

Overview and Examples

The MiRTA PBX OpenAPI endpoint exposes configuration and reporting APIs as an OpenAPI 3.0.3 JSON specification. OpenAPI describes the available paths, methods, authentication schemes, request bodies, and response schemas in a machine-readable format.

Using the OpenAPI specification makes integrations easier to test and maintain: developers can generate client code, import the API into tools such as Postman or Swagger UI, validate request shapes, and keep documentation aligned with the endpoint implementation.

Base URL

```
https://pbx.example.com/pbx/openapi.php
https://pbx.example.com/pbx/openapi.php?spec=1
https://pbx.example.com/pbx/openapi.php/openapi.json
https://pbx.example.com/pbx/openapi.php/swagger.json
```

Authentication

Send the API key as a `key` query parameter, an `X-API-Key` header, or an `Authorization: Bearer` token. Tenant API keys require a tenant parameter. Global keys can access global administration objects and can list tenant-scoped objects across tenants when no tenant parameter is supplied.

```
curl -H "X-API-Key: TENANT_API_KEY" \
  "https://pbx.example.com/pbx/openapi.php/extensions?tenant=CANISTRACCI"

curl -H "Authorization: Bearer TENANT_API_KEY" \
  "https://pbx.example.com/pbx/openapi.php/extensions/number/100?tenant=CANISTRACCI"

curl
  "https://pbx.example.com/pbx/openapi.php/extensions?tenant=CANISTRACCI&key=TENANT_API_KEY"
```

Endpoint Patterns

Action	Pattern
List	GET https://pbx.example.com/pbx/openapi.php/extensions?tenant=CANISTRACCI
Get by ID	GET https://pbx.example.com/pbx/openapi.php/extensions/EXTENSION_ID?tenant=CANISTRACCI
Get extension by number	GET https://pbx.example.com/pbx/openapi.php/extensions/number/100?tenant=CANISTRACCI
Get live extension state	GET https://pbx.example.com/pbx/openapi.php/extensions/state?tenant=CANISTRACCI&number=100
Dial	POST https://pbx.example.com/pbx/openapi.php/dial?tenant=CANISTRACCI
Create	POST https://pbx.example.com/pbx/openapi.php/extensions?tenant=CANISTRACCI
Modify	PATCH https://pbx.example.com/pbx/openapi.php/extensions/EXTENSION_ID?tenant=CANISTRACCI
Delete	DELETE https://pbx.example.com/pbx/openapi.php/extensions/EXTENSION_ID?tenant=CANISTRACCI

Supported Objects

Each supported object has its own page in this chapter. Most configuration objects support CRUD operations. CDR, Simple CDR, and AI Analysis are read-only reporting endpoints. The examples use fictional IDs, numbers, names, and keys; replace them with values from the target PBX.

Object	Primary path	Authentication scope	Operations or required fields
Auth Token	/auth/token	Global full API key	POST generate, DELETE reset
Dial	/dial	Tenant full API key	POST only; requires source and dest
CDR	/cdrs	Tenant API key or global key; GET only	GET only
Simple CDR	/simplecdrs	Tenant API key or global key; GET only	GET only
AI Analysis	/aianalysis	Tenant API key or global key; GET only	GET only; requires uniqueid

Object	Primary path	Authentication scope	Operations or required fields
Extension	/extensions	Tenant API key	number or ex_number; GET /extensions/state for live state
Tenant	/tenants	Global API key	te_name, te_code
User	/users	Global API key	us_username
User Profile	/userprofiles	Global API key	up_name
Routing Profile	/routingprofiles	Global API key	rp_name
Provider	/providers	Global API key	pr_name
Voicemail	/voicemails	Tenant API key	mailbox
IVR	/ivrs	Tenant API key	iv_name
Custom Destination	/customdestinations	Tenant API key or global key with global=1	cu_name, cu_ct_id
Condition	/conditions	Tenant API key	co_type
Hunt List	/huntlists	Tenant API key	hu_name
DID	/dids	Tenant API key	di_number
Queue	/queues	Tenant API key	No required create field listed
Setting	/settings	Tenant API key or global key with global=1	se_code
Media File	/mediafiles	Tenant API key or global key with global=1	me_name
Music On Hold	/musiconholds	Tenant API key or global key with global=1	mu_name
Paging Group	/paginggroups	Tenant API key	pa_name, pa_number
Conference Room	/conferencerooms	Tenant API key	cr_name, cr_number
Flow	/flows	Tenant API key	fl_name
Tenant Variable	/tenantvariables	Tenant API key	tv_al_id
DISA	/disas	Tenant API key	ds_name
Caller ID Blacklist	/calleridblacklists	Tenant API key or global key with global=1	bl_callerid
Campaign	/campaigns	Tenant API key	ca_name
Campaign Number	/campaignnumbers	Tenant API key	cn_ca_id, cn_number
Cron Job	/cronjobs	Tenant API key or global key with global=1	cr_name

Object	Primary path	Authentication scope	Operations or required fields
Feature Code	/featurecodes	Tenant API key or global key with global=1	fe_code
Short Number	/shortnumbers	Tenant API key or global key with global=1	sn_number
Phone Book	/phonebooks	Tenant API key	pb_name
Phone Book Entry	/phonebookentries	Tenant API key	phonebook_id, at least one value
Provisioning Phone	/provisioningphones	Tenant API key	ph_name, ph_mac

Errors

Errors are returned as JSON with an error code and message. Common errors include `missing_api_key`, `invalid_api_key`, `tenant_not_found`, `invalid_json`, `missing_required_field`, `read_only_api_key`, `method_not_allowed`, and `not_found`.
