PersivApps External API

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Base URL: `https://your-host/persivapps/service`. Every path starts with `/external/v1/`. Sign in with your client ID and secret (`POST /external/v1/auth/login`), then send `Authorization: Bearer <access_token>` on every call. Tokens last 1 hour. JSON in and out; successful responses have "status": "success"; errors are {"status": "error", "error": "…", "code": "…"}.

Status	code	Meaning
400	invalid_request	A value is missing or wrong; the message says which.
400	rejected	The SmartTable's own rules refused it (validation, adding off, submitted and locked).
401	—	Missing, expired or invalid token.
403	permission_denied	The token lacks the permission; details.required_permission names it.
404	not_found	Doesn't exist, isn't covered by your permission, or (for changes) isn't yours.
409	conflict codes	not_approved, not_deleted, not_submitted, steps_pending, sync_locked, …
429	rate_limited	Too many requests; wait and retry.

Getting started

POST `/external/v1/auth/login`

Sign in with the client ID and secret; returns an access token (1 hour) and a refresh token.

Parameter	In	Type	Req.	Description
`client_id`	body	string	yes	The client ID
`client_secret`	body	string	yes	The secret (or send both as HTTP Basic)
`scope`	body	string	no	Space-separated permissions, to get a token with fewer

Errors follow OAuth 2.0: {"error": "invalid_client" | "invalid_scope", "error_description": "…"}.

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/auth/login" \
  -H "Content-Type: application/json" \
  -d '{"client_id": "{{client_id}}", "client_secret": "{{client_secret}}"}'
```

Sample response (200)

```
{
  "access_token": "pvx_at_9c1f…",
  "token_type": "Bearer",
  "expires_in": 3600,
  "scope": "entries:read entries:write",
  "refresh_token": "pvx_rt_47d2…"
}
```

POST `/external/v1/auth/token`

OAuth 2.0 token endpoint: client_credentials, or refresh_token to renew.

Parameter	In	Type	Req.	Description
`grant_type`	body	string	yes	client_credentials or refresh_token
`refresh_token`	body	string	no	With refresh_token; each works once
`client_id`	body	string	yes	The client ID
`client_secret`	body	string	yes	The secret

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/auth/token" \
  -H "Content-Type: application/json" \
  -d '{"grant_type": "refresh_token", "refresh_token": "{{refresh_token}}", "client_id": "{{client_id}}",
"client_secret": "{{client_secret}}"}'
```

Sample response (200)

```
{
  "access_token": "pvx_at_5be0…",
  "token_type": "Bearer",
  "expires_in": 3600,
  "scope": "entries:read entries:write",
  "refresh_token": "pvx_rt_a812…"
}
```

GET /external/v1/me

This client, the permissions of the current token, and the SmartTables each covers.

Use it to check what a token can do before calling anything else.

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/me" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "client": {
    "name": "Acme Logistics",
    "client_id": "ext.acme-logistics.1a2b3c4d"
  },
  "credential": {
    "name": "Production server",
    "expires_at": null
  },
  "permissions": [
    {
      "permission": "entries:read",
      "smarttables": [
        {
          "id": 61,
          "name": "Dispatch Log"
        }
      ]
    },
    {
      "permission": "entries:write",
      "smarttables": [
        {
          "id": 61,
          "name": "Dispatch Log"
        }
      ]
    }
  ]
}
```

GET /external/v1/reference/postman

A Postman collection of just the calls this token may use (?base_url= sets the default host).

Parameter	In	Type	Req.	Description
base_url	query	string	no	Your API base URL, set as the collection's base_url variable

Import the file in Postman, fill in client_secret, then run "Sign in".

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/reference/postman?base_url=https%3A%2F%2Fyour-
host%2Fpersivapps%2Fservice" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
(file: application/json)
```

GET /external/v1/reference/pdf

The API reference as a PDF, with just the calls this token may use.

Parameter	In	Type	Req.	Description
base_url	query	string	no	Your API base URL, shown in the samples

At most 10 per 10 minutes.

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/reference/pdf?base_url=https%3A%2F%2Fyour-
host%2Fpersivapps%2Fservice" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
(file: application/pdf)
```

Entries

`GET /external/v1/smarttables/{smarttable_id}/entries`

List entries of a SmartTable (paged; search, filters, sort, created/updated time window).

Permission: `entries:read`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id
`page`	query	integer	no	Page, from 1
`page_size`	query	integer	no	50, 100 (default), 200 or 500
`search`	query	string	no	Matches any field's value
`filters`	query	JSON array	no	e.g. [{"column_id": "8", "operator": "equals", "value": "Arrived"}]; at most 20
`sort`	query	string	no	A field id, or created_at, updated_at, observation_number, entry_id
`dir`	query	string	no	asc or desc (default)
`submitted`	query	string	no	1 = submitted only, 0 = drafts only
`created_after`	query	ISO 8601	no	Created at or after (no offset = UTC)
`created_before`	query	ISO 8601	no	Created before
`updated_after`	query	ISO 8601	no	Changed at or after — use it to fetch what changed since your last run
`updated_before`	query	ISO 8601	no	Changed before
`deleted`	query	string	no	1 lists deleted rows instead (needs entries:delete)

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/
entries?page=1&page_size=100&updated_after=2026-10-01T00%3A00%3A00Z&sort=updated_at&dir=asc" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "entries": [
    {
      "smarttable_id": 61,
      "smarttable_data_id": 189862,
      "smarttable_data_entry_id": 195569,
      "observation_number": 1,
      "values": {
        "1": "Truck MH12AB1234",
        "3": 12.5,
        "8": "Arrived"
      },
      "is_submitted": false,
      "is_deleted": false,
      "created_at": "2026-10-12T09:41:07.512Z",
      "updated_at": "2026-10-12T09:41:07.512Z",
      "created_by": "Acme Logistics (integration)"
    }
  ],
  "page": 1,
  "page_size": 100,
  "total_count": 1,
  "total_pages": 1
}
```

`GET /external/v1/smarttables/data/{smarttable_data_id}`

Read one row (an observation of an entry).

Permission: `entries:read`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/data/189862" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
```

```
  "row": {
    "smarttable_id": 61,
    "smarttable_data_id": 189862,
    "smarttable_data_entry_id": 195569,
    "observation_number": 1,
    "values": {
      "1": "Truck MH12AB1234",
      "3": 12.5,
      "8": "Arrived"
    },
    "is_submitted": false,
    "is_deleted": false,
    "created_at": "2026-10-12T09:41:07.512Z",
    "updated_at": "2026-10-12T09:41:07.512Z",
    "created_by": "Acme Logistics (integration)"
  }
}
```

GET `/external/v1/entries/{smarttable_data_entry_id}`

Read an entry with all its observations.

Permission: `entries:read`

Parameter	In	Type	Req.	Description
`smarttable_data_entry_id`	path	integer	yes	An entry id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/entries/195569" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "smarttable_data_entry_id": 195569,
  "observations": [
    {
      "smarttable_id": 61,
      "smarttable_data_id": 189862,
      "smarttable_data_entry_id": 195569,
      "observation_number": 1,
      "values": {
        "1": "Truck MH12AB1234",
        "3": 12.5,
        "8": "Arrived"
      },
      "is_submitted": false,
      "is_deleted": false,
      "created_at": "2026-10-12T09:41:07.512Z",
      "updated_at": "2026-10-12T09:41:07.512Z",
      "created_by": "Acme Logistics (integration)"
    }
  ]
}
```

DELETE `/external/v1/smarttables/data/{smarttable_data_id}`

Delete a row (soft delete; can be restored).

Permission: `entries:delete`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Sample request

```
curl -X DELETE "https://your-host/persivapps/service/external/v1/smarttables/data/189862" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "message": "Deleted",
  "smarttable_data_id": 189862
}
```

POST `/external/v1/smarttables/data/{smarttable_data_id}/restore`

Restore a deleted row.

Permission: `entries:delete`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Sample request
```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/data/189862/restore" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "message": "Restored",
  "smarttable_data_id": 189862
}
```

DELETE `/external/v1/smarttables/data/{smarttable_data_id}/permanent`

Delete a row permanently (cannot be undone).

Permission: `entries:admin`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Sample request
```
curl -X DELETE "https://your-host/persivapps/service/external/v1/smarttables/data/189862/permanent" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "message": "Deleted permanently",
  "smarttable_data_id": 189862
}
```

POST `/external/v1/smarttables/data/{smarttable_data_id}/unsubmit`

Unsubmit a submitted row so it can be edited again.

Permission: `entries:admin`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Sample request
```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/data/189862/unsubmit" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "message": "Unsubmitted",
  "smarttable_data_id": 189862
}
```

POST `/external/v1/smarttables/data/{smarttable_data_id}/release-lock`

Release the edit lock on a row someone left open.

Permission: `entries:admin`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Sample request
```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/data/189862/release-lock" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "message": "Edit lock released",
  "smarttable_data_id": 189862
}
```

POST `/external/v1/smarttables/data/save`

Create an entry, or a new observation of an entry this client owns.

Permission: `entries:write`

Parameter	In	Type	Req.	Description
`smarttable_id`	body	integer	yes	The SmartTable to save into
`smarttable_values`	body	object	yes	Field values keyed by field id; a table field takes an array
`is_submit`	body	boolean	no	true submits (and starts any approval workflow); default saves a draft
`client_op_id`	body	string	no	Your unique id for this save; a repeat returns the original row (200, duplicate: true)
`smarttable_data_entry_id`	body	integer	no	Add a new observation to one of your entries instead
`observation_number`	body	integer	no	With smarttable_data_entry_id: which observation
`attachments__<field_id>`	form	file	no	Files, when sent as multipart/form-data (smarttable_values as a JSON string)

Required fields are checked by the entry form, not by the save: send every field the SmartTable needs.

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/data/save" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"smarttable_id": 61, "smarttable_values": {"1": "Truck MH12AB1234", "3": 12.5, "8": "Arrived"},
"is_submit": false, "client_op_id": "acme-dispatch-000123"}'
```

Sample response (201)

```
{
  "status": "success",
  "message": "Saved",
  "duplicate": false,
  "smarttable_id": 61,
  "smarttable_data_id": 189862,
  "smarttable_data_entry_id": 195569,
  "observation_number": 1
}
```

PUT `/external/v1/smarttables/data/{smarttable_data_id}/update`

Update fields of a saved row.

Permission: `entries:write`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id
`smarttable_values`	body	object	yes	Only the fields to change; the rest keep their values
`cleared_fields`	body	array of string	no	Field ids to blank (an empty string means "no change")
`cleared_attachments`	body	array of string	no	Attachment field ids to empty
`is_submit`	body	boolean	no	true submits a draft

PUT, PATCH and POST are all accepted. Only rows this client created, unless it may change any entry.

Sample request

```
curl -X PUT "https://your-host/persivapps/service/external/v1/smarttables/data/189862/update" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"smarttable_values": {"8": "Unloaded"}, "cleared_fields": ["3"]}'
```

Sample response (200)

```
{
  "status": "success",
  "message": "Updated",
  "smarttable_id": 61,
  "smarttable_data_id": 189862,
  "smarttable_data_entry_id": 195569,
  "observation_number": 1
}
```

Bulk operations

POST `/external/v1/bulk/delete`

Delete many rows (soft delete; can be restored). Body: {"smarttable_data_ids": [...]}.

Permission: `entries.bulk:delete`

Parameter	In	Type	Req.	Description
`smarttable_data_ids`	body	array of integer	yes	Row ids, at most 500

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/bulk/delete" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"smarttable_data_ids": [189862, 189863, 999999]}'
```

Sample response (200)

```
{
  "status": "success",
  "deleted": [
    189862,
    189863
  ],
  "failed": [
    {
      "id": 999999,
      "error": "Not found"
    }
  ]
}
```

POST `/external/v1/bulk/restore`

Restore many deleted rows. Body: {"smarttable_data_ids": [...]}.

Permission: `entries.bulk:delete`

Parameter	In	Type	Req.	Description
`smarttable_data_ids`	body	array of integer	yes	Row ids, at most 500

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/bulk/restore" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"smarttable_data_ids": [189862, 189863]}'
```

Sample response (200)

```
{
  "status": "success",
  "restored": [
    189862,
    189863
  ],
  "failed": []
}
```

POST `/external/v1/bulk/delete-permanently`

Permanently delete many rows (cannot be undone). Body: {"smarttable_data_ids": [...]}.

Permission: `entries.bulk:admin`

Parameter	In	Type	Req.	Description
`smarttable_data_ids`	body	array of integer	yes	Row ids, at most 500

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/bulk/delete-permanently" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"smarttable_data_ids": [189862]}'
```

Sample response (200)

```
{
  "status": "success",
  "deleted": [
    189862
  ],
  "failed": []
}
```

`POST` `/external/v1/bulk/update-version`

Move many rows to the latest approved schema and/or display version. Body: {"smarttable_data_ids": [...], "update": "entry" | "display" | "both"}.

Permission: `entries.bulk:admin`

Parameter	In	Type	Req.	Description
`smarttable_data_ids`	body	array of integer	yes	Row ids, at most 500
`update`	body	string	no	entry, display or both (default)

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/bulk/update-version" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"smarttable_data_ids": [189862], "update": "both"}'
```

Sample response (200)

```
{
  "status": "success",
  "updated": [
    {
      "id": 189862,
      "entry_version_id": 412,
      "display_version_id": 233
    }
  ],
  "failed": []
}
```

`POST` `/external/v1/smarttables/{smarttable_id}/bulk-upload`

Add rows to a relational SmartTable from an Excel file (multipart, key "file"; column headers = field names).

Permission: `entries.bulk:write`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id
`file`	form	file	yes	.xlsx or .xls, at most 10 MB; first row = field names

Relational SmartTables only. At most 10 uploads per hour.

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/64/bulk-upload" \
  -H "Authorization: Bearer {{access_token}}" \
  -F "file=@vehicles.xlsx"
```

Sample response (201)

```
{
  "status": "success",
  "smarttable_id": 64,
  "message": "Bulk upload completed",
  "total_rows": 120,
  "added": 118,
  "failed": 2,
  "errors": [
    "Row 14: Vehicle number is required",
    "Row 87: duplicate Vehicle number"
  ]
}
```

Attestation and eSign

`GET` `/external/v1/smarttables/data/{smarttable_data_id}/attestation`

A row's attestation and eSign status.

Permission: `entries.attestation:read`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

attested_by is null while the row is not attested.

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/data/189862/attestation" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "attestation": {
    "smarttable_data_id": 189862,
    "attested": true,
    "attested_by": {
      "user_id": 431,
      "name": "Acme Logistics (integration)"
    },
    "esign": {
      "status": null,
      "transaction_id": null
    }
  }
}
```

POST `/external/v1/smarttables/data/{smarttable_data_id}/attestation`

Attest a row with a signature image; it is recorded as signed by this integration.

Permission: `entries.attestation:write`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id
`image`	body	string (base64) or file	yes	PNG or JPEG signature, at most 1 MB; or multipart field "image"

Only a submitted row. Recorded as signed by this integration.

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/data/189862/attestation" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"image": "iVBORw0KGgoAAAANSUhEUgAA..."}'
```

Sample response (201)

```
{
  "status": "success",
  "attestation": {
    "smarttable_data_id": 189862,
    "attested": true,
    "attested_by": {
      "user_id": 431,
      "name": "Acme Logistics (integration)"
    },
    "esign": {
      "status": null,
      "transaction_id": null
    }
  }
}
```

DELETE `/external/v1/smarttables/data/{smarttable_data_id}/attestation`

Remove a row's attestation.

Permission: `entries.attestation:delete`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Sample request

```
curl -X DELETE "https://your-host/persivapps/service/external/v1/smarttables/data/189862/attestation" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "attestation": {
    "smarttable_data_id": 189862,
    "attested": false,
    "attested_by": null,
    "esign": {
      "status": null,
      "transaction_id": null
    }
  }
}
```

Attachments

GET `/external/v1/smarttables/data/{smarttable_data_id}/attachments`

List a row's attachments.

Permission: `entries.attachments:read`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Files are grouped by attachment field id.

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/data/189862/attachments" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_data_id": 189862,
  "attachments": {
    "6": [
      {
        "filename": "0001_3f9a1c2b7d4e_weighbridge-slip.pdf",
        "path": "smarttables/data/189862/attachments/6/0001_3f9a1c2b7d4e_weighbridge-slip.pdf"
      }
    ]
  }
}
```

GET `/external/v1/smarttables/data/{smarttable_data_id}/attachments/{field_id}/{filename}`

Download one attachment.

Permission: `entries.attachments:read`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id
`field_id`	path	integer	yes	The attachment field id
`filename`	path	string	yes	A filename from the list call

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/data/189862/attachments/6/
0001_3f9a1c2b7d4e_weighbridge-slip.pdf" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
(file: application/octet-stream)
```

POST `/external/v1/smarttables/data/{smarttable_data_id}/attachments/{field_id}`

Upload files to an attachment field (multipart, key "files").

Permission: `entries.attachments:write`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id
`field_id`	path	integer	yes	The attachment field id
`files`	form	file	yes	One or more files (repeat the key), at most 20

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/data/189862/attachments/6" \
  -H "Authorization: Bearer {{access_token}}" \
  -F "files=@weighbridge-slip.pdf"
```

Sample response (201)

```
{
  "status": "success",
  "smarttable_data_id": 189862,
  "field_id": "6",
  "files": [
    "0001_3f9a1c2b7d4e_weighbridge-slip.pdf"
  ]
}
```

`DELETE` /external/v1/smarttables/data/{smarttable_data_id}/attachments/{field_id}/{filename}

Remove one attachment.

Permission: `entries.attachments:delete`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id
`field_id`	path	integer	yes	The attachment field id
`filename`	path	string	yes	The stored filename

Sample request

```
curl -X DELETE "https://your-host/persivapps/service/external/v1/smarttables/data/189862/attachments/6/
0001_3f9a1c2b7d4e_weighbridge-slip.pdf" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "message": "Removed",
  "smarttable_data_id": 189862,
  "field_id": "6",
  "filename": "0001_3f9a1c2b7d4e_weighbridge-slip.pdf"
}
```

Comments and notes

`GET` /external/v1/smarttables/data/{smarttable_data_id}/comments

List a row's comments and notes.

Permission: `entries.comments:read`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

kind is "note" for notes added in the app, else "comment".

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/data/189862/comments" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_data_id": 189862,
  "comments": [
    {
      "text": "Weighbridge slip attached.",
      "author": "Asha Patel",
      "at": "2026-10-12T10:02:11Z",
      "kind": "comment",
      "attachments": []
    }
  ]
}
```

`POST` /external/v1/smarttables/data/{smarttable_data_id}/comments

Add a comment to a row.

Permission: `entries.comments:write`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id
`text`	body	string	yes	Plain text, at most 5,000 characters

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/data/189862/comments" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"text": "Unloaded at gate 3."}'
```

Sample response (201)

```
{
  "status": "success",
```

```
  "message": "Comment added",
  "smarttable_data_id": 189862
}
```

Approval status

`GET` `/external/v1/entries/{smarttable_data_entry_id}/approval`

An entry's approval status, with earlier rounds.

Permission: `entries.approvals:read`

Parameter	In	Type	Req.	Description
`smarttable_data_entry_id`	path	integer	yes	An entry id

Read only: approvers act in the app. Signatures are never returned. A SmartTable without a workflow returns just "approval_enabled": false.

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/entries/195569/approval" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_data_entry_id": 195569,
  "approval_enabled": true,
  "approval": {
    "approval_workflow_enabled": true,
    "interleaved": false,
    "total_steps": 2,
    "current_step": 2,
    "current_entry_step": null,
    "steps_done": 1,
    "steps_pending": 1,
    "is_fully_approved": false,
    "is_rejected": false,
    "is_published": false,
    "published_at": null,
    "waiting_for_approval": true,
    "approved_at": null,
    "steps": [
      {
        "step": 1,
        "label": "Step 1",
        "mode": "any",
        "approvers": [
          12,
          15
        ],
        "approvers_list": [
          {
            "name": "Asha Patel"
          },
          {
            "name": "Vikram Rao"
          }
        ],
        "status": "approved",
        "approved_by": [
          {
            "name": "Asha Patel"
          }
        ],
        "pending_approvers": [],
        "comment": "Looks fine"
      }
    ],
    "publish_notification_users": [],
    "email_publish_notification_users": [],
    "publish_email_settings": {
      "subject": "",
      "body": ""
    }
  }
}
```

`GET` /external/v1/entries/{smarttable_data_entry_id}/approval/history

Earlier approval rounds of an entry (rejected and resubmitted).

Permission: `entries.approvals:read`

Parameter	In	Type	Req.	Description
smarttable_data_entry_id	path	integer	yes	An entry id

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/entries/195569/approval/history" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "smarttable_data_entry_id": 195569,
  "rounds": []
}
```

Exports

`POST` /external/v1/bulk/pdf

Download many entry PDFs as one zip. Body: {"smarttable_data_entry_ids": [...]} (at most 50).

Permission: `entries.exports:read`

Parameter	In	Type	Req.	Description
smarttable_data_entry_ids	body	array of integer	yes	Entry ids, at most 50
include_attachments	body	boolean	no	Merge attached PDFs (default true)

Entries you can't read are left out and listed in the X-Skipped-Entry-Ids header. At most 5 per 5 minutes.

Sample request
```
curl -X POST "https://your-host/persivapps/service/external/v1/bulk/pdf" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"smarttable_data_entry_ids": [195569, 195570], "include_attachments": false}'
```

Sample response (200)
```
(file: application/zip)
```

`GET` /external/v1/entries/{smarttable_data_entry_id}/pdf

Download an entry's PDF (its display layout).

Permission: `entries.exports:read`

Parameter	In	Type	Req.	Description
smarttable_data_entry_id	path	integer	yes	An entry id
include_attachments	query	string	no	false leaves attached PDFs out

At most 30 PDFs per minute.

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/entries/195569/pdf?include_attachments=false" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
(file: application/pdf)
```

SmartTables

`GET` /external/v1/smarttables

List the SmartTables this client can read.

Permission: `smarttables:read`

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttables": [
    {
      "smarttable_id": 61,
      "name": "Dispatch Log",
      "is_approved": true,
      "is_relational": false,
      "observation_count": 1,
      "version": 4
    }
  ]
}
```

GET /external/v1/smarttables/{smarttable_id}

A SmartTable with its current fields (schema).

Permission: `smarttables:read`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable": {
    "smarttable_id": 61,
    "name": "Dispatch Log",
    "is_approved": true,
    "is_relational": false,
    "observation_count": 1,
    "version": 4,
    "fields": [
      {
        "id": 1,
        "name": "Truck number",
        "ui_smarttable_element": "text",
        "optional": false,
        "hide": false,
        "isDisabled": false,
        "show_in_entries_list": true,
        "accordion": "Vehicle",
        "smarttable_section": "Dispatch",
        "row": "",
        "table": false,
        "table_no": "",
        "auto_increment": false,
        "min_value_allowed": "",
        "max_value_allowed": "",
        "acceptance_criteria": "",
        "allowed_data": "",
        "properties": "",
        "hide_for_observation_number": "",
        "autofill_from_observation1": false,
        "attachment": "",
        "attachment_max_count": "",
        "remarks": false,
        "default": ""
      }
    ]
  }
}
```

GET /external/v1/smarttables/{smarttable_id}/versions

A SmartTable's schema versions.

Permission: `smarttables:read`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/versions" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "versions": [
    {
      "version": 4,
      "approved": true,
      "source": "sharepoint",
      "created_at": "2026-10-01T08:00:00Z",
      "field_count": 12
    }
  ]
}
```

POST `/external/v1/smarttables`

Create a SmartTable from a field list (it then waits for approval in the app).

Permission: `smarttables:write`

Parameter	In	Type	Req.	Description
`name`	body	string	yes	At most 255 characters
`fields`	body	array	yes	Fields with the schema builder's columns
`is_relational`	body	boolean	no	Default true
`observation_count`	body	integer	no	1 to 50

Needs smarttables:write on all SmartTables.

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"name": "Dispatch Log", "is_relational": false, "observation_count": 1, "fields": [{"name": "Truck
number", "ui_smarttable_element": "text"}, {"name": "Weight (t)", "ui_smarttable_element": "number",
"optional": true}]}'
```

Sample response (201)

```
{
  "status": "success",
  "smarttable_id": 88,
  "name": "Dispatch Log",
  "message": "Created; it is usable once approved in the app"
}
```

PUT `/external/v1/smarttables/{smarttable_id}/schema`

Change a SmartTable's fields (creates a new version).

Permission: `smarttables:write`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id
`fields`	body	array	yes	The full field list; keep existing ids
`allow_remove`	body	boolean	no	Allow leaving out existing fields
`allow_type_change`	body	boolean	no	Allow changing a field's type

Sample request

```
curl -X PUT "https://your-host/persivapps/service/external/v1/smarttables/61/schema" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"fields": [{"id": 1, "name": "Truck number", "ui_smarttable_element": "text"}, {"name": "Driver phone",
 "ui_smarttable_element": "text", "optional": true}]}'
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "version": 5,
  "message": "Saved; a new version may need approval in the app"
}
```

`DELETE` /external/v1/smarttables/{smarttable_id}

Delete a SmartTable.

Permission: `smarttables:delete`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id

Sample request

```
curl -X DELETE "https://your-host/persivapps/service/external/v1/smarttables/61" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "message": "Deleted",
  "smarttable_id": 61
}
```

Display layouts

`GET` /external/v1/smarttables/{smarttable_id}/display

A SmartTable's display (print) layout: the latest approved version, or ?version=N.

Permission: `smarttables.display:read`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id
version	query	integer	no	A version number (default the latest approved)
include_unapproved	query	string	no	1 to include versions not approved yet

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/display?version=3" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "display": {
    "version": 3,
    "approved": true,
    "created_at": "2026-09-20T07:30:00Z",
    "layout": {
      "cells": [
        {
          "address": "B2",
          "row": 1,
          "column": 1,
          "value": "<pa_1>",
          "font": {
            "bold": true,
            "name": "Calibri",
            "size": 11.0
          },
          "column_width": 18.0,
          "row_height": 15.0
        }
      ]
    }
  }
}
```

`GET` /external/v1/smarttables/{smarttable_id}/display/versions

A SmartTable's display layout versions.

Permission: `smarttables.display:read`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/display/versions" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "versions": [
    {
      "version": 3,
      "approved": true,
      "created_at": "2026-09-20T07:30:00Z"
    }
  ]
}
```

SharePoint and Google Sheets

GET `/external/v1/smarttables/{smarttable_id}/source`

Where a SmartTable's schema comes from (SharePoint, Google Sheets or the schema builder).

Permission: `smarttables.sources:read`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/source" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "source": "sharepoint",
  "url": "https://contoso.sharepoint.com/sites/ops/Shared%20Documents/dispatch.xlsx",
  "sync_locked": false
}
```

POST `/external/v1/smarttables/{smarttable_id}/sync`

Refresh a SmartTable from its spreadsheet (new versions may need approval in the app).

Permission: `smarttables.sources:write`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id

At most 20 refreshes and creates per hour.

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/61/sync" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "source": "sharepoint",
  "versions_updated": true,
  "entry_version": 5,
  "display_version": 3
}
```

POST `/external/v1/smarttables/from-source`

Create a SmartTable from a SharePoint or Google Sheets file (it then waits for approval in the app).

Permission: `smarttables.sources:write`

Parameter	In	Type	Req.	Description
`name`	body	string	yes	At most 255 characters
`sharepoint_url`	body	string	no	https link on *.sharepoint.com
`google_sheets_url`	body	string	no	https link on docs.google.com (instead of sharepoint_url)
`is_relational`	body	boolean	no	Default false
`observation_count`	body	integer	no	1 to 50

Needs smarttables.sources:write and smarttables:write, both on all SmartTables.

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/from-source" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"name": "Vehicle Master", "sharepoint_url": "https://contoso.sharepoint.com/sites/ops/
Shared%20Documents/vehicles.xlsx", "is_relational": true}'
```

Sample response (201)

```
{
  "status": "success",
  "smarttable_id": 89,
  "name": "Vehicle Master",
  "message": "Created; it is usable once approved in the app"
}
```

SmartTable settings

GET `/external/v1/smarttables/{smarttable_id}/settings`

A SmartTable's settings.

Permission: `smarttables.settings:read`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/settings" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "settings": {
    "observation_count": 1,
    "submit_button_label": "Submit",
    "show_observation_number": false,
    "show_min_max_values": true,
    "is_autosave_enabled": true,
    "autosave_enabled_by_default": false,
    "enable_attestation": false,
    "require_submitter_signature": false,
    "enable_notification_comments": false,
    "enable_notes": false,
    "enable_entry_access_control": false,
    "autosave_interval": 60,
    "freeze_columns_fields": [
      1
    ],
    "filter_fields": [
      8
    ],
    "pdf_filename_fields": [
      1
    ],
    "primary_field_id": null,
    "entries_page_size": 100,
    "show_entries": "all",
    "show_entries_attribute_id": null,
    "submit_admin_users": [],
    "unsubmit_admin_users": [],
    "attest_users": [],
    "submit_notification_users": [],
    "offline_enabled": false,
    "compress_attachments": true
  }
}
```

PATCH `/external/v1/smarttables/{smarttable_id}/settings`

Change some of a SmartTable's settings (only the keys sent).

Permission: `smarttables.settings:write`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id
`<setting>`	body	any	yes	Only the settings to change (see the guide for the list)

Saves a new settings version and returns all settings.

Sample request

```
curl -X PATCH "https://your-host/persivapps/service/external/v1/smarttables/61/settings" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"submit_button_label": "Send", "autosave_interval": 30}'
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "version": 7,
  "settings": {
    "observation_count": 1,
    "submit_button_label": "Send",
    "show_observation_number": false,
    "show_min_max_values": true,
    "is_autosave_enabled": true,
    "autosave_enabled_by_default": false,
    "enable_attestation": false,
    "require_submitter_signature": false,
    "enable_notification_comments": false,
    "enable_notes": false,
    "enable_entry_access_control": false,
    "autosave_interval": 30,
    "freeze_columns_fields": [
      1
    ],
    "filter_fields": [
      8
    ],
    "pdf_filename_fields": [
      1
    ],
    "primary_field_id": null,
    "entries_page_size": 100,
    "show_entries": "all",
    "show_entries_attribute_id": null,
    "submit_admin_users": [],
    "unsubmit_admin_users": [],
    "attest_users": [],
    "submit_notification_users": [],
    "offline_enabled": false,
    "compress_attachments": true
  }
}
```

Approval workflow

GET /external/v1/smarttables/{smarttable_id}/approval-workflow

A SmartTable's approval workflow.

Permission: `smarttables.approval:read`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/approval-workflow" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "approval_workflow": {
    "enabled": true,
    "interleaved": false,
    "step0": {
      "enabled": false,
      "notify_on_later_steps": false,
      "deadline_days": 0
    },
    "steps": [
      {
        "step": 1,
        "mode": "any",
        "approvers": [
          12,
          15
        ],
        "notify_on_later_steps": false,
        "deadline_days": 2
```

```
      }
    ],
    "on_publish": {
      "notify_users": [],
      "email_users": [
        30
      ],
      "email": {
        "subject": "Approved",
        "body": "Please find the PDF attached.",
        "signature": ""
      }
    }
  }
}
```

PUT `/external/v1/smarttables/{smarttable_id}/approval-workflow`

Replace a SmartTable's approval workflow (applies to entries created afterwards).

Permission: `smarttables.approval:write`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id
`enabled`	body	boolean	yes	false turns approvals off
`steps`	body	array	no	1 to 20 steps: mode any|all, approvers (user ids), deadline_days
`step0`	body	object	no	enabled, notify_on_later_steps, deadline_days
`on_publish`	body	object	no	notify_users, email_users, email {subject, body, signature}

Sample request

```
curl -X PUT "https://your-host/persivapps/service/external/v1/smarttables/61/approval-workflow" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"enabled": true, "steps": [{"mode": "any", "approvers": [12, 15], "deadline_days": 2}, {"mode": "all",
"approvers": [20]}]}'
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "version": 6,
  "approval_workflow": {
    "enabled": true,
    "interleaved": false,
    "step0": {
      "enabled": false,
      "notify_on_later_steps": false,
      "deadline_days": 0
    },
    "steps": [
      {
        "step": 1,
        "mode": "any",
        "approvers": [
          12,
          15
        ],
        "notify_on_later_steps": false,
        "deadline_days": 2
      }
    ],
    "on_publish": {
      "notify_users": [],
      "email_users": [
        30
      ],
      "email": {
        "subject": "Approved",
        "body": "Please find the PDF attached.",
        "signature": ""
      }
    }
  }
}
```

SmartTable Steps

`GET` /external/v1/smarttables/{smarttable_id}/steps

A SmartTable's steps and who is assigned to each.

Permission: `smarttables.steps:read`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/steps" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "steps": [
    {
      "step_number": 1,
      "step_name": "Gate in",
      "sheet_step_name": "Gate in",
      "field_count": 6,
      "assignees": {
        "users": [
          12
        ]
      },
      "resolved_users": [
        {
          "id": 12,
          "name": "Asha Patel"
        }
      ],
      "show_to_later_steps": false
    }
  ]
}
```

`PUT` /external/v1/smarttables/{smarttable_id}/steps

Set who is assigned to each step (steps left out are deactivated).

Permission: `smarttables.steps:write`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id
`steps`	body	array	yes	step_number + assignees {users, attributes}; left out = deactivated

Sample request

```
curl -X PUT "https://your-host/persivapps/service/external/v1/smarttables/61/steps" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"steps": [{"step_number": 1, "assignees": {"users": [12]}}]}'
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "steps": [
    {
      "step_number": 1,
      "step_name": "Gate in",
      "sheet_step_name": "Gate in",
      "field_count": 6,
      "assignees": {
        "users": [
          12
        ]
      },
      "resolved_users": [
        {
          "id": 12,
          "name": "Asha Patel"
        }
      ],
      "show_to_later_steps": false
    }
  ]
```

```
}
```

Access

GET /external/v1/smarttables/{smarttable_id}/access

Who has access to a SmartTable, and with which role.

Permission: `access:read`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/access" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "access": [
    {
      "user_id": 12,
      "name": "Asha Patel",
      "username": "asha.patel",
      "role": "admin",
      "is_api_client": false
    }
  ]
}
```

POST /external/v1/smarttables/{smarttable_id}/access

Give users access to a SmartTable (role: admin, user or viewer).

Permission: `access:admin`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id
user_ids	body	array of integer	yes	Active users of your organization
role	body	string	no	admin, user (default) or viewer

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/smarttables/61/access" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"user_ids": [12, 15], "role": "user"}'
```

Sample response (201)

```
{
  "status": "success",
  "smarttable_id": 61,
  "granted": [
    15
  ],
  "already_had_access": [
    12
  ],
  "role": "user"
}
```

PUT /external/v1/smarttables/{smarttable_id}/access/{user_id}

Change a user's role on a SmartTable.

Permission: `access:admin`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id
user_id	path	integer	yes	A user id of your organization
role	body	string	yes	admin, user or viewer
force	body	boolean	no	Go ahead although the user holds an in-progress step

Sample request

```
curl -X PUT "https://your-host/persivapps/service/external/v1/smarttables/61/access/15" \
```

```
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"role": "viewer"}'
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "user_id": 15,
  "role": "viewer"
}
```

DELETE /external/v1/smarttables/{smarttable_id}/access/{user_id}

Remove a user's access to a SmartTable.

Permission: `access:admin`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id
user_id	path	integer	yes	A user id of your organization
force	query	string	no	true: remove although the user holds an in-progress step

Sample request

```
curl -X DELETE "https://your-host/persivapps/service/external/v1/smarttables/61/access/15" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "message": "Access removed",
  "smarttable_id": 61,
  "user_id": 15
}
```

GET /external/v1/access/users

The organization's users (id, name, username), to give access to.

Permission: `access:admin`

Parameter	In	Type	Req.	Description
search	query	string	no	Name or username
page	query	integer	no	From 1

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/access/users?search=asha" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "users": [
    {
      "user_id": 12,
      "name": "Asha Patel",
      "username": "asha.patel"
    }
  ],
  "page": 1,
  "page_size": 100,
  "total_count": 1
}
```

GET /external/v1/smarttables/{smarttable_id}/entry-access

A SmartTable's entry access rules (who can view, edit and administer its rows).

Permission: `access:read`

Parameter	In	Type	Req.	Description
smarttable_id	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/entry-access" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
```

```
  "status": "success",
  "smarttable_id": 61,
  "feature_enabled_on_server": true,
  "enabled": true,
  "rules": {
    "view": {
      "match_creator_attribute": "5"
    },
    "edit": {
      "creator_only": true
    },
    "admin": {}
  },
  "show_entries": "all"
}
```

PUT `/external/v1/smarttables/{smarttable_id}/entry-access`

Set a SmartTable's entry access rules and switch them on or off (new version).

Permission: `access:admin`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id
`enabled`	body	boolean	no	Switch entry access control on or off
`rules`	body	object	no	view / edit / admin: users, attributes, creator_only, match_creator_attribute, or null

Sample request

```
curl -X PUT "https://your-host/persivapps/service/external/v1/smarttables/61/entry-access" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"enabled": true, "rules": {"view": {"match_creator_attribute": "5"}, "edit": {"creator_only": true,
"users": [12]}}}'
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "feature_enabled_on_server": true,
  "enabled": true,
  "rules": {
    "view": {
      "match_creator_attribute": "5"
    },
    "edit": {
      "creator_only": true,
      "users": [
        12
      ]
    },
    "admin": {}
  },
  "show_entries": "all"
}
```

PATCH `/external/v1/smarttables/data/{smarttable_data_id}/access`

Set who can view, edit or administer one row (overrides the SmartTable default).

Permission: `access:admin`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id
`view | edit | admin`	body	object or null	yes	{"users": [...], "attributes": {attr id: [values]}}; null = back to the SmartTable default

Sample request

```
curl -X PATCH "https://your-host/persivapps/service/external/v1/smarttables/data/189862/access" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"view": {"users": [12]}, "edit": null}'
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_data_id": 189862,
  "access": {
    "view": {
      "users": [
```

```
        12
      ]
    }
  }
}
```

Folders

GET /external/v1/folders

List folders.

Permission: `folders:read`

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/folders" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "folders": [
    {
      "folder_id": 7,
      "name": "Dispatch",
      "smarttable_ids": [
        61,
        62
      ],
      "shared_with": [
        {
          "user_id": 12,
          "name": "Asha Patel"
        }
      ]
    }
  ]
}
```

POST /external/v1/folders

Create a folder (needs folders:write on all folders).

Permission: `folders:write`

Parameter	In	Type	Req.	Description
name	body	string	yes	At most 255 characters

Needs folders:write on all folders.

Sample request
```
curl -X POST "https://your-host/persivapps/service/external/v1/folders" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"name": "Dispatch"}'
```

Sample response (201)
```
{
  "status": "success",
  "folder": {
    "folder_id": 7,
    "name": "Dispatch",
    "smarttable_ids": [],
    "shared_with": []
  }
}
```

PATCH /external/v1/folders/{folder_id}

Rename a folder.

Permission: `folders:write`

Parameter	In	Type	Req.	Description
folder_id	path	integer	yes	A folder id
name	body	string	yes	At most 255 characters

Sample request
```
curl -X PATCH "https://your-host/persivapps/service/external/v1/folders/7" \
  -H "Authorization: Bearer {{access_token}}" \
```

```
  -H "Content-Type: application/json" \
  -d '{"name": "Dispatch (North)"}'
```

Sample response (200)

```
{
  "status": "success",
  "folder": {
    "folder_id": 7,
    "name": "Dispatch (North)",
    "smarttable_ids": [
      61,
      62
    ],
    "shared_with": [
      {
        "user_id": 12,
        "name": "Asha Patel"
      }
    ]
  }
}
```

PUT `/external/v1/folders/{folder_id}/smarttables`

Set a folder's SmartTables (a SmartTable is in at most one folder).

Permission: `folders:write`

Parameter	In	Type	Req.	Description
`folder_id`	path	integer	yes	A folder id
`smarttable_ids`	body	array of integer	yes	The folder's SmartTables, at most 500

Sample request

```
curl -X PUT "https://your-host/persivapps/service/external/v1/folders/7/smarttables" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"smarttable_ids": [61, 62]}'
```

Sample response (200)

```
{
  "status": "success",
  "folder": {
    "folder_id": 7,
    "name": "Dispatch",
    "smarttable_ids": [
      61,
      62
    ],
    "shared_with": [
      {
        "user_id": 12,
        "name": "Asha Patel"
      }
    ]
  }
}
```

DELETE `/external/v1/folders/{folder_id}`

Delete a folder (its SmartTables are not deleted).

Permission: `folders:delete`

Parameter	In	Type	Req.	Description
`folder_id`	path	integer	yes	A folder id

Sample request

```
curl -X DELETE "https://your-host/persivapps/service/external/v1/folders/7" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "message": "Deleted",
  "folder_id": 7
}
```

`POST` `/external/v1/folders/{folder_id}/share`

Share a folder: users get the 'user' role on its SmartTables.

Permission: `folders:admin`

Parameter	In	Type	Req.	Description
`folder_id`	path	integer	yes	A folder id
`user_ids`	body	array of integer	yes	Active users of your organization

Sample request

```
curl -X POST "https://your-host/persivapps/service/external/v1/folders/7/share" \
  -H "Authorization: Bearer {{access_token}}" \
  -H "Content-Type: application/json" \
  -d '{"user_ids": [12]}'
```

Sample response (200)

```
{
  "status": "success",
  "folder": {
    "folder_id": 7,
    "name": "Dispatch",
    "smarttable_ids": [
      61,
      62
    ],
    "shared_with": [
      {
        "user_id": 12,
        "name": "Asha Patel"
      }
    ]
  }
}
```

`DELETE` `/external/v1/folders/{folder_id}/share/{user_id}`

Unshare a folder: removes the user's 'user' role on its SmartTables.

Permission: `folders:admin`

Parameter	In	Type	Req.	Description
`folder_id`	path	integer	yes	A folder id
`user_id`	path	integer	yes	A user id of your organization

Sample request

```
curl -X DELETE "https://your-host/persivapps/service/external/v1/folders/7/share/12" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "folder": {
    "folder_id": 7,
    "name": "Dispatch",
    "smarttable_ids": [
      61,
      62
    ],
    "shared_with": []
  }
}
```

History

`GET` `/external/v1/smarttables/{smarttable_id}/history`

A SmartTable's history: versions, approvals, settings changes, bulk uploads.

Permission: `audit:read`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id

Times are in IST (the app's display time).

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/history" \
```

```
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "history": [
    {
      "event": "ENTRY_VERSION_CREATED",
      "action": "ENTRY_VERSION_CREATED",
      "timestamp": "2026-10-01 13:30:00",
      "performed_by": "Asha Patel",
      "details": {
        "version": 5,
        "approved": 1
      }
    }
  ]
}
```

GET `/external/v1/smarttables/{smarttable_id}/settings-log`

A SmartTable's settings changes (latest 100).

Permission: `audit:read`

Parameter	In	Type	Req.	Description
`smarttable_id`	path	integer	yes	The SmartTable id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/61/settings-log" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_id": 61,
  "changes": [
    {
      "id": 85235,
      "event": "SMART_TABLE_SETTINGS_UPDATED",
      "timestamp": "2026-10-02 11:42:00",
      "user_name": "Asha Patel",
      "details": {
        "autosave_interval": "30",
        "submit_button_label": "Send"
      }
    }
  ]
}
```

GET `/external/v1/smarttables/data/{smarttable_data_id}/history`

A row's history: saves, submits, approvals, deletes.

Permission: `audit:read`

Parameter	In	Type	Req.	Description
`smarttable_data_id`	path	integer	yes	A row (observation) id

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/smarttables/data/189862/history" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "smarttable_data_id": 189862,
  "history": [
    {
      "event": "SMART_TABLE_DATA_SAVED",
      "timestamp": "2026-10-12 15:11:07",
      "performed_by": "Acme Logistics (integration)",
      "details": {}
    }
  ]
}
```

Users (read only)

`GET /external/v1/users`

List the organization's users (paged; search, role, active, attribute filters).

Permission: `users:read`

Parameter	In	Type	Req.	Description
`search`	query	string	no	Name, username or email
`role`	query	string	no	A role name
`active`	query	string	no	1 active, 0 inactive
`attribute_id`	query	integer	no	Users with this attribute set
`attribute_value`	query	string	no	With attribute_id: that exact value
`page`	query	integer	no	From 1; 100 per page

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/users?search=asha&active=1" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "users": [
    {
      "user_id": 12,
      "name": "Asha Patel",
      "username": "asha.patel",
      "email": "asha.patel@example.com",
      "role": "User",
      "active": true,
      "mfa_enabled": false,
      "attributes": [
        {
          "attribute_id": 5,
          "name": "Department",
          "value": "Logistics"
        }
      ],
      "created_at": "2026-03-02T05:10:00Z",
      "updated_at": "2026-09-28T11:02:43Z"
    }
  ],
  "page": 1,
  "page_size": 100,
  "total_count": 1,
  "total_pages": 1
}
```

`GET /external/v1/users/{user_id}`

One user.

Permission: `users:read`

Parameter	In	Type	Req.	Description
`user_id`	path	integer	yes	A user id of your organization

Sample request

```
curl -X GET "https://your-host/persivapps/service/external/v1/users/12" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)

```
{
  "status": "success",
  "user": {
    "user_id": 12,
    "name": "Asha Patel",
    "username": "asha.patel",
    "email": "asha.patel@example.com",
    "role": "User",
    "active": true,
    "mfa_enabled": false,
    "attributes": [
      {
        "attribute_id": 5,
        "name": "Department",
        "value": "Logistics"
```

```
      }
    ],
    "created_at": "2026-03-02T05:10:00Z",
    "updated_at": "2026-09-28T11:02:43Z"
  }
}
```

GET `/external/v1/users/{user_id}/smarttables`

The SmartTables a user has been given access to, and their role on each (only SmartTables this client may read the access of).

Permission: `users:read`

Parameter	In	Type	Req.	Description
`user_id`	path	integer	yes	A user id of your organization

Lists only SmartTables your access:read covers.

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/users/12/smarttables" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "user_id": 12,
  "smarttables": [
    {
      "smarttable_id": 61,
      "name": "Dispatch Log",
      "role": "admin"
    }
  ]
}
```

GET `/external/v1/roles`

The organization's roles.

Permission: `users:read`

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/roles" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "roles": [
    {
      "role_id": 3,
      "name": "User"
    }
  ]
}
```

GET `/external/v1/user-attributes`

The organization's user attributes (definitions).

Permission: `users:read`

Sample request
```
curl -X GET "https://your-host/persivapps/service/external/v1/user-attributes" \
  -H "Authorization: Bearer {{access_token}}"
```

Sample response (200)
```
{
  "status": "success",
  "attributes": [
    {
      "attribute_id": 5,
      "name": "Department",
      "type": "TEXT_INPUT",
      "default_value": null,
      "is_filter": true
    }
  ]
}
```