 Check prerequisites**
Confirm ABAP 7.40 SP08, ICF/HTTP access and the transport approach.
- 03 Activate**
Activate repository and required table-maintenance objects.
- 04 Publish**
Create and activate the matching SICF node and assign the handler.
- 05 Configure + prove**
Maintain ZRESTC001 / ZRESTC002, then run setup audit and E2E.

sapides.onderyazilim.com · SICF /api/demo · client 800

SAP

< SAP Create/Change a Service

Change Display Inheritance More ▾

Path: /default_host/api/

Service Name: demo Service (Active)

Lang.: English (Not maintained) → Other Languages

Description

Description 1:

Description 2:

Description 3:

Service Data Logon Data Handler List Error Pages Administration

Handler List (in Order of Execution)

No.	Handler
1	ZCL_REST_DEMO_INBOUND
2	
3	
4	
5	
6	
7	

Validated in source and in the target SAP system

SOURCE INVENTORY

Static and unit-test surface

219 ABAP Unit methods in 11 test includes

247 files checked by the recorded abaplint run

0 recorded static findings

check_syntax=false; generated SE54 includes are excluded. SAP activation and tests provide runtime evidence.

TARGET SAP • 02 SEP 2026

Recorded system evidence

11 test includes green

227 E2E checks passed

11/11 demo operations active

0 failed • 0 skipped • 0 warning in the recorded target run.

CUSTOMER LANDSCAPE

Acceptance steps to complete

- Two-user saved-request ownership and visibility
- Customer role matrix and CSRF policy
- Explicit U/S outbound runtime comparison
- Retention job, authorizations and production schedule

Classic ABAP APIs, made easier to **publish,** **understand and** **operate.**

- ✓ One framework for inbound and outbound REST
- ✓ OpenAPI generated from the implementation
- ✓ Live demo backed by recorded verification evidence

<https://sapides.onderyazilim.com/api/demo/swagger.html> ↗

<https://onderyazilim.com/en/products/zrest.html> ↗

A controlled pilot path

- Import into a sandbox and activate the matching SICF path.
- Configure one inbound service and one controlled outbound target.
- Run the setup audit, ABAP Unit and recorded E2E suite.
- Agree roles, CSRF, logging, retention and transport ownership before production.