

# Admin REST API

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# User

## Get user authentication status

Returns information about the current authorized user.

- **URL**  
/kaaAdmin/rest/api/auth/checkAuth
- **Method:**  
GET
- **URL params**  
None
- **Data params**  
None
- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "authResult": "OK",
  "authority": "TENANT_DEVELOPER",
  "displayName": "devuser (Tenant Developer)",
  "username": "devuser"
}
```

- **Error response:**

Status codes	Description
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/auth/checkAuth" | python -mjson.tool
```

- **Example result**

```
{
  "authResult": "OK",
  "authority": "TENANT_DEVELOPER",
  "displayName": "devuser (Tenant Developer)",
  "username": "devuser"
}
```

## Create user with KAA\_ADMIN role

Creates a user with the KAA\_ADMIN role.

- **URL**  
/kaaAdmin/rest/api/auth/createKaaAdmin?username&password

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
username	string	A user name of the Kaa admin user
password	string	A user password of the Kaa admin user; it must be no shorter than 6 characters

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
403 Forbidden	A user with the KAA_ADMIN role already exists
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -X POST  
"http://localhost:8080/kaaAdmin/rest/api/auth/createKaaAdmin?username=kaa&password=kaa" | python -mjson.tool
```

## Change user password

Changes the password of a user.

- **URL**  
/kaaAdmin/rest/api/auth/changePassword?username&oldPassword&newPassword

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
username	string	A user name of the user whose password is to be changed
oldPassword	string	An old password of the user
newPassword	string	A new password of the user; it must be no shorter than 6 characters

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
"OK"
```

- **Error response:**

Status codes	Description
400 Bad Request	The specified parameters are not valid
401 Unauthorized	The user is not authenticated or invalid credentials were provided
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST  
"http://localhost:8080/kaaAdmin/rest/api/auth/changePassword?username=devuser&  
oldPassword=devuser123&newPassword=devuser12345" | python -mjson.tool
```

- [Example result](#)

```
"OK"
```

## Get user profile

Returns the user profile of the current user. Only authorized users are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/userProfile

- **Method:**

GET

- **URL params**

None

- **Data params**

None

- **Success response:**

- **Code:** 200

- [Response body](#)

**Example:**

```
{
  "authority": "TENANT_DEVELOPER",
  "externalUid": "3",
  "firstName": "Tenant",
  "id": null,
  "lastName": "Developer",
  "mail": "devuser@demoproject.org",
  "tempPassword": null,
  "tenantId": null,
  "username": "devuser"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/userProfile" | python -mjson.tool
```

- **Example result**

```
{
  "authority": "TENANT_DEVELOPER",
  "externalUid": "3",
  "firstName": "Tenant",
  "id": null,
  "lastName": "Developer",
  "mail": "devuser@demoproject.org",
  "tempPassword": null,
  "tenantId": null,
  "username": "devuser"
}
```

## Edit user profile

Edits the user profile. Only authorized users are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/userProfile

- **Method:**

POST

- **URL params**

None

- **Data params**

• [Request body](#)

### Example:

```
{ "username": "devuser", "firstName": "Dow", "lastName": "Jones", "mail": "jones@demoproject.org", "authority": "TENANT_DEVELOPER" }
```

- **Success response:**

- **Code:** 200
- **Response body**

#### Example:

```
{  
  "authority": "TENANT_DEVELOPER",  
  "externalUid": "3",  
  "firstName": "Dow",  
  "id": null,  
  "lastName": "Jones",  
  "mail": "jones@demoproject.org",  
  "tempPassword": null,  
  "tenantId": null,  
  "username": "devuser"  
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json' -d '{"username": "devuser", "firstName": "Dow", "lastName": "Jones", "mail": "jones@demoproject.org", "authority": "TENANT_DEVELOPER"}' "http://localhost:8080/kaaAdmin/rest/api/userProfile" | python -mjson.tool
```

- **Example result**

```
{  
  "authority": "TENANT_DEVELOPER",  
  "externalUid": "3",  
  "firstName": "Dow",  
  "id": null,  
  "lastName": "Jones",  
  "mail": "jones@demoproject.org",  
  "tempPassword": null,  
  "tenantId": null,  
  "username": "devuser"  
}
```

## Get all users

Returns a list of all users associated with the current authorized user: users whose Tenant ID values match the Tenant ID of the request submitter. Only users with the TENANT\_ADMIN role are allowed to submit this request.

- **URL**  
/kaaAdmin/rest/api/users

- **Method:**

GET

- **URL params**

None

- **Data params**

None

- **Success response:**

- **Code:** 200

- [Response body](#)

**Example:**

```
[
  {
    "authority": "TENANT_DEVELOPER",
    "externalUid": "3",
    "firstName": "Dow",
    "id": "21",
    "lastName": "Jones",
    "mail": "jones@demoproject.org",
    "tempPassword": null,
    "tenantId": "10",
    "username": "devuser"
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN)
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u admin:admin123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/users" | python -mjson.tool
```

[Example result](#)



```
[
  {
    "authority": "TENANT_DEVELOPER",
    "externalUid": "3",
    "firstName": "Dow",
    "id": "21",
    "lastName": "Jones",
    "mail": "jones@demoproject.org",
    "tempPassword": null,
    "tenantId": "10",
    "username": "devuser"
  }
]
```

## Get user

Returns a user. Only users with the TENANT\_ADMIN role are allowed to submit this request. The Tenant ID of requested user must be identical to the Tenant ID of the submitter.

- **URL**  
/kaaAdmin/rest/api/user/{userId}

- **Method:**  
GET

- **URL params**

Parameter	Value	Description
userId	string	The user ID of the requested user

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "authority": "TENANT_DEVELOPER",
  "externalUid": "3",
  "firstName": "Dow",
  "id": "21",
  "lastName": "Jones",
  "mail": "jones@demoproject.org",
  "tempPassword": null,
  "tenantId": "10",
  "username": "devuser"
}
```

- **Error response:**

Status codes	Description
--------------	-------------

401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN) or the Tenant ID of the requested user does not match the Tenant ID of the authenticated user
404 Not Found	The user with the specified userId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u admin:admin123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/user/21" | python -mjson.tool
```

- ▼ **Example result**

```
{
  "authority": "TENANT_DEVELOPER",
  "externalUid": "3",
  "firstName": "Dow",
  "id": "21",
  "lastName": "Jones",
  "mail": "jones@demoproject.org",
  "tempPassword": null,
  "tenantId": "10",
  "username": "devuser"
}
```

## Create/Edit user

Creates or edits a user. If a user with the specified ID does not exist, it will be created, and its Tenant ID will be set to the Tenant ID of the request submitter. A random password will be generated and sent to the user's Email. If a user with the specified ID exists, the user will be updated. Only users with the TENANT\_ADMIN role can perform this operation.

- **URL**  
/kaaAdmin/rest/api/user

- **Method:**  
POST

- **URL params**  
None

- **Data params**  
▼ **Request body**

- Example:**

```
{ "username": "chucknorris", "firstName": "Chuck", "lastName": "Norris", "mail": "norris@demoproject.org", "authority": "TENANT_USER" }
```

- **Success response:**

- **Code:** 200
  - ▼ **Response body**

- Example:**

```
{
  "authority": "TENANT_USER",
  "externalUid": "5",
  "firstName": "Chuck",
  "id": "211",
  "lastName": "Norris",
  "mail": "norris@demoproject.org",
  "tempPassword": "rmOZgpwlmorE",
  "tenantId": "10",
  "username": "chucknorris"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN) or the Tenant ID of the editing user does not match the Tenant ID of the authenticated user
404 Not Found	The user to be edited with the specified userId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create user:**

```
curl -v -S -u admin:admin123 -X POST -H 'Content-Type: application/json'
-d '{"username": "chucknorris", "firstName": "Chuck", "lastName": "Norris", "mail": "n
orris@demoproject.org", "authority": "TENANT_USER"}'
"http://localhost:8080/kaaAdmin/rest/api/user" | python -mjson.tool
```

- ▼ **Example result**

```
{
  "authority": "TENANT_USER",
  "externalUid": "5",
  "firstName": "Chuck",
  "id": "211",
  "lastName": "Norris",
  "mail": "norris@demoproject.org",
  "tempPassword": "rmOZgpwlmorE",
  "tenantId": "10",
  "username": "chucknorris"
}
```

- **Sample call to edit user:**

```
curl -v -S -u admin:admin123 -X POST -H 'Content-Type: application/json'
-d '{"id": "211", "username": "chuck", "firstName": "Chuck", "lastName": "Norris", "mai
l": "chacknorris@demoproject.org", "authority": "TENANT_USER"}'
"http://localhost:8080/kaaAdmin/rest/api/user" | python -mjson.tool
```

▼ Example result

```
{
  "authority": "TENANT_USER",
  "externalUid": "7",
  "firstName": "Chuck",
  "id": "211",
  "lastName": "Norris",
  "mail": "chacknorris@demoproject.org",
  "tempPassword": "rmOZgpwlmorE",
  "tenantId": "10",
  "username": "chuck"
}
```

## Tenant

### Get all tenants

Returns all tenants existing in the system. Only Kaa admin is allowed to submit this request.

- **URL**

/kaaAdmin/rest/api/tenants

- **Method:**

GET

- **URL params**

None

- **Data params**

None

- **Success response:**

- **Code: 200**

- ▼ **Response body**

**Example:**

```
[
  {
    "authority": "TENANT_ADMIN",
    "externalUid": "2",
    "firstName": "Tenant",
    "id": "20",
    "lastName": "Admin",
    "mail": "admin@demoproject.org",
    "tempPassword": null,
    "tenantId": "10",
    "tenantName": "Demo Tenant",
    "username": "admin"
  }
]
```

- **Error response:**

---

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the KAA_ADMIN role
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u kaa:kaa123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/tenants" | python -mjson.tool
```

- ▼ **Example result**

```
[
  {
    "authority": "TENANT_ADMIN",
    "externalUid": "2",
    "firstName": "Tenant",
    "id": "20",
    "lastName": "Admin",
    "mail": "admin@demoproject.org",
    "tempPassword": null,
    "tenantId": "10",
    "tenantName": "Demo Tenant",
    "username": "admin"
  }
]
```

## Get tenant

Returns tenant by associated userId.

- **URL**  
/kaaAdmin/rest/api/tenant/{userId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
userId	string	The ID of the user associated with the requested tenant

- **Data params**

None

- **Success response:**

- **Code:** 200
- ▼ **Response body**

**Example:**

```
{
  "authority": "TENANT_ADMIN",
  "externalUid": "2",
  "firstName": "Tenant",
  "id": "20",
  "lastName": "Admin",
  "mail": "admin@demoproject.org",
  "tempPassword": null,
  "tenantId": "10",
  "tenantName": "Demo Tenant",
  "username": "admin"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the KAA_ADMIN role
404 Not Found	A tenant with the specified userId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u kaa:kaa123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/tenant/20" | python -mjson.tool
```

▼ **Example result**

```
{
  "authority": "TENANT_ADMIN",
  "externalUid": "2",
  "firstName": "Tenant",
  "id": "20",
  "lastName": "Admin",
  "mail": "admin@demoproject.org",
  "tempPassword": null,
  "tenantId": "10",
  "tenantName": "Demo Tenant",
  "username": "admin"
}
```

## Create/Edit tenant

Creates or edits a tenant. If a tenant with the specified ID does not exist, it will be created. If a tenant with the specified ID exists, it will be updated.

- **URL**  
/kaaAdmin/rest/api/tenant
- **Method:**  
POST

- **URL params**

None

- **Data params**

- [Request body](#)

**Example:**

```
{ "tenantName": "Demo Tenant 2", "username": "admin2", "authority": "TENANT_ADMIN", "mail": "admin2@demoproject.org" }
```

- **Success response:**

- **Code:** 200

- [Response body](#)

**Example:**

```
{  "authority": "TENANT_ADMIN",  "externalUid": "4",  "firstName": null,  "id": "210",  "lastName": null,  "mail": "admin2@demoproject.org",  "tempPassword": "at28lc23Nhxm",  "tenantId": "200",  "tenantName": "Demo Tenant 2",  "username": "admin2" }
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the KAA_ADMIN role
404 Not Found	A tenant with the specified userId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create tenant:**

```
curl -v -S -u kaa:kaa123 -X POST -H 'Content-Type: application/json' -d '{"tenantName": "Demo Tenant 2", "username": "admin2", "authority": "TENANT_ADMIN", "mail": "admin2@demoproject.org"}' "http://localhost:8080/kaaAdmin/rest/api/tenant" | python -mjson.tool
```

- [Example result](#)

```
{
  "authority": "TENANT_ADMIN",
  "externalUid": "4",
  "firstName": null,
  "id": "210",
  "lastName": null,
  "mail": "admin2@demoproject.org",
  "tempPassword": "at28lc23Nhxm",
  "tenantId": "200",
  "tenantName": "Demo Tenant 2",
  "username": "admin2"
}
```

- **Sample call to edit tenant:**

```
curl -v -S -u kaa:kaa123 -X POST -H 'Content-Type: application/json'
-d '{"id": "210", "tenantId": "200", "tenantName": "Demo Tenant
2", "username": "admin3", "authority": "TENANT_ADMIN", "mail": "admin2@demoproject.o
rg"}' "http://localhost:8080/kaaAdmin/rest/api/tenant" | python -mjson.tool
```

▼ **Example result**

```
{
  "authority": "TENANT_ADMIN",
  "externalUid": "4",
  "firstName": null,
  "id": "210",
  "lastName": null,
  "mail": "admin2@demoproject.org",
  "tempPassword": "at28lc23Nhxm",
  "tenantId": "200",
  "tenantName": "Demo Tenant 2",
  "username": "admin3"
}
```

## Delete tenant

Deletes a tenant by associated User ID.

- **URL**  
/kaaAdmin/rest/api/delTenant?userId

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
userId	string	The ID of the user associated with the tenant to be deleted

- **Data params**  
None
- **Success response:**
  - **Code:** 200



- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the KAA_ADMIN role
404 Not Found	A tenant with the specified userId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u kaa:kaa123 -X POST  
"http://localhost:8080/kaaAdmin/rest/api/delTenant?userId=210" | python  
-mjson.tool
```

## Application

### Get all applications

Returns all applications for the current authorized user within the current tenant. The current user must have one of the following roles: TENANT\_ADMIN, TENANT\_DEVELOPER, or TENANT\_USER.

- **URL**

/kaaAdmin/rest/api/applications

- **Method:**

GET

- **URL params**

None

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Response body**

**Example:**



```
[
  {
    "applicationToken": "358849227911747",
    "id": "70",
    "name": "Player",
    "sequenceNumber": 2,
    "tenantId": "10"
  },
  {
    "applicationToken": "989414255707149",
    "id": "71",
    "name": "Smart House",
    "sequenceNumber": 2,
    "tenantId": "10"
  },
  {
    "applicationToken": "561087972707255",
    "id": "72",
    "name": "Test Flume Appender",
    "sequenceNumber": 2,
    "tenantId": "10"
  }
]
```

## Get application

Returns an application by application ID.

As of release 0.9.0 this method is deprecated, replaced by [Get application by it's token](#).

- **URL**  
/kaaAdmin/rest/api/application/{applicationId}

- **Method:**  
GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "applicationToken": "989414255707149",
  "id": "71",
  "name": "Smart House",
  "sequenceNumber": 2,
  "tenantId": "10"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN, TENANT_DEVELOPER, or TENANT_USER) or Tenant ID of the application does not match the Tenant ID of the user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/application/71" | python -mjson.tool
```

- **Example result**

```
{
  "applicationToken": "989414255707149",
  "id": "71",
  "name": "Smart House",
  "sequenceNumber": 2,
  "tenantId": "10"
}
```

## Get application by its token

Returns an application by applicationToken

- **URL**  
/kaaAdmin/rest/api/application/token/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "applicationToken": "989414255707149",
  "id": "71",
  "name": "Smart House",
  "sequenceNumber": 2,
  "tenantId": "10"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN, TENANT_DEVELOPER, or TENANT_USER) or Tenant ID of the application does not match the Tenant ID of the user
404 Not Found	An application with the specified applicationToken does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/application/token/989414255707149" |
python -mjson.tool
```

▼ **Example result**

```
{
  "applicationToken": "989414255707149",
  "id": "71",
  "name": "Smart House",
  "sequenceNumber": 2,
  "tenantId": "10"
}
```

## Create/Edit application

Creates or edits an application. If the application with the specified ID does not exist, it will be created. If the application with the specified ID exists, it will be updated. Only users with the TENANT\_ADMIN role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/application

- **Method:**

POST

- **URL params**

None

- **Data params**

▼ [Request body](#)

**Example:**

```
{"name": "Application 1", "tenantId": "10"}
```

- **Success response:**

- **Code:** 200

- ▼ [Response body](#)

**Example:**

```
{  "applicationToken": "094302219096310",  "id": "220",  "name": "Application 1",  "sequenceNumber": 0,  "tenantId": "10"}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN) or the Tenant ID of the application to be edited does not match the Tenant ID of the user
404 Not Found	An application to be edited with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create application:**

```
curl -v -S -u admin:admin123 -X POST -H 'Content-Type: application/json' -d '{"name": "Application 1", "tenantId": "10"}' "http://localhost:8080/kaaAdmin/rest/api/application" | python -mjson.tool
```

▼ [Example result](#)

```
{  "applicationToken": "094302219096310",  "id": "220",  "name": "Application 1",  "sequenceNumber": 0,  "tenantId": "10"}
```

- **Sample call to edit application:**

```
curl -v -S -u admin:admin123 -X POST -H 'Content-Type: application/json'
-d '{"id": "220", "applicationToken": "094302219096310", "name": "Application 1
v2", "tenantId": "10"}' "http://localhost:8080/kaaAdmin/rest/api/application" |
python -mjson.tool
```

▼ Example result

```
{
  "applicationToken": "094302219096310",
  "id": "220",
  "name": "Application 1 v2",
  "sequenceNumber": 0,
  "tenantId": "10"
}
```

## Common Type Library

### Create CTL schema

Creates a CTL schema. Only authorized users are allowed to perform this operation.

As of release 0.9.0 this method is deprecated, replaced by [Create CTL schema with application token](#).

- **URL**  
/kaaAdmin/rest/api/CTL/saveSchema

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
body	string	The CTL schema structure
tenantId	string	The ID of the tenant
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- ▼ [Response body](#)

**Example:**

```
{
  "body": "{\n  \"type\" : \"record\",\n  \"name\" :
  \"ExampleSchema\",\n  \"namespace\" :
  \"org.kaaproject.kaa.examples\",\n  \"version\" : 1,\n  \"fields\" : [
  {\n    \"type\" : \"int\",\n    \"name\" : \"exampleField\"\n  }
  ]\n}",
  "createdTime": 1456133956680,
  "createdUsername": null,
  "defaultRecord": "{\"exampleField\":0}",
  "dependencySet": [],
  "id": "530",
  "metaInfo": {
    "applicationId": null,
    "fqm": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "520",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}
```

- **Error response:**

Status codes	Description
400 Bad Request	The CTL schema body provided is invalid
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/CTL/saveSchema" -d
"body={\"type\": \"record\", \"name\": \"ExampleSchema\", \"namespace\": \"org.kaaproject.kaa.examples\", \"version\": 1, \"fields\": [{\"type\": \"int\", \"name\": \"exampleField\"}]}&tenantId=1" | python -mjson.tool
```

- ▼ [Example result](#)



```

{
  "body": "{\n  \"type\" : \"record\",\n  \"name\" : \"ExampleSchema\",\n  \"namespace\" : \"org.kaaproject.kaa.examples\",\n  \"version\" : 1,\n  \"fields\" : [ {\n    \"type\" : \"int\",\n    \"name\" :\n  \"exampleField\"\n  } ]\n}",
  "createdTime": 1456133956680,
  "createdUsername": null,
  "defaultRecord": "{ \"exampleField\":0}",
  "dependencySet": [],
  "id": "530",
  "metaInfo": {
    "applicationId": null,
    "fqm": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "520",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}

```

## Create CTL schema with application token

Creates a CTL schema with application token. Only authorized users are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/CTL/appToken/saveSchema

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
body	string	The CTL schema structure
tenantId	string	The ID of the tenant
applicationToken	string	The token of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "body": "{\n  \"type\" : \"record\",\n  \"name\" :
  \"ExampleSchema\",\n  \"namespace\" :
  \"org.kaaproject.kaa.examples\",\n  \"version\" : 1,\n  \"fields\" : [
  {\n    \"type\" : \"int\",\n    \"name\" : \"exampleField\"\n  }
  ]\n}",
  "createdTime": 1461593071006,
  "createdUsername": null,
  "defaultRecord": "{ \"exampleField\":0 }",
  "dependencySet": [],
  "id": "32772",
  "metaInfo": {
    "applicationId": "5",
    "fqm": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "32771",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}
```

- **Error response:**

Status codes	Description
400 Bad Request	The CTL schema body provided is invalid
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/CTL/appToken/saveSchema" -d
"body={\"type\": \"record\", \"name\": \"ExampleSchema\", \"namespace\": \"org.kaaproject.kaa.examples\", \"version\": 1, \"fields\": [{\"type\": \"int\", \"name\": \"exampleField\"}]}&tenantId=1&applicationToken=93185465951671258176" | python
-mjson.tool
```

- ▼ [Example result](#)

```

{
  "body": "{\n  \"type\" : \"record\",\n  \"name\" : \"ExampleSchema\",\n  \"namespace\" : \"org.kaaproject.kaa.examples\",\n  \"version\" : 1,\n  \"fields\" : [ {\n    \"type\" : \"int\",\n    \"name\" :\n  \"exampleField\"\n  } ]\n}",
  "createdTime": 1461593071006,
  "createdUsername": null,
  "defaultRecord": "{ \"exampleField\":0}",
  "dependencySet": [],
  "id": "32772",
  "metaInfo": {
    "applicationId": "5",
    "fqcn": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "32771",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}

```

## Delete CTL schema

Deletes a CTL schema. Only authorized users are allowed to perform this operation.

As of release 0.9.0 this method is deprecated, replaced by [Delete CTL schema with application token](#).

- **URL**  
/kaaAdmin/rest/api/CTL/deleteSchema?fqcn={fqcn}&version={version}&tenantId={tenantId}&applicationId={applicationId}

- **Method:**

POST

- **URL params**

Parameter	Value	Description
fqcn	string	The fully qualified name of the CTL schema
version	integer	The version number of the CTL schema
tenantId	string	The ID of the tenant
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
404 Not Found	A CTL schema with the specified fully qualified name, version number, tenant and application identifiers does not exist

500 Internal Server Error	An unexpected error occurred on the server side
---------------------------	---

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/CTL/deleteSchema?fqn=org.kaaproject.kaa.examples.ExampleSchema&version=1&tenantId=1" | python -mjson.tool
```

## Delete CTL schema with application token

Deletes a CTL schema with application token. Only authorized users are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/CTL/appToken/deleteSchema?fqn={fqn}&version={version}&tenantId={tenantId}&applicationToken={applicationToken}

- **Method:**

POST

- **URL params**

Parameter	Value	Description
fqn	string	The fully qualified name of the CTL schema
version	integer	The version number of the CTL schema
tenantId	string	The ID of the tenant
applicationToken	string	The token of the application

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
404 Not Found	A CTL schema with the specified fully qualified name, version number, tenant and application identifiers does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/CTL/appToken/deleteSchema?fqn=org.kaaproject.kaa.examples.ExampleSchema&version=1&tenantId=1&applicationToken=93185465951671258176" | python -mjson.tool
```

## Get CTL schema

Returns a CTL schema. Only authorized users are allowed to perform this operation.

As of release 0.9.0 this method is deprecated, replaced by [Get CTL schema with application token](#).

- **URL**  
/kaaAdmin/rest/api/CTL/getSchema?fqn={fqn}&version={version}&tenantId={tenantId}&applicationId={applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
fqn	string	The fully qualified name of the CTL schema
version	integer	The version number of the CTL schema
tenantId	string	The ID of the tenant
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
{
  "body": "{\n  \"type\" : \"record\",\n  \"name\" :\n  \"ExampleSchema\",\n  \"namespace\" :\n  \"org.kaaproject.kaa.examples\",\n  \"version\" : 1,\n  \"fields\" : [\n    {\n      \"type\" : \"int\",\n      \"name\" : \"exampleField\"\n    }\n  ]\n}",
  "createdTime": 1456135829812,
  "createdUsername": null,
  "defaultRecord": "{ \"exampleField\": 0 }",
  "dependencySet": [],
  "id": "531",
  "metaInfo": {
    "applicationId": null,
    "fqn": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "521",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
404 Not Found	A CTL schema with the specified fully qualified name and version number does not exist.

500 Internal Server Error An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/CTL/getSchema?fqn=org.kaaproject.kaa.
examples.ExampleSchema&version=1&tenantId=1" | python -mjson.tool
```

- **Example result**

```
{
  "body": "{\n  \"type\" : \"record\",\n  \"name\" : \"ExampleSchema\",\n  \"namespace\" : \"org.kaaproject.kaa.examples\",\n  \"version\" : 1,\n  \"fields\" : [ {\n    \"type\" : \"int\",\n    \"name\" :\n  \"exampleField\"\n  } ]\n}",
  "createdTime": 1456135829812,
  "createdUsername": null,
  "defaultRecord": "{ \"exampleField\":0}",
  "dependencySet": [],
  "id": "531",
  "metaInfo": {
    "applicationId": null,
    "fqn": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "521",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}
```

## Get CTL schema with application token

Returns a CTL schema with application token. Only authorized users are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/CTL/appToken/getSchema?fqn={fqn}&version={version}&tenantId={tenantId}&applicationToken={applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
fqn	string	The fully qualified name of the CTL schema
version	integer	The version number of the CTL schema
tenantId	string	The ID of the tenant
applicationToken	string	The token of the application

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Response body**

**Example:**

```
{
  "body": "{\n  \"type\" : \"record\",\n  \"name\" :  
\"ExampleSchema\",\n  \"namespace\" :  
\"org.kaaproject.kaa.examples\",\n  \"version\" : 1,\n  \"fields\" : [  
{\n    \"type\" : \"int\",\n    \"name\" : \"exampleField\"\n  }  
]\n}",
  "createdTime": 1461594787719,
  "createdUsername": null,
  "defaultRecord": "{\"exampleField\":0}",
  "dependencySet": [],
  "id": "531",
  "metaInfo": {
    "applicationId": "5",
    "fqm": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "32772",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}
```

• **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
404 Not Found	A CTL schema with the specified fully qualified name and version number does not exist.
500 Internal Server Error	An unexpected error occurred on the server side

• **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET  
"http://localhost:8080/kaaAdmin/rest/api/CTL/appToken/getSchema?fqm=org.kaapro  
ject.kaa.examples.ExampleSchema&version=1&tenantId=1&applicationToken=93185465  
951671258176" | python -mjson.tool
```

▼ [Example result](#)

```

{
  "body": "{\n  \"type\" : \"record\",\n  \"name\" : \"ExampleSchema\",\n  \"namespace\" : \"org.kaaproject.kaa.examples\",\n  \"version\" : 1,\n  \"fields\" : [ {\n    \"type\" : \"int\",\n    \"name\" :\n  \"exampleField\"\n  } ]\n}",
  "createdTime": 1461594787719,
  "createdUsername": null,
  "defaultRecord": "{\"exampleField\":0}",
  "dependencySet": [],
  "id": "531",
  "metaInfo": {
    "applicationId": "5",
    "fqcn": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "32772",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}

```

## Check CTL schema FQN

Checks if CTL schema with same fqcn is already exists in the sibling application. Only authorized users are allowed to perform this operation.

As of release 0.9.0 this method is deprecated, replaced by [Check CTL schema FQN with application token](#).

- **URL**  
/kaaAdmin/rest/api/CTL/checkFqn?fqcn={fqcn}&tenantId={tenantId}&applicationId={applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
fqcn	string	The fully qualified name of the CTL schema
tenantId	string	The ID of the tenant
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

true

- **Error response:**

Status codes	Description
--------------	-------------



401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/CTL/checkFqn?fqn=org.kaaproject.kaa.e
xamples.ExampleSchema&tenantId=1&applicationId=5" | python -mjson.tool
```

- ▼ **Example result**

```
true
```

## Check CTL schema FQN with application token

Checks if CTL schema with same fqn is already exists in the sibling application with application token. Only authorized users are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/CTL/appToken/checkFqn?fqn={fqn}&tenantId={tenantId}&applicationToken={applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
fqn	string	The fully qualified name of the CTL schema
tenantId	string	The ID of the tenant
applicationToken	string	The token of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- ▼ **Response body**

**Example:**

```
true
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/CTL/appToken/checkFqn?fqn=org.kaaproj
ect.kaa.examples.ExampleSchema&tenantId=1&applicationToken=9318546595167125817
6" | python -mjson.tool
```

▼ Example result

```
true
```

## Promote CTL schema from application scope to Tenant

Promote existing CTL schema meta info scope from application to tenant. Only authorized users are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/CTL/promoteScopeToTenant?fqn={fqn}&applicationId={applicationId}

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
fqn	string	The fully qualified name of the CTL schema
applicationId	string	The ID of the application

- **Data params**  
None

- **Success response:**

- **Code:** 200
- ▼ **Response body**

**Example:**

```
{
  "applicationId": null,
  "fqn": "org.kaaproject.kaa.examples.ExampleSchema",
  "id": "522",
  "tenantId": "70",
  "versions": null
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The Tenant ID of the CTL schema does not match the Tenant ID of the authenticated user
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/CTL/promoteScopeToTenant?fqn=org.kaaproject.kaa.examples.ExampleSchema&applicationId=5" | python -mjson.tool
```

▼ Example result

```
{
  "applicationId": null,
  "fqn": "org.kaaproject.kaa.examples.ExampleSchema",
  "id": "522",
  "tenantId": "70",
  "versions": null
}
```

## Get system CTL schemas

Returns a list of available system CTL schemas metadata. Only authorized users are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/CTL/getSystemSchemas

- **Method:**  
GET

- **URL params**  
None

- **Data params**  
None

- **Success response:**

- **Code:** 200
- ▼ **Response body**

**Example:**

```
[
  {
    "applicationId": null,
    "fqn": "org.kaaproject.kaa.schema.system.EmptyData",
    "id": "130",
    "tenantId": null,
    "versions": [
      1
    ]
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided

500 Internal Server Error	An unexpected error occurred on the server side
---------------------------	---

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/CTL/getSystemSchemas" | python
-mjson.tool
```

- **Example result**

```
[
  {
    "applicationId": null,
    "fqm": "org.kaaproject.kaa.schema.system.EmptyData",
    "id": "130",
    "tenantId": null,
    "versions": [
      1
    ]
  }
]
```

## Get tenant CTL schemas

Returns a list of available CTL schemas metadata for current tenant. Only authorized users are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/CTL/getTenantSchemas

- **Method:**

GET

- **URL params**

None

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**



```
[
  {
    "applicationId": null,
    "fqm": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "522",
    "tenantId": "70",
    "versions": [
      1
    ]
  },
  {
    "applicationId": null,
    "fqm": "org.kaaproject.kaa.schema.system.EmptyData",
    "id": "130",
    "tenantId": null,
    "versions": [
      1
    ]
  }
]
```

## Get application CTL schemas

Returns a list of available CTL schemas metadata for an application. Only authorized users are allowed to perform this operation.

As of release 0.9.0 this method is deprecated, replaced by [Get application CTL schemas by application Token](#).

- **URL**  
/kaaAdmin/rest/api/CTL/getApplicationSchemas/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "applicationId": "5",
    "fqm": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "32773",
    "tenantId": "1",
    "versions": [
      1
    ]
  },
  {
    "applicationId": null,
    "fqm": "org.kaaproject.kaa.schema.system.EmptyData",
    "id": "1",
    "tenantId": null,
    "versions": [
      1
    ]
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER, or TENANT_USER) or Tenant ID of the application does not match the Tenant ID of the user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/CTL/getApplicationSchemas/5" | python
-mjson.tool
```

- ▼ [Example result](#)

```
[
  {
    "applicationId": "5",
    "fqm": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "32773",
    "tenantId": "1",
    "versions": [
      1
    ]
  },
  {
    "applicationId": null,
    "fqm": "org.kaaproject.kaa.schema.system.EmptyData",
    "id": "1",
    "tenantId": null,
    "versions": [
      1
    ]
  }
]
```

## Get application CTL schemas by application Token

Returns a list of available CTL schemas metadata for an application based on application token. Only authorized users are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/CTL/appToken/getApplicationSchemas/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**





```
[
  {
    "applicationId": "5",
    "fqcn": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "32773",
    "tenantId": "1",
    "versions": [
      1
    ]
  },
  {
    "applicationId": null,
    "fqcn": "org.kaaproject.kaa.schema.system.EmptyData",
    "id": "1",
    "tenantId": null,
    "versions": [
      1
    ]
  }
]
```

### Export CTL schema

Exports a CTL schema and, depending on the export method specified, all of its dependencies. Only authorized users are allowed to perform this operation.

As of release 0.9.0 this method is deprecated, replaced by [Export CTL schema with application token](#).

- **URL**  
/kaaAdmin/rest/api/CTL/exportSchema?fqcn={fqcn}&version={version}&method={method}&applicationId={applicationId}

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
fqcn	string	The fully qualified name of the CTL schema
version	integer	The version number of the CTL schema
method	string	The schema export method (either SHALLOW, FLAT, DEEP or LIBRARY)
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- **CTL schema file data:** application/json - for SHALLOW or FLAT; application/zip - for DEEP; application/java-archive - for LIBRARY.

- **Error response:**

Status codes	Description
--------------	-------------

400 Bad Request	Unknown export method specified
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	The CTL schema with the given fqcn, version and application Id does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/CTL/exportSchema?fqcn=org.kaaproject.kaa.examples.ExampleSchema&version=1&method=SHALLOW&applicationId=5"
```

## Export CTL schema with application token

Exports a CTL schema with application token and, depending on the export method specified, all of its dependencies. Only authorized users are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/CTL/appToken/exportSchema?fqcn={fqcn}&version={version}&method={method}&applicationToken={applicationToken}

- **Method:**

POST

- **URL params**

Parameter	Value	Description
fqcn	string	The fully qualified name of the CTL schema
version	integer	The version number of the CTL schema
method	string	The schema export method (either SHALLOW, FLAT, DEEP or LIBRARY)
applicationToken	string	The token of the application

- **Data params**

None

- **Success response:**

- **Code:** 200
- **CTL schema file data:** application/json - for SHALLOW or FLAT; application/zip - for DEEP; application/java-archive - for LIBRARY.

- **Error response:**

Status codes	Description
400 Bad Request	Unknown export method specified
401 Unauthorized	The user is not authenticated or invalid credentials were provided

403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	The CTL schema with the given fqcn, version and application Id does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/CTL/appToken/exportSchema?fqcn=org.kaa
project.kaa.examples.ExampleSchema&version=1&method=SHALLOW&applicationToken=9
3185465951671258176"
```

## SDK profiles

### Create SDK profile

Creates an SDK profile for further endpoint SDK generation. (Requires TENANT\_DEVELOPER or TENANT\_USER to perform this operation).

- **URL**  
/kaaAdmin/rest/api/createSdkProfile

- **Method:**  
POST

- **URL params**  
None

- **Data params**  
  - ▼ Request body

**Example:**

```
{ "applicationId": "115", "configurationSchemaVersion": 2,
  "logSchemaVersion": 1, "name": "Example", "notificationSchemaVersion": 1,
  "profileSchemaVersion": 0 }'
```

- **Success response:**

- **Code:** 200
- ▼ **Response body**  
**Example:**

```
{
  "aefMapIds": [],
  "applicationId": "115",
  "applicationToken": "17497963573225574853",
  "configurationSchemaVersion": 2,
  "createdTime": 1455817115823,
  "createdUsername": "devuser",
  "defaultVerifierToken": null,
  "endpointCount": 0,
  "id": "490",
  "logSchemaVersion": 1,
  "name": "Example",
  "notificationSchemaVersion": 1,
  "profileSchemaVersion": 0,
  "token": "7cxPLrAmsdGFU-3EIR5r3I5mgnI"
}
```

- **Error response:**

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d'{ "applicationId": "115", "configurationSchemaVersion": 2,
"logSchemaVersion": 1, "name": "Example", "notificationSchemaVersion": 1,
"profileSchemaVersion": 0 }'
"http://localhost:8080/kaaAdmin/rest/api/createSdkProfile" | python
-mjson.tool
```

▼ **Example result**

```
{
  "aefMapIds": [],
  "applicationId": "115",
  "applicationToken": "17497963573225574853",
  "configurationSchemaVersion": 2,
  "createdTime": 1455817115823,
  "createdUsername": "devuser",
  "defaultVerifierToken": null,
  "endpointCount": 0,
  "id": "490",
  "logSchemaVersion": 1,
  "name": "Example",
  "notificationSchemaVersion": 1,
  "profileSchemaVersion": 0,
  "token": "7cxPLrAmsdGFU-3EIR5r3I5mgnI"
}
```

## Delete SDK profile

Deletes an SDK profile from the database. (Requires TENANT\_DEVELOPER or TENANT\_USER to perform this operation).

- **URL**  
/kaaAdmin/rest/api/deleteSdkProfile?sdkProfileId={sdkProfileId}

- **Method:**

POST

- **URL params**

Parameter	Value	Description
sdkProfileId	string	An SDK profile ID

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	The SDK profile with the specified ID does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST  
"http://localhost:8080/kaaAdmin/rest/api/deleteSdkProfile?sdkProfileId=490"
```

## Get SDK profiles for application

Returns a list of SDK profiles for the given application. (Requires TENANT\_DEVELOPER or TENANT\_USER to request this information).

As of release 0.9.0 this method is deprecated, replaced by [Get SDK profiles for application based on application token](#).

- **URL**  
/kaaAdmin/rest/api/sdkProfiles/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	An application ID

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
[
  {
    "aefMapIds": [],
    "applicationId": "5",
    "applicationToken": "93185465951671258176",
    "configurationSchemaVersion": 1,
    "createdTime": 1461254330105,
    "createdUsername": "devuser",
    "defaultVerifierToken": null,
    "endpointCount": 0,
    "id": "5",
    "logSchemaVersion": 2,
    "name": null,
    "notificationSchemaVersion": 1,
    "profileSchemaVersion": 0,
    "token": "M66PcrZWJ3yMcWohoeucsARB2Ns"
  }
]
```

• **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	The application with the specified ID does not exist
500 Internal Server Error	An unexpected error occurred on the server side

• **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/sdkProfiles/5" | python -mjson.tool
```

[Example result](#)

```
[
  {
    "aefMapIds": [],
    "applicationId": "5",
    "applicationToken": "93185465951671258176",
    "configurationSchemaVersion": 1,
    "createdTime": 1461254330105,
    "createdUsername": "devuser",
    "defaultVerifierToken": null,
    "endpointCount": 0,
    "id": "5",
    "logSchemaVersion": 2,
    "name": null,
    "notificationSchemaVersion": 1,
    "profileSchemaVersion": 0,
    "token": "M66PcrZWJ3yMcWohoeucsaRB2Ns"
  }
]
```

## Get SDK profiles for application based on application token

Returns a list of SDK profiles for the given application based on application token. (Requires TENANT\_DEVELOPER or TENANT\_USER to request this information).

- **URL**  
/kaaAdmin/rest/api/sdkProfilesByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	An application Token

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**



```
[
  {
    "aefMapIds": [],
    "applicationId": "5",
    "applicationToken": "93185465951671258176",
    "configurationSchemaVersion": 1,
    "createdTime": 1461254330105,
    "createdUsername": "devuser",
    "defaultVerifierToken": null,
    "endpointCount": 0,
    "id": "5",
    "logSchemaVersion": 2,
    "name": null,
    "notificationSchemaVersion": 1,
    "profileSchemaVersion": 0,
    "token": "M66PcrZWJ3yMcWohoeucsARB2Ns"
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	The application with the specified ID does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/sdkProfilesByAppToken/931854659516712
58176" | python -mjson.tool
```

- ▼ [Example result](#)

```
[
  {
    "aefMapIds": [],
    "applicationId": "5",
    "applicationToken": "93185465951671258176",
    "configurationSchemaVersion": 1,
    "createdTime": 1461254330105,
    "createdUsername": "devuser",
    "defaultVerifierToken": null,
    "endpointCount": 0,
    "id": "5",
    "logSchemaVersion": 2,
    "name": null,
    "notificationSchemaVersion": 1,
    "profileSchemaVersion": 0,
    "token": "M66PcrZWJ3yMcWohoeucsaRB2Ns"
  }
]
```

## Get specific SDK profile

Returns the SDK profile by its identifier. (Requires TENANT\_DEVELOPER or TENANT\_USER to request this information).

- **URL**

/kaaAdmin/rest/api/sdkProfile/{sdkProfileId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
sdkProfileId	string	An SDK profile ID

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "aefMapIds": [],
  "applicationId": "115",
  "applicationToken": "17497963573225574853",
  "configurationSchemaVersion": 2,
  "createdTime": 1455817115823,
  "createdUsername": "devuser",
  "defaultVerifierToken": null,
  "endpointCount": 0,
  "id": "490",
  "logSchemaVersion": 1,
  "name": "Example",
  "notificationSchemaVersion": 1,
  "profileSchemaVersion": 0,
  "token": "7cxPLrAmsdGFU-3EIR5r3I5mgnI"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	The SDK profile with the specified ID does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/sdkProfile/490" | python -mjson.tool
```

▼ [Example result](#)

```

{
  "aefMapIds": [],
  "applicationId": "115",
  "applicationToken": "17497963573225574853",
  "configurationSchemaVersion": 2,
  "createdTime": 1455817115823,
  "createdUsername": "devuser",
  "defaultVerifierToken": null,
  "endpointCount": 0,
  "id": "490",
  "logSchemaVersion": 1,
  "name": "Example",
  "notificationSchemaVersion": 1,
  "profileSchemaVersion": 0,
  "token": "7cxPLrAmsdGFU-3EIR5r3I5mgnI"
}

```

## Generate endpoint SDK

Generates the endpoint SDK based on the SDK profile. (Requires TENANT\_DEVELOPER or TENANT\_USER to perform this operation).

- **URL**  
/kaaAdmin/rest/api/sdk?sdkProfileId={sdkProfileId}&targetPlatform={targetPlatform}

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
sdkProfileId	string	The SDK profile's ID
targetPlatform	string	The target platform's name (either JAVA, ANDROID, CPP, C or OBJC)

- **Data params**

None

- **Success response:**

- **Code:** 200
- **SDK file raw data**

- **Error response:**

Status codes	Description
400 Bad Request	An unknown target platform was specified
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	The SDK profile with the given ID does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call** (for android or java client file extension must be .jar):

```
curl -v -o dir_to_sdk/sdk_name.jar -S -u devuser:devuser123 -X POST
"http://127.0.0.1:8080/kaaAdmin/rest/api/sdk?sdkProfileId=210&targetPlatform=ANDROID"
```

for another platforms extension must be .tar.gz:

```
curl -v -o sdk_name.tar.gz -S -u devuser:devuser123 -X POST
"http://10.2.1.65:8080/kaaAdmin/rest/api/sdk?sdkProfileId=820&targetPlatform=CPP"
```

## Profiling

### Get client-side endpoint profile schemas

Returns the client-side endpoint profile schemas for an application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information. A users can only request schemas for applications associated with the same user.

As of release 0.9.0 this method is deprecated, replaced by [Get client-side endpoint profile schemas by application token](#).

- **URL**  
/kaaAdmin/rest/api/profileSchemas/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	the ID of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329248,
    "createdUsername": "admin",
    "ctlSchemaId": "1",
    "description": null,
    "id": "10",
    "name": "Generated",
    "version": 0
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/profileSchemas/5" | python
-mjson.tool
```

▼ **Example result**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329248,
    "createdUsername": "admin",
    "ctlSchemaId": "1",
    "description": null,
    "id": "10",
    "name": "Generated",
    "version": 0
  }
]
```

## Get client-side endpoint profile schemas by application token

Returns the client-side endpoint profile schemas for an application based on application token. Only users with the TENANT\_DEVELOPER or

TENANT\_USER role are allowed to request this information. A users can only request schemas for applications associated with the same user.

- **URL**  
/kaaAdmin/rest/api/profileSchemasByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	the token of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329248,
    "createdUsername": "admin",
    "ctlSchemaId": "1",
    "description": null,
    "id": "10",
    "name": "Generated",
    "version": 0
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/profileSchemasByAppToken/931854659516
71258176" | python -mjson.tool
```

[Example result](#)

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329248,
    "createdUsername": "admin",
    "ctlSchemaId": "1",
    "description": null,
    "id": "10",
    "name": "Generated",
    "version": 0
  }
]
```

## Get client-side endpoint profile schema

Returns the client-side endpoint profile schema by Profile Schema ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/profileSchema/{profileSchemaId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
profileSchemaId	string	the ID of the client-side endpoint profile schema

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "applicationId": "404",
  "createdTime": 1455895447620,
  "createdUsername": "devuser",
  "ctlSchemaId": "142",
  "description": "Profile schema describing city guide application profile",
  "id": "451",
  "name": "City guide profile schema",
  "version": 1
}
```

- **Error response:**

Status codes	Description
--------------	-------------



401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the profile schema does not match the Tenant ID of the authenticated user
404 Not Found	Client-side endpoint profile schema with the specified profileSchemaId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/profileSchema/451" | python
-mjson.tool
```

- ▼ **Example result**

```
{
  "applicationId": "404",
  "createdTime": 1455895447620,
  "createdUsername": "devuser",
  "ctlSchemaId": "142",
  "description": "Profile schema describing city guide application
profile",
  "id": "451",
  "name": "City guide profile schema",
  "version": 1
}
```

## Create client-side endpoint profile schema

Uploads a client-side endpoint profile schema. A unique version number will be generated (incrementally) for the uploaded schema, and the createdUsername field of the schema will be set to the name of the user who uploaded it. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/saveProfileSchema

- **Method:**

POST

- **URL params**

None

- **Data params**

- ▼ **Request body**

- Example:**

```
{"applicationId":"404", "ctlSchemaId":"142", "name":"Test profile
schema","description":"Profile Schema Description"}
```

- **Success response:**

- **Code:** 200

- ▼ **Response body**

**Example:**

```
{
  "applicationId": "404",
  "createdTime": 1456216290966,
  "createdUsername": "devuser",
  "ctlSchemaId": "142",
  "description": "Profile Schema Description",
  "id": "541",
  "name": "Test profile schema",
  "version": 2
}
```

• **Error response:**

Status codes	Description
400 Bad Request	Specified request body is not valid
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the profile schema does not match the Tenant ID of the authenticated user
404 Not Found	Application or referenced CT schema is not found
500 Internal Server Error	An unexpected error occurred on the server side

• **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"applicationId": "404", "ctlSchemaId": "142", "name": "Test profile
schema", "description": "Profile Schema Description"}'
"http://localhost:8080/kaaAdmin/rest/api/saveProfileSchema" | python
-mjson.tool
```

▼ **Example result**

```
{
  "applicationId": "404",
  "createdTime": 1456216290966,
  "createdUsername": "devuser",
  "ctlSchemaId": "142",
  "description": "Profile Schema Description",
  "id": "541",
  "name": "Test profile schema",
  "version": 2
}
```

## Get server-side endpoint profile schemas

Returns the server-side endpoint profile schemas for an application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information. A users can only request schemas for applications associated with the same user.

As of release 0.9.0 this method is deprecated, replaced by [Get server-side endpoint profile schemas by application token](#).

- **URL**  
/kaaAdmin/rest/api/serverProfileSchemas/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	the ID of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1455895431918,
    "createdUsername": "admin",
    "ctlSchemaId": "1",
    "description": null,
    "id": "11",
    "name": "Generated",
    "version": 0
  },
  {
    "applicationId": "5",
    "createdTime": 1455895432717,
    "createdUsername": "devuser",
    "ctlSchemaId": "2",
    "description": "Server profile schema describing activation
application profile",
    "id": "12",
    "name": "Endpoint activation server profile schema",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user

404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/serverProfileSchemas/5" | python
-mjson.tool
```

- **Example result**

```
[
  {
    "applicationId": "5",
    "createdTime": 1455895431918,
    "createdUsername": "admin",
    "ctlSchemaId": "1",
    "description": null,
    "id": "11",
    "name": "Generated",
    "version": 0
  },
  {
    "applicationId": "5",
    "createdTime": 1455895432717,
    "createdUsername": "devuser",
    "ctlSchemaId": "2",
    "description": "Server profile schema describing activation
application profile",
    "id": "12",
    "name": "Endpoint activation server profile schema",
    "version": 1
  }
]
```

## Get server-side endpoint profile schemas by application token

Returns the server-side endpoint profile schemas for an application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information. A users can only request schemas for applications associated with the same user.

- **URL**  
/kaaAdmin/rest/api/serverProfileSchemasByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	the token of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1455895431918,
    "createdUsername": "admin",
    "ctlSchemaId": "1",
    "description": null,
    "id": "11",
    "name": "Generated",
    "version": 0
  },
  {
    "applicationId": "5",
    "createdTime": 1455895432717,
    "createdUsername": "devuser",
    "ctlSchemaId": "2",
    "description": "Server profile schema describing activation
application profile",
    "id": "12",
    "name": "Endpoint activation server profile schema",
    "version": 1
  }
]
```

• **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

• **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/serverProfileSchemasByAppToken/931854
65951671258176" | python -mjson.tool
```

• **Example result**

```
[
  {
    "applicationId": "5",
    "createdTime": 1455895431918,
    "createdUsername": "admin",
    "ctlSchemaId": "1",
    "description": null,
    "id": "11",
    "name": "Generated",
    "version": 0
  },
  {
    "applicationId": "5",
    "createdTime": 1455895432717,
    "createdUsername": "devuser",
    "ctlSchemaId": "2",
    "description": "Server profile schema describing activation
application profile",
    "id": "12",
    "name": "Endpoint activation server profile schema",
    "version": 1
  }
]
```

## Get server-side endpoint profile schema

Returns the server-side endpoint profile schema by Server Profile Schema ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/serverProfileSchema/{serverProfileSchemaId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
serverProfileSchemaId	string	the ID of the server-side endpoint profile schema

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "applicationId": "110",
  "createdTime": 1455895432717,
  "createdUsername": "devuser",
  "ctlSchemaId": "141",
  "description": "Server profile schema describing activation
application profile",
  "id": "152",
  "name": "Endpoint activation server profile schema",
  "version": 1
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the profile schema does not match the Tenant ID of the authenticated user
404 Not Found	Server-side endpoint profile schema with the specified serverProfileSchemaId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/serverProfileSchema/152" | python
-mjson.tool
```

▼ **Example result**

```
{
  "applicationId": "110",
  "createdTime": 1455895432717,
  "createdUsername": "devuser",
  "ctlSchemaId": "141",
  "description": "Server profile schema describing activation application
profile",
  "id": "152",
  "name": "Endpoint activation server profile schema",
  "version": 1
}
```

## Create server-side endpoint profile schema

Uploads a server-side endpoint profile schema. A unique version number will be generated (incrementally) for the uploaded schema, and the createdUsername field of the schema will be set to the name of the user who uploaded it. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/saveServerProfileSchema

- **Method:**  
POST

- **URL params**  
None

- **Data params**
  - ▼ Request body

**Example:**

```
{ "applicationId": "110", "ctlSchemaId": "141", "name": "Test server profile schema", "description": "Server Profile Schema Description" }
```

- **Success response:**

- **Code:** 200
- ▼ Response body

**Example:**

```
{  
  "applicationId": "110",  
  "createdTime": 1456217786856,  
  "createdUsername": "devuser",  
  "ctlSchemaId": "141",  
  "description": "Server Profile Schema Description",  
  "id": "542",  
  "name": "Test server profile schema",  
  "version": 2  
}
```

- **Error response:**

Status codes	Description
400 Bad Request	Specified request body is not valid
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the profile schema does not match the Tenant ID of the authenticated user
404 Not Found	Application or referenced CT schema is not found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**



```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"applicationId": "110", "ctlSchemaId": "141", "name": "Test server profile
schema", "description": "Server Profile Schema Description"}'
"http://localhost:8080/kaaAdmin/rest/api/saveServerProfileSchema" | python
-mjson.tool
```

▼ Example result

```
{
  "applicationId": "110",
  "createdTime": 1456217786856,
  "createdUsername": "devuser",
  "ctlSchemaId": "141",
  "description": "Server Profile Schema Description",
  "id": "542",
  "name": "Test server profile schema",
  "version": 2
}
```

## Update server-side endpoint profile

Update a server-side endpoint profile. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/updateServerProfile?endpointProfileKey&version&serverProfileBody

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
endpointProfileKey	string	the key hash of the endpoint in Base64 URL safe format.
version	int	the version of the server-side endpoint profile schema
serverProfileBody	string	the server-side endpoint profile body

- **Data params**  
▼ Request body

Example:

```
{\"name\": {\"string\": \"Kaa\"}}
```

- **Success response:**

- **Code:** 200
- ▼ **Response body**  
Example:

```

{
  "accessToken": "f816c31a-c533-49d8-83db-85fc7a2a4b93",
  "applicationId": "114",
  "clientProfileBody": "{\"id\":{\"string\":\"id\"}}",
  "clientProfileVersion": 3,
  "configurationHash": "qEYpdSOEPuS47sCjzWveaq/eILY=",
  "configurationVersion": 1,
  "ecfVersionStates": [],
  "endpointKey":
  "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmjhTOSrQVQJjFt+662032imr/
H3D9M2lMjS34gSnckyC9hckWRzRrCQQYgSXLuE3ct0iWO6D7whlFMFTHa+85Ce+08j7ybQ
rGrg7ht6j4/Hj3u5BCMjytcway5vwiqkTm8bOfzml8m9AY6LaggFTwqlaUST29v8fNjKe/
3lXwMn0OmCM5hJ//z9TSEWEqfPPfX6wHCqLY3rH+cCLhZWi8jUNtpGEEZce8f1t/sIOL1h
DGpwMgUytL74tnYOZfc6zTQQklLCGDTUPyN/1kBZxqu8zKXIcDp7PqDjOM4Hc+9152IIbA
pMbXUB8vBYM+0cadhdjsuDIbtIFAy6v1zK4QIDAQAB",
  "endpointKeyHash": "L3QD/AVcphcYaA1IAwENqfpdOu0=",
  "endpointUserId": null,
  "groupState": [
    {
      "configurationId": "212",
      "endpointGroupId": "126",
      "profileFilterId": null
    }
  ],
  "id": "0x2f7403fc055ca61718680d4803010da9fa5d3aed",
  "logSchemaVersion": 2,
  "notificationVersion": 0,
  "profileHash": "Cm4NuHq02kDyLE2IhQO3Zf9ameo=",
  "sdkToken": "vi9TW-1EXmpjZfQspszvBrMpiQ4",
  "sequenceNumber": 1,
  "serverHash": null,
  "serverProfileBody": "{\"name\":{\"string\":\"Kaa\"}}",
  "serverProfileVersion": 2,
  "simpleTopicHash": 1,
  "subscriptions": null,
  "systemNfVersion": 0,
  "topicHash": "2jmj7l5rSw0yVb/vlWAYkK/YBwk=",
  "userConfigurationHash": null,
  "userNfVersion": 1,
  "version": 26
}

```

- **Error response:**

Status codes	Description
400 Bad Request	Specified server-side profile body is not valid
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER)
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/updateServerProfile?endpointProfileKey=L3QD_AVcphcYaAlIAwENqfpdOu0=&version=2&" -d "serverProfileBody={\"name\": {\"string\": \"Kaa\"}}\" | python -mjson.tool
```

#### Example result

```
{
  "accessToken": "f816c31a-c533-49d8-83db-85fc7a2a4b93",
  "applicationId": "114",
  "clientProfileBody": "{\"id\":{\"string\":\"id\"}}",
  "clientProfileVersion": 3,
  "configurationHash": "qEYpdSOEPuS47sCjzWveaq/eILY=",
  "configurationVersion": 1,
  "ecfVersionStates": [],
  "endpointKey":
  "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmjhTOSrQVQJjFt+662032imr/H3D9M
  2lMjS34gSnckyC9hckWRzRrCQQYgSXLuE3ct0iWO6D7wh1FMFTHa+85Ce+08j7ybQrGrg7ht6j4
  /Hj3u5BCMjytCway5vwiqkTm8bOfzml8m9AY6LaggFTwqlaUST29v8fnjKe/3lXwMn0OmCM5hJ/
  /z9TSEWEqfPPfX6wHCqLY3rH+cCLhZwi8jUNtpGEEZce8f1t/sIOLlhDGpwMgUytL74tnYOZfc6
  zTQQklLCGDTUPyN/1kBZxqu8zKXIcDp7PqDjom4Hc+9152IIBApMbXUB8vVBYM+0cadhdjsuDib
  tiFAy6vlzK4QIDAQAB",
  "endpointKeyHash": "L3QD/AVcphcYaAlIAwENqfpdOu0=",
  "endpointUserId": null,
  "groupState": [
    {
      "configurationId": "212",
      "endpointGroupId": "126",
      "profileFilterId": null
    }
  ],
  "id": "0x2f7403fc055ca61718680d4803010da9fa5d3aed",
  "logSchemaVersion": 2,
  "notificationVersion": 0,
  "profileHash": "Cm4NuHq02kDyLE2IhQO3Zf9ameo=",
  "sdkToken": "vi9TW-1EXmpjZfQspszvBrMpiQ4",
  "sequenceNumber": 1,
  "serverHash": null,
  "serverProfileBody": "{\"name\": {\"string\": \"Kaa\"}}",
  "serverProfileVersion": 2,
  "simpleTopicHash": 1,
  "subscriptions": null,
  "systemNfVersion": 0,
  "topicHash": "2j mj715rSw0yVb/vlWAYkK/YBwk=",
  "userConfigurationHash": null,
  "userNfVersion": 1,
  "version": 26
}
```

## Get profile based on endpoint key

Returns the endpoint profile based on endpoint key hash. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- URL

/kaaAdmin/rest/api/endpointProfile/{endpointProfileKey}

• **Method:**

GET

• **URL params**

Parameter	Value	Description
endpointProfileKey	string	the key hash of the endpoint in Base64 URL safe format.

• **Data params**

None

• **Success response:**

- **Code:** 200

- [Response body](#)

**Example:**

```
{
  "accessToken": "65084702-d3bd-4712-a065-57fdc0db8b4a",
  "applicationId": "114",
  "clientProfileBody": "{\"id\":{\"string\":\"id\"}}",
  "clientProfileVersion": 3,
  "configurationHash": "qEYpdSOEPuS47sCjzWveaq/eILY=",
  "configurationVersion": 1,
  "ecfVersionStates": [],
  "endpointKey":
  "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmjhTOSrQVQJjFt+662032imr/
  H3D9M2lMjS34gSnckyC9hckWRzRrCQQYgSXLuE3ct0iWO6D7whlFMFTHa+85Ce+08j7ybQ
  rGrg7ht6j4/Hj3u5BCMjytcway5vwiqkTm8bOfzm18m9AY6LaggFTwqlaUST29v8fNjKe/
  3lXwMn0OmCM5hJ//z9TSEWEqfPPfX6wHCqLY3rH+cCLhZwi8jUNtpGEEZce8f1t/sIOLlh
  DGpwMgUytL74tnYOZfc6zTQQklLCGDTUPyN/1kBZxqu8zKXIcDp7PqDjOM4Hc+9152IIbA
  pMbXUB8vBYM+0cadhdjsuDIbtIFAy6v1zK4QIDAQAB",
  "endpointKeyHash": "L3QD/AVcphcYaAlIAwENqfpdOu=",
  "endpointUserId": null,
  "groupState": [
    {
      "configurationId": "212",
      "endpointGroupId": "126",
      "profileFilterId": null
    }
  ],
  "id": "0x2f7403fc055ca61718680d4803010da9fa5d3aed",
  "logSchemaVersion": 2,
  "notificationVersion": 0,
  "profileHash": "ciRmuB+nulmi+5VCflJGogA0cmU=",
  "sdkToken": "vi9TW-1EXmpjZfQspszvBrMpiQ4",
  "sequenceNumber": 1,
  "serverHash": null,
  "serverProfileBody": "{\"name\":null}",
  "serverProfileVersion": 2,
  "simpleTopicHash": 1,
  "subscriptions": null,
  "systemNfVersion": 0,
  "topicHash": "2jmj7l5rSw0yVb/vlWAYkK/YBwk=",
  "userConfigurationHash": null,
  "userNfVersion": 1,
  "version": 3
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET  
"http://localhost:8080/kaaAdmin/rest/api/endpointProfile/L3QD_AVcphcYaA1IAwENq  
fpdOu0=" | python -mjson.tool
```

▼ [Example result](#)

```

{
  "accessToken": "65084702-d3bd-4712-a065-57fdc0db8b4a",
  "applicationId": "114",
  "clientProfileBody": "{\"id\":{\"string\":\"id\"}}",
  "clientProfileVersion": 3,
  "configurationHash": "qEYpdSOEPuS47sCjzWveaq/eILY=",
  "configurationVersion": 1,
  "ecfVersionStates": [],
  "endpointKey":
  "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmjhTOSrQVQJjFt+662032imr/H3D9M
  2lMjS34gSnckyC9hckWRzRrCQQYgSXLuE3ct0iWO6D7wh1FMFTHa+85Ce+08j7ybQrGrg7ht6j4
  /Hj3u5BCMjytcway5vwiqkTm8bOfzml8m9AY6LaggFTwq1aUST29v8fNjKe/3lXwMn0OmCM5hJ/
  /z9TSEWEqfPPfX6wHCqLY3rH+cCLhZWi8jUNtpGEEZce8f1t/sIOL1hdGpwMgUytL74tnYOZfc6
  zTQQklLCGDTUPyN/1kBZxqu8zKXIcDp7PqDjOM4Hc+9152IIbApMbXUB8vVBYM+0cadhdjsuDib
  tiFAy6vlzK4QIDAQAB",
  "endpointKeyHash": "L3QD/AVcphcYaA1IAwENqfpdOu0=",
  "endpointUserId": null,
  "groupState": [
    {
      "configurationId": "212",
      "endpointGroupId": "126",
      "profileFilterId": null
    }
  ],
  "id": "0x2f7403fc055ca61718680d4803010da9fa5d3aed",
  "logSchemaVersion": 2,
  "notificationVersion": 0,
  "profileHash": "ciRmuB+nulmi+5VCflJGogA0cmU=",
  "sdkToken": "vi9TW-1EXmpjZfQspszvBrMpiQ4",
  "sequenceNumber": 1,
  "serverHash": null,
  "serverProfileBody": "{\"name\":null}",
  "serverProfileVersion": 2,
  "simpleTopicHash": 1,
  "subscriptions": null,
  "systemNfVersion": 0,
  "topicHash": "2jmj715rSw0yVb/vlWAYkK/YBwk=",
  "userConfigurationHash": null,
  "userNfVersion": 1,
  "version": 3
}

```

## Get client-side endpoint profile body based on endpoint key

Returns the client-side endpoint profile body based on endpoint key hash. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/endpointProfileBody/{endpointProfileKey}
- **Method:**  
GET
- **URL params**

Parameter	Value	Description
-----------	-------	-------------

endpointProfileKey	string	the key hash of the endpoint in Base64 URL safe format.
--------------------	--------	---

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "endpointKeyHash": "JoAki4oIrvP4sfhFLwjuOeUAurM=",
  "profile": "{ \"id\" : \"id\" , \"os\" : \"Linux\" ,
  \"os_version\" : \"3.17\" , \"build\" : \"0.0.1-SNAPSHOT\"}"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/endpointProfileBody/JoAki4oIrvP4sfhFLwjuOeUAurM=" | python -mjson.tool
```

- **Example result**

```
{
  "endpointKeyHash": "JoAki4oIrvP4sfhFLwjuOeUAurM=",
  "profile": "{ \"id\" : \"id\" , \"os\" : \"Linux\" , \"os_version\" :
  \"3.17\" , \"build\" : \"0.0.1-SNAPSHOT\"}"
}
```

## Get client-side endpoint profiles by owner ID

**NOTE:** This method will be available in Kaa v0.8.1

Returns a list of client-side endpoint profiles by the ID of the endpoint owner. (Requires TENANT\_DEVELOPER or TENANT\_USER to request this information).

- **URL**  
/kaaAdmin/rest/api/endpointProfiles?userExternalId={userId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
userExternalId	string	The ID of the endpoint owner

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)  
**Example:**



```
[
  {
    "id": "56cc0ef7b6478f0776249b34",
    "applicationId": "114",
    "endpointKey":
      "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmKLjCs/ct/9repE34ctt5xbLM
      LA7jHgC5MJJ3g2xgUnjSkBHzhXunRB0n50IwSEZZZ33f677Za9Tu2399hxNlSu1iL4S1lU
      O7PLJyVRgby5x89s9i3wtE8iZiH0m8+rHPO9zd3U/0fgJYdGRMPaWpW+dqaQFV7Hvt4Hm7
      7AOwzOA5k8ybtg49nii+v0yMjwIjQIF4zuAe4XV58a+lkeAGKzaZnablpZyd0WSDZP1zLI
      cEN9nbnEAzdf7UMeJE1faUqF9cKoDFKfWdmy+HQQvMJ2DuHuIksaOhDJLXcjbe/YhAFjoE
      bAjsO/JQiZlpSWdMRrgcLj131JesLpbl+FHkwIDAQAB",
    "endpointKeyHash": "HBlhGPuZtsoPR+bakQiPZJg8zF0=",
    "endpointUserId": "56cc254eb6478f0776249b35",
    "accessToken": "cf17084f-e151-44de-b24f-ab2d5a47b858",
    "sequenceNumber": 1,
    "groupState": [
      {
        "endpointGroupId": "530",
        "profileFilterId": null,
        "configurationId": "560"
      }
    ],
    "subscriptions": null,
    "simpleTopicHash": 1,
    "topicHash": "2j mj7l5rSw0yVb/vlWAYkK/YBwk=",
    "clientProfileBody": {
      "number": 42
    },
    "serverProfileBody": "",
    "profileHash": "wsU9ZpSCFCWKJsqqcEXXrAwX+Oc=",
    "configurationHash": "GL00oZMIrbGI0QeSYVcuuPHW4A=",
    "userConfigurationHash": null,
    "clientProfileVersion": 1,
    "serverProfileVersion": 0,
    "configurationVersion": 1,
    "notificationVersion": 0,
    "systemNfVersion": 0,
    "userNfVersion": 1,
    "logSchemaVersion": 1,
    "ecfVersionStates": [],
    "serverHash": null,
    "sdkToken": "qQbxQ-GnP4BbUXqeuyba9KDev_k",
    "version": 4
  }
]
```

- **Error response:**

Status codes	Description
400 Bad Request	Invalid endpoint user ID provided
401 Unauthorized	The user is not authenticated or invalid credentials provided

403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	No endpoint user with the given ID found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET  
"http://localhost:8080/kaaAdmin/rest/api/endpointProfiles?userExternalId=56cc2  
54eb6478f0776249b35" | python -mjson.tool
```

▼ [Example result](#)

```
[
  {
    "id": "56cc0ef7b6478f0776249b34",
    "applicationId": "114",
    "endpointKey":
      "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmKLjCs/ct/9repE34ctt5xbLMLA7jH
      gC5MJJ3g2xgUnjSkBHzHXunRB0n50IwSEZZZ33f677Za9Tu2399hxNlSuliL4SllUO7PLJyVRgb
      y5x89s9i3wtE8iZiH0m8+rHPO9zd3U/0fgJYdGRMPaWpW+dqaQFV7Hvt4Hm77A0wzOA5k8ybtg4
      9nii+v0yMjwIjQIF4zuAe4XV58a+lkeAGKzaZnablPZyd0WSDZPlzLIcEN9nbnEAzdf7UMeJE1f
      aUqF9cKoDFKfWdmy+HQqvMJ2DuHuIksaOhDJLXcjbe/YhAFjoEbAjsO/JQiZlPswdMRrgcLj131
      JesLpbl+FHkwIDAQAB",
    "endpointKeyHash": "HBlhGPuZtsoPR+bakQipZJg8zF0=",
    "endpointUserId": "56cc254eb6478f0776249b35",
    "accessToken": "cf17084f-e151-44de-b24f-ab2d5a47b858",
    "sequenceNumber": 1,
    "groupState": [
      {
        "endpointGroupId": "530",
        "profileFilterId": null,
        "configurationId": "560"
      }
    ],
    "subscriptions": null,
    "simpleTopicHash": 1,
    "topicHash": "2jnj7l5rSw0yVb/vlWAYkK/YBwk=",
    "clientProfileBody": {
      "number": 42
    },
    "serverProfileBody": "",
    "profileHash": "wsU9ZpSCFCWKJsqqcEXXrAwX+Oc=",
    "configurationHash": "GL0OoZMIrbGI0QUeSYVcuuPHW4A=",
    "userConfigurationHash": null,
    "clientProfileVersion": 1,
    "serverProfileVersion": 0,
    "configurationVersion": 1,
    "notificationVersion": 0,
    "systemNfVersion": 0,
    "userNfVersion": 1,
    "logSchemaVersion": 1,
    "ecfVersionStates": [],
    "serverHash": null,
    "sdkToken": "qQbxQ-GnP4BbUXqeuyba9KDev_k",
    "version": 4
  }
]
```

## Grouping

### Get endpoint groups

Returns all endpoint groups for the specified application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

As of release 0.9.0 this method is deprecated, replaced by [Get endpoint groups by application token](#).

- **URL**  
/kaaAdmin/rest/api/endpointGroups/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	the ID of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329244,
    "createdUsername": "admin",
    "description": null,
    "id": "7",
    "name": "All",
    "sequenceNumber": 0,
    "topics": [],
    "weight": 0
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/endpointGroups/71" | python
-mjson.tool
```

▼ **Example result**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329244,
    "createdUsername": "admin",
    "description": null,
    "id": "7",
    "name": "All",
    "sequenceNumber": 0,
    "topics": [],
    "weight": 0
  }
]
```

## Get endpoint groups by application token

Returns all endpoint groups for the specified application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/endpointGroupsByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	the token of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329244,
    "createdUsername": "admin",
    "description": null,
    "id": "7",
    "name": "All",
    "sequenceNumber": 0,
    "topics": [],
    "weight": 0
  }
]
```

- **Error response:**

---

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/endpointGroupsByAppToken/931854659516
71258176" | python -mjson.tool
```

- ▼ **Example result**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329244,
    "createdUsername": "admin",
    "description": null,
    "id": "7",
    "name": "All",
    "sequenceNumber": 0,
    "topics": [],
    "weight": 0
  }
]
```

## Get endpoint group

Returns an endpoint group by Endpoint Group ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/endpointGroup/{endpointGroupId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
endpointGroupId	string	the id of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200

- [Response body](#)

**Example:**

```
{
  "applicationId": "71",
  "createdTime": 1408705246400,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "81",
  "name": "All",
  "sequenceNumber": 0,
  "topics": [],
  "weight": 0
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/endpointGroup/81" | python
-mjson.tool
```

- [Example result](#)

```
{
  "applicationId": "71",
  "createdTime": 1408705246400,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "81",
  "name": "All",
  "sequenceNumber": 0,
  "topics": [],
  "weight": 0
}
```

## Create/Edit endpoint group

Creates or edits an endpoint group. If an endpoint group with the specified ID does not exist, it will be created. If an endpoint group with the specified ID exists, it will be updated. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/endpointGroup

- **Method:**  
POST

- **URL params**  
None

- **Data params**  
  ▾ Request body

**Example:**

```
{ "applicationId": "71", "name": "Test Endpoint Group", "description": "Test Endpoint Group Description", "weight": "1" }
```

- **Success response:**

- **Code:** 200
- ▾ Response body

**Example:**

```
{  
  "applicationId": "71",  
  "createdTime": 1408711565372,  
  "createdUsername": "devuser",  
  "description": "Test Endpoint Group Description",  
  "endpointCount": 0,  
  "id": "82",  
  "name": "Test Endpoint Group",  
  "sequenceNumber": 0,  
  "topics": [],  
  "weight": 1  
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group to be edited with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create endpoint group:**



```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"applicationId": "71", "name": "Test Endpoint Group", "description": "Test
Endpoint Group Description", "weight": "1"}'
"http://localhost:8080/kaaAdmin/rest/api/endpointGroup" | python -mjson.tool
```

▼ Example result

```
{
  "applicationId": "71",
  "createdTime": 1408711565372,
  "createdUsername": "devuser",
  "description": "Test Endpoint Group Description",
  "endpointCount": 0,
  "id": "82",
  "name": "Test Endpoint Group",
  "sequenceNumber": 0,
  "topics": [],
  "weight": 1
}
```

• Sample call to edit endpoint group:

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"id": "82", "applicationId": "71", "name": "Test Endpoint Group
v2", "description": "Test Endpoint Group Description", "weight": "1"}'
"http://localhost:8080/kaaAdmin/rest/api/endpointGroup" | python -mjson.tool
```

▼ Example result

```
{
  "applicationId": "71",
  "createdTime": 1408711571489,
  "createdUsername": "devuser",
  "description": "Test Endpoint Group Description",
  "endpointCount": 0,
  "id": "82",
  "name": "Test Endpoint Group v2",
  "sequenceNumber": 0,
  "topics": [],
  "weight": 1
}
```

## Delete endpoint group

Deletes an endpoint group specified by Endpoint Group ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/delEndpointGroup?endpointGroupId

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
endpointGroupId	string	The ID of the endpoint group to be deleted

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
400 Bad Request	The endpointGroupId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/delEndpointGroup?endpointGroupId=82"
| python -mjson.tool
```

## Get profile filter records

Returns all profile filter records for the specified endpoint group. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**

/kaaAdmin/rest/api/profileFilterRecords?endpointGroupId&includeDeprecated

- **Method:**

GET

- **URL params**

Parameter	Value	Description
endpointGroupId	string	The ID of the endpoint group
includeDeprecated	string	["true" or "false"] if "true", all profile filter records will be returned, including deprecated ones. If "false", only active and inactive profile filter records will be returned

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
[
  {
    "activeProfileFilter": {
      "activatedTime": 1408705246444,
      "activatedUsername": "admin",
      "applicationId": "71",
      "body": "true",
      "createdTime": 1408705246433,
      "createdUsername": null,
      "deactivatedTime": 0,
      "deactivatedUsername": null,
      "description": null,
      "endpointCount": 0,
      "endpointGroupId": "81",
      "id": "102",
      "lastModifyTime": 1408705246433,
      "majorVersion": 1,
      "minorVersion": 0,
      "modifiedUsername": null,
      "schemaId": "93",
      "sequenceNumber": 1,
      "status": "ACTIVE"
    },
    "inactiveProfileFilter": null
  }
]
```

• **Error response:**

Status codes	Description
400 Bad Request	The endpointGroupId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

• **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/profileFilterRecords?endpointGroupId=81&includeDeprecated=true" | python -mjson.tool
```

[Example result](#)

```
[
  {
    "activeProfileFilter": {
      "activatedTime": 1408705246444,
      "activatedUsername": "admin",
      "applicationId": "71",
      "body": "true",
      "createdTime": 1408705246433,
      "createdUsername": null,
      "deactivatedTime": 0,
      "deactivatedUsername": null,
      "description": null,
      "endpointCount": 0,
      "endpointGroupId": "81",
      "id": "102",
      "lastModifyTime": 1408705246433,
      "majorVersion": 1,
      "minorVersion": 0,
      "modifiedUsername": null,
      "schemaId": "93",
      "sequenceNumber": 1,
      "status": "ACTIVE"
    },
    "inactiveProfileFilter": null
  }
]
```

## Get profile filter record

Returns the profile filter record for the specified endpoint group and profile schema. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/profileFilterRecord?schemald&endpointGroupId

- **Method:**

GET

- **URL params**

Parameter	Value	Description
schemald	string	the ID of the profile schema
endpointGroupId	string	the ID of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```

{
  "activeProfileFilter": {
    "activatedTime": 1408705246444,
    "activatedUsername": "admin",
    "applicationId": "71",
    "body": "true",
    "createdTime": 1408705246433,
    "createdUsername": null,
    "deactivatedTime": 0,
    "deactivatedUsername": null,
    "description": null,
    "endpointCount": 0,
    "endpointGroupId": "81",
    "id": "102",
    "lastModifyTime": 1408705246433,
    "majorVersion": 1,
    "minorVersion": 0,
    "modifiedUsername": null,
    "schemaId": "93",
    "sequenceNumber": 1,
    "status": "ACTIVE"
  },
  "inactiveProfileFilter": null
}

```

- **Error response:**

Status codes	Description
400 Bad Request	endpointGroupId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist or endpoint group does not have the specified profile filter record
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```

curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/profileFilterRecord?schemaId=93&endpointGroupId=81" | python -mjson.tool

```

- ▼ [Example result](#)

```

{
  "activeProfileFilter": {
    "activatedTime": 1408705246444,
    "activatedUsername": "admin",
    "applicationId": "71",
    "body": "true",
    "createdTime": 1408705246433,
    "createdUsername": null,
    "deactivatedTime": 0,
    "deactivatedUsername": null,
    "description": null,
    "endpointCount": 0,
    "endpointGroupId": "81",
    "id": "102",
    "lastModifyTime": 1408705246433,
    "majorVersion": 1,
    "minorVersion": 0,
    "modifiedUsername": null,
    "schemaId": "93",
    "sequenceNumber": 1,
    "status": "ACTIVE"
  },
  "inactiveProfileFilter": null
}

```

## Get vacant profile schemas

Returns all vacant (not being used by endpoint group profile filters) profile schemas for the specified endpoint group. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/vacantProfileSchemas?endpointGroupId

- **Method:**

GET

- **URL params**

Parameter	Value	Description
endpointGroupId	string	the id of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "id": "93",
    "majorVersion": 1,
    "minorVersion": 0
  },
  {
    "id": "99",
    "majorVersion": 2,
    "minorVersion": 0
  }
]
```

- **Error response:**

Status codes	Description
400 Bad Request	endpointGroupId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/vacantProfileSchemas?endpointGroupId=83" | python -mjson.tool
```

- ▼ **Example result**

```
[
  {
    "id": "93",
    "majorVersion": 1,
    "minorVersion": 0
  },
  {
    "id": "99",
    "majorVersion": 2,
    "minorVersion": 0
  }
]
```

## Create/edit profile filter

Creates or updates a profile filter. If a profile filter with the specified ID does not exist, then it will be created and its createUsername field will be set to the name of the user who has created it. If a profile filter with the specified ID exists, the profile filter will be updated and its modifyUsername will be set to the user who has submitted the request. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/profileFilter

- **Method:**  
POST

- **URL params**  
None

- **Data params**
  - ▼ Request body

**Example:**

```
{ "applicationId": "71", "schemaId": "93", "endpointGroupId": "83", "majorVersion": "1", "minorVersion": "0", "description": "Test Profile Filter", "body": "true", "status": "INACTIVE" }
```

- **Success response:**

- **Code:** 200
- ▼ Response body

**Example:**

```
{
  "activatedTime": 0,
  "activatedUsername": null,
  "applicationId": "71",
  "body": "true",
  "createdTime": 1408715796493,
  "createdUsername": "devuser",
  "deactivatedTime": 0,
  "deactivatedUsername": null,
  "description": "Test Profile Filter",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "107",
  "lastModifyTime": 1408715796493,
  "majorVersion": 1,
  "minorVersion": 0,
  "modifiedUsername": null,
  "schemaId": "93",
  "sequenceNumber": 0,
  "status": "INACTIVE"
}
```

- **Error response:**

Status codes	Description
--------------	-------------



401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist or existing profile filter with the specified profileFilterId not found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"applicationId": "71", "schemaId": "93", "endpointGroupId": "83", "majorVersion":
"1", "minorVersion": "0", "description": "Test Profile
Filter", "body": "true", "status": "INACTIVE"}'
"http://localhost:8080/kaaAdmin/rest/api/profileFilter" | python -mjson.tool
```

- ▼ **Example result**

```
{
  "activatedTime": 0,
  "activatedUsername": null,
  "applicationId": "71",
  "body": "true",
  "createdTime": 1408715796493,
  "createdUsername": "devuser",
  "deactivatedTime": 0,
  "deactivatedUsername": null,
  "description": "Test Profile Filter",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "107",
  "lastModifyTime": 1408715796493,
  "majorVersion": 1,
  "minorVersion": 0,
  "modifiedUsername": null,
  "schemaId": "93",
  "sequenceNumber": 0,
  "status": "INACTIVE"
}
```

## Activate profile filter

Activates a profile filter. Sets the status field of the profile filter to ACTIVE, increments the sequenceNumber field value by 1, and sets the activateUsername and activatedTime fields to the name of the user who submitted the request and the activation time, respectively Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/activateProfileFilter

- **Method:**

POST

- **URL params**

None

- **Data params**
  - ▼ [Request body](#)

**Example:**

```
107
```

- **Success response:**

- **Code:** 200
- ▼ [Response body](#)

**Example:**

```
{
  "activatedTime": 1408716471682,
  "activatedUsername": "devuser",
  "applicationId": "71",
  "body": "true",
  "createdTime": 1408715796493,
  "createdUsername": "devuser",
  "deactivatedTime": 0,
  "deactivatedUsername": null,
  "description": "Test Profile Filter",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "107",
  "lastModifyTime": 1408715796493,
  "majorVersion": 1,
  "minorVersion": 0,
  "modifiedUsername": null,
  "schemaId": "93",
  "sequenceNumber": 1,
  "status": "ACTIVE"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	Profile filter with the specified profileFilterId not found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: text/plain' -d'107'
"http://localhost:8080/kaaAdmin/rest/api/activateProfileFilter" | python
-mjson.tool
```

- ▼ [Example result](#)

```
{
  "activatedTime": 1408716471682,
  "activatedUsername": "devuser",
  "applicationId": "71",
  "body": "true",
  "createdTime": 1408715796493,
  "createdUsername": "devuser",
  "deactivatedTime": 0,
  "deactivatedUsername": null,
  "description": "Test Profile Filter",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "107",
  "lastModifyTime": 1408715796493,
  "majorVersion": 1,
  "minorVersion": 0,
  "modifiedUsername": null,
  "schemaId": "93",
  "sequenceNumber": 1,
  "status": "ACTIVE"
}
```

## Deactivate profile filter

Deactivates a profile filter. Sets the status field of the profile filter to DEPRECATED, sets the deactivatedTime field value to the time of the deactivation request, and sets the deactivateUsername field to the name of the user who has submitted the request. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/deactivateProfileFilter

- **Method:**  
POST

- **URL params**

None

- **Data params**
  - ▼ [Request body](#)

**Example:**

```
107
```

- **Success response:**

- **Code:** 200
- ▼ [Response body](#)

**Example:**

```

{
  "activatedTime": 1408716471682,
  "activatedUsername": "devuser",
  "applicationId": "71",
  "body": "true",
  "createdTime": 1408715796493,
  "createdUsername": "devuser",
  "deactivatedTime": 1408716757502,
  "deactivatedUsername": "devuser",
  "description": "Test Profile Filter",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "107",
  "lastModifyTime": 1408715796493,
  "majorVersion": 1,
  "minorVersion": 0,
  "modifiedUsername": null,
  "schemaId": "93",
  "sequenceNumber": 1,
  "status": "DEPRECATED"
}

```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	Profile filter with the specified profileFilterId not found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```

curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: text/plain' -d'107'
"http://localhost:8080/kaaAdmin/rest/api/deactivateProfileFilter" | python
-mjson.tool

```

- ▼ [Example result](#)

```

{
  "activatedTime": 1408716471682,
  "activatedUsername": "devuser",
  "applicationId": "71",
  "body": "true",
  "createdTime": 1408715796493,
  "createdUsername": "devuser",
  "deactivatedTime": 1408716757502,
  "deactivatedUsername": "devuser",
  "description": "Test Profile Filter",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "107",
  "lastModifyTime": 1408715796493,
  "majorVersion": 1,
  "minorVersion": 0,
  "modifiedUsername": null,
  "schemaId": "93",
  "sequenceNumber": 1,
  "status": "DEPRECATED"
}

```

## Delete profile filter record

Deletes a profile filter record by profile schema ID and endpoint group ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/delProfileFilterRecord?schemald&endpointGroupld

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
schemald	string	the ID of the profile schema
endpointGroupld	string	the ID of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
400 Bad Request	endpointGroupld parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user

404 Not Found	An endpoint group with the specified endpointGroupId does not exist or the endpoint group does not have the specified profile filter record
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/delProfileFilterRecord?schemaId=93&en
dpointGroupId=83" | python -mjson.tool
```

## Get profiles based on endpoint group id

Returns the endpoint profiles based on endpoint group id. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

Default limit value equals "20", default offset value equals "0". Maximum limit value is "500".

- **URL**  
/kaaAdmin/rest/api/endpointProfileByGroupId?endpointGroupId&limit&offset
- **Method:**  
GET
- **URL params**

Parameter	Value	Description
endpointGroupId	string	the id of the endpoint group.
limit	string	maximum number of shown profiles. (optional parameter)
offset	string	offset from beginning of profiles list. (optional parameter)

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "endpointProfiles": [
    {
      "accessToken": "66368128-ee00-46e2-9e53-c2c93a5d5262",
      "applicationId": "110",
      "cfGroupStates": [
        {
          "configurationId": "141",
          "endpointGroupId": "120",
          "profileFilterId": "142"
        }
      ],
      "cfSequenceNumber": 3,
      "changedFlag": false,
      "configurationHash": "A9fqz21JoQ351aFYCyXWpKJFRko=",
      "configurationVersion": 1,
      "ecfVersionStates": [],
    }
  ]
}
```

```
        "endpointKey":
"MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAXiLE5sfsd+EqNHdVKYemc/EQ4
VaY3Ra8VYt1t8fVZ4TFJi/T6tGmPAPg7nmz+YglU5rcnYblFTO141T4W3CDt0Del2avdz9
h/YLPxklOtn7aZrPhtPXEOpmTI0wxwFadmkgvroZruxs6/GedVgRsbN/Sn9kBs10vCcG8/
eFhbpQHNhKuCzUdPeLdKoOCpJGG5HVlCP2n/gpFlIYdyultv/qhFufBP2VbI4hrj9eYvt
oiDj+pDU3x7TIUpX3HpxT1b2Q3o8ZMP18Hg6mFspHvoWi9xlU53/zuGsJX4vhC92KKB7gZ
4B+3lXzttBLAZ3LfyQsf3fKlft/wLlxea6jXQIDAQAB",
        "endpointKeyHash": "aMEEDLIrrI42yppI8q6JLq69Dhc=",
        "endpointUserId": null,
        "id": "5640a6d1b2f5605ac7696d2e",
        "logSchemaVersion": 1,
        "nfGroupStates": [
            {
                "configurationId": "141",
                "endpointGroupId": "120",
                "profileFilterId": "142"
            }
        ],
        "nfSequenceNumber": 3,
        "notificationVersion": 0,
        "ntHash": null,
        "profile": "{ \"id\" : \"id\" , \"os\" : \"Linux\" ,
\"os_version\" : \"3.17\" , \"build\" : \"0.0.1-SNAPSHOT\"}",
        "profileHash": "pvRRvLFNBX0eOIMB0GpSmSxKKS=",
        "profileSchemaId": null,
        "profileVersion": 2,
        "serverHash": "L30FM6ZDpaAUKulpCLzJCpgXurQ=",
        "subscriptions": null,
        "systemNfVersion": 0,
        "userConfigurationHash": null,
        "userNfVersion": 1
    },
    {
        "accessToken": "bbae7b50-37aa-4956-9b33-91795717e9eb",
        "applicationId": "110",
        "cfGroupStates": [
            {
                "configurationId": "141",
                "endpointGroupId": "120",
                "profileFilterId": "142"
            }
        ],
        "cfSequenceNumber": 3,
        "changedFlag": false,
        "configurationHash": "A9fqz21JoQ351aFYCyXWpKJFRko=",
        "configurationVersion": 1,
        "ecfVersionStates": [],
        "endpointKey":
"MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAlkxm9jO8L80gx3o5AFVTnixx4
AxdU9WltCQFDcpcbDKR9sJUBhiiQxmDJKNMLZzeFdm57Dep7JuvvJVGsJ55USRCH5MfU/B
bKIYDfauXO8uBtxCU5EW9yJRMuAh61dBoH280uKQxnSZHifT+dN3fLataMuICE3LME40o/
y5HWbXIIpWwgL0rjWGkTN45tRlf6sRBJqUUXmDye/m3XUOeaPh40MCPWId9+ay/rZ/kiSY
ctPnCWAw/JnfoXFK+RRr3Mm5N7DjZ0leUdTPZyDY090x9tgDhxn/dlL4WXDJ0tV1GV0gUH
TC5QRvrsrKX+csVTPxeIR4Rm9VyI26A89skswIDAQAB",
        "endpointKeyHash": "JoAki4oIrvP4sfhFLwjuOeUAurM=",
        "endpointUserId": null,
        "id": "5640a74ab2f5605ac7696d2f",
        "logSchemaVersion": 1,
        "nfGroupStates": [
```

```
        {
            "configurationId": "141",
            "endpointGroupId": "120",
            "profileFilterId": "142"
        }
    ],
    "nfSequenceNumber": 3,
    "notificationVersion": 0,
    "ntHash": null,
    "profile": "{ \"id\" : \"id\" , \"os\" : \"Linux\" ,
    \"os_version\" : \"3.17\" , \"build\" : \"0.0.1-SNAPSHOT\"}",
    "profileHash": "pvRRvLFNBX0eOIMB0GpSmSxKKSo=",
    "profileSchemaId": null,
    "profileVersion": 2,
    "serverHash": "L3OFM6ZDpaAUKulpCLzJCpgXurQ=",
    "subscriptions": null,
    "systemNfVersion": 0,
    "userConfigurationHash": null,
    "userNfVersion": 1
    }
],
"next":
"http://localhost:8080/kaaAdmin/rest/api/endpointProfileByGroupId?endp
```



```
ointGroupId=120&limit=2&offset=2"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/endpointProfileByGroupId?endpoi
ntGroupId=120&limit=2&offset=0" | python -mjson.tool
```

▼ **Example result**

```
{
  "endpointProfiles": [
    {
      "accessToken": "66368128-ee00-46e2-9e53-c2c93a5d5262",
      "applicationId": "110",
      "cfGroupStates": [
        {
          "configurationId": "141",
          "endpointGroupId": "120",
          "profileFilterId": "142"
        }
      ],
      "cfSequenceNumber": 3,
      "changedFlag": false,
      "configurationHash": "A9fqz2lJoQ35laFYCyXWpKJFRko=",
      "configurationVersion": 1,
      "ecfVersionStates": [],
      "endpointKey":
      "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAXiLE5sfsd+EqNhdVKYemc/EQ4
      VaY3Ra8VYTlt8fVZ4TFJi/T6tGmPAPg7nmz+YglU5rcnYblFT0141T4W3CDt0Del2avdz9
      h/YLPxklOtn7aZrPhtPXE0PmTI0wxwFadmkgvrozruxs6/GedVgRsbN/Sn9kBs1OvCcG8/
      eFhbpQHNhKuCzUdPeLdKoOCpJGgG5HV1CP2n/gpF1IYdyultv/qhFufBP2VbI4hRj9eYvt
      oiDj+pDU3x7TIUpx3HpxT1b2Q3o8ZMP18Hg6mFsphvoWi9xlU53/zuGsJX4vhC92KKB7gZ
      4B+3lXzttBLAZ3LfyQsf3fKlft/wLlxea6jXQIDAQAB",
      "endpointKeyHash": "aMEEDLIrrI42yppI8q6JLq69Dhc=",
      "endpointUserId": null,
      "id": "5640a6d1b2f5605ac7696d2e",
      "logSchemaVersion": 1,
      "nfGroupStates": [
```

```
{
  "configurationId": "141",
  "endpointGroupId": "120",
  "profileFilterId": "142"
}
],
"nfSequenceNumber": 3,
"notificationVersion": 0,
"ntHash": null,
"profile": "{ \"id\" : \"id\" , \"os\" : \"Linux\" ,
\"os_version\" : \"3.17\" , \"build\" : \"0.0.1-SNAPSHOT\"}",
"profileHash": "pvRRvLFNBX0eOIMB0GpSmSxKKS=",
"profileSchemaId": null,
"profileVersion": 2,
"serverHash": "L30FM6ZDpaAUKulpCLzJCpgXurQ=",
"subscriptions": null,
"systemNfVersion": 0,
"userConfigurationHash": null,
"userNfVersion": 1
},
{
  "accessToken": "bba7b50-37aa-4956-9b33-91795717e9eb",
  "applicationId": "110",
  "cfGroupStates": [
    {
      "configurationId": "141",
      "endpointGroupId": "120",
      "profileFilterId": "142"
    }
  ],
  "cfSequenceNumber": 3,
  "changedFlag": false,
  "configurationHash": "A9fqz21JoQ35laFYCyXWpKJFRko=",
  "configurationVersion": 1,
  "ecfVersionStates": [],
  "endpointKey":
  "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAlkxm9jo8L80gx3o5AFVTnixx4
  AxdU9WLtCQFDcpcbDKR9sJUBhiiQxmDJKNMLZzeFdm57Dep7JuvvJVGsJ55USRCH5MfU/B
  bKIYDfauXO8uBtxCU5EW9yJRMuAh6lDbO280uKQxnSZHift+dN3fLAtaMuICE3LME40o/
  y5HWbXIIPWwgL0rjWGkTN45tRlf6sRBJqUUXmDye/m3XUOeaPh40MCPWId9+ay/rZ/kiSY
  ctPnCWAw/JnfoXFK+RRr3Mm5N7Djz0leUdTPZyDY090x9tgDhxn/dlL4WXDJ0tV1GV0gUh
  TC5QRvrsrKX+csVTPxeIR4Rm9VyI26A89skswIDAQAB",
  "endpointKeyHash": "JoAki4oIrvP4sfhFLwjuOeUAurM=",
  "endpointUserId": null,
  "id": "5640a74ab2f5605ac7696d2f",
  "logSchemaVersion": 1,
  "nfGroupStates": [
    {
      "configurationId": "141",
      "endpointGroupId": "120",
      "profileFilterId": "142"
    }
  ],
  "nfSequenceNumber": 3,
  "notificationVersion": 0,
  "ntHash": null,
  "profile": "{ \"id\" : \"id\" , \"os\" : \"Linux\" ,
\"os_version\" : \"3.17\" , \"build\" : \"0.0.1-SNAPSHOT\"}",
"profileHash": "pvRRvLFNBX0eOIMB0GpSmSxKKS=",
```

```
        "profileSchemaId": null,  
        "profileVersion": 2,  
        "serverHash": "L30FM6ZDpaAUKulpCLzJCpgXurQ=",  
        "subscriptions": null,  
        "systemNfVersion": 0,  
        "userConfigurationHash": null,  
        "userNfVersion": 1  
    }  
],  
    "next":  
    "http://localhost:8080/kaaAdmin/rest/api/endpointProfileByGroupId?endp
```

```
ointGroupId=120&limit=2&offset=2"
}
```

## Get client-side profiles bodies based on endpoint group id

Returns the client-side endpoint profiles bodies based on endpoint group id. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

Default limit value equals "20", default offset value equals "0". Maximum limit value is "500".

- **URL**  
/kaaAdmin/rest/api/endpointProfileBodyByGroupId?endpointGroupId&limit&offset

- **Method:**

GET

- **URL params**

Parameter	Value	Description
endpointGroupId	string	the id of the endpoint group.
limit	string	maximum number of shown profiles. (optional parameter)
offset	string	offset from beginning of profiles list. (optional parameter)

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "endpointProfilesBody": [
    {
      "clientSideProfile": "{ \"id\" : { \"string\" : \"id\"}}",
      "endpointKeyHash": "L3QD/AVcphcYaA1IAwENqfpdOu0=",
      "serverSideProfile": {"name":null}
    },
    {
      "clientSideProfile": null,
      "endpointKeyHash": "+O3NlmBltoqsalV6hwnwI4Cz2fc=",
      "serverSideProfile": {"name":null}
    }
  ],
  "next":
  "http://10.2.1.110:8080/kaaAdmin/rest/api/endpointProfileBodyByGroupId
?endpointGroupId=126&limit=2&offset=2"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided

403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/endpointProfileBodyByGroupId?endpoint
GroupId=126&limit=2&offset=0" | python -mjson.tool
```

- **Example result**

```
{
  "endpointProfilesBody": [
    {
      "clientSideProfile": "{ \"id\" : { \"string\" : \"id\"}}",
      "endpointKeyHash": "L3QD/AVcphcYaAlIAwENqfpdOu0=",
      "serverSideProfile": "{ \"name\" : null}"
    },
    {
      "clientSideProfile": null,
      "endpointKeyHash": "+O3NlmBltOqsalV6hwnwI4Cz2fc=",
      "serverSideProfile": "{ \"name\" : null}"
    }
  ],
  "next":
  "http://10.2.1.110:8080/kaaAdmin/rest/api/endpointProfileBodyByGroupId?endp
ointGroupId=126&limit=2&offset=2"
}
```

## Configuration

### Get configuration schemas

Returns all configuration schemas for the specified application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation. The application must be associated with the user who has submitted the request.

As of release 0.9.0 this method is deprecated, replaced by [Get configuration schemas by application token](#).

- **URL**  
/kaaAdmin/rest/api/configurationSchemas/{applicationId}

- **Method:**  
GET

- **URL params**

Parameter	Value	Description
applicationId	string	the ID of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
[
  {
    "applicationId": "5",
    "baseSchema":
    "{\\"type\\":\\"record\\",\\"name\\":\\"Configuration\\",\\"namespace\\":\\"org.kaaproject.kaa.schema.base\\",\\"fields\\":[{\\"name\\":\\"__uuid\\",\\"type\\":[{\\"type\\":\\"fixed\\",\\"name\\":\\"uuidT\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"size\\":16},\\"null\\"],\\"displayName\\":\\"Record Id\\",\\"fieldAccess\\":\\"read_only\\"}]}",
    "createdTime": 1461254329249,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "17",
    "name": "Generated",
    "overrideSchema":
    "{\\"type\\":\\"record\\",\\"name\\":\\"Configuration\\",\\"namespace\\":\\"org.kaaproject.kaa.schema.base\\",\\"fields\\":[{\\"name\\":\\"__uuid\\",\\"type\\":[{\\"type\\":\\"fixed\\",\\"name\\":\\"uuidT\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"size\\":16},\\"null\\"],\\"displayName\\":\\"Record Id\\",\\"fieldAccess\\":\\"read_only\\"}]}",
    "protocolSchema":
    "{\\"type\\":\\"array\\",\\"items\\":{\\"type\\":\\"record\\",\\"name\\":\\"deltaT\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"fields\\":[{\\"name\\":\\"delta\\",\\"type\\":[{\\"type\\":\\"record\\",\\"name\\":\\"Configuration\\",\\"namespace\\":\\"org.kaaproject.kaa.schema.base\\",\\"fields\\":[{\\"name\\":\\"__uuid\\",\\"type\\":{\\"type\\":\\"fixed\\",\\"name\\":\\"uuidT\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"size\\":16},\\"displayName\\":\\"Record Id\\",\\"fieldAccess\\":\\"read_only\\"}]}}]}",
    "schema": "{\n  \\"type\\": \\"record\\",\n  \\"name\\": \\"Configuration\\",\n  \\"namespace\\": \\"org.kaaproject.kaa.schema.base\\",\n  \\"fields\\": [ ]\n}",
    "status": null,
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/configurationSchemas/5" | python
-mjson.tool
```

▼ **Example result**

```
[
  {
    "applicationId": "5",
    "baseSchema":
    "{ \"type\": \"record\", \"name\": \"Configuration\", \"namespace\": \"org.kaaproject.kaa.schema.base\", \"fields\": [{ \"name\": \"__uuid\", \"type\": [ { \"type\": \"fixed\", \"name\": \"uuidT\", \"namespace\": \"org.kaaproject.configuration\", \"size\": 16 }, \"null\" ], \"displayName\": \"RecordId\", \"fieldAccess\": \"read_only\" } ] }",
    "createdTime": 1461254329249,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "17",
    "name": "Generated",
    "overrideSchema":
    "{ \"type\": \"record\", \"name\": \"Configuration\", \"namespace\": \"org.kaaproject.kaa.schema.base\", \"fields\": [{ \"name\": \"__uuid\", \"type\": [ { \"type\": \"fixed\", \"name\": \"uuidT\", \"namespace\": \"org.kaaproject.configuration\", \"size\": 16 }, \"null\" ], \"displayName\": \"RecordId\", \"fieldAccess\": \"read_only\" } ] }",
    "protocolSchema":
    "{ \"type\": \"array\", \"items\": { \"type\": \"record\", \"name\": \"deltaT\", \"namespace\": \"org.kaaproject.configuration\", \"fields\": [ { \"name\": \"delta\", \"type\": [ { \"type\": \"record\", \"name\": \"Configuration\", \"namespace\": \"org.kaaproject.kaa.schema.base\", \"fields\": [ { \"name\": \"__uuid\", \"type\": [ { \"type\": \"fixed\", \"name\": \"uuidT\", \"namespace\": \"org.kaaproject.configuration\", \"size\": 16 }, \"null\" ], \"displayName\": \"RecordId\", \"fieldAccess\": \"read_only\" } ] } ] } ] }",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"Configuration\", \n  \"namespace\": \"org.kaaproject.kaa.schema.base\", \n  \"fields\": [ ]\n",
    "status": null,
    "version": 1
  }
]
```

## Get configuration schemas by application token

Returns all configuration schemas for the specified application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation. The application must be associated with the user who has submitted the request.

- **URL**  
/kaaAdmin/rest/api/configurationSchemasByAppToken/{applicationToken}
- **Method:**  
GET
- **URL params**

Parameter	Value	Description
applicationToken	string	the token of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "applicationId": "5",
    "baseSchema":
    "{\\"type\\":\\"record\\",\\"name\\":\\"Configuration\\",\\"namespace\\":\\"org.kaaproject.kaa.schema.base\\",\\"fields\\":[{\\"name\\":\\"__uuid\\",\\"type\\":[{\\"type\\":\\"fixed\\",\\"name\\":\\"uuidT\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"size\\":16},\\"null\\"],\\"displayName\\":\\"Record Id\\",\\"fieldAccess\\":\\"read_only\\"}]}}",
    "createdTime": 1461254329249,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "17",
    "name": "Generated",
    "overrideSchema":
    "{\\"type\\":\\"record\\",\\"name\\":\\"Configuration\\",\\"namespace\\":\\"org.kaaproject.kaa.schema.base\\",\\"fields\\":[{\\"name\\":\\"__uuid\\",\\"type\\":[{\\"type\\":\\"fixed\\",\\"name\\":\\"uuidT\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"size\\":16},\\"null\\"],\\"displayName\\":\\"Record Id\\",\\"fieldAccess\\":\\"read_only\\"}]}}",
    "protocolSchema":
    "{\\"type\\":\\"array\\",\\"items\\":{\\"type\\":\\"record\\",\\"name\\":\\"deltaT\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"fields\\":[{\\"name\\":\\"delta\\",\\"type\\":[{\\"type\\":\\"record\\",\\"name\\":\\"Configuration\\",\\"namespace\\":\\"org.kaaproject.kaa.schema.base\\",\\"fields\\":[{\\"name\\":\\"__uuid\\",\\"type\\":{\\"type\\":\\"fixed\\",\\"name\\":\\"uuidT\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"size\\":16},\\"displayName\\":\\"Record Id\\",\\"fieldAccess\\":\\"read_only\\"}]}}]}]}",
    "schema": "{\n  \\"type\\": \\"record\\",\n  \\"name\\": \\"Configuration\\",\n  \\"namespace\\": \\"org.kaaproject.kaa.schema.base\\",\n  \\"fields\\": [ ]\n}",
    "status": null,
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided



403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/configurationSchemasByAppToken/931854
65951671258176" | python -mjson.tool
```

- ▼ **Example result**

```
[
  {
    "applicationId": "5",
    "baseSchema":
    "{ \"type\": \"record\", \"name\": \"Configuration\", \"namespace\": \"org.kaaproject.kaa.schema.base\", \"fields\": [ { \"name\": \"__uuid\", \"type\": [ { \"type\": \"fixed\", \"name\": \"uuidT\", \"namespace\": \"org.kaaproject.configuration\", \"size\": 16, \"null\": ], \"displayName\": \"Record Id\", \"fieldAccess\": \"read_only\" } ] }\",
    \"createdTime\": 1461254329249,
    \"createdUsername\": \"admin\",
    \"description\": null,
    \"endpointCount\": 0,
    \"id\": \"17\",
    \"name\": \"Generated\",
    \"overrideSchema\":
    \"{ \"type\": \"record\", \"name\": \"Configuration\", \"namespace\": \"org.kaaproject.kaa.schema.base\", \"fields\": [ { \"name\": \"__uuid\", \"type\": [ { \"type\": \"fixed\", \"name\": \"uuidT\", \"namespace\": \"org.kaaproject.configuration\", \"size\": 16, \"null\": ], \"displayName\": \"Record Id\", \"fieldAccess\": \"read_only\" } ] }\",
    \"protocolSchema\":
    \"{ \"type\": \"array\", \"items\": { \"type\": \"record\", \"name\": \"deltaT\", \"namespace\": \"org.kaaproject.configuration\", \"fields\": [ { \"name\": \"delta\", \"type\": [ { \"type\": \"record\", \"name\": \"Configuration\", \"namespace\": \"org.kaaproject.kaa.schema.base\", \"fields\": [ { \"name\": \"__uuid\", \"type\": [ { \"type\": \"fixed\", \"name\": \"uuidT\", \"namespace\": \"org.kaaproject.configuration\", \"size\": 16, \"displayName\": \"Record Id\", \"fieldAccess\": \"read_only\" } ] } ] } ] } } ] }\",
    \"schema\": \"{ \n  \"type\": \"record\", \n  \"name\": \"Configuration\", \n  \"namespace\": \"org.kaaproject.kaa.schema.base\", \n  \"fields\": [ ] \n }\",
    \"status\": null,
    \"version\": 1
  }
]
```

## Get configuration schema

Returns a configuration schema by configuration schema ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/configurationSchema/{configurationSchemaId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
configurationSchemaId	string	the ID of the configuration schema

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
{
  "applicationId": "71",
  "baseSchema":
  "{ \"type\": \"record\", \"name\": \"ConfigurationSchema\", \"namespace\": \"org.kaa.config\", \"fields\": [ { \"name\": \"Properties\", \"type\": { \"type\": \"array\", \"items\": { \"name\": \"ConfigurationProperty\", \"namespace\": \"config.system\", \"type\": \"record\", \"fields\": [ { \"name\": \"name\", \"type\": \"string\" }, { \"name\": \"value\", \"type\": \"string\" }, { \"name\": \"__uuid\", \"type\": [ { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\" }, \"null\"] } ] } }, { \"name\": \"__uuid\", \"type\": [ \"org.kaaproject.configuration.uuidT\", \"null\"] } ] }\",
  "createdTime": 1408638999001,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "94",
  "majorVersion": 1,
  "minorVersion": 0,
  "name": "Generated",
  "overrideSchema":
  "{ \"type\": \"record\", \"name\": \"ConfigurationSchema\", \"namespace\": \"org.kaa.config\", \"fields\": [ { \"name\": \"Properties\", \"type\": [ { \"type\": \"array\", \"items\": { \"name\": \"ConfigurationProperty\", \"namespace\": \"config.system\", \"type\": \"record\", \"fields\": [ { \"name\": \"name\", \"type\": [ \"string\", { \"symbols\": [ \"unchanged\" ], \"name\": \"unchangedT\", \"type\": \"enum\", \"namespace\": \"org.kaaproject.configuration\" } ] } }, { \"name\": \"value\", \"type\": [ \"string\", \"org.kaaproject.configuration.unchangedT\" ] }, { \"name\": \"__uuid\", \"type\": [ { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\" }, \"null\"] } ] } }, \"org.kaaproject.configuration.unchangedT\" ], { \"name\": \"__uuid\", \"type\": [ \"org.kaaproject.configuration.uuidT\", \"null\"] } ] }\",
  "protocolSchema":
  "{ \"items\": { \"name\": \"deltaT\", \"type\": \"record\", \"fields\": [ { \"name\": \"delta\", \"type\": [ { \"type\": \"record\", \"name\": \"ConfigurationSchema\", \"namespace\": \"org.kaa.config\", \"fields\": [ { \"name\": \"Prop
```

```

erties\", \"type\": [{\"type\": \"array\", \"items\": [{\"name\": \"Configur
ationProperty\", \"namespace\": \"config.system\", \"type\": \"record\", \"
fields\": [{\"name\": \"name\", \"type\": [\"string\", {\"symbols\": [\"unch
anged\"], \"name\": \"unchangedT\", \"type\": \"enum\", \"namespace\": \"org
.kaaproject.configuration\"}]}], {\"name\": \"value\", \"type\": [\"string\
\", \"org.kaaproject.configuration.unchangedT\"]}, {\"name\": \"__uuid\", \
\"type\": {\"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace
\": \"org.kaaproject.configuration\"}}]}], \"org.kaaproject.configuration
.uuidT\"}], {\"symbols\": [\"reset\"], \"name\": \"resetT\", \"type\": \"enu
m\", \"namespace\": \"org.kaaproject.configuration\", \"org.kaaproject.c
onfiguration.unchangedT\"}], {\"name\": \"__uuid\", \"type\": \"org.kaapro
ject.configuration.uuidT\"}}], \"config.system.ConfigurationProperty\"]
}], \"namespace\": \"org.kaaproject.configuration\", \"type\": \"array\"}
\",
  \"schema\": \"{\\r\\n    \\\"type\\\": \\\"record\\\",\\r\\n    \\\"name\\\":
\\\"ConfigurationSchema\\\",\\r\\n    \\\"namespace\\\": \\\"org.kaa.config\\\",\\r\\n
\\\"fields\\\": [\\r\\n        {\\r\\n            \\\"name\\\":
\\\"Properties\\\",\\r\\n            \\\"type\\\": {\\r\\n
\\\"type\\\": \\\"array\\\",\\r\\n            \\\"items\\\": {\\r\\n
\\\"name\\\": \\\"ConfigurationProperty\\\",\\r\\n
\\\"namespace\\\": \\\"config.system\\\",\\r\\n            \\\"type\\\":
\\\"record\\\",\\r\\n            \\\"fields\\\": [\\r\\n
{\\r\\n                \\\"name\\\": \\\"name\\\",\\r\\n
\\\"type\\\": \\\"string\\\"\\r\\n                },\\r\\n
{\\r\\n                \\\"name\\\": \\\"value\\\",\\r\\n
\\\"type\\\": \\\"string\\\"\\r\\n                }\\r\\n
}\\r\\n            }\\r\\n        }\\r\\n    }\\r\\n}\",

```

```
"status": null
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the configuration schema does not match the Tenant ID of the authenticated user
404 Not Found	Configuration schema with the specified configurationSchemald does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/configurationSchema/94" | python
-mjson.tool
```

▼ **Example result**

```
{
  "applicationId": "71",
  "baseSchema":
  "{ \"type\": \"record\", \"name\": \"ConfigurationSchema\", \"namespace\": \"org.
kaa.config\", \"fields\": [{ \"name\": \"Properties\", \"type\": { \"type\": \"arra
y\", \"items\": { \"name\": \"ConfigurationProperty\", \"namespace\": \"config.s
ystem\", \"type\": \"record\", \"fields\": [{ \"name\": \"name\", \"type\": \"string
\", { \"name\": \"value\", \"type\": \"string\" }, { \"name\": \"__uuid\", \"type\":
[ { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaa
project.configuration\", \"null\": \"\" } ] } ] } }, { \"name\": \"__uuid\", \"type\": [ \"or
g.kaaproject.configuration.uuidT\", \"null\": \"\" ] } ] }\",
  "createdTime": 1408638999001,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "94",
  "majorVersion": 1,
  "minorVersion": 0,
  "name": "Generated",
  "overrideSchema":
  "{ \"type\": \"record\", \"name\": \"ConfigurationSchema\", \"namespace\": \"org.
kaa.config\", \"fields\": [{ \"name\": \"Properties\", \"type\": { \"type\": \"arr
ay\", \"items\": { \"name\": \"ConfigurationProperty\", \"namespace\": \"config.s
ystem\", \"type\": \"record\", \"fields\": [{ \"name\": \"name\", \"type\": [ \"stri
ng\", { \"symbols\": [ \"unchanged\" ], \"name\": \"unchangedT\", \"type\": \"enum\"
, \"namespace\": \"org.kaaproject.configuration\" } ] } }, { \"name\": \"value\", \"ty
pe\": [ \"string\", \"org.kaaproject.configuration.unchangedT\" ] }, { \"name\": \"
__uuid\", \"type\": [ { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"nam
espace\": \"org.kaaproject.configuration\", \"null\": \"\" } ] } ] } }, \"org.kaaproject.c
```

```
onfiguration.unchangedT"}}, {"name\":"__uuid\","type\":["org.kaaproject
.configuration.uuidT","\null\"]}]},
  "protocolSchema":
  "{\items\":{"name\":"deltaT\","type\":"record\","fields\":[{\name\":"
  \delta\","type\":["type\":"record\","name\":"ConfigurationSchema\","
  \namespace\":"org.kaa.config\","fields\":[{\name\":"Properties\","type
  \":["type\":"array\","items\":[{\name\":"ConfigurationProperty\","na
  mespace\":"config.system\","type\":"record\","fields\":[{\name\":"nam
  e\","type\":["string\","symbols\":["unchanged\"],"name\":"unchangedT
  \","type\":"enum\","namespace\":"org.kaaproject.configuration\"]}],{\n
  ame\":"value\","type\":["string\","org.kaaproject.configuration.unchang
  edT"}]}, {"name\":"__uuid\","type\":{"name\":"uuidT\","type\":"fixed\
  \","size\":16,"namespace\":"org.kaaproject.configuration\"]}],\org.kaap
  roject.configuration.uuidT"}]}, {"symbols\":["reset\"],"name\":"resetT\
  \","type\":"enum\","namespace\":"org.kaaproject.configuration\","org.ka
  aproject.configuration.unchangedT"}]}, {"name\":"__uuid\","type\":"org.k
  aaproject.configuration.uuidT"}]}, \config.system.ConfigurationProperty\
  ]}], \namespace\":"org.kaaproject.configuration\","type\":"array\"}",
  "schema": "{\r\n  \type\":"record\","r\n  \name\":"
  \ConfigurationSchema\","r\n  \namespace\":"org.kaa.config\","r\n
  \fields\":[\r\n    {\r\n      \name\":"Properties\","r\n
  \type\": {\r\n        \type\":"array\","r\n
  \items\": {\r\n          \name\":"
  \ConfigurationProperty\","r\n          \namespace\":"
  \config.system\","r\n          \type\":"record\","r\n
  \fields\":[\r\n            {\r\n              \name\":"name\","r\n
  \type\":"string\","r\n
  },\r\n          {\r\n            \name\":"
  \value\","r\n            \type\":"string\","r\n
  }\r\n          ]\r\n        }\r\n      }\r\n    ]\r\n  }",
```

```
    "status": null
  }
```

## Create configuration schema

Uploads a configuration schema. A unique version number will be generated (incrementally) for the uploaded schema, and the createUsername field of the schema will be set to the name of the user who uploaded it. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/configurationSchema

- **Method:**  
POST

- **URL params**  
None

- **Data params**

Multipart/form-data encoding. Fields:

- ▼ configurationSchema (content-type: application/json)

**Example:**

```
{ "applicationId": "71", "name": "Test configuration
schema", "description": "Configuration Schema Description" }
```

- ▼ file (content-type: application/octet-stream)

**File contents example:**

```

{
  "type": "record",
  "name": "TestConfigurationSchema",
  "namespace": "org.kaa.config.test",
  "fields": [
    {
      "name": "Properties",
      "type": {
        "type": "array",
        "items": {
          "name": "ConfigurationProperty",
          "namespace": "config.system",
          "type": "record",
          "fields": [
            {
              "name": "name",
              "type": "string"
            },
            {
              "name": "value",
              "type": "string"
            }
          ]
        }
      }
    }
  ]
}

```

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```

{
  "applicationId": "71",
  "baseSchema":
  "{ \"type\": \"record\", \"name\": \"TestConfigurationSchema\", \"namespace\": \"org.kaa.config.test\", \"fields\": [{ \"name\": \"Properties\", \"type\": { \"type\": \"array\", \"items\": { \"name\": \"ConfigurationProperty\", \"namespace\": \"config.system\", \"type\": \"record\", \"fields\": [{ \"name\": \"name\", \"type\": \"string\" }, { \"name\": \"value\", \"type\": \"string\" } ], \"name\": \"__uuid\", \"type\": [ \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\" }, \"null\" ] ] } }, { \"name\": \"__uuid\", \"type\": [ \"org.kaaproject.configuration.uuidT\", \"null\" ] } ]\",
  "createdTime": 1408705295749,
  "createdUsername": "devuser",
  "description": "Configuration Schema Description",
  "endpointCount": 0,
  "id": "96",
  "majorVersion": 2,
  "minorVersion": 0,
  "name": "Test configuration schema",
  "overrideSchema":

```





```

}\n          }\n          }\n          }\n  }\n",
  "status": null
}

```

- **Error response:**

Status codes	Description
400 Bad Request	Specified configuration schema is not a valid avro schema
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the configuration schema does not match the Tenant ID of the authenticated user
404 Not Found	File with a schema not found in the form data
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```

curl -v -S -u devuser:devuser123
-F'configurationSchema={"applicationId":"71","name":"Test configuration
schema","description":"Configuration Schema
Description"};type=application/json' -F file=@configuration_schema.json
"http://localhost:8080/kaaAdmin/rest/api/configurationSchema" | python
-mjson.tool

```

- **Example result**

```

{
  "applicationId": "71",
  "baseSchema":
  "{ \"type\": \"record\", \"name\": \"TestConfigurationSchema\", \"namespace\": \"
org.kaa.config.test\", \"fields\": [ { \"name\": \"Properties\", \"type\": { \"type
\": \"array\", \"items\": { \"name\": \"ConfigurationProperty\", \"namespace\": \"
config.system\", \"type\": \"record\", \"fields\": [ { \"name\": \"name\", \"type\"
: \"string\" }, { \"name\": \"value\", \"type\": \"string\" }, { \"name\": \"__uuid\",
\"type\": [ { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\":
\"org.kaaproject.configuration\", \"null\": \"\" } ] } ] } }, { \"name\": \"__uuid\", \"typ
e\": [ \"org.kaaproject.configuration.uuidT\", \"null\" ] } ] }\",
  "createdTime": 1408705295749,
  "createdUsername": "devuser",
  "description": "Configuration Schema Description",
  "endpointCount": 0,
  "id": "96",
  "majorVersion": 2,
  "minorVersion": 0,
  "name": "Test configuration schema",
  "overrideSchema":
  "{ \"type\": \"record\", \"name\": \"TestConfigurationSchema\", \"namespace\": \"
org.kaa.config.test\", \"fields\": [ { \"name\": \"Properties\", \"type\": [ { \"typ

```

```

e\:"array",\items\:{\name\:"ConfigurationProperty",\namespace\:"
config.system",\type\:"record",\fields\:[{\name\:"name",\type\
:[\string],{\symbols\:[\unchanged],\name\:"unchangedT",\type\
:\enum,\namespace\:"org.kaaproject.configuration"}]},{\name\:"val
ue",\type\:[\string,\org.kaaproject.configuration.unchangedT]},{\
name\:"__uuid",\type\:[{\name\:"uuidT",\type\:"fixed",\size\
:16,\namespace\:"org.kaaproject.configuration",\null\}]}}},\org.kaa
project.configuration.unchangedT]},{\name\:"__uuid",\type\:[\org.k
aaproject.configuration.uuidT,\null\]}}},
  "protocolSchema":
  "{\items\:{\name\:"deltaT",\type\:"record",\fields\:[{\name\:"
delta",\type\:[\type\:"record",\name\:"TestConfigurationSchema
",\namespace\:"org.kaa.config.test",\fields\:[{\name\:"Properties
",\type\:[{\type\:"array",\items\:[{\name\:"ConfigurationProper
ty",\namespace\:"config.system",\type\:"record",\fields\:[{\nam
e\:"name",\type\:[\string],{\symbols\:[\unchanged],\name\:"u
nchangedT",\type\:"enum",\namespace\:"org.kaaproject.configuration
"}]},{\name\:"value",\type\:[\string,\org.kaaproject.configuratio
n.unchangedT]},{\name\:"__uuid",\type\:{\name\:"uuidT",\type\
:\fixed,\size\:16,\namespace\:"org.kaaproject.configuration"}]}},\
org.kaaproject.configuration.uuidT]},{\symbols\:[\reset],\name\:"
resetT",\type\:"enum",\namespace\:"org.kaaproject.configuration"
},\org.kaaproject.configuration.unchangedT]},{\name\:"__uuid",\type\
:"org.kaaproject.configuration.uuidT"}]}},\config.system.ConfigurationPr
operty\]}},\namespace\:"org.kaaproject.configuration",\type\:"arra
y"}},
  "schema": "{\n
    \type\:"record",\n
    \name\:"
TestConfigurationSchema",\n
    \namespace\:" org.kaa.config.test",\n
    \fields\:[\n
      {\n
        \name\:" Properties",\n
        \type\:{\n
          \type\:"array",\n
          \items\:{\n
            \name\:" ConfigurationProperty",\n
            \namespace\:" config.system",\n
            \type\:"
record",\n
            \fields\:[\n
              {\n
                \name\:" name",\n
                \type\:" string",\n
              },\n
              {\n
                \name\:"
value",\n
                \type\:" string",\n
              },\n
              {\n
                \name\:"
__uuid",\n
                \type\:"
fixed",\n
                \size\:16,\n
                \namespace\:"
org.kaaproject.configuration",\n
              },\n
              {\n
                \name\:"
uuidT",\n
                \type\:"
fixed",\n
                \size\:16,\n
                \namespace\:"
org.kaaproject.configuration",\n
              },\n
              {\n
                \name\:"
reset",\n
                \type\:"
enum",\n
                \namespace\:"
org.kaaproject.configuration",\n
              },\n
              {\n
                \name\:"
__uuid",\n
                \type\:"
org.kaaproject.configuration.uuidT",\n
              },\n
            ],\n
          },\n
        },\n
      ],\n
    },\n
  }"

```

```
] \n}",
  "status": null
}
```

## Get configuration records

Returns all configuration records for the specified endpoint group. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/configurationRecords?endpointGroupId&includeDeprecated

- **Method:**

GET

- **URL params**

Parameter	Value	Description
endpointGroupId	string	the ID of the endpoint group
includeDeprecated	string	["true" or "false"] if "true", all configuration records will be returned, including deprecated ones. If "false", only active and inactive configuration records will be returned

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
[
  {
    "activeConfiguration": {
      "activatedTime": 1408705246553,
      "activatedUsername": "admin",
      "applicationId": "71",
      "body":
        "{ \"Properties\": [ ], \"__uuid\": { \"org.kaaproject.configuration.uuidT\": \"k\u00ff\u00ca\u00f6~OI\u0018\u00b5\u00bb\u00bcI\u00dc\u0094\u00acB\" } }",
      "createdTime": 1408705246535,
      "createdUsername": "admin",
      "deactivatedTime": 0,
      "deactivatedUsername": null,
      "description": "Generated",
      "endpointCount": 0,
      "endpointGroupId": "81",
      "id": "103",
      "lastModifyTime": 1408705246539,
      "majorVersion": 1,
      "minorVersion": 0,
      "modifiedUsername": null,
      "protocolSchema":
        "{ \"items\": { \"name\": \"deltaT\", \"type\": \"record\", \"fields\": [ { \"name\": \"delta\", \"type\": [ { \"type\": \"record\", \"name\": \"Configuration
```

```

Schema\", \"namespace\": \"org.kaa.config\", \"fields\": [{\"name\": \"Prop
erties\", \"type\": [{\"type\": \"array\", \"items\": [{\"name\": \"Configur
ationProperty\", \"namespace\": \"config.system\", \"type\": \"record\", \"
fields\": [{\"name\": \"name\", \"type\": [\"string\", {\"symbols\": [\"unch
anged\"], \"name\": \"unchangedT\", \"type\": \"enum\", \"namespace\": \"org
.kaaproject.configuration\"}]}], {\"name\": \"value\", \"type\": [\"string\
\", \"org.kaaproject.configuration.unchangedT\"], {\"name\": \"__uuid\", \"
type\": {\"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace
\": \"org.kaaproject.configuration\"}]}], \"org.kaaproject.configuration
.uuidT\"}], {\"symbols\": [\"reset\"], \"name\": \"resetT\", \"type\": \"enu
m\", \"namespace\": \"org.kaaproject.configuration\", \"org.kaaproject.c
onfiguration.unchangedT\"}], {\"name\": \"__uuid\", \"type\": \"org.kaapro
ject.configuration.uuidT\"}]}], \"config.system.ConfigurationProperty\"]
}], \"namespace\": \"org.kaaproject.configuration\", \"type\": \"array\"}
\",
    \"schemaId\": \"94\",
    \"sequenceNumber\": 1,
    \"status\": \"ACTIVE\"
  },
  \"inactiveConfiguration\": null
},
{
  \"activeConfiguration\": {
    \"activatedTime\": 1408705295840,
    \"activatedUsername\": \"devuser\",
    \"applicationId\": \"71\",
    \"body\":
    \"{\\\"Properties\\\": [], \\\"__uuid\\\": \\\"org.kaaproject.configuration.uuidT\\
    : \\\"\\rV\\u00efRG\\u009aC\\u00fe\\u00a9 5\\u00d3S\\u00d91A\\\"}\"\",
    \"createdTime\": 1408705295819,
    \"createdUsername\": \"devuser\",
    \"deactivatedTime\": 0,
    \"deactivatedUsername\": null,
    \"description\": \"Generated\",
    \"endpointCount\": 0,
    \"endpointGroupId\": \"81\",
    \"id\": \"104\",
    \"lastModifyTime\": 1408705295824,
    \"majorVersion\": 2,
    \"minorVersion\": 0,
    \"modifiedUsername\": null,
    \"protocolSchema\":
    \"{\\\"items\\\": {\\\"name\\\": \\\"deltaT\\\", \\\"type\\\": \\\"record\\\", \\\"fields\\\": [{\\\"na
    me\\\": \\\"delta\\\", \\\"type\\\": [{\\\"type\\\": \\\"record\\\", \\\"name\\\": \\\"TestConfigura
    tionSchema\\\", \\\"namespace\\\": \\\"org.kaa.config.test\\\", \\\"fields\\\": [{\\\"name
    \\\": \\\"Properties\\\", \\\"type\\\": [{\\\"type\\\": \\\"array\\\", \\\"items\\\": [{\\\"name\\\": \\
    ConfigurationProperty\\\", \\\"namespace\\\": \\\"config.system\\\", \\\"type\\\": \\\"re
    cord\\\", \\\"fields\\\": [{\\\"name\\\": \\\"name\\\", \\\"type\\\": [\\\"string\\\", {\\\"symbols\\
    \\\": [\\\"unchanged\\\"], \\\"name\\\": \\\"unchangedT\\\", \\\"type\\\": \\\"enum\\\", \\\"namespac
    e\\\": \\\"org.kaaproject.configuration\\\"}]}], {\\\"name\\\": \\\"value\\\", \\\"type\\\": [
    \\\"string\\\", \\\"org.kaaproject.configuration.unchangedT\\\"], {\\\"name\\\": \\\"_
    _uuid\\\", \\\"type\\\": {\\\"name\\\": \\\"uuidT\\\", \\\"type\\\": \\\"fixed\\\", \\\"size\\\": 16, \\
    namespace\\\": \\\"org.kaaproject.configuration\\\"}]}], \\\"org.kaaproject.conf
    igation.uuidT\\\"}], {\\\"symbols\\\": [\\\"reset\\\"], \\\"name\\\": \\\"resetT\\\", \\\"typ
    e\\\": \\\"enum\\\", \\\"namespace\\\": \\\"org.kaaproject.configuration\\\", \\\"org.kaa
    project.configuration.unchangedT\\\"}], {\\\"name\\\": \\\"__uuid\\\", \\\"type\\\": \\\"o
    rg.kaaproject.configuration.uuidT\\\"}]}], \\\"config.system.ConfigurationPr
    operty\\\"}]}], \\\"namespace\\\": \\\"org.kaaproject.configuration\\\", \\\"type\\\": \\
    array\\\"}\"\",

```

```

        "schemaId": "96",
        "sequenceNumber": 1,
        "status": "ACTIVE"
    },
    "inactiveConfiguration": null
},
{
    "activeConfiguration": {
        "activatedTime": 1408705339202,
        "activatedUsername": "devuser",
        "applicationId": "71",
        "body":
"{{\"Properties\": [], \"__uuid\": {\"org.kaaproject.configuration.uuidT\": \"+\\u0016r\\u00b8\\u00f7*Nt\\u0098+\\u001c'\\n\\u00f9\\u00e5\\u00cb\"}}",
        "createdTime": 1408705339183,
        "createdUsername": "devuser",
        "deactivatedTime": 0,
        "deactivatedUsername": null,
        "description": "Generated",
        "endpointCount": 0,
        "endpointGroupId": "81",
        "id": "105",
        "lastModifyTime": 1408705339188,
        "majorVersion": 3,
        "minorVersion": 0,
        "modifiedUsername": null,
        "protocolSchema":
"{{\"items\": {\"name\": \"deltaT\", \"type\": \"record\", \"fields\": [{\"name\": \"delta\", \"type\": [{\"type\": \"record\", \"name\": \"TestConfigurationSchema\", \"namespace\": \"org.kaa.config.test\", \"fields\": [{\"name\": \"Properties\", \"type\": [{\"type\": \"array\", \"items\": [{\"name\": \"ConfigurationProperty\", \"namespace\": \"config.system\", \"type\": \"record\", \"fields\": [{\"name\": \"name\", \"type\": [\"string\", {\"symbols\": [\"unchanged\"], \"name\": \"unchangedT\", \"type\": \"enum\", \"namespace\": \"org.kaaproject.configuration\"}]}], {\"name\": \"value\", \"type\": [\"string\", \"org.kaaproject.configuration.unchangedT\"]}, {\"name\": \"__uuid\", \"type\": {\"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\"}]}]}], \"org.kaaproject.configuration.uuidT\"}], {\"symbols\": [\"reset\"], \"name\": \"resetT\", \"type\": \"enum\", \"namespace\": \"org.kaaproject.configuration\"}, \"org.kaaproject.configuration.unchangedT\"}], {\"name\": \"__uuid\", \"type\": \"org.kaaproject.configuration.uuidT\"}]}], \"config.system.ConfigurationProperty\"}}], \"namespace\": \"org.kaaproject.configuration\", \"type\": \"array\"}}",
        "schemaId": "97",
        "sequenceNumber": 1,
        "status": "ACTIVE"
    },
    "inactiveConfiguration": null
}

```

```
    }
  ]
}
```

- **Error response:**

Status codes	Description
400 Bad Request	endpointGroupId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/configurationRecords?endpointGroupId=
81&includeDeprecated=true" | python -mjson.tool
```

- **Example result**

```
[
  {
    "activeConfiguration": {
      "activatedTime": 1408705246553,
      "activatedUsername": "admin",
      "applicationId": "71",
      "body":
      "{\\"Properties\\":[],\\"__uuid\\":{\\"org.kaaproject.configuration.uuidT\\":\\"k\
u00ff\u00ca\u00f6~OI\\u0018\u00b5\u00bb\u00bcI\u00dc\u0094\u00acB\\"}}",
      "createdTime": 1408705246535,
      "createdUsername": "admin",
      "deactivatedTime": 0,
      "deactivatedUsername": null,
      "description": "Generated",
      "endpointCount": 0,
      "endpointGroupId": "81",
      "id": "103",
      "lastModifyTime": 1408705246539,
      "majorVersion": 1,
      "minorVersion": 0,
      "modifiedUsername": null,
      "protocolSchema":
      "{\\"items\\":{\\"name\\":\\"deltaT\\",\\"type\\":\\"record\\",\\"fields\\":[{\\"name\\":
\\"delta\\",\\"type\\":[{\\"type\\":\\"record\\",\\"name\\":\\"ConfigurationSchema\\",
\\"namespace\\":\\"org.kaa.config\\",\\"fields\\":[{\\"name\\":\\"Properties\\",\\"type
\\":[{\\"type\\":\\"array\\",\\"items\\":[{\\"name\\":\\"ConfigurationProperty\\",\\"na
mespace\\":\\"config.system\\",\\"type\\":\\"record\\",\\"fields\\":[{\\"name\\":\\"nam
```

```

e\,"type":["string"],{"symbols":["unchanged"],"name":"unchangedT
\","type":"enum","namespace":"org.kaaproject.configuration"}},{"n
ame":"value","type":["string"],"org.kaaproject.configuration.unchang
edT"}},{"name":"__uuid","type":{"name":"uuidT","type":"fixed\
","size":16,"namespace":"org.kaaproject.configuration"}},{"org.kaap
roject.configuration.uuidT"}},{"symbols":["reset"],"name":"resetT\
","type":"enum","namespace":"org.kaaproject.configuration"},"org.ka
aproject.configuration.unchangedT"}},{"name":"__uuid","type":"org.k
aaproject.configuration.uuidT"}},{"config.system.ConfigurationProperty\
}],{"namespace":"org.kaaproject.configuration"},"type":"array"}",
    "schemaId": "94",
    "sequenceNumber": 1,
    "status": "ACTIVE"
  },
  "inactiveConfiguration": null
},
{
  "activeConfiguration": {
    "activatedTime": 1408705295840,
    "activatedUsername": "devuser",
    "applicationId": "71",
    "body":
    "{\"Properties\":[],\"__uuid\":{\"org.kaaproject.configuration.uuidT\":\"\\
rV\u00efRG\u009aC\u00fe\u00a9 5\u00d3S\u00d91A\"}}",
    "createdTime": 1408705295819,
    "createdUsername": "devuser",
    "deactivatedTime": 0,
    "deactivatedUsername": null,
    "description": "Generated",
    "endpointCount": 0,
    "endpointGroupId": "81",
    "id": "104",
    "lastModifyTime": 1408705295824,
    "majorVersion": 2,
    "minorVersion": 0,
    "modifiedUsername": null,
    "protocolSchema":
    "{\"items\":{\"name\":\"deltaT\",\"type\":\"record\",\"fields\":{\"name\
\":\"delta\",\"type\":{\"type\":\"record\",\"name\":\"TestConfigurationSchema
\","namespace":"org.kaa.config.test\",\"fields\":{\"name\":\"Properties
\","type\":{\"type\":\"array\",\"items\":{\"name\":\"ConfigurationProper
ty\",\"namespace\":\"config.system\",\"type\":\"record\",\"fields\":{\"nam
e\":\"name\",\"type":["string"],{"symbols":["unchanged"],"name\":\"u
nchangedT\",\"type\":\"enum\",\"namespace":"org.kaaproject.configuration
"}},{"name\":\"value\",\"type":["string"],"org.kaaproject.configuratio
n.unchangedT"}},{"name\":\"__uuid\",\"type\":{\"name\":\"uuidT\",\"type\"
\":\"fixed\",\"size\":16,\"namespace":"org.kaaproject.configuration"}},\
"org.kaaproject.configuration.uuidT"}},{"symbols":["reset"],"name\":\"
resetT\",\"type\":\"enum\",\"namespace":"org.kaaproject.configuration\"
},"org.kaaproject.configuration.unchangedT"}},{"name\":\"__uuid\",\"type\
\":\"org.kaaproject.configuration.uuidT"}},{"config.system.ConfigurationPr
operty\}]],\"namespace\":\"org.kaaproject.configuration"},"type":"arra
y"}",
    "schemaId": "96",
    "sequenceNumber": 1,
    "status": "ACTIVE"
  },
  "inactiveConfiguration": null
},

```

```
{
  "activeConfiguration": {
    "activatedTime": 1408705339202,
    "activatedUsername": "devuser",
    "applicationId": "71",
    "body":
    "{\"Properties\": [], \"__uuid\": \"org.kaaproject.configuration.uuidT\": \"+\u0016r\u00b8\u00f7*Nt\u0098+\u001C'\u00f9\u00e5\u00cb\"}\",
    "createdTime": 1408705339183,
    "createdUsername": "devuser",
    "deactivatedTime": 0,
    "deactivatedUsername": null,
    "description": "Generated",
    "endpointCount": 0,
    "endpointGroupId": "81",
    "id": "105",
    "lastModifyTime": 1408705339188,
    "majorVersion": 3,
    "minorVersion": 0,
    "modifiedUsername": null,
    "protocolSchema":
    "{\"items\": {\"name\": \"deltaT\", \"type\": \"record\", \"fields\": [{\"name\": \"delta\", \"type\": [{\"type\": \"record\", \"name\": \"TestConfigurationSchema\", \"namespace\": \"org.kaa.config.test\", \"fields\": [{\"name\": \"Properties\", \"type\": [{\"type\": \"array\", \"items\": [{\"name\": \"ConfigurationProperty\", \"namespace\": \"config.system\", \"type\": \"record\", \"fields\": [{\"name\": \"name\", \"type\": \"string\", \"symbols\": [\"unchanged\"], \"name\": \"unchangedT\", \"type\": \"enum\", \"namespace\": \"org.kaaproject.configuration\"}]}], {\"name\": \"value\", \"type\": [\"string\", \"org.kaaproject.configuration.unchangedT\"]}, {\"name\": \"__uuid\", \"type\": {\"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\"}}]}, {\"symbols\": [\"reset\"], \"name\": \"resetT\", \"type\": \"enum\", \"namespace\": \"org.kaaproject.configuration\", \"org.kaaproject.configuration.unchangedT\"]}, {\"name\": \"__uuid\", \"type\": \"org.kaaproject.configuration.uuidT\"}]}, {\"config.system.ConfigurationProperty\"}]}, {\"namespace\": \"org.kaaproject.configuration\", \"type\": \"array\"}\",
    "schemaId": "97",
    "sequenceNumber": 1,
    "status": "ACTIVE"
  },
  "inactiveConfiguration": null
}
```



```
]
}
```

## Get configuration record

Returns the configuration record for the specified endpoint group and configuration schema. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/configurationRecord?schemald&endpointGroupld

- **Method:**

GET

- **URL params**

Parameter	Value	Description
schemald	string	the ID of the configuration schema
endpointGroupld	string	the ID of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**  
**Example:**

```

{
  "activeConfiguration": {
    "activatedTime": 1408705339202,
    "activatedUsername": "devuser",
    "applicationId": "71",
    "body":
    "{\\"Properties\\":[],\\"__uuid\\":{\\"org.kaaproject.configuration.uuidT\\"
:\\"+\\"u0016r\\u00b8\\u00f7*Nt\\u0098+\\\"u001c'\\n\\u00f9\\u00e5\\u00cb\\"}}",
    "createdTime": 1408705339183,
    "createdUsername": "devuser",
    "deactivatedTime": 0,
    "deactivatedUsername": null,
    "description": "Generated",
    "endpointCount": 0,
    "endpointGroupId": "81",
    "id": "105",
    "lastModifyTime": 1408705339188,
    "majorVersion": 3,
    "minorVersion": 0,
    "modifiedUsername": null,
    "protocolSchema":
    "{\\"items\\":{\\"name\\":\\"deltaT\\",\\"type\\":\\"record\\",\\"fields\\":[{\\"na
me\\":\\"delta\\",\\"type\\":[{\\"type\\":\\"record\\",\\"name\\":\\"TestConfigura
tionSchema\\",\\"namespace\\":\\"org.kaa.config.test\\",\\"fields\\":[{\\"name
\\":\\"Properties\\",\\"type\\":[{\\"type\\":\\"array\\",\\"items\\":[{\\"name\\":\\"
ConfigurationProperty\\",\\"namespace\\":\\"config.system\\",\\"type\\":\\"re
cord\\",\\"fields\\":[{\\"name\\":\\"name\\",\\"type\\":[\\"string\\",{\\"symbols\\
\\":\\"unchanged\\",\\"name\\":\\"unchangedT\\",\\"type\\":\\"enum\\",\\"namespac
e\\":\\"org.kaaproject.configuration\\"}}],{\\"name\\":\\"value\\",\\"type\\":[
\\"string\\",\\"org.kaaproject.configuration.unchangedT\\"}],{\\"name\\":\\"_
__uuid\\",\\"type\\":{\\"name\\":\\"uuidT\\",\\"type\\":\\"fixed\\",\\"size\\":16,\\"
namespace\\":\\"org.kaaproject.configuration\\"}}]}],\\"org.kaaproject.conf
iguration.uuidT\\"}],{\\"symbols\\":[\\"reset\\",\\"name\\":\\"resetT\\",\\"typ
e\\":\\"enum\\",\\"namespace\\":\\"org.kaaproject.configuration\\",\\"org.kaa
project.configuration.unchangedT\\"}],{\\"name\\":\\"__uuid\\",\\"type\\":\\"o
rg.kaaproject.configuration.uuidT\\"}}],\\"config.system.ConfigurationPr
operty\\"}}],\\"namespace\\":\\"org.kaaproject.configuration\\",\\"type\\":\\"
array\\"}",
    "schemaId": "97",
    "sequenceNumber": 1,
    "status": "ACTIVE"
  },
  "inactiveConfiguration": null
}

```

• **Error response:**

Status codes	Description
400 Bad Request	endpointGroupId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided

403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist or the endpoint group does not have the requested configuration record
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET  
"http://localhost:8080/kaaAdmin/rest/api/configurationRecord?schemaId=97&endpointGroupId=81" | python -mjson.tool
```

▼ [Example result](#)

```

{
  "activeConfiguration": {
    "activatedTime": 1408705339202,
    "activatedUsername": "devuser",
    "applicationId": "71",
    "body":
    "{\\"Properties\\":[],\\"__uuid\\":{\\"org.kaaproject.configuration.uuidT\\":\\"+\\"
    \u0016r\u00b8\u00f7*Nt\u0098+\\"u001C'\\"n\u00f9\u00e5\u00cb\\"}}",
    "createdTime": 1408705339183,
    "createdUsername": "devuser",
    "deactivatedTime": 0,
    "deactivatedUsername": null,
    "description": "Generated",
    "endpointCount": 0,
    "endpointGroupId": "81",
    "id": "105",
    "lastModifyTime": 1408705339188,
    "majorVersion": 3,
    "minorVersion": 0,
    "modifiedUsername": null,
    "protocolSchema":
    "{\\"items\\":{\\"name\\":\\"deltaT\\",\\"type\\":\\"record\\",\\"fields\\":[{\\"name\\":
    \\"delta\\",\\"type\\":[{\\"type\\":\\"record\\",\\"name\\":\\"TestConfigurationSchema
    \\",\\"namespace\\":\\"org.kaa.config.test\\",\\"fields\\":[{\\"name\\":\\"Properties
    \\",\\"type\\":[{\\"type\\":\\"array\\",\\"items\\":[{\\"name\\":\\"ConfigurationProper
    ty\\",\\"namespace\\":\\"config.system\\",\\"type\\":\\"record\\",\\"fields\\":[{\\"nam
    e\\":\\"name\\",\\"type\\":[\\"string\\",{\\"symbols\\":[\\"unchanged\\"],\\"name\\":\\"u
    nchangedT\\",\\"type\\":\\"enum\\",\\"namespace\\":\\"org.kaaproject.configuration\
    "]}],{\\"name\\":\\"value\\",\\"type\\":[\\"string\\",\\"org.kaaproject.configuratio
    n.unchangedT\\"]}],{\\"name\\":\\"__uuid\\",\\"type\\":{\\"name\\":\\"uuidT\\",\\"type\
    \":\\"fixed\\",\\"size\\":16,\\"namespace\\":\\"org.kaaproject.configuration\"}]}],\
    "org.kaaproject.configuration.uuidT\\"}}],{\\"symbols\\":[\\"reset\\"],\\"name\\":\
    "resetT\\",\\"type\\":\\"enum\\",\\"namespace\\":\\"org.kaaproject.configuration\
    \\",\\"org.kaaproject.configuration.unchangedT\\"}}],{\\"name\\":\\"__uuid\\",\\"type\
    \":\\"org.kaaproject.configuration.uuidT\\"}}],\\"config.system.ConfigurationPr
    operty\\"}}],\\"namespace\\":\\"org.kaaproject.configuration\\",\\"type\\":\\"arra
    y\\"}",
    "schemaId": "97",
    "sequenceNumber": 1,
    "status": "ACTIVE"
  },
  "inactiveConfiguration": null
}

```

## Get configuration record body

Returns the configuration record string body for the specified endpoint group and configuration schema. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/configurationRecordBody?schemald&endpointGroupId
- **Method:**  
GET
- **URL params**

Parameter	Value	Description
schemald	string	the ID of the configuration schema
endpointGroupld	string	the ID of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```

{
  "AddressList": {
    "array": [
      {
        "__uuid": {
          "org.kaaproject.configuration.uuidT":
"\u0015\u00d4\u00f7\u00f3k\u0005@3\u00a9eb\u00cb\u00b6\u00ce]\u00b6"
        },
        "label": "Kaa website",
        "url": "http://www.kaaproject.org"
      },
      {
        "__uuid": {
          "org.kaaproject.configuration.uuidT":
"\u00d7\u008c\r\u00b2(E@F\u0088^9\u00b6sH\u00a9\u00e9"
        },
        "label": "Kaa GitHub repository",
        "url": "https://github.com/kaaproject/kaa"
      },
      {
        "__uuid": {
          "org.kaaproject.configuration.uuidT":
"T\u0088.\u0088\u0000QM0\u00ac\u00ba\u00c6\u00895\u00cb\u00dcs"
        },
        "label": "Kaa docs",
        "url":
"https://docs.kaaproject.org/display/KAA/Kaa+IoT+Platform+Home"
      },
      {
        "__uuid": {
          "org.kaaproject.configuration.uuidT":
"\u00b7\u00f9\u00d3D\u00fb[Ow\u00ad@\u0004I\u009c\u0003\u00a0\u0094"
        },
        "label": "Kaa configuration design reference",
        "url":
"https://docs.kaaproject.org/display/KAA/Configuration"
      }
    ]
  },
  "__uuid": {
    "org.kaaproject.configuration.uuidT":
"\u0007\u0095\u0081\u00c7}\u009aK\u007f\u00b9\u000b\u0004\u00fb\u00c3\u00f4q_"
  }
}

```

• **Error response:**

Status codes	Description
400 Bad Request	endpointGroupId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided

403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist or the endpoint group does not have the requested configuration record
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET  
"http://localhost:8080/kaaAdmin/rest/api/configurationRecordBody?schemaId=8&en  
dpointGroupId=4" | python -mjson.tool
```

▼ [Example result](#)

```

{
  "AddressList": {
    "array": [
      {
        "__uuid": {
          "org.kaaproject.configuration.uuidT":
"\u0015\u00d4\u00f7\u00f3k\u0005@3\u00a9eb\u00cb\u00b6\u00ce]\u00b6"
        },
        "label": "Kaa website",
        "url": "http://www.kaaproject.org"
      },
      {
        "__uuid": {
          "org.kaaproject.configuration.uuidT":
"\u00d7\u008c\r\u00b2(E@F\u0088^9\u00b6sH\u00a9\u00e9"
        },
        "label": "Kaa GitHub repository",
        "url": "https://github.com/kaaproject/kaa"
      },
      {
        "__uuid": {
          "org.kaaproject.configuration.uuidT":
"T\u0088.\u0088\u0000QM0\u00ac\u00ba\u00c6\u00895\u00cb\u00dcs"
        },
        "label": "Kaa docs",
        "url":
"https://docs.kaaproject.org/display/KAA/Kaa+IoT+Platform+Home"
      },
      {
        "__uuid": {
          "org.kaaproject.configuration.uuidT":
"\u00b7\u00f9\u00d3D\u00fb[Ow\u00ad@\u0004I\u009c\u0003\u00a0\u0094"
        },
        "label": "Kaa configuration design reference",
        "url":
"https://docs.kaaproject.org/display/KAA/Configuration"
      }
    ]
  },
  "__uuid": {
    "org.kaaproject.configuration.uuidT":
"\u0007\u0095\u0081\u00c7}\u009aK\u007f\u00b9\u000b\u0004\u00fb\u00c3\u00f4
q_"
  }
}

```

## Get vacant configuration schemas

Returns all vacant (not being used by endpoint group configurations) configuration schemas for the specified endpoint group. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/vacantConfigurationSchemas?endpointGroupId

- **Method:**  
GET



- **URL params**

Parameter	Value	Description
endpointGroupId	string	the ID of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
[
  {
    "id": "94",
    "majorVersion": 1,
    "minorVersion": 0
  },
  {
    "id": "96",
    "majorVersion": 2,
    "minorVersion": 0
  },
  {
    "id": "97",
    "majorVersion": 3,
    "minorVersion": 0
  }
]
```

- **Error response:**

Status codes	Description
400 Bad Request	endpointGroupId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/vacantConfigurationSchemas?endpointGroup
Id=83" | python -mjson.tool
```

[Example result](#)

```
[
  {
    "id": "94",
    "majorVersion": 1,
    "minorVersion": 0
  },
  {
    "id": "96",
    "majorVersion": 2,
    "minorVersion": 0
  },
  {
    "id": "97",
    "majorVersion": 3,
    "minorVersion": 0
  }
]
```

## Create/Edit configuration

Creates or updates a configuration. If a configuration with the specified ID does not exist, then it will be created and its createUsername field will be set to the name of the user who has uploaded it. If a configuration with the specified ID exists, the configuration will be updated and its modifyUsername will be set to the user who has submitted the request. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/configuration
- **Method:**  
POST
- **URL params**  
None
- **Data params**
  - ▼ Request body
  - Example:**

```
{ "applicationId": "71", "schemaId": "200", "endpointGroupId": "83", "majorVersion": "4", "minorVersion": "0", "description": "Test Configuration", "body": { "\testField1\": { \"string\": \"abc\" }, \"testField2\": { \"org.kaaproject.configuration.unchangedT\": \"unchanged\" }, \"__uuid\": null }, \"status\": \"INACTIVE\" }
```

- **Success response:**
  - **Code:** 200
  - ▼ Response body
  - Example:**

```

{
  "activatedTime": 0,
  "activatedUsername": null,
  "applicationId": "71",
  "body":
  "{ \"testField1\": { \"string\": \"abc\" }, \"testField2\": { \"org.kaaproject.configuration.unchangedT\": \"unchanged\" }, \"__uuid\": { \"org.kaaproject.configuration.uuidT\": \"4\\u001D\\u0005\\u001D\\u00b5\\u0094H\\u00e0\\u009e\\u00b32\\u00b0\\u00d7I\\u008d6\" } }",
  "createdTime": 1408722949496,
  "createdUsername": "devuser",
  "deactivatedTime": 0,
  "deactivatedUsername": null,
  "description": "Test Configuration",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "109",
  "lastModifyTime": 1408722949504,
  "majorVersion": 4,
  "minorVersion": 0,
  "modifiedUsername": null,
  "protocolSchema":
  "{ \"items\": { \"name\": \"deltaT\", \"type\": \"record\", \"fields\": [ { \"name\": \"delta\", \"type\": [ { \"name\": \"testT\", \"type\": \"record\", \"addresable\": true, \"fields\": [ { \"name\": \"testField1\", \"type\": [ \"string\", { \"symbols\": [ \"unchanged\" ], \"name\": \"unchangedT\", \"type\": \"enum\", \"namespace\": \"org.kaaproject.configuration\" } ], \"by_default\": \"\" }, { \"optional\": true, \"name\": \"testField2\", \"type\": [ \"null\", { \"type\": \"record\", \"name\": \"testRecordT\", \"namespace\": \"org.kaa.config\", \"fields\": [ { \"name\": \"testField3\", \"type\": [ \"int\", \"org.kaaproject.configuration.unchangedT\" ] }, { \"name\": \"__uuid\", \"type\": { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\" } ] } ], \"org.kaaproject.configuration.unchangedT\" } ], { \"name\": \"__uuid\", \"type\": \"org.kaaproject.configuration.uuidT\" } ], \"namespace\": \"org.kaa.config\", \"org.kaa.config.testRecordT\" } ], \"namespace\": \"org.kaaproject.configuration\", \"type\": \"array\" }",
  "schemaId": "200",
  "sequenceNumber": 0,
  "status": "INACTIVE"
}

```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist or a configuration with the specified configurationId not found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json' -d '{"applicationId": "71", "schemaId": "200", "endpointGroupId": "83", "majorVersion": "4", "minorVersion": "0", "description": "Test Configuration", "body": {"testField1": {"string": "abc"}, "testField2": {"org.kaaproject.configuration.unchangedT": "unchanged"}, "__uuid": null}, "status": "INACTIVE"}' "http://localhost:8080/kaaAdmin/rest/api/configuration" | python -mjson.tool
```

- ✓ **Example result**

```
{
  "activatedTime": 0,
  "activatedUsername": null,
  "applicationId": "71",
  "body":
    "{\n\"testField1\":{\n\"string\":\n\"abc\"},\n\"testField2\":{\n\"org.kaaproject.conf
    igation.unchangedT\":\n\"unchanged\"},\n\"__uuid\":{\n\"org.kaaproject.conf
    igation.uuidT\":\n\"4\\u001D\\u0005\\u001D\\u00b5\\u0094H\\u00e0\\u009e\\u00b32\\u00b
    0\\u00d7I\\u008d6\"}}",
  "createdTime": 1408722949496,
  "createdUsername": "devuser",
  "deactivatedTime": 0,
  "deactivatedUsername": null,
  "description": "Test Configuration",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "109",
  "lastModifyTime": 1408722949504,
  "majorVersion": 4,
  "minorVersion": 0,
  "modifiedUsername": null,
  "protocolSchema":
    "{\n\"items\":{\n\"name\":\n\"deltaT\", \n\"type\":\n\"record\", \n\"fields\":[{\n\"name\":
    \n\"delta\", \n\"type\":[{\n\"name\":\n\"testT\", \n\"type\":\n\"record\", \n\"addressable\"
    :true, \n\"fields\":[{\n\"name\":\n\"testField1\", \n\"type\":[{\n\"string\", {\n\"symbols\"
    :[{\n\"unchanged\"}, \n\"name\":\n\"unchangedT\", \n\"type\":\n\"enum\", \n\"namespace\":\n
    \"org.kaaproject.configuration\"}], \n\"by_default\":\n\"\", {\n\"optional\":true, \n
    \"name\":\n\"testField2\", \n\"type\":[{\n\"null\", {\n\"type\":\n\"record\", \n\"name\":\n\"t
    estRecordT\", \n\"namespace\":\n\"org.kaa.config\", \n\"fields\":[{\n\"name\":\n\"testF
    ield3\", \n\"type\":[{\n\"int\", \n\"org.kaaproject.configuration.unchangedT\"}], {\n
    \"name\":\n\"__uuid\", \n\"type\":[{\n\"name\":\n\"uuidT\", \n\"type\":\n\"fixed\", \n\"size\":
    16, \n\"namespace\":\n\"org.kaaproject.configuration\"}]}], \n\"org.kaaproject.conf
    igation.unchangedT\"}], {\n\"name\":\n\"__uuid\", \n\"type\":\n\"org.kaaproject.con
    figuration.uuidT\"}], \n\"namespace\":\n\"org.kaa.config\", \n\"org.kaa.config.tes
    tRecordT\"}]}], \n\"namespace\":\n\"org.kaaproject.configuration\", \n\"type\":\n\"ar
    ray\"}",
  "schemaId": "200",
  "sequenceNumber": 0,
  "status": "INACTIVE"
}
```

## Create/Edit user configuration

Creates or updates a configuration for the specific user under the application. If a configuration with the specified user ID does not exist, then it will be created. If a configuration with the specified user ID exists, the configuration will be updated. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/userConfiguration

- **Method:**  
POST

- **URL params**  
None

- **Data params**
  - ▼ Request body**Example:**

```
{ "userId": "someUserId", "appToken": "43390267759495641709", "schemaVersion": "2", "body": { "AddressList": { "array": [ { "label": { "string": "Kaa website" }, "url": { "string": "http://www.kaaproject.org" }, "__uuid": null } ] }, "__uuid": null } }
```

- **Success response:**

- **Code:** 200
- ▼ Response body

**Example:**

```
200 OK
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	A user with the specified userId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json' -d '{"userId": "externalUserId", "appToken": "43390267759495641709", "schemaVersion": "2", "body": { "AddressList": { "array": [ { "label": { "string": "Kaa website" }, "url": { "string": "http://www.kaaproject.org" }, "__uuid": null } ] }, "__uuid": null } }' "http://localhost:8080/kaaAdmin/rest/api/userConfiguration" | python -mjson.tool
```

- ▼ Example result

```
200 OK
```

## Activate configuration

Activates a configuration. Sets the status field of the configuration to ACTIVE, increments the sequenceNumber field value by 1, and sets the activateUsername and activatedTime fields to the name of the user who has submitted the request and the activation time, respectively. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/activateConfiguration

- **Method:**  
POST

- **URL params**  
None

- **Data params**
  - [Request body](#)  
**Example:**

```
109
```

- **Success response:**
  - **Code:** 200
  - [Response body](#)  
**Example:**

```

{
  "activatedTime": 1408723122998,
  "activatedUsername": "devuser",
  "applicationId": "71",
  "body":
  "{ \"testField1\": { \"string\": \"abc\" }, \"testField2\": { \"org.kaaproject.configuration.unchangedT\": \"unchanged\" }, \"__uuid\": { \"org.kaaproject.configuration.uuidT\": \"4\\u001D\\u0005\\u001D\\u00b5\\u0094H\\u00e0\\u009e\\u00b32\\u00b0\\u00d7I\\u008d6\" } }",
  "createdTime": 1408722949496,
  "createdUsername": "devuser",
  "deactivatedTime": 0,
  "deactivatedUsername": null,
  "description": "Test Configuration",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "109",
  "lastModifyTime": 1408722949504,
  "majorVersion": 4,
  "minorVersion": 0,
  "modifiedUsername": null,
  "protocolSchema":
  "{ \"items\": { \"name\": \"deltaT\", \"type\": \"record\", \"fields\": [ { \"name\": \"delta\", \"type\": [ { \"name\": \"testT\", \"type\": \"record\", \"addresable\": true, \"fields\": [ { \"name\": \"testField1\", \"type\": [ \"string\", { \"symbols\": [ \"unchanged\" ], \"name\": \"unchangedT\", \"type\": \"enum\", \"namespace\": \"org.kaaproject.configuration\" } ], \"by_default\": \"\" }, { \"optional\": true, \"name\": \"testField2\", \"type\": [ \"null\", { \"type\": \"record\", \"name\": \"testRecordT\", \"namespace\": \"org.kaa.config\", \"fields\": [ { \"name\": \"testField3\", \"type\": [ \"int\", \"org.kaaproject.configuration.unchangedT\" ] }, { \"name\": \"__uuid\", \"type\": { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\" } ] } ], \"org.kaaproject.configuration.unchangedT\" } ], { \"name\": \"__uuid\", \"type\": \"org.kaaproject.configuration.uuidT\" } ], \"namespace\": \"org.kaa.config\" }, \"org.kaa.config.testRecordT\" ] ], \"namespace\": \"org.kaaproject.configuration\" }, \"type\": \"array\" }",
  "schemaId": "200",
  "sequenceNumber": 1,
  "status": "ACTIVE"
}

```

- **Error response:**

Statues codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not required the role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	Configuration with the specified configurationId not found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: text/plain' -d'109'  
"http://localhost:8080/kaaAdmin/rest/api/activateConfiguration" | python  
-mjson.tool
```

▼ **Example result**

```
{  
  "activatedTime": 1408723122998,  
  "activatedUsername": "devuser",  
  "applicationId": "71",  
  "body":  
    "{\n\"testField1\":{\n\"string\":\n\"abc\"},\n\"testField2\":{\n\"org.kaaproject.conf  
iguration.unchangedT\":\n\"unchanged\"},\n\"__uuid\":{\n\"org.kaaproject.conf  
iguration.uuidT\":\n\"4\\u001D\\u0005\\u001D\\u00b5\\u0094H\\u00e0\\u009e\\u00b32\\u00b  
0\\u00d7I\\u008d6\"}}",  
  "createdTime": 1408722949496,  
  "createdUsername": "devuser",  
  "deactivatedTime": 0,  
  "deactivatedUsername": null,  
  "description": "Test Configuration",  
  "endpointCount": 0,  
  "endpointGroupId": "83",  
  "id": "109",  
  "lastModifyTime": 1408722949504,  
  "majorVersion": 4,  
  "minorVersion": 0,  
  "modifiedUsername": null,  
  "protocolSchema":  
    "{\n\"items\":{\n\"name\":\n\"deltaT\", \n\"type\":\n\"record\", \n\"fields\":[{\n\"name\":  
\n\"delta\", \n\"type\":[{\n\"name\":\n\"testT\", \n\"type\":\n\"record\", \n\"addressable\":  
true, \n\"fields\":[{\n\"name\":\n\"testField1\", \n\"type\":{\n\"string\", {\n\"symbols\":  
[{\n\"unchanged\"}, \n\"name\":\n\"unchangedT\", \n\"type\":\n\"enum\", \n\"namespace\":\n\"org.kaaproject.configuration\"}], \n\"by_default\":\n\"\", {\n\"optional\":true, \n\"name\":\n\"testField2\", \n\"type\":{\n\"null\", {\n\"type\":\n\"record\", \n\"name\":\n\"testRecordT\", \n\"namespace\":\n\"org.kaa.config\", \n\"fields\":[{\n\"name\":\n\"testF  
ield3\", \n\"type\":[{\n\"int\", \n\"org.kaaproject.configuration.unchangedT\"}], {\n\"  
name\":\n\"__uuid\", \n\"type\":{\n\"name\":\n\"uuidT\", \n\"type\":\n\"fixed\", \n\"size\":  
16, \n\"namespace\":\n\"org.kaaproject.configuration\"}], \n\"org.kaaproject.conf  
iguration.unchangedT\"}], {\n\"name\":\n\"__uuid\", \n\"type\":\n\"org.kaaproject.con  
figuration.uuidT\"}], \n\"namespace\":\n\"org.kaa.config\", \n\"org.kaa.config.tes  
tRecordT\"}], \n\"namespace\":\n\"org.kaaproject.configuration\", \n\"type\":\n\"array\"},  
  "schemaId": "200",  
  "sequenceNumber": 1,  
  "status": "ACTIVE"  
}
```

## Deactivate configuration

Deactivates a configuration. Sets the status field of the configuration to DEPRECATED, sets the deactivatedTime field value to the time of the deactivation request, and sets the deactivateUsername field to the name of the user who has submitted the request. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**



/kaaAdmin/rest/api/deactivateConfiguration

- **Method:**

POST

- **URL params**

None

- **Data params**

- [Request body](#)

**Example:**

```
109
```

- **Success response:**

- **Code:** 200

- [Response body](#)

**Example:**

```

{
  "activatedTime": 1408723122998,
  "activatedUsername": "devuser",
  "applicationId": "71",
  "body":
  "{ \"testField1\": { \"string\": \"abc\" }, \"testField2\": { \"org.kaaproject.configuration.unchangedT\": \"unchanged\" }, \"__uuid\": { \"org.kaaproject.configuration.uuidT\": \"4\\u001D\\u0005\\u001D\\u00b5\\u0094H\\u00e0\\u009e\\u00b32\\u00b0\\u00d7I\\u008d6\" } }",
  "createdTime": 1408722949496,
  "createdUsername": "devuser",
  "deactivatedTime": 1408723248810,
  "deactivatedUsername": "devuser",
  "description": "Test Configuration",
  "endpointCount": 0,
  "endpointGroupId": "83",
  "id": "109",
  "lastModifyTime": 1408722949504,
  "majorVersion": 4,
  "minorVersion": 0,
  "modifiedUsername": null,
  "protocolSchema":
  "{ \"items\": { \"name\": \"deltaT\", \"type\": \"record\", \"fields\": [ { \"name\": \"delta\", \"type\": [ { \"name\": \"testT\", \"type\": \"record\", \"addresable\": true, \"fields\": [ { \"name\": \"testField1\", \"type\": [ \"string\", { \"symbols\": [ \"unchanged\" ], \"name\": \"unchangedT\", \"type\": \"enum\", \"namespace\": \"org.kaaproject.configuration\" } ], \"by_default\": \"\" }, { \"optional\": true, \"name\": \"testField2\", \"type\": [ \"null\", { \"type\": \"record\", \"name\": \"testRecordT\", \"namespace\": \"org.kaa.config\", \"fields\": [ { \"name\": \"testField3\", \"type\": [ \"int\", \"org.kaaproject.configuration.unchangedT\" ] }, { \"name\": \"__uuid\", \"type\": { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\" } ] } ], \"org.kaaproject.configuration.unchangedT\" } ], { \"name\": \"__uuid\", \"type\": \"org.kaaproject.configuration.uuidT\" } ], \"namespace\": \"org.kaa.config\", \"org.kaa.config.testRecordT\" } ], \"namespace\": \"org.kaaproject.configuration\", \"type\": \"array\" }",
  "schemaId": "200",
  "sequenceNumber": 1,
  "status": "DEPRECATED"
}

```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	Configuration with the specified configurationId not found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: text/plain' -d'109'  
"http://localhost:8080/kaaAdmin/rest/api/deactivateConfiguration" | python  
-mjson.tool
```

▼ **Example result**

```
{  
  "activatedTime": 1408723122998,  
  "activatedUsername": "devuser",  
  "applicationId": "71",  
  "body":  
  "{  
    \"testField1\":{  
      \"string\":  
      \"abc\"  
    },  
    \"testField2\":{  
      \"org.kaaproject.conf  
      igation.unchangedT\":  
      \"unchanged\"  
    },  
    \"__uuid\":{  
      \"org.kaaproject.conf  
      igation.uuidT\":  
      \"4\\u001D\\u0005\\u001D\\u00b5\\u0094H\\u00e0\\u009e\\u00b32\\u00b  
      0\\u00d7I\\u008d6\"  
    }  
  }",  
  "createdTime": 1408722949496,  
  "createdUsername": "devuser",  
  "deactivatedTime": 1408723248810,  
  "deactivatedUsername": "devuser",  
  "description": "Test Configuration",  
  "endpointCount": 0,  
  "endpointGroupId": "83",  
  "id": "109",  
  "lastModifyTime": 1408722949504,  
  "majorVersion": 4,  
  "minorVersion": 0,  
  "modifiedUsername": null,  
  "protocolSchema":  
  "{  
    \"items\":{  
      \"name\":  
      \"deltaT\",  
      \"type\":  
      \"record\",  
      \"fields\":  
      [{  
        \"name\":  
        \"delta\",  
        \"type\":  
        [{  
          \"name\":  
          \"testT\",  
          \"type\":  
          \"record\",  
          \"addressable\":  
          true,  
          \"fields\":  
          [{  
            \"name\":  
            \"testField1\",  
            \"type\":  
            [\"string\",  
            {  
              \"symbols\":  
              [\"unchanged\"],  
              \"name\":  
              \"unchangedT\",  
              \"type\":  
              \"enum\",  
              \"namespace\":  
              \"org.kaaproject.configuration\"  
            }  
          ],  
          \"by_default\":  
          \"\",  
          \"optional\":  
          true,  
          \"name\":  
          \"testField2\",  
          \"type\":  
          [\"null\",  
          {  
            \"type\":  
            \"record\",  
            \"name\":  
            \"testRecordT\",  
            \"namespace\":  
            \"org.kaa.config\",  
            \"fields\":  
            [{  
              \"name\":  
              \"testField3\",  
              \"type\":  
              [\"int\",  
              \"org.kaaproject.configuration.unchangedT\"  
            ]  
          },  
          {  
            \"name\":  
            \"__uuid\",  
            \"type\":  
            {  
              \"name\":  
              \"uuidT\",  
              \"type\":  
              \"fixed\",  
              \"size\":  
              16,  
              \"namespace\":  
              \"org.kaaproject.configuration\"  
            }  
          }  
        ]  
      },  
      \"org.kaaproject.conf  
      igation.unchangedT\"  
    }  
  ],  
  {  
    \"name\":  
    \"__uuid\",  
    \"type\":  
    \"org.kaaproject.con  
    figuration.uuidT\"  
  }  
  ],  
  \"namespace\":  
  \"org.kaa.config\",  
  \"org.kaa.config.tes  
  tRecordT\"  
  }  
  ],  
  \"namespace\":  
  \"org.kaaproject.configuration\",  
  \"type\":  
  \"array\"  
  }",  
  "schemaId": "200",  
  "sequenceNumber": 1,  
  "status": "DEPRECATED"  
}
```

## Delete configuration record

Deletes a configuration record by configuration schema ID and endpoint group ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/delConfigurationRecord?schemald&endpointGroupld

- **Method:**

POST

- **URL params**

Parameter	Value	Description
schemald	string	the ID of the configuration schema
endpointGroupld	string	the ID of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
400 Bad Request	endpointGroupld parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupld does not exist or the endpoint group does not have the requested configuration record
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST  
"http://localhost:8080/kaaAdmin/rest/api/delConfigurationRecord?schemaId=200&e  
ndpointGroupId=83" | python -mjson.tool
```

## Notifications

### Get notification schemas

Returns notification schemas for an application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information. The Tenant ID value of the application must match the Tenant ID of the request submitter.

As of release 0.9.0 this method is deprecated, replaced by [Get notification schemas by application token](#).

- **URL**

/kaaAdmin/rest/api/notificationSchemas/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	the ID of the application.

- **Data params**

None

- **Success response:**

- **Code: 200**

- [Response body](#)

- **Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329281,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "18",
    "name": "Generated",
    "schema": "{\n  \n  \"type\": \"record\", \n  \n  \"name\": \"Notification\", \n  \n  \"namespace\": \"org.kaaproject.kaa.schema.base\", \n  \n  \"fields\": [ ]\n}",
    "type": "USER",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/notificationSchemas/5" | python
-mjson.tool
```

- [Example result](#)

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329281,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "18",
    "name": "Generated",
    "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"Notification\",\n  \"namespace\": \"org.kaaproject.kaa.schema.base\",\n  \"fields\": []\n}",
    "type": "USER",
    "version": 1
  }
]
```

## Get notification schemas by application token

Returns notification schemas for an application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information. The Tenant ID value of the application must match the Tenant ID of the request submitter.

- **URL**  
/kaaAdmin/rest/api/notificationSchemasByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	the token of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200  
  - ▾ [Response body](#)

**Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329281,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "18",
    "name": "Generated",
    "schema": "{\n  \"type\": \"record\",\n  \"name\": \"Notification\",\n  \"namespace\": \"org.kaaproject.kaa.schema.base\",\n  \"fields\": [ ]\n}",
    "type": "USER",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/notificationSchemasByAppToken/9318546
5951671258176" | python -mjson.tool
```

- [Example result](#)

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329281,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "18",
    "name": "Generated",
    "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"Notification\",\n  \"namespace\": \"org.kaaproject.kaa.schema.base\",\n  \"fields\": []\n}",
    "type": "USER",
    "version": 1
  }
]
```

## Get user notification schemas

Returns user notification schemas for an application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

As of release 0.9.0 this method is deprecated, replaced by [Get user notification schemas by application token](#).

- **URL**  
/kaaAdmin/rest/api/userNotificationSchemas/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "id": "18",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
--------------	-------------



401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/userNotificationSchemas/5" | python
-mjson.tool
```

- ▼ **Example result**

```
[
  {
    "id": "18",
    "version": 1
  }
]
```

## Get user notification schemas by application token

Returns user notification schemas for an application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/userNotificationSchemasByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**  
**Example:**

```
[
  {
    "id": "18",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	Application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/userNotificationSchemasByAppToken/93185465951671258176" | python -mjson.tool
```

- **Example result**

```
[
  {
    "id": "18",
    "version": 1
  }
]
```

## Get notification schema

Returns a notification schema by notification schema ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**

/kaaAdmin/rest/api/notificationSchema/{notificationSchemaId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
notificationSchemaId	string	The ID of the notification schema

- **Data params**

None

- **Success response:**

- **Code:** 200
- [Response body](#)

**Example:**

```
{
  "applicationId": "71",
  "createdTime": 1408705246572,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "53f722dee4b0ac13c6a8634d",
  "majorVersion": 1,
  "minorVersion": 0,
  "name": "Generated",
  "schema": "{\r\n  \"type\": \"record\", \r\n  \"name\": \"Notification\", \r\n  \"namespace\": \"org.kaa.config\", \r\n  \"fields\": [\r\n    {\r\n      \"name\": \"message\", \r\n      \"type\": \"string\" \r\n    } \r\n  ] \r\n}",
  "type": "USER"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the notification schema does not match the Tenant ID of the authenticated user
404 Not Found	A notification schema with the specified notificationSchemaId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/notificationSchema/53f722dee4b0ac13c6a8634d" | python -mjson.tool
```

[Example result](#)



```

{
  "type": "record",
  "name": "TestNotification",
  "namespace": "org.kaa.config.test",
  "fields": [
    {
      "name": "message",
      "type": "string"
    }
  ]
}

```

- **Success response:**

- **Code: 200**

- ▾ [Response body](#)

- Example:**

```

{
  "applicationId": "71",
  "createdTime": 1408706536184,
  "createdUsername": "devuser",
  "description": "Notification Schema Description",
  "endpointCount": 0,
  "id": "2131",
  "majorVersion": 2,
  "minorVersion": 0,
  "name": "Test notification schema",
  "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"TestNotification\",\n  \"namespace\": \"org.kaa.config.test\",\n  \"fields\": [\n    {\n      \"name\": \"message\",\n      \"type\": \"string\"\n    }\n  ]\n}",
  "type": "USER"
}

```

- **Error response:**

Status codes	Description
400 Bad Request	The specified notification schema is not a valid avro schema
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the notification schema does not match the Tenant ID of the authenticated user
404 Not Found	A file with a schema was not found in the form data
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create notification schema:**

```
curl -v -S -u devuser:devuser123
-F'notificationSchema={"applicationId":"71","name":"Test notification
schema","description":"Notification Schema
Description"};type=application/json' -F file=@notification_schema.json
"http://localhost:8080/kaaAdmin/rest/api/notificationSchema" | python
-mjson.tool
```

▼ Example result

```
{
  "applicationId": "71",
  "createdTime": 1408706536184,
  "createdUsername": "devuser",
  "description": "Notification Schema Description",
  "endpointCount": 0,
  "id": "2131",
  "majorVersion": 2,
  "minorVersion": 0,
  "name": "Test notification schema",
  "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"TestNotification\",\n  \"namespace\": \"org.kaa.config.test\",\n  \"fields\": [\n    {\n      \"name\": \"message\",\n      \"type\": \"string\"\n    }\n  ]\n}",
  "type": "USER"
}
```

• Sample call to edit notification schema:

```
curl -v -S -u devuser:devuser123
-F'notificationSchema={"id":"2131","applicationId":"71","name":"Test
notification schema v2","description":"Notification Schema
Description"};type=application/json' -F file=@notification_schema.json
"http://localhost:8080/kaaAdmin/rest/api/notificationSchema" | python
-mjson.tool
```

▼ Example result

```
{
  "applicationId": "71",
  "createdTime": 1408706557247,
  "createdUsername": "devuser",
  "description": "Notification Schema Description",
  "endpointCount": 0,
  "id": "2131",
  "majorVersion": 2,
  "minorVersion": 0,
  "name": "Test notification schema v2",
  "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"TestNotification\",\n  \"namespace\": \"org.kaa.config.test\",\n  \"fields\": [\n    {\n      \"name\": \"message\",\n      \"type\": \"string\"\n    }\n  ]\n}",
  "type": "USER"
}
```

## Get topics

Returns all topics for the specified application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

As of release 0.9.0 this method is deprecated, replaced by [Get topics by application token](#).

- **URL**  
/kaaAdmin/rest/api/topics/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code: 200**  
  ↳ [Response body](#)

**Example:**

```
[
  {
    "applicationId": "3",
    "createdTime": 1461254326662,
    "createdUsername": "devuser",
    "description": "Sample mandatory topic to demonstrate
notifications API",
    "id": "1",
    "name": "Sample mandatory topic",
    "secNum": 1,
    "type": "MANDATORY"
  },
  {
    "applicationId": "3",
    "createdTime": 1461254327290,
    "createdUsername": "devuser",
    "description": "Sample optional topic to demonstrate
notifications API",
    "id": "2",
    "name": "Sample optional topic",
    "secNum": 1,
    "type": "OPTIONAL"
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided

403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/topics/3" | python -mjson.tool
```

- **Example result**

```
[
  {
    "applicationId": "3",
    "createdTime": 1461254326662,
    "createdUsername": "devuser",
    "description": "Sample mandatory topic to demonstrate notifications
API",
    "id": "1",
    "name": "Sample mandatory topic",
    "secNum": 1,
    "type": "MANDATORY"
  },
  {
    "applicationId": "3",
    "createdTime": 1461254327290,
    "createdUsername": "devuser",
    "description": "Sample optional topic to demonstrate notifications
API",
    "id": "2",
    "name": "Sample optional topic",
    "secNum": 1,
    "type": "OPTIONAL"
  }
]
```

## Get topics by application token

Returns all topics for the specified application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/topicsByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application

- **Data params**



None

- **Success response:**

- **Code: 200**

- ▼ [Response body](#)

- Example:**

```
[
  {
    "applicationId": "3",
    "createdTime": 1461254326662,
    "createdUsername": "devuser",
    "description": "Sample mandatory topic to demonstrate
notifications API",
    "id": "1",
    "name": "Sample mandatory topic",
    "secNum": 1,
    "type": "MANDATORY"
  },
  {
    "applicationId": "3",
    "createdTime": 1461254327290,
    "createdUsername": "devuser",
    "description": "Sample optional topic to demonstrate
notifications API",
    "id": "2",
    "name": "Sample optional topic",
    "secNum": 1,
    "type": "OPTIONAL"
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/topicsByAppToken/71118554505415879215
" | python -mjson.tool
```

- ▼ [Example result](#)

```
[
  {
    "applicationId": "3",
    "createdTime": 1461254326662,
    "createdUsername": "devuser",
    "description": "Sample mandatory topic to demonstrate notifications
API",
    "id": "1",
    "name": "Sample mandatory topic",
    "secNum": 1,
    "type": "MANDATORY"
  },
  {
    "applicationId": "3",
    "createdTime": 1461254327290,
    "createdUsername": "devuser",
    "description": "Sample optional topic to demonstrate notifications
API",
    "id": "2",
    "name": "Sample optional topic",
    "secNum": 1,
    "type": "OPTIONAL"
  }
]
```

## Get endpoint group topics

Returns all topics for the specified endpoint group. Only users with the `TENANT_DEVELOPER` or `TENANT_USER` role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/topics?endpointGroupId

- **Method:**

GET

- **URL params**

Parameter	Value	Description
endpointGroupId	string	The ID of the endpoint group.

- **Data params**

None

- **Success response:**

- **Code:** 200

▾ [Response body](#)

**Example:**

```
[
  {
    "applicationId": "71",
    "createdTime": 1409133583238,
    "createdUsername": "devuser",
    "description": "Test topic description",
    "id": "230",
    "name": "Test topic",
    "secNum": 0,
    "type": "MANDATORY"
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	An endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/topics?endpointGroupId=83" | python
-mjson.tool
```

- ▼ **Example result**

```
[
  {
    "applicationId": "71",
    "createdTime": 1409133583238,
    "createdUsername": "devuser",
    "description": "Test topic description",
    "id": "230",
    "name": "Test topic",
    "secNum": 0,
    "type": "MANDATORY"
  }
]
```

## Get vacant topics

Returns all vacant (not present in the endpoint group) topics for the specified endpoint group. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/vacantTopics/{endpointGroupId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
endpointGroupId	string	the ID of the endpoint group.

- **Data params**

None

- **Success response:**

- **Code:** 200

▼ [Response body](#)

**Example:**

```
[
  {
    "applicationId": "71",
    "createdTime": 1409134343927,
    "createdUsername": "devuser",
    "description": "Test topic 2 description",
    "id": "231",
    "name": "Test topic 2",
    "secNum": 0,
    "type": "VOLUNTARY"
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	The endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET  
"http://localhost:8080/kaaAdmin/rest/api/vacantTopics/83" | python -mjson.tool
```

▼ [Example result](#)

```
[
  {
    "applicationId": "71",
    "createdTime": 1409134343927,
    "createdUsername": "devuser",
    "description": "Test topic 2 description",
    "id": "231",
    "name": "Test topic 2",
    "secNum": 0,
    "type": "VOLUNTARY"
  }
]
```

## Get topic

Returns a topic by topic ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/topic/{topicId}

- **Method:**  
GET

- **URL params**

Parameter	Value	Description
topicId	string	The ID of the topic

- **Data params**

None

- **Success response:**

- **Code:** 200  
  - ▾ [Response body](#)

**Example:**

```
{
  "applicationId": "71",
  "createdTime": 1409133583238,
  "createdUsername": "devuser",
  "description": "Test topic description",
  "id": "230",
  "name": "Test topic",
  "secNum": 0,
  "type": "MANDATORY"
}
```

- **Error response:**

Status codes	Description
400 Bad Request	The topicId parameter is empty

401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the topic does not match the Tenant ID of the authenticated user
404 Not Found	A topic with the specified topicId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/topic/230" | python -mjson.tool
```

- **Example result**

```
{
  "applicationId": "71",
  "createdTime": 1409133583238,
  "createdUsername": "devuser",
  "description": "Test topic description",
  "id": "230",
  "name": "Test topic",
  "secNum": 0,
  "type": "MANDATORY"
}
```

## Create/Edit topic

Creates or edits a topic. If a topic with the specified ID does not exist, it will be created. If a topic with the specified ID exists, it will be updated. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/topic

- **Method:**  
POST

- **URL params**

None

- **Data params**  
  - **Request body**

**Example:**

```
{"applicationId":"71","name":"Test topic 3","type":
"MANDATORY","description":"Test topic 3 Description"}
```

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "applicationId": "71",
  "createdTime": 1409135244357,
  "createdUsername": "devuser",
  "description": "Test topic 3 Description",
  "id": "232",
  "name": "Test topic 3",
  "secNum": 0,
  "type": "MANDATORY"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the topic does not match the Tenant ID of the authenticated user
404 Not Found	A topic to be edited with the specified topicId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"applicationId":"71","name":"Test topic 3","type":
"MANDATORY","description":"Test topic 3 Description"}'
"http://localhost:8080/kaaAdmin/rest/api/topic" | python -mjson.tool
```

- ▼ **Example result**

```
{
  "applicationId": "71",
  "createdTime": 1409135244357,
  "createdUsername": "devuser",
  "description": "Test topic 3 Description",
  "id": "232",
  "name": "Test topic 3",
  "secNum": 0,
  "type": "MANDATORY"
}
```

## Delete topic

Deletes a topic. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/delTopic?topicId

- **Method:**

POST

- **URL params**

Parameter	Value	Description
topicId	string	the ID of the topic to be deleted

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
400 Bad Request	The topicId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the topic does not match the Tenant ID of the authenticated user
404 Not Found	A topic with the specified topicId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST  
"http://localhost:8080/kaaAdmin/rest/api/delTopic?topicId=232" | python  
-mjson.tool
```

## Add topic to endpoint group

Adds the specified topic to the specified endpoint group. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**

/kaaAdmin/rest/api/addTopicToEpGroup?endpointGroupId&topicId

- **Method:**

POST

- **URL params**

Parameter	Value	Description
endpointGroupId	string	The ID of the endpoint group
topicId	string	The ID of the topic

- **Data params**

None

- **Success response:**

- **Code:** 200



- **Error response:**

Status codes	Description
400 Bad Request	The endpointGroupId or topicId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the topic or the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	A topic with the specified topicId or an endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/addTopicToEpGroup?endpointGroupId=83&
topicId=231" | python -mjson.tool
```

## Remove topic from endpoint group

Removes the specified topic from the specified endpoint group. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/removeTopicFromEpGroup?endpointGroupId&topicId

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
endpointGroupId	string	The ID of the endpoint group
topicId	string	The ID of the topic

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
400 Bad Request	The endpointGroupId or topicId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided

403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the topic or the endpoint group does not match the Tenant ID of the authenticated user
404 Not Found	A topic with the specified topicId or an endpoint group with the specified endpointGroupId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/removeTopicFromEpGroup?endpointGroupId=83&topicId=231" | python -mjson.tool
```

## Send notification

Sends a notification with the notification body from the specified file. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/sendNotification

- **Method:**  
POST

- **URL params**  
None

- **Data params**

Multipart/form-data encoding. Fields:

- ▼ [notification \(content-type: application/json\)](#)

**Example:**

```
{"applicationId":"111","schemaId":"139","topicId":"171","type":"USER"}
```

If you want to set ttl, you must to set expiredAt in parameter notification.

- ▼ [notification \(content-type: application/json\)](#)

**Example:**

```
{"expiredAt":"1442722270583","applicationId":"111","schemaId":"139","topicId":"171","type":"USER"}
```

- ▼ [file contents example for Union type of field message \(content-type: application/octet-stream\)](#)

**File contents example for Union type of field message:**

```
{
  "message" : {
    "string" : "Hello world!"
  }
}
```

▼ file contents example for primitive string type of field message (content-type: application/octet-stream)

**File contents example for primitive string type of field message:**

```
{
  "message" : "Hello world!"
}
```

• **Success response:**

- **Code:** 200

• **Error response:**

Status codes	Description
400 Bad Request	The specified notification is not valid
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the specified application or the application associated with the specified topic does not match the Tenant ID of the authenticated user
404 Not Found	A file with the notification body was not found in the form data or an application with the specified ID does not exist or a topic with the specified ID does not exist
500 Internal Server Error	An unexpected error occurred on the server side

• **Sample call:**

```
curl -v -S -u devuser:devuser123
-F'notification={"applicationId":"111","schemaId":"139","topicId":"171","type":
"USER"};type=application/json' -F file=@notification.json
"http://localhost:8080/kaaAdmin/rest/api/sendNotification" | python
-mjson.tool
```

▼ **Example result**

```
{
  "applicationId": "111",
  "body": "ABhIZWxsbyBoZWxsbyE=",
  "expiredAt": 1441722270583,
  "id": "55e5b51eb10a5004210ecd6a",
  "lastTimeModify": 1441117470585,
  "schemaId": "139",
  "secNum": 141,
  "topicId": "171",
  "type": "USER",
  "version": 0
}
```

## Send unicast notification

Sends a unicast notification with the notification body from the specified file to the client identified by endpointKeyHash. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/sendUnicastNotification

- **Method:**  
POST

- **URL params**

None

- **Data params**

Multipart/form-data encoding. Fields:

- ✓ [notification \(content-type: application/json\)](#)

**Example:**

```
{"applicationId": "111", "schemaId": "139", "topicId": "171", "type": "USER" }
```

If you want to set ttl, you must to set expiredAt in parameter notification.

- ✓ [notification \(content-type: application/json\)](#)

**Example:**

```
{"expiredAt": "1442722270583", "applicationId": "111", "schemaId": "139", "topicId": "171", "type": "USER" }
```

- ✓ [endpointKeyHash \(content-type: text/plain\)](#)

**Example:**

```
1sXnYUbeE31aCgN5NSsbcRMAZTgM=
```

- ✓ [file contents example for Union type of field message \(content-type: application/octet-stream\)](#)

**File contents example for Union type of field message:**

```
{  
  "message" : {  
    "string" : "Hello world!"  
  }  
}
```

- ✓ [file contents example for primitive string type of field message \(content-type: application/octet-stream\)](#)

**File contents example for primitive string type of field message:**

```
{  
  "message" : "Hello world!"  
}
```

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
400 Bad Request	The specified notification is not valid
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the specified application or the application associated with the specified topic does not match the Tenant ID of the authenticated user
404 Not Found	A file with the notification body was not found in the form data or an application with the specified ID does not exist or a topic with the specified ID does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123
-F'notification={"applicationId":"111","schemaId":"139","topicId":"171","type":"USER"};type=application/json'
-F'endpointKeyHash=lsXnYUbE31aCgN5NSsbcRMAZTgM=;type=text/plain' -F
file=@notification.json
"http://localhost:8080/kaaAdmin/rest/api/sendUnicastNotification" | python
-mjson.tool
```

▼ **Example result**

```
{
  "endpointKeyHash": "lsXnYUbE31aCgN5NSsbcRMAZTgM=",
  "id": "55e5baa7b10a5004210ecd6d",
  "notificationDto": {
    "applicationId": "111",
    "body": "ABhIZWxsbyBoZWxsbyE=",
    "expiredAt": 1441723687742,
    "id": null,
    "lastTimeModify": 1441118887742,
    "schemaId": "139",
    "secNum": -1,
    "topicId": "171",
    "type": "USER",
    "version": 0
  }
}
```

# Events

## Get event class families

Returns all event class families for the current authorized user within the current tenant. Only users with the TENANT\_ADMIN role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/eventClassFamilies

- **Method:**  
GET

- **URL params**  
None

- **Data params**  
None

- **Success response:**

- **Code: 200**  
  ▼ [Response body](#)

### Example:

```
[
  {
    "className": "PlayerClassFamily",
    "createdTime": 1408705243720,
    "createdUsername": "admin",
    "description": null,
    "id": "30",
    "name": "Player Event Class Family",
    "namespace": "org.kaaproject.kaa.demo.player",
    "schemas": [
      {
        "createdTime": 1408705244624,
        "createdUsername": "admin",
        "id": "40",
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```

```
"classType": "event",\r\n "name": "PlaylistRequest",\r\n "fields": []\r\n},\r\n{\r\n "namespace":  
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"PlaybackInfo",\r\n "fields": [\r\n {"name": "url",  
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"type": ["int", "null"]},\r\n {"name": "status",  
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"null"]}\r\n ]\r\n},\r\n{\r\n "namespace":  
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```

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  ],
  "tenantId": "10"
},
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  "createdUsername": "admin",
  "description": null,
  "id": "31",
  "name": "Device Event Class Family",
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      "createdUsername": "admin",
      "id": "41",
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[\"org.kaaproject.kaa.demo.smarthouse.device.DeviceInfo\",
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  ],
  "tenantId": "10"
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  "createdUsername": "admin",
  "description": null,
  "id": "32",
  "name": "Thermo Event Class Family",
  "namespace": "org.kaaproject.kaa.demo.smarthouse.thermo",
  "schemas": [
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      "createdTime": 1408705246242,
      "createdUsername": "admin",

```



```

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\"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.smarthouse.thermo\", \r\n \"type\":
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    }
],
    "tenantId": "10"
},
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    "createdUsername": "admin",
    "description": null,
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    "namespace": "org.kaaproject.kaa.demo.smarthouse.music",
    "schemas": [
        {
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            "createdUsername": "admin",
            "id": "43",
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\"org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\":
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\"SongInfo\", \r\n \"fields\": [\r\n    {\"name\": \"title\", \"type\":
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[\"string\", \"null\"]}, \r\n    {\"name\": \"url\", \"type\":
[\"string\", \"null\"]}, \r\n    {\"name\": \"displayName\", \"type\":
[\"string\", \"null\"]}, \r\n    {\"name\": \"duration\", \"type\":
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[\"string\", \"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
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\"PlaylistResponse\", \r\n \"fields\": [\r\n    {\"name\":
\"playlist\", \"type\": [{\"type\": \"array\", \"items\":
\"org.kaaproject.kaa.demo.smarthouse.music.SongInfo\"}, \"null\"]}\r\n
]\r\n}, \r\n{\r\n \"namespace\":
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```

```

\"record\", \r\n \"classType\": \"event\", \r\n \"name\":
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\"null\"]}, \r\n      {\"name\": \"maxVolume\", \"type\": [\"int\",
\"null\"]}, \r\n      {\"name\": \"timeSetOnDevice\", \"type\":
[\"boolean\", \"null\"]}, \r\n      {\"name\": \"volumeSetOnDevice\",
\"type\": [\"boolean\", \"null\"]}, \r\n      {\"name\": \"status\",
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\"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
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      \"version\": 1
    }
  ],
  \"tenantId\": \"10\"

```

```
}
]
```

• **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the TENANT_ADMIN role
500 Internal Server Error	An unexpected error occurred on the server side

• **Sample call:**

```
curl -v -S -u admin:admin123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/eventClassFamilies" | python
-mjson.tool
```

✓ **Example result**

```
[
  {
    "className": "PlayerClassFamily",
    "createdTime": 1408705243720,
    "createdUsername": "admin",
    "description": null,
    "id": "30",
    "name": "Player Event Class Family",
    "namespace": "org.kaaproject.kaa.demo.player",
    "schemas": [
      {
        "createdTime": 1408705244624,
        "createdUsername": "admin",
        "id": "40",
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\r\n\"classType\": \"event\", \r\n \"name\": \"DeviceInfoRequest\", \r\n
\r\n\"fields\": [ ]\r\n}, \r\n{\r\n \"namespace\":
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\r\n\"classType\": \"object\", \r\n \"name\": \"DeviceInfo\", \r\n \"fields\":
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  {\"name\": \"product\", \"type\": [\"string\", \"null\"]}, \r\n
  {\"name\": \"manufacturer\", \"type\": [\"string\", \"null\"]}, \r\n
  {\"name\": \"device\", \"type\": [\"string\", \"null\"]}, \r\n  {\"name\":
\r\n\"brand\", \"type\": [\"string\", \"null\"]}\r\n ]\r\n}, \r\n{\r\n
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\r\n\"type\": [\"org.kaaproject.kaa.demo.player.DeviceInfo\", \"null\"]}\r\n
]\r\n}, \r\n{\r\n \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n
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```

```

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"displayName", "type": [{"string", "null"}],\r\n    {"name":
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"type": [{"string", "null"}]\r\n ]\r\n},\r\n{\r\n "namespace":
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"null"}],\r\n    {"name": "status", "type":
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]\r\n},\r\n{\r\n "namespace": "org.kaaproject.kaa.demo.player",\r\n
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]\r\n},\r\n{\r\n "namespace": "org.kaaproject.kaa.demo.player",\r\n
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"record",\r\n "classType": "object",\r\n "name":
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"type": ["org.kaaproject.kaa.demo.player.BatteryChargingStatus",
"null"]}\r\n ]\r\n},\r\n{\r\n "namespace":
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"fields": [\r\n    {"name": "batteryInfo", "type":
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]\r\n}\r\n}],
"version": 1
}
],
"tenantId": "10"
},
{
"className": "DeviceEventClassFamily",

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    "createdTime": 1408705246098,
    "createdUsername": "admin",
    "description": null,
    "id": "31",
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    "namespace": "org.kaaproject.kaa.demo.smarthouse.device",
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        "createdUsername": "admin",
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, \r\n \"classType\": \"object\", \r\n \"name\": \"DeviceType\", \r\n
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\r\n\"LAMP\"]\r\n}, \r\n{\r\n \"namespace\":
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\r\n \"type\": [\"org.kaaproject.kaa.demo.smarthouse.device.DeviceType\",
\r\n\"null\"]}, \r\n  {\r\n    \"name\": \"model\", \"type\": [\"string\",
\r\n\"null\"]}, \r\n  {\r\n    \"name\": \"manufacturer\", \"type\": [\"string\",
\r\n\"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\r\n\"org.kaaproject.kaa.demo.smarthouse.device\", \r\n \"type\":
\r\n\"record\", \r\n \"classType\": \"event\", \r\n \"name\":
\r\n\"DeviceInfoResponse\", \r\n \"fields\": [\r\n\t{\r\n \"name\": \"deviceInfo\",
\r\n \"type\": [\"org.kaaproject.kaa.demo.smarthouse.device.DeviceInfo\",
\r\n\"null\"]}\r\n ]\r\n}\r\n]",
        "version": 1
      }
    ],
    "tenantId": "10"
  },
  {
    "className": "ThermoEventClassFamily",
    "createdTime": 1408705246201,
    "createdUsername": "admin",
    "description": null,
    "id": "32",
    "name": "Thermo Event Class Family",
    "namespace": "org.kaaproject.kaa.demo.smarthouse.thermo",
    "schemas": [
      {
        "createdTime": 1408705246242,
        "createdUsername": "admin",
        "id": "42",
        "schema": "[\r\n{\r\n \"namespace\":
\r\n\"org.kaaproject.kaa.demo.smarthouse.thermo\", \r\n \"type\":
\r\n\"record\", \r\n \"classType\": \"event\", \r\n \"name\":
\r\n\"ThermostatInfoRequest\", \r\n \"fields\": []\r\n}, \r\n{\r\n \"namespace\":
\r\n\"org.kaaproject.kaa.demo.smarthouse.thermo\", \r\n \"type\":
\r\n\"record\", \r\n \"classType\": \"object\", \r\n \"name\":
\r\n\"ThermostatInfo\", \r\n \"fields\": [\r\n  {\r\n    \"name\": \"degree\",
\r\n \"type\": [\"int\", \"null\"]}, \r\n  {\r\n    \"name\": \"targetDegree\",
\r\n \"type\": [\"int\", \"null\"]}, \r\n  {\r\n    \"name\": \"isSetManually\",
\r\n \"type\": [\"boolean\", \"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":

```

```

\org.kaaproject.kaa.demo.smarthouse.thermo\", \r\n \"type\":
\record\", \r\n \"classType\": \"event\", \r\n \"name\":
\ThermostatInfoResponse\", \r\n \"fields\": [\r\n {\"name\":
\thermostatInfo\", \"type\":
[\"org.kaaproject.kaa.demo.smarthouse.thermo.ThermostatInfo\",
>null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\org.kaaproject.kaa.demo.smarthouse.thermo\", \r\n \"type\":
\record\", \r\n \"classType\": \"event\", \r\n \"name\":
\ChangeDegreeRequest\", \r\n \"fields\": [\r\n {\"name\": \"degree\",
\"type\": [\"int\", \"null\"]}\r\n ]\r\n}\r\n}],
    \"version\": 1
  }
],
  \"tenantId\": \"10\"
},
{
  \"className\": \"MusicEventClassFamily\",
  \"createdTime\": 1408705246282,
  \"createdUsername\": \"admin\",
  \"description\": null,
  \"id\": \"33\",
  \"name\": \"Music Event Class Family\",
  \"namespace\": \"org.kaaproject.kaa.demo.smarthouse.music\",
  \"schemas\": [
    {
      \"createdTime\": 1408705246328,
      \"createdUsername\": \"admin\",
      \"id\": \"43\",
      \"schema\": \"[\r\n{\r\n \"namespace\":
\org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"PlaylistRequest\", \r\n
\"fields\": []\r\n}, \r\n{\r\n \"namespace\":
\org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"object\", \r\n \"name\": \"SongInfo\", \r\n \"fields\":
[\r\n {\"name\": \"title\", \"type\": [\"string\", \"null\"]}, \r\n
{\"name\": \"artist\", \"type\": [\"string\", \"null\"]}, \r\n {\"name\":
'url\", \"type\": [\"string\", \"null\"]}, \r\n {\"name\":
'displayName\", \"type\": [\"string\", \"null\"]}, \r\n {\"name\":
'duration\", \"type\": [\"int\", \"null\"]}, \r\n {\"name\": \"album\",
\"type\": [\"string\", \"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"PlaylistResponse\", \r\n
\"fields\": [\r\n {\"name\": \"playlist\", \"type\": [\"type\":
\"array\", \"items\":
\org.kaaproject.kaa.demo.smarthouse.music.SongInfo\"}, \"null\"]}\r\n
]\r\n}, \r\n{\r\n \"namespace\":
\org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"PlayRequest\", \r\n \"fields\":
[\r\n {\"name\": \"url\", \"type\": [\"string\", \"null\"]}\r\n
]\r\n}, \r\n{\r\n \"namespace\":
\org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"PauseRequest\", \r\n \"fields\":
[]\r\n}, \r\n{\r\n \"namespace\":
\org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"StopRequest\", \r\n \"fields\":
[]\r\n}, \r\n{\r\n \"namespace\":
\org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"PlaybackInfoRequest\", \r\n
\"fields\": []\r\n}, \r\n{\r\n \"namespace\":

```

```
\org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"ChangeVolumeRequest\", \r\n
\"fields\": [\r\n      {\"name\": \"volume\", \"type\": [\"int\",
\"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"SeekRequest\", \r\n \"fields\":
[\r\n      {\"name\": \"time\", \"type\": [\"int\", \"null\"]}\r\n
]\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"enum\" , \r\n
\"classType\": \"object\", \r\n \"name\": \"PlaybackStatus\", \r\n
\"symbols\" : [\"PLAYING\", \"PAUSED\", \"STOPPED\"]\r\n}, \r\n{\r\n
\"namespace\": \"org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\":
\"record\", \r\n \"classType\": \"object\", \r\n \"name\":
\"PlaybackInfo\", \r\n \"fields\": [\r\n      {\"name\": \"song\", \"type\":
[\"org.kaaproject.kaa.demo.smarthouse.music.SongInfo\", \"null\"]}, \r\n
{\"name\": \"time\", \"type\": [\"int\", \"null\"]}, \r\n      {\"name\":
\"volume\", \"type\": [\"int\", \"null\"]}, \r\n      {\"name\":
\"maxVolume\", \"type\": [\"int\", \"null\"]}, \r\n      {\"name\":
\"timeSetOnDevice\", \"type\": [\"boolean\", \"null\"]}, \r\n      {\"name\":
\"volumeSetOnDevice\", \"type\": [\"boolean\", \"null\"]}, \r\n
{\"name\": \"status\", \"type\":
[\"org.kaaproject.kaa.demo.smarthouse.music.PlaybackStatus\",
\"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"PlaybackInfoResponse\", \r\n
\"fields\": [\r\n      {\"name\": \"playbackInfo\", \"type\":
[\"org.kaaproject.kaa.demo.smarthouse.music.PlaybackInfo\", \"null\"]}\r\n
]\r\n}\r\n]\r\n],
  \"version\": 1
}
],
\"tenantId\": \"10\"
```





```
]r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"event\",r\n \"name\": \"PlaylistRequest\",r\n \"fields\": []r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"object\",r\n \"name\": \"SongInfo\",r\n \"fields\":  
[r\n {\"name\": \"title\", \"type\": [\"string\", \"null\"]},r\n {\"name\": \"artist\", \"type\": [\"string\", \"null\"]},r\n {\"name\": \"url\", \"type\": [\"string\", \"null\"]},r\n {\"name\": \"displayName\", \"type\": [\"string\", \"null\"]},r\n {\"name\": \"duration\", \"type\": [\"int\", \"null\"]},r\n {\"name\": \"album\", \"type\": [\"string\", \"null\"]}r\n ]r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"event\",r\n \"name\": \"PlaylistResponse\",r\n \"fields\": [r\n\t{\"name\": \"playlist\", \"type\": [{\"type\":  
\"array\", \"items\": \"org.kaaproject.kaa.demo.player.SongInfo\"},  
\"null\"]}r\n ]r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"event\",r\n \"name\": \"PlayRequest\",r\n \"fields\": [r\n {\"name\": \"url\", \"type\": [\"string\",  
\"null\"]}r\n ]r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"event\",r\n \"name\": \"PauseRequest\",r\n \"fields\": []r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"event\",r\n \"name\": \"StopRequest\",r\n \"fields\": []r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"event\",r\n \"name\": \"PlaybackInfoRequest\",r\n \"fields\": []r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"enum\" ,r\n \"classType\": \"object\",r\n \"name\": \"PlaybackStatus\",r\n \"symbols\" : [\"PLAYING\", \"PAUSED\", \"STOPPED\"]r\n},r\n{r\n \"namespace\": \"org.kaaproject.kaa.demo.player\",r\n \"type\":  
\"record\",r\n \"classType\": \"object\",r\n \"name\":  
\"PlaybackInfo\",r\n \"fields\": [r\n {\"name\": \"url\",  
\"type\": [\"string\", \"null\"]},r\n {\"name\": \"time\",  
\"type\": [\"int\", \"null\"]},r\n {\"name\": \"status\",  
\"type\": [\"org.kaaproject.kaa.demo.player.PlaybackStatus\",  
\"null\"]}r\n ]r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"event\",r\n \"name\": \"PlaybackInfoResponse\",r\n \"fields\": [r\n\t{\"name\": \"playbackInfo\", \"type\":  
[\"org.kaaproject.kaa.demo.player.PlaybackInfo\", \"null\"]}r\n ]r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"event\",r\n \"name\": \"BatteryInfoRequest\",r\n \"fields\": []r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"enum\" ,r\n \"classType\": \"object\",r\n \"name\":  
\"BatteryChargingStatus\",r\n \"symbols\" : [\"NOT_CHARGING\",  
\"CHARGING\", \"CHARGED\"]r\n},r\n{r\n \"namespace\":  
\"org.kaaproject.kaa.demo.player\",r\n \"type\": \"record\",r\n \"classType\": \"object\",r\n \"name\": \"BatteryInfo\",r\n \"fields\": [r\n {\"name\": \"batteryLife\", \"type\": [\"int\",  
\"null\"]},r\n {\"name\": \"chargingStatus\", \"type\":  
[\"org.kaaproject.kaa.demo.player.BatteryChargingStatus\",  
\"null\"]}r\n ]r\n},r\n{r\n \"namespace\":
```

```
\org.kaaproject.kaa.demo.player\", \r\n \"type\": \"record\", \r\n  
\"classType\": \"event\", \r\n \"name\": \"BatteryInfoResponse\", \r\n  
\"fields\": [\r\n  {\"name\": \"batteryInfo\", \"type\":  
[\"org.kaaproject.kaa.demo.player.BatteryInfo\", \"null\"]} \r\n  
]\r\n}\r\n],  
  \"version\": 1  
}
```

```
    "tenantId": "10"
  }
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role TENANT_ADMIN or the Tenant ID of the event class family does not match the Tenant ID of the user
404 Not Found	An event class family with the specified eventClassFamilyId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u admin:admin123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/eventClassFamily/30" | python
-mjson.tool
```

▼ **Example result**

```
{
  "className": "PlayerClassFamily",
  "createdTime": 1408705243720,
  "createdUsername": "admin",
  "description": null,
  "id": "30",
  "name": "Player Event Class Family",
  "namespace": "org.kaaproject.kaa.demo.player",
  "schemas": [
    {
      "createdTime": 1408705244624,
      "createdUsername": "admin",
      "id": "40",
      "schema": "[\r\n{\r\n  \"namespace\":
\r\n\"org.kaaproject.kaa.demo.player\", \r\n  \"type\": \"record\", \r\n
\r\n  \"classType\": \"event\", \r\n  \"name\": \"DeviceInfoRequest\", \r\n
\r\n  \"fields\": [ ]\r\n}, \r\n{\r\n  \"namespace\":
\r\n\"org.kaaproject.kaa.demo.player\", \r\n  \"type\": \"record\", \r\n
\r\n  \"classType\": \"object\", \r\n  \"name\": \"DeviceInfo\", \r\n  \"fields\":
\r\n    {\"name\": \"model\", \"type\": [\"string\", \"null\"]}, \r\n
\r\n    {\"name\": \"product\", \"type\": [\"string\", \"null\"]}, \r\n
\r\n    {\"name\": \"manufacturer\", \"type\": [\"string\", \"null\"]}, \r\n
\r\n    {\"name\": \"device\", \"type\": [\"string\", \"null\"]}, \r\n
\r\n    {\"name\":
\r\n      \"brand\", \"type\": [\"string\", \"null\"]}\r\n  ]\r\n}, \r\n{\r\n
\r\n  \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n  \"type\":
\r\n  \"record\", \r\n  \"classType\": \"event\", \r\n  \"name\":
\r\n  \"DeviceInfoResponse\", \r\n  \"fields\": [ \r\n    {\"name\": \"deviceInfo\",
\r\n      \"type\": [\"org.kaaproject.kaa.demo.player.DeviceInfo\", \"null\"]}\r\n
\r\n  ]\r\n}, \r\n{\r\n  \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n
\r\n  \"type\": \"record\", \r\n  \"classType\": \"event\", \r\n  \"name\":
\r\n  \"PlaylistRequest\", \r\n  \"fields\": [ ]\r\n}, \r\n{\r\n  \"namespace\":
```

```

\org.kaaproject.kaa.demo.player\", \r\n \"type\": \"record\", \r\n
\"classType\": \"object\", \r\n \"name\": \"SongInfo\", \r\n \"fields\":
[\r\n  {\"name\": \"title\", \"type\": [\"string\", \"null\"]}, \r\n
{\"name\": \"artist\", \"type\": [\"string\", \"null\"]}, \r\n  {\"name\":
\"url\", \"type\": [\"string\", \"null\"]}, \r\n  {\"name\":
\"displayName\", \"type\": [\"string\", \"null\"]}, \r\n  {\"name\":
\"duration\", \"type\": [\"int\", \"null\"]}, \r\n  {\"name\": \"album\",
\"type\": [\"string\", \"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.player\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"PlayListResponse\", \r\n
\"fields\": [\r\n\t{\"name\": \"playList\", \"type\": [\"type\":
\"array\", \"items\": \"org.kaaproject.kaa.demo.player.SongInfo\",
\"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.player\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"PlayRequest\", \r\n \"fields\":
[\r\n  {\"name\": \"url\", \"type\": [\"string\", \"null\"]}\r\n
]\r\n}, \r\n{\r\n \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n
\"type\": \"record\", \r\n \"classType\": \"event\", \r\n \"name\":
\"PauseRequest\", \r\n \"fields\": []\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.player\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"StopRequest\", \r\n \"fields\":
[]\r\n}, \r\n{\r\n \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n
\"type\": \"record\", \r\n \"classType\": \"event\", \r\n \"name\":
\"PlaybackInfoRequest\", \r\n \"fields\": []\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.player\", \r\n \"type\": \"enum\", \r\n
\"classType\": \"object\", \r\n \"name\": \"PlaybackStatus\", \r\n
\"symbols\" : [\"PLAYING\", \"PAUSED\", \"STOPPED\"]\r\n}, \r\n{\r\n
\"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n \"type\":
\"record\", \r\n \"classType\": \"object\", \r\n \"name\":
\"PlaybackInfo\", \r\n \"fields\": [\r\n  {\"name\": \"url\", \"type\":
[\"string\", \"null\"]}, \r\n  {\"name\": \"time\", \"type\": [\"int\",
\"null\"]}, \r\n  {\"name\": \"status\", \"type\":
[\"org.kaaproject.kaa.demo.player.PlaybackStatus\", \"null\"]}\r\n
]\r\n}, \r\n{\r\n \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n
\"type\": \"record\", \r\n \"classType\": \"event\", \r\n \"name\":
\"PlaybackInfoResponse\", \r\n \"fields\": [\r\n\t{\"name\":
\"playbackInfo\", \"type\":
[\"org.kaaproject.kaa.demo.player.PlaybackInfo\", \"null\"]}\r\n
]\r\n}, \r\n{\r\n \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n
\"type\": \"record\", \r\n \"classType\": \"event\", \r\n \"name\":
\"BatteryInfoRequest\", \r\n \"fields\": []\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.player\", \r\n \"type\": \"enum\", \r\n
\"classType\": \"object\", \r\n \"name\": \"BatteryChargingStatus\", \r\n
\"symbols\" : [\"NOT_CHARGING\", \"CHARGING\", \"CHARGED\"]\r\n}, \r\n{\r\n
\"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n \"type\":
\"record\", \r\n \"classType\": \"object\", \r\n \"name\":
\"BatteryInfo\", \r\n \"fields\": [\r\n  {\"name\": \"batteryLife\",
\"type\": [\"int\", \"null\"]}, \r\n  {\"name\": \"chargingStatus\",
\"type\": [\"org.kaaproject.kaa.demo.player.BatteryChargingStatus\",
\"null\"]}\r\n ]\r\n}, \r\n{\r\n \"namespace\":
\"org.kaaproject.kaa.demo.player\", \r\n \"type\": \"record\", \r\n
\"classType\": \"event\", \r\n \"name\": \"BatteryInfoResponse\", \r\n
\"fields\": [\r\n  {\"name\": \"batteryInfo\", \"type\":
[\"org.kaaproject.kaa.demo.player.BatteryInfo\", \"null\"]}\r\n
]\r\n}\r\n}\r\n],
  \"version\": 1
}
],

```

```
"tenantId": "10"
}
```

## Create/Edit event class family

Creates or edits an event class family. If an event class family with the specified ID does not exist, it will be created. If an event class family with the specified ID exists, it will be updated. Only users with the TENANT\_ADMIN role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/eventClassFamily

- **Method:**  
POST

- **URL params**  
None

- **Data params**
  - ▼ Request body**Example:**

```
{"name": "Test Event Class  
Family", "className": "TestClassFamily", "description": "Test Class Family  
Description", "namespace": "org.kaaproject.kaa.test.family"}
```

- **Success response:**

- **Code:** 200
  - ▼ Response body**Example:**

```
{  
  "className": "TestClassFamily",  
  "createdTime": 1409142604502,  
  "createdUsername": "admin",  
  "description": "Test Class Family Description",  
  "id": "34",  
  "name": "Test Event Class Family",  
  "namespace": "org.kaaproject.kaa.test.family",  
  "schemas": null,  
  "tenantId": "10"  
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN) or the Tenant ID of the editing event class family does not match the Tenant ID of the user
404 Not Found	An event class family to be edited with the specified eventClassFamilyId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create event class family:**

```
curl -v -S -u admin:admin123 -X POST -H 'Content-Type: application/json'
-d '{"name": "Test Event Class
Family", "className": "TestClassFamily", "description": "Test Class Family
Description", "namespace": "org.kaaproject.kaa.test.family"}'
"http://localhost:8080/kaaAdmin/rest/api/eventClassFamily" | python
-mjson.tool
```

▼ Example result

```
{
  "className": "TestClassFamily",
  "createdTime": 1409142604502,
  "createdUsername": "admin",
  "description": "Test Class Family Description",
  "id": "34",
  "name": "Test Event Class Family",
  "namespace": "org.kaaproject.kaa.test.family",
  "schemas": null,
  "tenantId": "10"
}
```

- **Sample call to edit event class family:**

```
curl -v -S -u admin:admin123 -X POST -H 'Content-Type: application/json'
-d '{"id": "34", "name": "Test Event Class
Family", "className": "TestClassFamily", "description": "Test Class Family
Description v2", "namespace": "org.kaaproject.kaa.test.family"}'
"http://localhost:8080/kaaAdmin/rest/api/eventClassFamily" | python
-mjson.tool
```

▼ Example result

```
{
  "className": "TestClassFamily",
  "createdTime": 1409142604502,
  "createdUsername": "admin",
  "description": "Test Class Family Description v2",
  "id": "34",
  "name": "Test Event Class Family",
  "namespace": "org.kaaproject.kaa.test.family",
  "schemas": null,
  "tenantId": "10"
}
```

## Add event class family schema

Adds the event class family schema to the event class family with the specified ID. The current user will be marked as the creator of schema. Only users with the TENANT\_ADMIN role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/addEventClassFamilySchema

- **Method:**

POST

- **URL params**

None

- **Data params**

Multipart/form-data encoding. Fields:

▼ [eventClassFamilyId \(content-type: text/plain\)](#)

**Example:**

```
34
```

▼ [file \(content-type: application/octet-stream\)](#)

**File contents example:**

```
[
  {
    "namespace": "org.kaaproject.kaa.test.family",
    "type": "record",
    "classType": "event",
    "name": "MyTestRequest",
    "fields": []
  },
  {
    "namespace": "org.kaaproject.kaa.test.family",
    "type": "record",
    "classType": "event",
    "name": "MyTestResponse",
    "fields": [
      { "name": "testField", "type": ["string", "null"]}
    ]
  }
]
```

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
400 Bad Request	The specified event class family schema is not a valid avro schema
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN) or the Tenant ID of the specified event class family does not match the Tenant ID of the authenticated user
404 Not Found	A file with the event class family schema was not found in the form data or an event class family with the specified ID does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u admin:admin123 -F'eventClassFamilyId=34;type=text/plain' -F
file=@testEventClassFamilySchema.json
"http://localhost:8080/kaaAdmin/rest/api/addEventClassFamilySchema" | python
-mjson.tool
```

## Get event classes

Gets event classes by event class family ID, version and type. Only users with the TENANT\_ADMIN, TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/eventClasses?eventClassFamilyId&version&type

- **Method:**

GET

- **URL params**

Parameter	Value	Description
eventClassFamilyId	string	The ID of the event class family
version	string	The version of the event class family schema
type	string	The event classes type, one of ["EVENT", "OBJECT"]

- **Data params**

None

- **Success response:**

- **Code:** 200

▼ [Response body](#)

**Example:**



```
[
  {
    "ecfId": "34",
    "fqm": "org.kaaproject.kaa.test.family.MyTestRequest",
    "id": "177",
    "schema":
    "{\\"type\\":\\"record\\",\\"name\\":\\"MyTestRequest\\",\\"namespace\\":\\"org.kaaproject.kaa.test.family\\",\\"fields\\":[],\\"classType\\":\\"event\\"}",
    "tenantId": "10",
    "type": "EVENT",
    "version": 1
  },
  {
    "ecfId": "34",
    "fqm": "org.kaaproject.kaa.test.family.MyTestResponse",
    "id": "178",
    "schema":
    "{\\"type\\":\\"record\\",\\"name\\":\\"MyTestResponse\\",\\"namespace\\":\\"org.kaaproject.kaa.test.family\\",\\"fields\\":[{\\"name\\":\\"testField\\",\\"type\\":[\\"string\\",\\"null\\"]}],"classType\\":\\"event\\"}",
    "tenantId": "10",
    "type": "EVENT",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
400 Bad Request	One of the url parameters is empty (eventClassFamilyId, version or type)
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN, TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the event class family does not match the Tenant ID of the authenticated user
404 Not Found	An event class family with the specified eventClassFamilyId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/eventClasses?eventClassFamilyId=34&version=1&type=EVENT" | python -mjson.tool
```

- ▼ [Example result](#)

```
[
  {
    "ecfId": "34",
    "fqm": "org.kaaproject.kaa.test.family.MyTestRequest",
    "id": "177",
    "schema":
    "{\\"type\\":\\"record\\",\\"name\\":\\"MyTestRequest\\",\\"namespace\\":\\"org.kaaproject.kaa.test.family\\",\\"fields\\":[],\\"classType\\":\\"event\\"}",
    "tenantId": "10",
    "type": "EVENT",
    "version": 1
  },
  {
    "ecfId": "34",
    "fqm": "org.kaaproject.kaa.test.family.MyTestResponse",
    "id": "178",
    "schema":
    "{\\"type\\":\\"record\\",\\"name\\":\\"MyTestResponse\\",\\"namespace\\":\\"org.kaaproject.kaa.test.family\\",\\"fields\\":[{\\"name\\":\\"testField\\",\\"type\\":[\\"string\\",\\"null\\"]}]}",
    "tenantId": "10",
    "type": "EVENT",
    "version": 1
  }
]
```

## Get application event family maps

Returns all application event family maps for the specified application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

As of release 0.9.0 this method is deprecated, replaced by [Get application event family maps by application token](#).

- **URL**  
/kaaAdmin/rest/api/applicationEventMaps/{applicationId}

- **Method:**  
GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application

- **Data params**

None

- **Success response:**

- **Code: 200**  
  - ▾ [Response body](#)**Example:**



```
[
  {
    "applicationId": "7",
    "createdTime": 1461254332740,
    "createdUsername": "devuser",
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "eventMaps": [
      {
        "action": "BOTH",
        "eventClassId": "5",
        "fqcn":
"org.kaaproject.kaa.demo.verifiersdemo.MessageEvent",
        "id": "4"
      }
    ],
    "id": "2",
    "version": 1
  }
]
```

## Get application event family maps by application token

Returns all application event family maps for the specified application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/applicationEventMapsByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application

- **Data params**

None

- **Success response:**

- **Code:** 200

▼ Response body

**Example:**



```
[
  {
    "applicationId": "7",
    "createdTime": 1461254332740,
    "createdUsername": "devuser",
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "eventMaps": [
      {
        "action": "BOTH",
        "eventClassId": "5",
        "fqn":
"org.kaaproject.kaa.demo.verifiersdemo.MessageEvent",
        "id": "4"
      }
    ],
    "id": "2",
    "version": 1
  }
]
```

## Get application event family map

Returns an application event family map by application event family map ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/applicationEventMap/{applicationEventFamilyMapId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationEventFamilyMapId	string	The ID of the application event family map

- **Data params**

None

- **Success response:**

- **Code:** 200

▼ [Response body](#)

**Example:**

```

{
  "applicationId": "71",
  "createdTime": 1408705246676,
  "createdUsername": "devuser",
  "ecfId": "31",
  "ecfName": "Device Event Class Family",
  "eventMaps": [
    {
      "action": "BOTH",
      "eventClassId": "67",
      "fqcn":
"org.kaaproject.kaa.demo.smarthouse.device.DeviceInfoRequest",
      "id": "151"
    },
    {
      "action": "BOTH",
      "eventClassId": "160",
      "fqcn":
"org.kaaproject.kaa.demo.smarthouse.device.DeviceInfoResponse",
      "id": "152"
    }
  ],
  "id": "131",
  "version": 1
}

```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the application event family map does not match the Tenant ID of the authenticated user
404 Not Found	An application event family map with the specified applicationEventFamilyMapId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```

curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/applicationEventMap/131" | python
-mjson.tool

```

▼ [Example result](#)

```

{
  "applicationId": "71",
  "createdTime": 1408705246676,
  "createdUsername": "devuser",
  "ecfId": "31",
  "ecfName": "Device Event Class Family",
  "eventMaps": [
    {
      "action": "BOTH",
      "eventClassId": "67",
      "fqn":
"org.kaaproject.kaa.demo.smarthouse.device.DeviceInfoRequest",
      "id": "151"
    },
    {
      "action": "BOTH",
      "eventClassId": "160",
      "fqn":
"org.kaaproject.kaa.demo.smarthouse.device.DeviceInfoResponse",
      "id": "152"
    }
  ],
  "id": "131",
  "version": 1
}

```

## Create/Edit application event family map

Creates or edits an application event family map. If an application event family map with the specified ID does not exist, it will be created. If an application event family map with the specified ID exists, it will be updated. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/applicationEventMap

- **Method:**  
POST

- **URL params**  
None

- **Data params**  
  - ▼ Request body**Example:**

```

{"applicationId":"71","ecfId":"34","ecfName":"Test Event Class
Family","eventMaps":[{"action":"BOTH","eventClassId":"177","fqn":"org.kaapr
object.kaa.test.family.MyTestRequest"}, {"action":"BOTH","eventClassId":"178"
,"fqn":"org.kaaproject.kaa.test.family.MyTestResponse"}]}

```

- **Success response:**

- **Code:** 200  
  - ▼ Response body**Example:**



```

{
  "applicationId": "71",
  "createdTime": 1409145316401,
  "createdUsername": "devuser",
  "ecfId": "34",
  "ecfName": "Test Event Class Family",
  "eventMaps": [
    {
      "action": "BOTH",
      "eventClassId": "177",
      "fqcn": "org.kaaproject.kaa.test.family.MyTestRequest",
      "id": "185"
    },
    {
      "action": "BOTH",
      "eventClassId": "178",
      "fqcn": "org.kaaproject.kaa.test.family.MyTestResponse",
      "id": "186"
    }
  ],
  "id": "134",
  "version": 0
}

```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the application event family map does not match the Tenant ID of the authenticated user
404 Not Found	An application event family map to be edited with the specified applicationEventFamilyMapId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```

curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"applicationId":"71","ecfId":"34","ecfName":"Test Event Class
Family","eventMaps":[{"action":"BOTH","eventClassId":"177","fqcn":"org.kaaproje
ct.kaa.test.family.MyTestRequest"}, {"action":"BOTH","eventClassId":"178","fqcn
":"org.kaaproject.kaa.test.family.MyTestResponse"}]}'
"http://localhost:8080/kaaAdmin/rest/api/applicationEventMap" | python
-mjson.tool

```

- ▼ [Example result](#)

```

{
  "applicationId": "71",
  "createdTime": 1409145316401,
  "createdUsername": "devuser",
  "ecfId": "34",
  "ecfName": "Test Event Class Family",
  "eventMaps": [
    {
      "action": "BOTH",
      "eventClassId": "177",
      "fqcn": "org.kaaproject.kaa.test.family.MyTestRequest",
      "id": "185"
    },
    {
      "action": "BOTH",
      "eventClassId": "178",
      "fqcn": "org.kaaproject.kaa.test.family.MyTestResponse",
      "id": "186"
    }
  ],
  "id": "134",
  "version": 0
}

```

## Get vacant event class families

Returns all vacant (not being used by application event family maps) event class families for the specified application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

As of release 0.9.0 this method is deprecated, replaced by [Get application event family maps by application token](#).

- **URL**  
/kaaAdmin/rest/api/vacantEventClassFamilies/{applicationId}

- **Method:**  
GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "ecfId": "1",
    "ecfName": "Thermostat Event Class Family",
    "version": 1
  },
  {
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "version": 1
  },
  {
    "ecfId": "3",
    "ecfName": "Remote Control Event Class Family",
    "version": 1
  },
  {
    "ecfId": "4",
    "ecfName": "Photo Frame Event Class Family",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/vacantEventClassFamilies/5" | python
-mjson.tool
```

- ▼ [Example result](#)

```
[
  {
    "ecfId": "1",
    "ecfName": "Thermostat Event Class Family",
    "version": 1
  },
  {
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "version": 1
  },
  {
    "ecfId": "3",
    "ecfName": "Remote Control Event Class Family",
    "version": 1
  },
  {
    "ecfId": "4",
    "ecfName": "Photo Frame Event Class Family",
    "version": 1
  }
]
```

## Get vacant event class families by application token

Returns all vacant (not being used by application event family maps) event class families for the specified application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/vacantEventClassFamiliesByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```
[
  {
    "ecfId": "1",
    "ecfName": "Thermostat Event Class Family",
    "version": 1
  },
  {
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "version": 1
  },
  {
    "ecfId": "3",
    "ecfName": "Remote Control Event Class Family",
    "version": 1
  },
  {
    "ecfId": "4",
    "ecfName": "Photo Frame Event Class Family",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/vacantEventClassFamiliesByAppToken/93
185465951671258176" | python -mjson.tool
```

- ▼ [Example result](#)

```
[
  {
    "ecfId": "1",
    "ecfName": "Thermostat Event Class Family",
    "version": 1
  },
  {
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "version": 1
  },
  {
    "ecfId": "3",
    "ecfName": "Remote Control Event Class Family",
    "version": 1
  },
  {
    "ecfId": "4",
    "ecfName": "Photo Frame Event Class Family",
    "version": 1
  }
]
```

## Get application event class families

Returns all event class families for the specified application (being used by application event family maps). Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

As of release 0.9.0 this method is deprecated, replaced by [Get application event class families by application token](#).

- **URL**  
/kaaAdmin/rest/api/eventClassFamilies/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application.

- **Data params**

None

- **Success response:**

- **Code: 200**  
  ↳ [Response body](#)

**Example:**

```
[
  {
    "aefMapId": "2",
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/eventClassFamilies/7" | python
-mjson.tool
```

- **Example result**

```
[
  {
    "aefMapId": "2",
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "version": 1
  }
]
```

## Get application event class families by application token

Returns all event class families for the specified application (being used by application event family maps) based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/eventClassFamiliesByAppToken/{applicationToken}
- **Method:**  
GET
- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application.

- **Data params**

None

- **Success response:**

- **Code: 200**

- ▼ [Response body](#)

- Example:**

```
[
  {
    "aefMapId": "2",
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "version": 1
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/eventClassFamiliesByAppToken/26100981852394445021" | python -mjson.tool
```

- ▼ [Example result](#)

```
[
  {
    "aefMapId": "2",
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "version": 1
  }
]
```



# Logging

## Get log schemas

Returns all log schemas for the specified application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information. The Tenant ID value of the application must match Tenant ID of the request submitter.

As of release 0.9.0 this method is deprecated, replaced by [Get log schemas by application token](#).

- **URL**  
/kaaAdmin/rest/api/logSchemas/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application.

- **Data params**

None

- **Success response:**

- **Code: 200**
  - ▾ [Response body](#)  
**Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329310,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "19",
    "name": "Generated",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"Log\", \n  \"namespace\": \"org.kaaproject.kaa.schema.base\", \n  \"fields\": []\n}",
    "version": 1
  },
  {
    "applicationId": "5",
    "createdTime": 1461254329920,
    "createdUsername": "devuser",
    "description": "Log schema describing incoming logs",
    "endpointCount": 0,
    "id": "20",
    "name": "Log schema",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"LogData\", \n  \"namespace\": \"org.kaaproject.kaa.schema.sample.logging\", \n  \"fields\": [\n    {\n      \"name\": \"level\", \n      \"type\": {\n        \"type\": \"enum\", \n        \"name\": \"Level\", \n        \"symbols\": [\n          \"KAA_DEBUG\", \n          \"KAA_ERROR\", \n          \"KAA_FATAL\", \n          \"KAA_INFO\", \n          \"KAA_TRACE\", \n          \"KAA_WARN\" \n        ] \n      }, \n      \"name\": \"tag\", \n      \"type\": \"string\" \n    }, \n    {\n      \"name\": \"message\", \n      \"type\": \"string\" \n    }, \n    {\n      \"name\": \"timeStamp\", \n      \"type\": \"long\" \n    } \n  ] \n}",
    "version": 2
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/logSchemas/5" | python -mjson.tool
```

▼ Example result

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329310,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "19",
    "name": "Generated",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"Log\", \n
\namespace\": \"org.kaaproject.kaa.schema.base\", \n  \"fields\": []\n}",
    "version": 1
  },
  {
    "applicationId": "5",
    "createdTime": 1461254329920,
    "createdUsername": "devuser",
    "description": "Log schema describing incoming logs",
    "endpointCount": 0,
    "id": "20",
    "name": "Log schema",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"LogData\", \n
\namespace\": \"org.kaaproject.kaa.schema.sample.logging\", \n
\nfields\": [\n    {\n      \"name\": \"level\", \n      \"type\": {\n
\n      \"type\": \"enum\", \n      \"name\": \"Level\", \n      \"symbols\": [\n
\n      \"KAA_DEBUG\", \n      \"KAA_ERROR\", \n      \"KAA_FATAL\", \n
\n      \"KAA_INFO\", \n      \"KAA_TRACE\", \n      \"KAA_WARN\" \n
\n    ]\n    } \n  }, \n  {\n    \"name\": \"tag\", \n
\n    \"type\": \"string\" \n  }, \n  {\n    \"name\": \"message\", \n
\n    \"type\": \"string\" \n  }, \n  {\n    \"name\": \"timeStamp\", \n
\n    \"type\": \"long\" \n  } \n ] \n}",
    "version": 2
  }
]
```

## Get log schemas by application token

Returns all log schemas for the specified application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information. The Tenant ID value of the application must match Tenant ID of the request submitter.

- **URL**  
/kaaAdmin/rest/api/logSchemasByAppToken/{applicationToken}
- **Method:**  
GET
- **URL params**

Parameter	Value	Description
-----------	-------	-------------

applicationToken	string	The token of the application.
------------------	--------	-------------------------------

- **Data params**

None

- **Success response:**

- **Code: 200**

- ▼ [Response body](#)

- Example:**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329310,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "19",
    "name": "Generated",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"Log\", \n  \"namespace\": \"org.kaaproject.kaa.schema.base\", \n  \"fields\": []\n}",
    "version": 1
  },
  {
    "applicationId": "5",
    "createdTime": 1461254329920,
    "createdUsername": "devuser",
    "description": "Log schema describing incoming logs",
    "endpointCount": 0,
    "id": "20",
    "name": "Log schema",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"LogData\", \n  \"namespace\": \"org.kaaproject.kaa.schema.sample.logging\", \n  \"fields\": [\n    {\n      \"name\": \"level\", \n      \"type\": \"enum\", \n      \"symbols\": [\n        \"KAA_DEBUG\", \n        \"KAA_ERROR\", \n        \"KAA_FATAL\", \n        \"KAA_INFO\", \n        \"KAA_TRACE\", \n        \"KAA_WARN\" \n      ], \n      \"name\": \"tag\", \n      \"type\": \"string\" \n    }, \n    {\n      \"name\": \"message\", \n      \"type\": \"string\" \n    }, \n    {\n      \"name\": \"timeStamp\", \n      \"type\": \"long\" \n    } \n  ]\n}",
    "version": 2
  }
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user

404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/logSchemasByAppToken/9318546595167125
8176" | python -mjson.tool
```

- **Example result**

```
[
  {
    "applicationId": "5",
    "createdTime": 1461254329310,
    "createdUsername": "admin",
    "description": null,
    "endpointCount": 0,
    "id": "19",
    "name": "Generated",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"Log\", \n
\namespace\": \"org.kaaproject.kaa.schema.base\", \n  \"fields\": []\n}",
    "version": 1
  },
  {
    "applicationId": "5",
    "createdTime": 1461254329920,
    "createdUsername": "devuser",
    "description": "Log schema describing incoming logs",
    "endpointCount": 0,
    "id": "20",
    "name": "Log schema",
    "schema": "{\n  \"type\": \"record\", \n  \"name\": \"LogData\", \n
\namespace\": \"org.kaaproject.kaa.schema.sample.logging\", \n
\nfields\": [\n    {\n      \"name\": \"level\", \n      \"type\": {\n
\n        \"type\": \"enum\", \n        \"name\": \"Level\", \n        \"symbols\": [\n
\n          \"KAA_DEBUG\", \n          \"KAA_ERROR\", \n          \"KAA_FATAL\", \n
\n          \"KAA_INFO\", \n          \"KAA_TRACE\", \n          \"KAA_WARN\"\n
\n        ]\n      }\n    }, \n    {\n      \"name\": \"tag\", \n
\n      \"type\": \"string\", \n      \"name\": \"message\", \n
\n      \"type\": \"string\", \n      \"name\": \"timeStamp\", \n
\n      \"type\": \"long\", \n      \"name\": \"timeStamp\", \n
\n    }\n  ]\n}",
    "version": 2
  }
]
```

## Get log schema

Returns a log schema by log schema ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/logSchema/{logSchemaId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
logSchemald	string	The ID of the log schema

- **Data params**

None

- **Success response:**

- **Code: 200**

- ▼ [Response body](#)

- Example:**

```
{
  "applicationId": "71",
  "createdTime": 1408705246583,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "95",
  "majorVersion": 1,
  "minorVersion": 0,
  "name": "Generated",
  "schema": "{\r\n  \r\n  \"type\": \"record\", \r\n  \r\n  \"name\": \r\n  \r\n  \"LogData\", \r\n  \r\n  \"namespace\": \"org.kaa.config\", \r\n  \r\n  \"fields\": [\r\n    \r\n    {\r\n      \r\n      \"name\": \r\n      \r\n      \"level\", \r\n      \r\n      \"type\": {\r\n        \r\n        \"name\": \"Level\", \r\n        \r\n        \"symbols\": [\r\n          \r\n          \"DEBUG\", \r\n          \r\n          \"ERROR\", \r\n          \r\n          \"FATAL\", \r\n          \r\n          \"INFO\", \r\n          \r\n          \"TRACE\", \r\n          \r\n          \"WARN\" \r\n        ] \r\n      } \r\n    }, \r\n    \r\n    {\r\n      \r\n      \"name\": \"tag\", \r\n      \r\n      \"type\": \"string\" \r\n    } \r\n  ], \r\n  \r\n  \"name\": \"message\", \r\n  \r\n  \"type\": \"string\" \r\n} \r\n  ] \r\n}"
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log schema does not match the Tenant ID of the authenticated user
404 Not Found	A log schema with the specified logSchemald does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/logSchema/95" | python -mjson.tool
```

▼ Example result

```
{
  "applicationId": "71",
  "createdTime": 1408705246583,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "95",
  "majorVersion": 1,
  "minorVersion": 0,
  "name": "Generated",
  "schema": "{\r\n  \"type\": \"record\", \r\n  \"name\":\r\n  \"LogData\", \r\n  \"namespace\": \"org.kaa.config\", \r\n  \"fields\":\r\n  [\r\n    {\r\n      \"name\": \"level\", \r\n      \"type\": {\r\n        \"type\": \"enum\", \r\n        \"name\": \"Level\", \r\n        \"symbols\": [\r\n          \"DEBUG\", \r\n          \"ERROR\", \r\n          \"FATAL\", \r\n          \"INFO\", \r\n          \"TRACE\", \r\n          \"WARN\" \r\n        ] \r\n      }, \r\n      \"tag\": \"\", \r\n      \"type\": \"string\" \r\n    }, \r\n    {\r\n      \"name\": \"message\", \r\n      \"type\":\r\n      \"string\" \r\n    } \r\n  ] \r\n}"
```

## Get log schema by application token and schema version

Returns a log schema for the specified schema version and application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/logSchema/{applicationToken}/{schemaVersion}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application for the requested log schema
schemaVersion	string	The version of the requested log schema

- **Data params**

None

- **Success response:**

- **Code: 200**

▼ Response body

**Example:**

```
{
  "applicationId": "71",
  "createdTime": 1408705246583,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "95",
  "majorVersion": 1,
  "minorVersion": 0,
  "name": "Generated",
  "schema": "{\r\n  \"type\": \"record\", \r\n  \"name\": \"LogData\", \r\n  \"namespace\": \"org.kaa.config\", \r\n  \"fields\": [\r\n    {\r\n      \"name\": \"level\", \r\n      \"type\": {\r\n        \"type\": \"enum\", \r\n        \"name\": \"Level\", \r\n        \"symbols\": [\r\n          \"DEBUG\", \r\n          \"ERROR\", \r\n          \"FATAL\", \r\n          \"INFO\", \r\n          \"TRACE\", \r\n          \"WARN\" \r\n        ] \r\n      } \r\n    }, \r\n    {\r\n      \"name\": \"tag\", \r\n      \"type\": \"string\" \r\n    } \r\n  ], \r\n  \"name\": \"message\", \r\n  \"type\": \"string\" \r\n} \r\n ] \r\n}"
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log schema does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified application token does not exist or application does not have log schema with the specified schema version
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/logSchema/114785424389877/1" | python
-mjson.tool
```

- ▼ [Example result](#)



```

{
  "applicationId": "71",
  "createdTime": 1408705246583,
  "createdUsername": "admin",
  "description": null,
  "endpointCount": 0,
  "id": "95",
  "majorVersion": 1,
  "minorVersion": 0,
  "name": "Generated",
  "schema": "{\r\n  \"type\": \"record\", \r\n  \"name\":\r\n  \"LogData\", \r\n  \"namespace\": \"org.kaa.config\", \r\n  \"fields\":\r\n  [\r\n    {\r\n      \"name\": \"level\", \r\n      \"type\": \"enum\", \r\n      \"name\": \"Level\", \r\n      \"symbols\": [\r\n        \"DEBUG\", \r\n        \"ERROR\", \r\n        \"FATAL\", \r\n        \"INFO\", \r\n        \"TRACE\", \r\n        \"WARN\" \r\n      ] \r\n    }, \r\n    {\r\n      \"name\":\r\n      \"tag\", \r\n      \"type\": \"string\" \r\n    }, \r\n    {\r\n      \"name\": \"message\", \r\n      \"type\":\r\n      \"string\" \r\n    } \r\n  ] \r\n}"
}

```

## Create/Edit log schema

Creates or updates a log schema. If a log schema with the specified ID does not exist, then it will be created and its createUsername field of the schema will be set to the name of the user who has uploaded it, a unique version number will be generated (incrementally) for this schema. If a configuration with the specified ID exists, the configuration will be updated. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/createLogSchema

- **Method:**  
POST

- **URL params**  
None

- **Data params**

Multipart/form-data encoding. Fields:

- ▼ [logSchema \(content-type: application/json\)](#)

**Example:**

```

{"applicationId":"71","name":"Test log schema","description":"Log Schema Description"}

```

- ▼ [file \(content-type: application/octet-stream\)](#)

**File contents example:**

```
{
  "type": "record",
  "name": "TestLogData",
  "namespace": "org.kaa.config.test",
  "fields": [
    {
      "name": "level",
      "type": {
        "type": "enum",
        "name": "Level",
        "symbols": [
          "DEBUG",
          "ERROR",
          "FATAL",
          "INFO",
          "TRACE",
          "WARN"
        ]
      }
    },
    {
      "name": "tag",
      "type": "string"
    },
    {
      "name": "message",
      "type": "string"
    }
  ]
}
```

- **Success response:**

- **Code:** 200

- ✓ [Response body](#)

- Example:**

```
{
  "applicationId": "5",
  "createdTime": 1466611240967,
  "createdUsername": "devuser",
  "description": "Log Schema Description",
  "endpointCount": 0,
  "id": "32768",
  "name": "Test log schema",
  "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"TestLogData\",\n  \"namespace\": \"org.kaa.config.test\",\n  \"fields\": [\n    {\n      \"name\": \"level\",\n      \"type\": {\n        \"type\": \"enum\",\n        \"name\": \"Level\",\n        \"symbols\": [\n          \"DEBUG\",\n          \"ERROR\",\n          \"FATAL\",\n          \"INFO\",\n          \"TRACE\",\n          \"WARN\"\n        ]\n      },\n      \"type\": \"string\",\n      \"name\": \"message\",\n      \"type\": \"string\"\n    }\n  ]\n}\n\n",
  "version": 3
}
```

- **Error response:**

Status codes	Description
400 Bad Request	The specified log schema is not a valid avro schema
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log schema does not match the Tenant ID of the authenticated user
404 Not Found	A file with a schema not found in the form data
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create log schema:**

```
curl -v -S -u devuser:devuser123
-F'logSchema={"applicationId":"5","name":"Test log schema","description":"Log
Schema Description"};type=application/json' -F file=@log_schema.json
"http://localhost:8080/kaaAdmin/rest/api/createLogSchema" | python -mjson.tool
```

- ▼ [Example result](#)

```

{
  "applicationId": "5",
  "createdTime": 1466611240967,
  "createdUsername": "devuser",
  "description": "Log Schema Description",
  "endpointCount": 0,
  "id": "32768",
  "name": "Test log schema",
  "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"TestLogData\",\n  \"namespace\": \"org.kaa.config.test\",\n  \"fields\": [\n    {\n      \"name\": \"level\",\n      \"type\": \"enum\",\n      \"symbols\": [\n        \"DEBUG\",\n        \"ERROR\",\n        \"FATAL\",\n        \"INFO\",\n        \"TRACE\",\n        \"WARN\"\n      ]\n    },\n    {\n      \"name\": \"tag\",\n      \"type\": \"string\",\n      \"symbols\": [\n        \"message\"\n      ]\n    }\n  ]\n}\n\n",
  "version": 3
}

```

- **Sample call to edit log schema:**

```

curl -v -S -u devuser:devuser123
-F'logSchema={"id":"32768","applicationId":"5","name":"Test log
schema","description":"Log Schema Description edited"};type=application/json'
-F file=@log_schema.json
"http://localhost:8080/kaaAdmin/rest/api/createLogSchema" | python -mjson.tool

```

▼ **Example result**

```

{
  "applicationId": "5",
  "createdTime": 1466611240967,
  "createdUsername": "devuser",
  "description": "Log Schema Description edited",
  "endpointCount": 0,
  "id": "32768",
  "name": "Test log schema",
  "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"TestLogData\",\n  \"namespace\": \"org.kaa.config.test\",\n  \"fields\": [\n    {\n      \"name\": \"level\",\n      \"type\": {\n        \"type\": \"enum\",\n        \"name\": \"Level\",\n        \"symbols\": [\n          \"DEBUG\",\n          \"FATAL\",\n          \"TRACE\",\n          \"ERROR\",\n          \"INFO\",\n          \"WARN\"\n        ]\n      },\n      \"type\": \"string\",\n      \"name\": \"tag\",\n      \"type\": \"string\",\n      \"name\": \"message\",\n      \"type\": \"string\",\n      \"version\": 3\n    }\n  ]\n}"
}

```

## Get log appenders

Returns all log appenders for the specified application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

As of release 0.9.0 this method is deprecated, replaced by [Get log appenders by application token](#).

- **URL**  
/kaaAdmin/rest/api/logAppenders/{applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application.

- **Data params**

None

- **Success response:**

- **Code: 200**  
  - ▾ [Response body](#)

**Example:**

```
[
  {
    "applicationId": "5",
    "applicationToken": "93185465951671258176",
    "confirmDelivery": true,
    "createdTime": 1461254330001,
    "createdUsername": "devuser",
    "description": "Log appender used to deliver log records from
data collection application to local mongo db instance",
    "headerStructure": [
      "KEYHASH",
      "TIMESTAMP",
      "TOKEN",
      "VERSION"
    ],
    "id": "1",
    "jsonConfiguration":
    "{\"mongoServers\": [{\"host\": \"localhost\", \"port\": 27017}], \"mongoCr
redentials\": [], \"dbName\": \"kaa\", \"connectionsPerHost\": {\"int\": 30},
\"maxWaitTime\": {\"int\": 120000}, \"connectionTimeout\": {\"int\": 5000},
\"socketTimeout\": {\"int\": 0}, \"socketKeepalive\": {\"boolean\": false},
\"includeClientProfile\": {\"boolean\": false}, \"includeServerProfile\":
{\"boolean\": false}}",
      "maxLogSchemaVersion": 2147483647,
      "minLogSchemaVersion": 1,
      "name": "Data collection log appender",
      "pluginClassName":
      "org.kaaproject.kaa.server.appenders.mongo.appender.MongoDbLogAppender
",
      "pluginTypeName": "MongoDB",
      "tenantId": "1"
    }
  ]
]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/logAppendors/5" | python -mjson.tool
```

▼ Example result

```
[
  {
    "applicationId": "5",
    "applicationToken": "93185465951671258176",
    "confirmDelivery": true,
    "createdTime": 1461254330001,
    "createdUsername": "devuser",
    "description": "Log appender used to deliver log records from data
collection application to local mongo db instance",
    "headerStructure": [
      "KEYHASH",
      "TIMESTAMP",
      "TOKEN",
      "VERSION"
    ],
    "id": "1",
    "jsonConfiguration":
    "{\\"mongoServers\\":[{\\"host\\":\\"localhost\\",\\"port\\":27017}],\\"mongoCredent
ials\\":[],\\"dbName\\":\\"kaa\\",\\"connectionsPerHost\\":{\\"int\\":30},\\"maxWaitT
ime\\":{\\"int\\":120000},\\"connectionTimeout\\":{\\"int\\":5000},\\"socketTimeout
\\":{\\"int\\":0},\\"socketKeepalive\\":{\\"boolean\\":false},\\"includeClientProfi
le\\":{\\"boolean\\":false},\\"includeServerProfile\\":{\\"boolean\\":false}}",
      "maxLogSchemaVersion": 2147483647,
      "minLogSchemaVersion": 1,
      "name": "Data collection log appender",
      "pluginClassName":
      "org.kaaproject.kaa.server.appenders.mongo.appender.MongoDbLogAppender",
      "pluginTypeName": "MongoDB",
      "tenantId": "1"
    }
  ]
}
```

## Get log appenders by application token

Returns all log appenders for the specified application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/logAppendersByAppToken/{applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application.

- **Data params**

None

- **Success response:**

- **Code:** 200

▼ Response body

**Example:**

```
[
  {
    "applicationId": "5",
    "applicationToken": "93185465951671258176",
    "confirmDelivery": true,
    "createdTime": 1461254330001,
    "createdUsername": "devuser",
    "description": "Log appender used to deliver log records from
data collection application to local mongo db instance",
    "headerStructure": [
      "KEYHASH",
      "TIMESTAMP",
      "TOKEN",
      "VERSION"
    ],
    "id": "1",
    "jsonConfiguration":
    "{\\"mongoServers\\":[{\\"host\\":\\"localhost\\",\\"port\\":27017}],\\"mongoCr
redentials\\":[],\\"dbName\\":\\"kaa\\",\\"connectionsPerHost\\":{\\"int\\":30},
\\"maxWaitTime\\":{\\"int\\":120000},\\"connectionTimeout\\":{\\"int\\":5000},
\\"socketTimeout\\":{\\"int\\":0},\\"socketKeepalive\\":{\\"boolean\\":false},
\\"includeClientProfile\\":{\\"boolean\\":false},\\"includeServerProfile\\":
{\\"boolean\\":false}}",
      "maxLogSchemaVersion": 2147483647,
      "minLogSchemaVersion": 1,
      "name": "Data collection log appender",
      "pluginClassName":
      "org.kaaproject.kaa.server.appenders.mongo.appender.MongoDbLogAppender
",
      "pluginTypeName": "MongoDB",
      "tenantId": "1"
    }
  ]
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/logAppendByAppToken/93185465951671
258176" | python -mjson.tool
```



▼ Example result

```
[
  {
    "applicationId": "5",
    "applicationToken": "93185465951671258176",
    "confirmDelivery": true,
    "createdTime": 1461254330001,
    "createdUsername": "devuser",
    "description": "Log appender used to deliver log records from data
collection application to local mongo db instance",
    "headerStructure": [
      "KEYHASH",
      "TIMESTAMP",
      "TOKEN",
      "VERSION"
    ],
    "id": "1",
    "jsonConfiguration":
    "{ \"mongoServers\": [{ \"host\": \"localhost\", \"port\": 27017 } ], \"mongoCredent
ials\": [ ], \"dbName\": \"kaa\", \"connectionsPerHost\": { \"int\": 30 }, \"maxWaitT
ime\": { \"int\": 120000 }, \"connectionTimeout\": { \"int\": 5000 }, \"socketTimeout
\": { \"int\": 0 }, \"socketKeepalive\": { \"boolean\": false }, \"includeClientProfi
le\": { \"boolean\": false }, \"includeServerProfile\": { \"boolean\": false } }",
    "maxLogSchemaVersion": 2147483647,
    "minLogSchemaVersion": 1,
    "name": "Data collection log appender",
    "pluginClassName":
    "org.kaaproject.kaa.server.appenders.mongo.appender.MongoDbLogAppender",
    "pluginTypeName": "MongoDB",
    "tenantId": "1"
  }
]
```

## Get log appender

Returns a log appender by log appender ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/logAppender/{logAppenderId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
logAppenderId	string	The ID of the log appender

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

**Example:**

```

{
  "appenderClassName":
  "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppend
er",
  "applicationId": "70",
  "applicationToken": "517279666821995",
  "configuration":
  "{\\"publicKey\\":\\"DFGFDGD43FGGDFJJKKJLFD34535DFDFGD\\",\\"logsRootPath\\":
\\"/kaa_log_uploads\\",\\"rollingFileNamePatern\\":\\"logFile.%d{yyyy-MM-dd
}.log\\",\\"rollingMaxHistory\\":30,\\"triggerMaxFileSize\\":\\"1GB\\",\\"enco
derPattern\\":\\"%-4relative [%thread] %-5level %logger{35} -
%msg%n\\"}",
  "createdTime": 1418313672013,
  "createdUsername": "devuser",
  "description": "Sample file system log appender",
  "headerStructure": [
    "KEYHASH",
    "TIMESTAMP"
  ],
  "id": "160",
  "maxLogSchemaVersion": 2147483647,
  "minLogSchemaVersion": 1,
  "name": "File system appender",
  "status": "REGISTERED",
  "tenantId": "10",
  "typeName": "File"
}

```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log appender does not match the Tenant ID of the authenticated user
404 Not Found	A log appender with the specified logAppenderId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```

curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/logAppender/160" | python -mjson.tool

```

- ▼ [Example result](#)

```

{
  "appenderClassName":
  "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
  "applicationId": "70",
  "applicationToken": "517279666821995",
  "configuration":
  "{\\"publicKey\\":\\"DFGFDGD43FGGDFJKKJLFD34535DFDFGD\\",\\"logsRootPath\\":\\"/ka
a_log_uploads\\",\\"rollingFileNamePatern\\":\\"logFile.%d{yyyy-MM-dd}.log\\",\\"
rollingMaxHistory\\":30,\\"triggerMaxFileSize\\":\\"1GB\\",\\"encoderPattern\\":\\"
%-4relative [%thread] %-5level %logger{35} - %msg%n\\"}",
  "createdTime": 1418313672013,
  "createdUsername": "devuser",
  "description": "Sample file system log appender",
  "headerStructure": [
    "KEYHASH",
    "TIMESTAMP"
  ],
  "id": "160",
  "maxLogSchemaVersion": 2147483647,
  "minLogSchemaVersion": 1,
  "name": "File system appender",
  "status": "REGISTERED",
  "tenantId": "10",
  "typeName": "File"
}

```

## Create/Edit log appender

Creates or edits a log appender. If a log appender with the specified ID does not exist, it will be created. If a log appender with the specified ID exists, it will be updated. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/logAppender
- **Method:**  
POST
- **URL params**  
None
- **Data params**
  - ▾ [Request body](#)
  - Example:**

```
{
  "pluginClassName":
  "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
  "applicationId": "150", "applicationToken": "49263753185447091438",
  "jsonConfiguration":
  "{\\"publicKey\\":\\"XXXXXXXXXXXXXXXXXXXX\\",\\"logsRootPath\\":\\"/kaa_log_uploads_new\\",\\"rollingFileNamePatern\\":\\"logFile.%d{yyyy-MM-dd}.log\\",\\"rollingMaxHistory\\":30,\\"triggerMaxFileSize\\":\\"1GB\\",\\"encoderPattern\\":\\"%-4relative [%thread] %-5level %logger{35} - %msg%n\\"}", "description": "New sample file system log appender", "headerStructure": [
  "KEYHASH","TIMESTAMP" ], "name": "New file system appender",
  "maxLogSchemaVersion": 2147483647, "minLogSchemaVersion": 1, "tenantId": "70", "pluginTypeName": "File"}
}
```

- **Success response:**

- **Code:** 200

- ▼ [Response body](#)

- Example:**

```
{
  "applicationId": "150",
  "applicationToken": "49263753185447091438",
  "confirmDelivery": true,
  "createdTime": 1423499273191,
  "createdUsername": "devuser",
  "description": "New sample file system log appender",
  "headerStructure": [
    "KEYHASH",
    "TIMESTAMP"
  ],
  "id": "256",
  "jsonConfiguration":
  "{\\"publicKey\\":\\"XXXXXXXXXXXXXXXXXXXX\\",\\"logsRootPath\\":\\"/kaa_log_uploads_new\\",\\"rollingFileNamePatern\\":\\"logFile.%d{yyyy-MM-dd}.log\\",\\"rollingMaxHistory\\":30,\\"triggerMaxFileSize\\":\\"1GB\\",\\"encoderPattern\\":\\"%-4relative [%thread] %-5level %logger{35} - %msg%n\\"}",
  "maxLogSchemaVersion": 2147483647,
  "minLogSchemaVersion": 1,
  "name": "New file system appender",
  "pluginClassName":
  "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
  "pluginTypeName": "File",
  "tenantId": "70"
}
```

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided

403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log appender does not match the Tenant ID of the authenticated user
404 Not Found	A log appender to be edited with the specified id does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create log appender:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"pluginClassName":
"org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
"applicationId": "150", "applicationToken": "49263753185447091438",
"jsonConfiguration":
"{\"publicKey\": \"XXXXXXXXXXXXXXXXXXXX\", \"logsRootPath\": \"/kaa_log_uploads_
new\", \"rollingFileNamePatern\": \"logFile.%d{yyyy-MM-dd}.log\", \"rollingMaxHis
tory\": 30, \"triggerMaxFileSize\": \"1GB\", \"encoderPattern\": \"%-4relative
[%thread] %-5level %logger{35} - %msg%n\"}", "description": "New sample file
system log appender", "headerStructure": [ "KEYHASH", "TIMESTAMP" ], "name":
"New file system appender", "maxLogSchemaVersion": 2147483647,
"minLogSchemaVersion": 1, "tenantId": "70", "pluginTypeName": "File"}'
"http://localhost:8080/kaaAdmin/rest/api/logAppender" | python -mjson.tool
```

- **Example result**

```
{
  "applicationId": "150",
  "applicationToken": "49263753185447091438",
  "confirmDelivery": true,
  "createdTime": 1423499273191,
  "createdUsername": "devuser",
  "description": "New sample file system log appender",
  "headerStructure": [
    "KEYHASH",
    "TIMESTAMP"
  ],
  "id": "256",
  "jsonConfiguration":
  "{\"publicKey\": \"XXXXXXXXXXXXXXXXXXXX\", \"logsRootPath\": \"/kaa_log_uploa
ds_new\", \"rollingFileNamePatern\": \"logFile.%d{yyyy-MM-dd}.log\", \"rolling
MaxHistory\": 30, \"triggerMaxFileSize\": \"1GB\", \"encoderPattern\": \"%-4rela
tive [%thread] %-5level %logger{35} - %msg%n\"}",
  "maxLogSchemaVersion": 2147483647,
  "minLogSchemaVersion": 1,
  "name": "New file system appender",
  "pluginClassName":
  "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
  "pluginTypeName": "File",
  "tenantId": "70"
}
```

- **Sample call to edit log appender:**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"id": "256", "pluginClassName":
"org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
"applicationId": "150", "applicationToken": "49263753185447091438",
"jsonConfiguration":
"{\"publicKey\": \"XXXXXXXXXXXXXXXXXXXX\", \"logsRootPath\": \"/kaa_log_uploads_
new\", \"rollingFileNamePatern\": \"logFile.%d{yyyy-MM-dd}.log\", \"rollingMaxHis
tory\": 30, \"triggerMaxFileSize\": \"1GB\", \"encoderPattern\": \"%-4relative
[%thread] %-5level %logger{35} - %msg%n\"}", "description": "New sample file
system log appender v2", "headerStructure": [ "KEYHASH", "TIMESTAMP" ], "name":
"New file system appender", "maxLogSchemaVersion": 2147483647,
"minLogSchemaVersion": 1, "tenantId": "70", "pluginTypeName": "File"}'
"http://localhost:8080/kaaAdmin/rest/api/logAppender" | python -mjson.tool
```

▼ Example result

```
{
  "applicationId": "150",
  "applicationToken": "49263753185447091438",
  "confirmDelivery": true,
  "createdTime": 1423499281217,
  "createdUsername": "devuser",
  "description": "New sample file system log appender v2",
  "headerStructure": [
    "KEYHASH",
    "TIMESTAMP"
  ],
  "id": "256",
  "jsonConfiguration":
  "{\"publicKey\": \"XXXXXXXXXXXXXXXXXXXX\", \"logsRootPath\": \"/kaa_log_uploa
ds_new\", \"rollingFileNamePatern\": \"logFile.%d{yyyy-MM-dd}.log\", \"rolling
MaxHistory\": 30, \"triggerMaxFileSize\": \"1GB\", \"encoderPattern\": \"%-4rela
tive [%thread] %-5level %logger{35} - %msg%n\"}",
    "maxLogSchemaVersion": 2147483647,
    "minLogSchemaVersion": 1,
    "name": "New file system appender",
    "pluginClassName":
    "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
    "pluginTypeName": "File",
    "tenantId": "70"
  }
}
```

## Delete log appender

Deletes a log appender by log appender ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/delLogAppender?logAppenderId
- **Method:**  
POST
- **URL params**

Parameter	Value	Description
-----------	-------	-------------

logAppenderId	string	the ID of the log appender to be deleted
---------------	--------	--

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
400 Bad Request	The logAppenderId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log appender does not match the Tenant ID of the authenticated user
404 Not Found	A log appender with the specified logAppenderId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

**Sample call:**

```
curl -v -S -u devuser:devuser123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/delLogAppender?logAppenderId=161" | python
-mjson.tool
```

## Verifiers

### Get verifiers

Returns all verifiers for the specified application. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

As of release 0.9.0 this method is deprecated, replaced by [Get verifiers by application token](#).

- **URL**  
/kaaAdmin/rest/api/userVerifiers/{applicationId}

- **Method**

GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application.

- **Data params**

None

- **Success response**

- **Code:** 200

↳ [Response body](#)

**Example:**

```
[
  {
    "applicationId": "7",
    "createdTime": 1461254333178,
    "createdUsername": "devuser",
    "description": null,
    "id": "3",
    "jsonConfiguration":
    "{\"consumer_key\": \"01Y9gbsMeGPetyelw9kkNvNMi\", \"consumer_secret\": \"g4Pwh51o7SQLhd3RL6inNF3VxixBURAJDZc494uSISF7yOyJjc\", \"max_parallel_connections\": 5, \"twitter_verify_url\": \"https://api.twitter.com/1.1/account/verify_credentials.json\"}",
    "name": "Twitter verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.twitter.verifier.TwitterUserVerifier",
    "pluginTypeName": "Twitter verifier",
    "verifierToken": "73437640177243192780"
  },
  {
    "applicationId": "7",
    "createdTime": 1461254333260,
    "createdUsername": "devuser",
    "description": null,
    "id": "4",
    "jsonConfiguration":
    "{\"app_id\": \"1557997434440423\", \"app_secret\": \"8ff17981ea0cdad3fe387a55c91aa71b\", \"max_parallel_connections\": 5}",
    "name": "Facebook verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
    "pluginTypeName": "Facebook verifier",
    "verifierToken": "46094367148727262494"
  },
  {
    "applicationId": "7",
    "createdTime": 1461254333388,
    "createdUsername": "devuser",
    "description": null,
    "id": "5",
    "jsonConfiguration":
    "{\"max_parallel_connections\": 5, \"min_parallel_connections\": 2, \"keep_alive_time_milliseconds\": 60000}",
    "name": "Google+ verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.gplus.verifier.GplusUserVerifier",
    "pluginTypeName": "Google+ verifier",
    "verifierToken": "10253902813424977088"
  }
]
```

- Error response



Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call**

```
curl -v -S -u devuser:devuser123 -X GET  
"http://localhost:8080/kaaAdmin/rest/api/userVerifiers/7" | python -mjson.tool
```

▼ [Example result](#)

```
[
  {
    "applicationId": "7",
    "createdTime": 1461254333178,
    "createdUsername": "devuser",
    "description": null,
    "id": "3",
    "jsonConfiguration":
    "{\"consumer_key\":\"01Y9gbsMeGPetyelw9kkNvNmi\", \"consumer_secret\":\"g4Pw
h51o7SQLhd3RL6inNF3VxixBURAJDZc494uSISF7yOyJjc\", \"max_parallel_connections
\":5, \"twitter_verify_url\":\"https://api.twitter.com/1.1/account/verify_cr
edentials.json\"}",
    "name": "Twitter verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.twitter.verifier.TwitterUserVerifier",
    "pluginTypeName": "Twitter verifier",
    "verifierToken": "73437640177243192780"
  },
  {
    "applicationId": "7",
    "createdTime": 1461254333260,
    "createdUsername": "devuser",
    "description": null,
    "id": "4",
    "jsonConfiguration":
    "{\"app_id\":\"1557997434440423\", \"app_secret\":\"8ff17981ea0cdad3fe387a55
c91aa71b\", \"max_parallel_connections\":5}",
    "name": "Facebook verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
    "pluginTypeName": "Facebook verifier",
    "verifierToken": "46094367148727262494"
  },
  {
    "applicationId": "7",
    "createdTime": 1461254333388,
    "createdUsername": "devuser",
    "description": null,
    "id": "5",
    "jsonConfiguration":
    "{\"max_parallel_connections\":5, \"min_parallel_connections\":2, \"keep_aliv
e_time_milliseconds\":60000}",
    "name": "Google+ verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.gplus.verifier.GplusUserVerifier",
    "pluginTypeName": "Google+ verifier",
    "verifierToken": "10253902813424977088"
  }
]
```

## Get verifiers by application token

Returns all verifiers for the specified application based on application token. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/userVerifiersByAppToken/{applicationToken}

- **Method**

GET

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of the application.

- **Data params**

None

- **Success response**

- **Code:** 200

✓ [Response body](#)

**Example:**

```
[
  {
    "applicationId": "7",
    "createdTime": 1461254333178,
    "createdUsername": "devuser",
    "description": null,
    "id": "3",
    "jsonConfiguration":
    "{\"consumer_key\": \"01Y9gbsMeGPetyelw9kkNvNmi\", \"consumer_secret\": \"g4Pwh51o7SQLhd3RL6inNF3VxixBURAJDZc494uSISF7yOyJjc\", \"max_parallel_connections\": 5, \"twitter_verify_url\": \"https://api.twitter.com/1.1/account/verify_credentials.json\"}",
    "name": "Twitter verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.twitter.verifier.TwitterUserVerifier",
    "pluginTypeName": "Twitter verifier",
    "verifierToken": "73437640177243192780"
  },
  {
    "applicationId": "7",
    "createdTime": 1461254333260,
    "createdUsername": "devuser",
    "description": null,
    "id": "4",
    "jsonConfiguration":
    "{\"app_id\": \"1557997434440423\", \"app_secret\": \"8ff17981ea0cdad3fe387a55c91aa71b\", \"max_parallel_connections\": 5}",
    "name": "Facebook verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
    "pluginTypeName": "Facebook verifier",
    "verifierToken": "46094367148727262494"
  },
  {
    "applicationId": "7",
    "createdTime": 1461254333388,
    "createdUsername": "devuser",
    "description": null,
    "id": "5",
    "jsonConfiguration":
    "{\"max_parallel_connections\": 5, \"min_parallel_connections\": 2, \"keep_alive_time_milliseconds\": 60000}",
    "name": "Google+ verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.gplus.verifier.GplusUserVerifier",
    "pluginTypeName": "Google+ verifier",
    "verifierToken": "10253902813424977088"
  }
]
```

- Error response

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application does not match the Tenant ID of the authenticated user
404 Not Found	An application with the specified applicationId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call**

```
curl -v -S -u devuser:devuser123 -X GET  
"http://localhost:8080/kaaAdmin/rest/api/userVerifiersByAppToken/2610098185239  
4445021" | python -mjson.tool
```

▼ [Example result](#)

```
[
  {
    "applicationId": "7",
    "createdTime": 1461254333178,
    "createdUsername": "devuser",
    "description": null,
    "id": "3",
    "jsonConfiguration":
    "{\"consumer_key\": \"01Y9gbsMeGPetyelw9kkNvNmi\", \"consumer_secret\": \"g4Pw
h51o7SQtLhd3RL6inNF3VxixBURAJDZc494uSISF7yOyJjc\", \"max_parallel_connections
\":5, \"twitter_verify_url\": \"https://api.twitter.com/1.1/account/verify_cr
edentials.json\"}",
    "name": "Twitter verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.twitter.verifier.TwitterUserVerifier",
    "pluginTypeName": "Twitter verifier",
    "verifierToken": "73437640177243192780"
  },
  {
    "applicationId": "7",
    "createdTime": 1461254333260,
    "createdUsername": "devuser",
    "description": null,
    "id": "4",
    "jsonConfiguration":
    "{\"app_id\": \"1557997434440423\", \"app_secret\": \"8ff17981ea0cdad3fe387a55
c91aa71b\", \"max_parallel_connections\":5}",
    "name": "Facebook verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
    "pluginTypeName": "Facebook verifier",
    "verifierToken": "46094367148727262494"
  },
  {
    "applicationId": "7",
    "createdTime": 1461254333388,
    "createdUsername": "devuser",
    "description": null,
    "id": "5",
    "jsonConfiguration":
    "{\"max_parallel_connections\":5, \"min_parallel_connections\":2, \"keep_aliv
e_time_milliseconds\":60000}",
    "name": "Google+ verifier",
    "pluginClassName":
    "org.kaaproject.kaa.server.verifiers.gplus.verifier.GplusUserVerifier",
    "pluginTypeName": "Google+ verifier",
    "verifierToken": "10253902813424977088"
  }
]
```

## Get verifier

Returns a verifier by its ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/userVerifier/{userVerifierId}

- **Method**  
GET

- **URL params**

Parameter	Value	Description
applicationId	string	The ID of the application.

- **Data params**

None

- **Success response**

- **Code:** 200
- **Response body**

**Example:**

```
{
  "applicationId": "150",
  "createdTime": 1423502227771,
  "createdUsername": "devuser",
  "description": "Sample description",
  "id": "266",
  "jsonConfiguration":
  "{ \"app_id\": \"XXXXXXXXXXXX\", \"app_secret\": \"XXXXXXXXXXXXXXXXXXXXXXXXXX\", \"max_parallel_connections\": 100 }",
  "name": "MyFacebookVerifier",
  "pluginClassName":
  "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
  "pluginTypeName": "Facebook",
  "verifierToken": "42239328931924105569"
}
```

- **Error response**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log appender does not match the Tenant ID of the authenticated user
404 Not Found	A user verifier with the specified userVerifierId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call**

```
curl -v -S -u devuser:devuser123 -X GET
"http://localhost:8080/kaaAdmin/rest/api/userVerifier/266" | python
-mjson.tool
```

▼ Example result

```
{
  "applicationId": "150",
  "createdTime": 1423502227771,
  "createdUsername": "devuser",
  "description": "Sample description",
  "id": "266",
  "jsonConfiguration":
  "{ \"app_id\": \"XXXXXXXXXX\", \"app_secret\": \"XXXXXXXXXXXXXXXXXXXXXXXXXXXX\",
  \"max_parallel_connections\": 100 }",
  "name": "MyFacebookVerifier",
  "pluginClassName":
  "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
  "pluginTypeName": "Facebook",
  "verifierToken": "42239328931924105569"
}
```

## Create/edit user verifier

Creates or edits a user verifier. If the user verifier with the specified ID does not exist, it will be created. If the user verifier with the specified ID exists, it will be updated. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/userVerifier
- **Method**  
POST
- **URL params**  
None
- **Data params**
  - ▼ Request body

Example:

```
{ "pluginClassName":
  "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
  "pluginTypeName": "Facebook", "applicationId": "150",
  "name": "MyFacebookVerifier", "description": "Sample description",
  "jsonConfiguration":
  "{ \"app_id\": \"XXXXXXXX\", \"app_secret\": \"XXXXXXXXXXXXXXXXXXXXXXXXXXXX\",
  \"max_parallel_connections\": 100 }" }
```

- **Success response**
  - **Code:** 200
    - ▼ Response body

Example:



```
{
  "applicationId": "150",
  "createdTime": 1423500291744,
  "createdUsername": "devuser",
  "description": "Sample description",
  "id": "264",
  "jsonConfiguration":
  "{\"app_id\": \"XXXXXXXXXXXX\", \"app_secret\": \"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX\", \"max_parallel_connections\": 100}\",
  "name": "MyFacebookVerifier",
  "pluginClassName":
  "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVer
ifier",
  "pluginTypeName": "Facebook",
  "verifierToken": "47494470873475333510"
}
```

- **Error response**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log appender does not match the Tenant ID of the authenticated user
404 Not Found	A user verifier to be edited with the specified id does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call to create user verifier**

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{"pluginClassName":
"org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
"pluginTypeName": "Facebook", "applicationId": "150",
"name": "MyFacebookVerifier", "description": "Sample description",
"jsonConfiguration": "{\"app_id\": \"5215235\", \"app_secret\": \"123424\",
\"max_parallel_connections\": 10}"}'
"http://localhost:8080/kaaAdmin/rest/api/userVerifier" | python -mjson.tool
```

- ✓ [Example result](#)

```

{
  "applicationId": "150",
  "createdTime": 1423500291744,
  "createdUsername": "devuser",
  "description": "Sample description",
  "id": "264",
  "jsonConfiguration":
  "{ \"app_id\": \"XXXXXXXXXXXX\", \"app_secret\": \"XXXXXXXXXXXXXXXXXXXXXXXXXXXX\",
  \"max_parallel_connections\": 100 }",
  "name": "MyFacebookVerifier",
  "pluginClassName":
  "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
  "pluginTypeName": "Facebook",
  "verifierToken": "47494470873475333510"
}

```

- **Sample call to edit user verifier**

```

curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'
-d '{ "id": "264", "pluginClassName":
"org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
"pluginTypeName": "Facebook", "applicationId": "150",
"name": "MyFacebookVerifier v2", "description": "Sample description",
"jsonConfiguration": "{ \"app_id\": \"5215235\", \"app_secret\": \"123424\",
\"max_parallel_connections\": 10 } }'
"http://localhost:8080/kaaAdmin/rest/api/userVerifier" | python -mjson.tool

```

- ▼ **Example result**

```

{
  "applicationId": "150",
  "createdTime": 1423500301423,
  "createdUsername": "devuser",
  "description": "Sample description",
  "id": "264",
  "jsonConfiguration":
  "{ \"app_id\": \"XXXXXXXXXXXX\", \"app_secret\": \"XXXXXXXXXXXXXXXXXXXXXXXXXXXX\",
  \"max_parallel_connections\": 100 }",
  "name": "MyFacebookVerifier v2",
  "pluginClassName":
  "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
  "pluginTypeName": "Facebook",
  "verifierToken": "47494470873475333510"
}

```

## Delete user verifier

Deletes a user verifier by the user verifier ID. Only users with the TENANT\_DEVELOPER or TENANT\_USER role are allowed to perform this operation.

- **URL**  
/kaaAdmin/rest/api/delUsererVerifier?userVerifierId

- **Method:**

POST

- **URL params**

Parameter	Value	Description
userVerifierId	string	The ID of the user verifier to be deleted

- **Data params**

None

- **Success response**

- **Code:** 200

- **Error response**

Status codes	Description
400 Bad Request	The userVerifierId parameter is empty
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of the application associated with the log appender does not match the Tenant ID of the authenticated user
404 Not Found	A user verifier with the specified userVerifierId does not exist
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call**

```
curl -v -S -u devuser:devuser123 -X POST  
"http://localhost:8080/kaaAdmin/rest/api/delUserVerifier?userVerifierId=265" |  
python -mjson.tool
```

▼ **Example result**

```
{  
  "applicationToken": "094302219096310",  
  "id": "220",  
  "logAppendersNames": "mongoDBLogAppender,fileSystemLogAppender",  
  "name": "Application 1",  
  "publicKey": null,  
  "sequenceNumber": 0,  
  "tenantId": "10",  
  "userVerifierName": "dummyEndpointUserVerifier"  
}
```

- **Sample call:**

```
curl -v -S -u devuser:devuser123
-F'notificationSchema={"applicationId":"71","name":"Test notification
schema","description":"Notification Schema
Description"};type=application/json' -F file=@notification_schema.json
"http://localhost:8080/kaaAdmin/rest/api/notificationSchema" | python
-mjson.tool
```

▼ Example result

```
{
  "applicationId": "71",
  "createdTime": 1408706536184,
  "createdUsername": "devuser",
  "description": "Notification Schema Description",
  "endpointCount": 0,
  "id": "2131",
  "majorVersion": 2,
  "minorVersion": 0,
  "name": "Test notification schema",
  "schema": "{\n  \"type\": \"record\",\n  \"name\":\n  \"TestNotification\",\n  \"namespace\": \"org.kaa.config.test\",\n  \"fields\": [\n    {\n      \"name\": \"message\",\n      \"type\": \"string\"\n    }\n  ]\n}",
  "type": "USER"
}
```

**Sample call:**

```
curl -v -S -u admin:admin123 -X POST -H 'Content-Type: application/json'
-d'{"name":"Test Event Class
Family","className":"TestClassFamily","description":"Test Class Family
Description","namespace":"org.kaaproject.kaa.test.family"}'
"http://localhost:8080/kaaAdmin/rest/api/eventClassFamily" | python -mjson.tool
```

▼ Example result

```
{
  "className": "TestClassFamily",
  "createdTime": 1409142604502,
  "createdUsername": "admin",
  "description": "Test Class Family Description",
  "id": "34",
  "name": "Test Event Class Family",
  "namespace": "org.kaaproject.kaa.test.family",
  "schemas": null,
  "tenantId": "10"
}
```

# Device management

## Provision security credentials

Using this credentials endpoint can interact with specified application. Only users with the TENANT\_ADMIN role are allowed to submit this request.

- **URL**  
/kaaAdmin/rest/api/provisionCredentials?applicationToken={applicationToken}&credentialsBody={credentialsBody}

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of application
credentialsBody	string	The public key hash of the endpoint in Base64 URL safe format

- **Data params**

None

- **Success response:**

- **Code:** 200
- **Response body**

Example:

```
{
  "applicationToken": "404",
  "credentialsBody": "encoding string of public key",
  "status": "AVAILABLE"
}
```

- **Error response:**

Status codes	Description
400 Bad Request	Parameter conditions "applicationToken, credentialsBody" not met for actual request parameters
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN)
404 Not Found	The requested item was not found
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u admin:admin123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/provisionCredentials?applicationToken
=1&credentialsBody=credentials" | python -mjson.tool
```

- **Example result**

```
{
  "applicationToken": "404",
  "credentialsBody": "encoding string of public key",
  "status": "AVAILABLE"
}
```

## Bind specified endpoint profile to the credentials

Only users with the TENANT\_ADMIN role are allowed to submit this request.

- **URL**

/kaaAdmin/rest/api/provisionRegistration?applicationToken={applicationToken}&credentialsId={credentialsId}&serverProfileVersion={serverProfileVersion}&serverProfileBody={serverProfileBody}

- **Method:**

POST

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of application
credentialsId	string	The ID of the credentials
serverProfileVersion	integer	The version number of server profile
serverProfileBody	string	The body of server profile

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN)
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u admin:admin123 -X POST
"http://localhost:8080/kaaAdmin/rest/api/provisionRegistration?applicationToken=1&credentialsId=1&serverProfileVersion=1&serverProfileBody=profile" | python -mjson.tool
```

## Revoke security credentials from the corresponding credentials storage

Launches an asynchronous process to terminate all active sessions of the endpoint that uses these credentials. Only users with the TENANT\_ADMIN role are allowed to submit this request.

- **URL**  
/kaaAdmin/rest/api/revokeCredentials?applicationToken={applicationToken}&credentialsId={credentialsId}

- **Method:**

POST

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of application
credentialsId	string	The ID of the credentials

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN)
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u admin:admin123 -X POST  
"http://localhost:8080/kaaAdmin/rest/api/revokeCredentials?applicationToken=1&  
credentialsId=1" | python -mjson.tool
```

## Notify the Kaa cluster about security credentials revocation

If an endpoint is already registered with the specified credentials, this API all launches an asynchronous process to terminate all active sessions of the corresponding endpoint. Only users with the TENANT\_ADMIN role are allowed to submit this request.

- **URL**  
/kaaAdmin/rest/api/notifyRevoked?applicationToken={applicationToken}&credentialsId={credentialsId}

- **Method:**

POST

- **URL params**

Parameter	Value	Description
applicationToken	string	The token of application
credentialsId	string	The ID of the credentials

- **Data params**

None

- **Success response:**

- **Code:** 200

- **Error response:**

Status codes	Description
401 Unauthorized	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the required role (TENANT_ADMIN)
500 Internal Server Error	An unexpected error occurred on the server side

- **Sample call:**

```
curl -v -S -u admin:admin123 -X POST  
"http://localhost:8080/kaaAdmin/rest/api/notifyRevoked?applicationToken=1&credentialsId=1" | python -mjson.tool
```

```
curl -v -S -u devuser:devuser123 -X POST -H 'Content-Type: application/json'  
-d '{"userId": "externalUserId", "appToken": "43390267759495641709", "schemaVersion": "2", "body": {"AddressList": {"array": [{"label": {"string": "Kaa website"}}, {"url": {"string": "http://www.kaaproject.org"}}, {"__uuid": null}}, {"__uuid": null}}'  
"http://10.2.1.110:8080/kaaAdmin/rest/api/userConfiguration" | python -mjson.tool
```

**userExternalId**