

# 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**

- **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 -m json.tool
```

```
{
  "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

- **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
```

```
"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**
  - **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
```

```
{
  "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**

- **Example:**

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

- **Success response:**

- **Code: 200**

- **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
```

```
{  
  "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**

- **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
```

```
[
  {
    "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**
  - **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 -m json.tool
```

```
{
  "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**

**Example:**

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

- **Success response:**

- **Code:** 200
  - **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": "norris@demoproject.org", "authority": "TENANT_USER"}' "http://localhost:8080/kaaAdmin/rest/api/user" | python -mjson.tool
```

```
{  "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", "mail": "chacknorris@demoproject.org", "authority": "TENANT_USER"}' "http://localhost:8080/kaaAdmin/rest/api/user" | python -mjson.tool
```

```
{
  "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**
  - **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:kaal23 -X GET "http://localhost:8080/kaaAdmin/rest/api/tenants" | python -mjson.tool
```

```
[
  {
    "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**
  - **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:kaal23 -X GET "http://localhost:8080/kaaAdmin/rest/api/tenant/20" | python -mjson.tool
```

```
{
  "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**

**Example:**

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

- **Success response:**

- **Code:** 200

- **Example:**

```
{
  "authority": "TENANT_ADMIN",
  "externalUid": "4",
  "firstName": null,
  "id": "210",
  "lastName": null,
  "mail": "admin2@demoproject.org",
  "tempPassword": "at281c23Nhxm",
  "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:kaal23 -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
```

```
{
  "authority": "TENANT_ADMIN",
  "externalUid": "4",
  "firstName": null,
  "id": "210",
  "lastName": null,
  "mail": "admin2@demoproject.org",
  "tempPassword": "at281c23Nhxm",
  "tenantId": "200",
  "tenantName": "Demo Tenant 2",
  "username": "admin2"
}
```

- **Sample call to edit tenant:**

```
curl -v -S -u kaa:kaal23 -X POST -H 'Content-Type: application/json' -d '{"id": "210", "tenantId": "200", "tenantName": "Demo Tenant 2", "username": "admin3", "authority": "TENANT_ADMIN", "mail": "admin2@demoproject.org"}' "http://localhost:8080/kaaAdmin/rest/api/tenant" | python -mjson.tool
```

```
{
  "authority": "TENANT_ADMIN",
  "externalUid": "4",
  "firstName": null,
  "id": "210",
  "lastName": null,
  "mail": "admin2@demoproject.org",
  "tempPassword": "at281c23Nhxm",
  "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
  - **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"
  }
]

```

- **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)
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/applications" |
python -mjson.tool

```

```

[
  {
    "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 its 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
  - **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
```

```
{
  "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**

- **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
```

```
{
  "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**

- Example:**

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

- **Success response:**

- **Code:** 200
  - **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
```

```
{  
  "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
```

```
{  
  "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
- **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}",
  "createTime": 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
```

```
{
  "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}"
}
```

```

name\ : \"exampleField\" ]\n } ]\n }\",
  \"createdTime\": 1456133956680,
  \"createdUsername\": null,
  \"defaultRecord\": \"{\\\"exampleField\\\":0}\",
  \"dependencySet\": [],
  \"id\": \"530\",
  \"metaInfo\": {
    \"applicationId\": null,
    \"fqcn\": \"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
- **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\",
    \"fqcn\": \"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
```

```
{
  "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",
    "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?fq=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?fq={fq}&version={version}&tenantId={tenantId}&applicationToken={applicationToken}

- **Method:**

POST

- **URL params**

Parameter	Value	Description
fq	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?fq=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
  - **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}",
  "createTime": 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
```

```
{
  "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": 1456135829812,
    "createdUsername": null,
    "defaultRecord": "{ \"exampleField\":0 }",
    "dependencySet": [],
    "id": "531",
    "metaInfo": {
      "applicationId": null,
      "fqm": "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?fqm={fqm}&version={version}&tenantId={tenantId}&applicationToken={applicationToken}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
fqm	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**
- **Example:**

```

{
  "body": "{ \"type\" : \"record\", \"name\" : \"ExampleSchema\", \"namespace\" : \"org.kaaproject.kaa.examples\", \"version\" : 1, \"fields\" : [ { \"type\" : \"int\", \"name\" : \"exampleField\" } ] }",
  "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?fqn=org.kaaproject.kaa.examples.ExampleSchema&version=1&tenantId=1&applicationToken=93185465951671258176" | python -mjson.tool
```

```
{
  "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",
    "fqn": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "32772",
    "tenantId": "1",
    "versions": null
  },
  "version": 1
}
```

## Check CTL schema FQN

Checks if CTL schema with same fqn 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?fqn={fqn}&tenantId={tenantId}&applicationId={applicationId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
fqn	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
  - **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.examples.ExampleSchema&tenantId=1&applicationId=5" | python -mjson.tool
```

```
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

- **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.kaaproject.kaa.examples.
ExampleSchema&tenantId=1&applicationToken=93185465951671258176" | python -mjson.tool
```

```
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**
  - **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
```

```
{
  "applicationId": null,
```

```
"fqcn": "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
  - **Example:**

```
[
  {
    "applicationId": null,
    "fqcn": "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
```

```
[
  {
    "applicationId": null,
    "fqcn": "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**
  - **Example:**

```
[
  {
    "applicationId": null,
    "fqcn": "org.kaaproject.kaa.examples.ExampleSchema",
    "id": "522",
    "tenantId": "70",
    "versions": [
      1
    ]
  },
  {
    "applicationId": null,
    "fqcn": "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/getTenantSchemas" | python -mjson.tool
```

```
[
  {
    "applicationId": null,
    "fqcn": "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**
  - **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
```

```
[
  {
    "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
    ]
  }
]
```

## 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
  - **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
      ]
    }
  ]
}
]

```

- **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/appToken/getApplicationSchemas/93185465951671258176" | python -mjson.tool

```

```

[
  {
    "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
fqn	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 fqn, 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?fqn=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?fqn={fqn}&version={version}&method={method}&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
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.kaaproject.kaa.examples.ExampleSchema&version=1&method=SHALLOW&applicationToken=93185465951671258176"
```

## 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**

**Example:**

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

- **Success response:**

- **Code: 200**

- **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
```

```
{
  "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
  - **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
```

```
[
  {
    "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
  - **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"
  }
]
```

```
[
  {
    "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/93185465951671258176" | python -mjson.tool
```

```
[
  {
    "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**
  - **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
```

```
{
  "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**
  - **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
```

```
[
  {
    "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**
  - **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/93185465951671258176" | python -mjson.tool
```

```
[
  {
    "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
  - **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	The authenticated user does not have the required role (TENANT_DEVELOPER or TENANT_USER) or the Tenant ID of

Forbidden	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
```

```
{
  "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**

**Example:**

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

- **Success response:**

- **Code:** 200
  - **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
```

```
{
  "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**
  - **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

```

```

[
  {
    "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**
  - **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/93185465951671258176" | python -mjson.tool
```

```
[
  {
    "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**
  - **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
```

```
{
  "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**

**Example:**

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

- **Success response:**

- **Code:** 200
- **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
```

```
{
  "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**

**Example:**

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

- **Success response:**

- **Code:** 200

- **Example:**

```
{
  "accessToken": "f816c31a-c533-49d8-83db-85fc7a2a4b93",
  "applicationId": "114",
  "clientProfileBody": "{\"id\":{\"string\":\"id\"}}",
  "clientProfileVersion": 3,
  "configurationHash": "qEYpdSOEPuS47sCjzWveaq/eILY=",
  "configurationVersion": 1,
  "ecfVersionStates": [],
  "endpointKey": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmjhTOSrQVQJjFt+662032imr
/H3D9M2lMjs34gSnckyC9hckWRzRrCQQYgSXLuE3ct0iW06D7whlFMFTHa+85Ce+08j7ybQrGrg7ht6j4
/Hj3u5BCMjytctway5vwiqkTm8bOfzml8m9AY6LaggFTwq1aUST29v8fNjKe/3lXwMn00mCM5hJ
//z9TSEWEqfPPfX6wHCqLY3rH+cCLhZWi8jUNtpGEEZce8f1t/sIOL1hdGpwMgUytL74tnYOZfc6zTQQk1LCGDTUPyN
/1kBZxqu8zKXicDp7PqDjOM4Hc+9l52I1bApMbXUB8vBYM+0cadhdjsuDIbtIFAy6v1zK4QIDAQAB",
  "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": "2jnj7l5rSw0yVb/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
```

```
{
  "accessToken": "f816c31a-c533-49d8-83db-85fc7a2a4b93",
  "applicationId": "114",
  "clientProfileBody": "{\"id\":{\"string\":\"id\"}}",
  "clientProfileVersion": 3,
  "configurationHash": "qEYpdSOEPuS47sCjzWveaq/eILY=",
```

```

    "configurationVersion": 1,
    "ecfVersionStates": [],
    "endpointKey": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmjhtOSrQVQJjFt+662032imr
/H3D9M2lMjS34gSnckyC9hckWRzRrCQQYgSXLuE3ct0iW06D7wh1FMFTHa+85Ce+08j7ybQrGrg7ht6j4
/Hj3u5BCMjytcway5vwiqkTm8bOfzml8m9AY6LaggFTwq1aUST29v8fnJKe/3lXwMn00mCM5hJ
//z9TSEWEqfPPfX6wHCqLY3rH+cCLhZWi8jUNtpGEEZce8f1t/sIOL1hDGpwMgUytL74tnYOZfc6zTQQkLLCGDTUPyN
/lkBZxqu8zKXIcDp7PqDJOM4Hc+9l52IIBApMbXUB8vBYM+0cadhdjsuDIbtIFay6v1zK4QIDAQAB",
    "endpointKeyHash": "L3QD/AVcphcYaAlIAwENqfpdOu0=",
    "endpointUserId": null,
    "groupState": [
      {
        "configurationId": "212",
        "endpointGroupId": "126",
        "profileFilterId": null
      }
    ],
    "id": "0x2f7403fc055ca61718680d4803010da9fa5d3aed",
    "logSchemaVersion": 2,
    "notificationVersion": 0,
    "profileHash": "Cm4NuHq02kDyLE2IhQ03Zf9ameo=",
    "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
  }
}

```

## 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**
  - **Example:**

```

{
  "accessToken": "65084702-d3bd-4712-a065-57fdc0db8b4a",
  "applicationId": "114",
  "clientProfileBody": "{\"id\": {\"string\": \"id\"}}",
  "clientProfileVersion": 3,
  "configurationHash": "qEYpdSOEPuS47sCjzWveaq/eILY=",
  "configurationVersion": 1,
  "ecfVersionStates": [],
  "endpointKey": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmjhtOSrQVQJjFt+662032imr
/H3D9M2lMjS34gSnckyC9hckWRzRrCQQYgSXLuE3ct0iW06D7wh1FMFTHa+85Ce+08j7ybQrGrg7ht6j4
/Hj3u5BCMjytcway5vwiqkTm8bOfzml8m9AY6LaggFTwq1aUST29v8fnJKe/3lXwMn00mCM5hJ

```

```
//z9TSEWEqfPPfX6wHCqLY3rH+cCLhZwi8jUNtpGEEZce8f1t/sIOL1hdGpwMgUytL74tnYOZfc6zTQQk1LCGDTUPyN
/lkBZxqu8zKXIcDp7PqDjOM4Hc+9152IIBApMbXUB8vVBYM+0cadhdjsuDIbtIFAy6v1zK4QIDAQAB",
  "endpointKeyHash": "L3QD/AVcphcYaAlIAwENqfPdOu0=",
  "endpointUserId": null,
  "groupState": [
    {
      "configurationId": "212",
      "endpointGroupId": "126",
      "profileFilterId": null
    }
  ],
  "id": "0x2f7403fc055ca61718680d4803010da9fa5d3aed",
  "logSchemaVersion": 2,
  "notificationVersion": 0,
  "profileHash": "ciRmuB+nulmi+5VCf1JGogA0cmU=",
  "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_AVcphcYaAlIAwENqfPdOu0=" | python -mjson.tool
```

```
{
  "accessToken": "65084702-d3bd-4712-a065-57fdc0db8b4a",
  "applicationId": "114",
  "clientProfileBody": "{\"id\":{\"string\":\"id\"}}",
  "clientProfileVersion": 3,
  "configurationHash": "qEYpdSOEPuS47sCjzWveaq/eILY=",
  "configurationVersion": 1,
  "ecfVersionStates": [],
  "endpointKey": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmjhTOSrQVQJjFt+662032imr
/H3D9M2lMjS34gSnckyC9hckWRzRrCQQYgSXLuE3ct0iW06D7wh1FMFTHa+85Ce+08j7ybQrGrg7ht6j4
/Hj3u5BCMjytCway5vwiqkTm8bOfzml8m9AY6LaggFTwqlaUST29v8fnjKe/3lXwMn00mCM5hJ
//z9TSEWEqfPPfX6wHCqLY3rH+cCLhZwi8jUNtpGEEZce8f1t/sIOL1hdGpwMgUytL74tnYOZfc6zTQQk1LCGDTUPyN
/lkBZxqu8zKXIcDp7PqDjOM4Hc+9152IIBApMbXUB8vVBYM+0cadhdjsuDIbtIFAy6v1zK4QIDAQAB",
  "endpointKeyHash": "L3QD/AVcphcYaAlIAwENqfPdOu0=",
  "endpointUserId": null,
  "groupState": [
    {
      "configurationId": "212",
      "endpointGroupId": "126",

```

```

        "profileFilterId": null
    }
],
"id": "0x2f7403fc055ca61718680d4803010da9fa5d3aed",
"logSchemaVersion": 2,
"notificationVersion": 0,
"profileHash": "ciRmuB+nulmi+5VCf1JGogA0cmU=",
"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**
  - **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
```

```
{
  "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
  - **Example:**

```
[
  {
    "id": "56cc0ef7b6478f0776249b34",
    "applicationId": "114",
    "endpointKey": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmKLjCs/ct
/9repE34ctt5xbLMLA7jHgC5MJJ3g2xgUnjSkBHhHXunRB0n50IwSEZZ33f677Za9Tu2399hxNlSu1iL4S1lUO7PLJy
VRgby5x89s9i3wtE8iZiH0m8+rHPO9zd3U
/0fgJYdGRMPaWpW+dqaQFV7Hvt4Hm77AOwzOA5k8ybtg49nii+v0yMjwLjQIF4zuAe4XV58a+lkeAGKzaZnablpZyd0W
SDZPlzLIcEN9nbnEAzdf7UMeJE1faUqF9cKoDFKfWdmy+HQqvMJ2DuHuIksaOhDjLXcjbe/YhAFjoEbAjsO
/JQiZlpSwdMRrgcLj131JesLpbl+FHkwIDAQAB",
    "endpointKeyHash": "HB1hGPuZtsoPR+bakQiPZJg8zF0=",
    "endpointUserId": "56cc254eb6478f0776249b35",
    "accessToken": "cf17084f-e151-44de-b24f-ab2d5a47b858",
    "sequenceNumber": 1,
    "groupState": [
      {
        "endpointGroupId": "530",
        "profileFilterId": null,
        "configurationId": "560"
      }
    ],
    "subscriptions": null,
    "simpleTopicHash": 1,
    "topicHash": "2jmj7l5rSw0yVb/vlWAYkK/YBwk=",
    "clientProfileBody": {
      "number": 42
    },
    "serverProfileBody": "",
    "profileHash": "wsU9ZpSCFCWKJsqqcEXXrAwX+Oc="
  }
]
```

```

    "configurationHash": "GL00oZMlrGI0QeSYVcuuPHW4A=",
    "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=56cc254eb6478f0776249b35" | python -mjson.tool

```

```

[
  {
    "id": "56cc0ef7b6478f0776249b34",
    "applicationId": "114",
    "endpointKey": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAmKLjCs/ct
/9repE34ctt5xbLMLA7jHgC5MJJ3g2xgUnjSkBHzHXunRB0n50IwSEZZ33f677Za9Tu2399hxNlSuliL4S11UO7PLJyVRgby5x
89s9i3wtE8iZiH0m8+rHP09zd3U
/0fgJYdGRMPaWpW+dqaQFV7Hvt4Hm77AOwzOA5k8ybtg49nii+v0yMjwIjQIF4zuAe4XV58a+lkeAGKzaZnablpZyd0WSDZPlzL
IcEN9nbnEAzdf7UMeJE1faUqF9cKoDFKfWdmy+HQqvMJ2DuHuIkSaOhDJLXcjbE/YhAFjoEbAjsO
/JQiZlpSWdMRrgcLj131JesLpbl+FHkwIDAQAB",
    "endpointKeyHash": "HB1hGPuZtsoPR+bakQipZJg8zF0=",
    "endpointUserId": "56cc254eb6478f0776249b35",
    "accessToken": "cf17084f-e151-44de-b24f-ab2d5a47b858",
    "sequenceNumber": 1,
    "groupState": [
      {
        "endpointGroupId": "530",
        "profileFilterId": null,
        "configurationId": "560"
      }
    ],
    "subscriptions": null,
    "simpleTopicHash": 1,
    "topicHash": "2jmj7l5rSw0yVb/vlWAYkK/YBwk=",
    "clientProfileBody": {
      "number": 42
    },
    "serverProfileBody": ""
  }
]

```



```

    "profileHash": "wsU9ZpSCFCWKJsqcqEXXrAwX+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**
  - **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
```

```
[
  {
    "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
  - **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/93185465951671258176" | python -mjson.tool
```

```
[
  {
    "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**
  - **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
```

```
{
  "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**

**Example:**

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

- **Success response:**

- **Code:** 200

- **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
```

```
{  
  "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
```

```

{
  "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
endpointGroupIid	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**

- **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 endpointGroupIid 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 endpointGroupIid 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
```

```
[
  {
    "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?schemaId&endpointGroupId

- **Method:**

GET

- **URL params**

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

- **Data params**

None

- **Success response:**

- **Code:** 200

- **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

```

```

{
  "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**
  - **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
```

```
[
  {
```

```

    "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**

**Example:**

```

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

```

- **Success response:**

- **Code:** 200
- **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
```

```
{
  "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**

**Example:**

107

- **Success response:**

- **Code:** 200
  - **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

```

```

{
  "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**

**Example:**

```
107
```

- **Success response:**

- **Code:** 200
  - **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
```

```

{
  "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&endpointGroupId

- **Method:**  
POST

- **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

- **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 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&endpointGroupId=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
  - **Example:**

```
{
  "endpointProfiles": [
    {
      "accessToken": "66368128-ee00-46e2-9e53-c2c93a5d5262",
      "applicationId": "110",
      "cfGroupStates": [
        {
          "configurationId": "141",
          "endpointGroupId": "120",
          "profileFilterId": "142"
        }
      ],
      "cfSequenceNumber": 3,
      "changedFlag": false,
      "configurationHash": "A9fqz21JoQ35laFYCyXWpKJFRko=",
      "configurationVersion": 1,
      "ecfVersionStates": [],
      "endpointKey":
      "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAXiLE5sfsd+EqNHdVKYemc/EQ4VaY3Ra8VYT1t8fVZ4TFJi
      /T6tGmPAPg7nmz+YglU5rcnYblFT0l4lT4W3CDt0Del2avdz9h
      /YLPxkl0tn7aZrPhtPXE0PmTI0wxwFadmkgvroZruxs6/GedVgRsbN/Sn9kBs1OvCcG8
      /eFhbpQHNhKuCzUdPeLdKoOCpJGgG5HV1CP2n/gpF1IYdyultv
      /qhFufBP2VbI4hrj9eYvtoidj+pDU3x7TIUpX3HpxT1b2Q3o8ZMP18Hg6mFshvowi9x1U53
      /zuGsJX4vhC92KKB7gZ4B+3lXzttBLAZ3LfyQsf3fKlft/wL1xea6jXQIDAQAB",
      "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": "pvRRvLFNBX0eOIMB0GpSmSxKKS0=",
        "profileSchemaId": null,
        "profileVersion": 2,
        "serverHash": "L30FM6ZDpaAUKulpCLzJCpgXurQ=",
        "subscriptions": null,
        "systemNfVersion": 0,
        "userConfigurationHash": null,
        "userNfVersion": 1
    },
    {
        "accessToken": "bbea7b50-37aa-4956-9b33-91795717e9eb",
        "applicationId": "110",
        "cfGroupStates": [
            {
                "configurationId": "141",
                "endpointGroupId": "120",
                "profileFilterId": "142"
            }
        ],
        "cfSequenceNumber": 3,
        "changedFlag": false,
        "configurationHash": "A9fqz21JoQ35laFYCyXWpKJFRko=",
        "configurationVersion": 1,
        "ecfVersionStates": [],
        "endpointKey":
"MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAlkxm9j08L80gx3o5AFVTnixx4AxdU9WLTcQFDcpcbDKR9sj
UBhiiQxmDJKNMLZzeFdm57Dep7JuvclJVGsJ55USRCH5MFU
/BbKIYDfauXO8uBtxCU5EW9yJRMuAh61dboH280uKQxnSZHifT+dN3fLataMuICE3LME40o
/y5HWbXIIPwWgL0rjWgkTN45tRlf6sRBjQUUXmDye/m3XUOeaPh40MCPWid9+ay/rZ/kiSYctPncWAW
/JnfoXFK+RRr3Mm5N7DjZ0leUdTPZyDY09Ox9tgDhxn
/dLL4WXDJ0tVlGV0gUhtC5QRvrsrKX+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": "pvRRvLFNBX0eOIMB0GpSmSxKKS0=",
        "profileSchemaId": null,
        "profileVersion": 2,
        "serverHash": "L30FM6ZDpaAUKulpCLzJCpgXurQ=",
        "subscriptions": null,
        "systemNfVersion": 0,
        "userConfigurationHash": null,
        "userNfVersion": 1
    }
],
    "next": "http://localhost:8080/kaaAdmin/rest/api/endpointProfileByGroupId?
endpointGroupId=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?endpointGroupId=120&limit=2&offset=0" | python -mjson.tool
```

```
{
  "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/EQ4VaY3Ra8VYTlt8fVZ4TFJi
      /T6tGmPAPg7nmz+YglU5rcnYblFT0141T4W3CDt0Del2avdz9h
      /YLPxkl0tn7aZrPhtPXE0PmTI0wxwFadmkgvoroZruxs6/GedVgRsbn/Sn9kBs1OvCcG8
      /eFhbpQHNhKuCzUdPeLdKoOcpJGgG5HV1CP2n/gpF1IYdyultv
      /qhFufBP2VbI4hrj9eYvtoidj+pDU3x7TIUpX3HpxT1b2Q3o8ZMP18Hg6mFspHvoWi9x1U53
      /zuGsJX4vhC92KKB7gZ4B+3lXzttBLAZ3LfyQsf3fKlft/wLlxea6jXQIDAQAB",
      "endpointKeyHash": "aMEEDLIrrI42yppI8q6JLq69Dhc=",
      "endpointUserId": null,
      "id": "5640a6dlb2f5605ac7696d2e",
      "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": "L30FM6ZDpaAUKulpCLzJCpgXurQ=",
      "subscriptions": null,
      "systemNFVersion": 0,
      "userConfigurationHash": null,
      "userNfVersion": 1
    },
    {
      "accessToken": "bbee7b50-37aa-4956-9b33-91795717e9eb",
      "applicationId": "110",
      "cfGroupStates": [
```

```

        {
            "configurationId": "141",
            "endpointGroupId": "120",
            "profileFilterId": "142"
        }
    ],
    "cfSequenceNumber": 3,
    "changedFlag": false,
    "configurationHash": "A9fqz21JoQ351aFYCyXWpKJFRko=",
    "configurationVersion": 1,
    "ecfVersionStates": [],
    "endpointKey":
"MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAlkxm9jO8L80gx3o5AFVTnixx4AxdU9WltCQFDcpcbDKR9sj
UBhiiQxmDJKNMLZzeFdm57Dep7JuvcJVGsJ55USRCH5MfU
/BbKIYDfauXO8uBtxCU5EW9yJRMuAh61dBoH280uKQxnSZHifT+dN3fLAtaMuICE3LME40o
/y5HWbXIIPWwgL0rjWgkTN45tRlf6sRBjqUUXmDye/m3XUOeaPh40MCPWId9+ay/rZ/kiSYctPnCWAw
/JnfoXFK+RRr3Mm5N7DjZ0leUdTPZyDY090x9tgDhxn
/dLL4WXDJ0tV1GV0gUhtC5QRvrsrKX+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?
endpointGroupId=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**

- **Example:**

```
{
  "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?
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?endpointGroupId=126&limit=2&offset=0" | python -mjson.tool
```

```
{
  "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?
endpointGroupId=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**
  - **Example:**

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

```
[
  {
    "applicationId": "5",
    "baseSchema": "{\n  \"type\": \"record\",\n  \"name\": \"Configuration\",\n  \"namespace\": \"org.kaaproject.kaa.schema.base\",\n  \"fields\": [\n    {\n      \"name\": \"__uuid\",\n      \"type\": {\n        \"type\": \"fixed\",\n        \"name\": \"uuidT\",\n        \"namespace\": \"org.kaaproject.configuration\",\n        \"size\": 16,\n        \"null\": \"\",\n        \"displayName\": \"Record Id\",\n        \"fieldAccess\": \"read_only\"\n      }\n    }\n  ]\n  \"createdTime\": 1461254329249,\n  \"createdUsername\": \"admin\",\n  \"description\": null,\n  \"endpointCount\": 0,\n  \"id\": \"17\",\n  \"name\": \"Generated\",\n  \"overrideSchema\": \"{\n  \"type\": \"record\",\n  \"name\": \"Configuration\",\n  \"namespace\": \"org.kaaproject.kaa.schema.base\",\n  \"fields\": [\n    {\n      \"name\": \"__uuid\",\n      \"type\": {\n        \"type\": \"fixed\",\n        \"name\": \"uuidT\",\n        \"namespace\": \"org.kaaproject.configuration\",\n        \"size\": 16,\n        \"null\": \"\",\n        \"displayName\": \"Record Id\",\n        \"fieldAccess\": \"read_only\"\n      }\n    }\n  ]\n  \"protocolSchema\": \"{\n  \"type\": \"array\",\n  \"items\": {\n    \"type\": \"record\",\n    \"name\": \"deltaT\",\n    \"namespace\": \"org.kaaproject.configuration\",\n    \"fields\": [\n      {\n        \"name\": \"delta\",\n        \"type\": {\n          \"type\": \"record\",\n          \"name\": \"Configuration\",\n          \"namespace\": \"org.kaaproject.kaa.schema.base\",\n          \"fields\": [\n            {\n              \"name\": \"__uuid\",\n              \"type\": {\n                \"type\": \"fixed\",\n                \"name\": \"uuidT\",\n                \"namespace\": \"org.kaaproject.configuration\",\n                \"size\": 16,\n                \"displayName\": \"Record Id\",\n                \"fieldAccess\": \"read_only\"\n              }\n            }\n          ]\n        }\n      }\n    ]\n  }\",\n  \"schema\": \"{\n  \"type\": \"record\",\n  \"name\": \"Configuration\",\n  \"namespace\": \"org.kaaproject.kaa.schema.base\",\n  \"fields\": [\n  ]\n  \"status\": null,\n  \"version\": 1\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
  - **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 \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/93185465951671258176" | python -mjson.tool

```

```

{
  {
    "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**
  - **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\": 140863899001,
  \"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\": \"Properties\", \"type\": [ { \"type\": \"
array\", \"items\": [ { \"name\": \"ConfigurationProperty\", \"namespace\": \"config.system\", \"

```



```

type\":"record\", \"fields\":[{ \"name\":"name\", \"type\":[ \"string\", { \"symbols\":[ \"
unchanged\", \"name\":"__uuid\", \"type\":"enum\", \"namespace\":"org.kaaproject.
configuration\"}]}], { \"name\":"value\", \"type\":"string\", \"org.kaaproject.configuration.
unchangedT\"}], { \"name\":"__uuid\", \"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\"}],
  \"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    ] \\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
```

```

{
  \"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\": 140863899001,
  \"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\":"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\"},
  "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\":"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\":"
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:

### Example:

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

### File contents example:

```
{
  "type": "record",
  "name": "TestConfigurationSchema",
  "namespace": "org.kaa.config.test",
  "fields": [
    {
      "name": "Properties",
      "type": {
        "type": "array",

```



```

\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        }, \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

```

```

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

```

## 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
  - **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": "{\n\"items\":{\n\"name\":\n\"deltaT\", \"type\":\n\"record\", \"
fields\":[{\n\"name\":\n\"delta\", \"type\":[{\n\"type\":\n\"record\", \"name\":\n
ConfigurationSchema\", \"namespace\":\n\"org.kaa.config\", \"fields\":[{\n\"name\":\n\"Properties\",
\n\"type\":[{\n\"type\":\n\"array\", \"items\":[{\n\"name\":\n\"ConfigurationProperty\", \"namespace\":
\n\"config.system\", \"type\":\n\"record\", \"fields\":[{\n\"name\":\n\"name\", \"type\":[\"string\",
{\n\"symbols\":[\"unchanged\"], \"name\":\n\"unchangedT\", \"type\":\n\"enum\", \"namespace\":\n\"org.
kaaproject.configuration\"}]}], {\n\"name\":\n\"value\", \"type\":[\"string\", \"org.kaaproject.
configuration.unchangedT\"}]}], {\n\"name\":\n\"__uuid\", \"type\":{\n\"name\":\n\"uuidT\", \"type\":\n
fixed\", \"size\":16, \"namespace\":\n\"org.kaaproject.configuration\"}]}], \"org.kaaproject.
configuration.uuidT\"}]}], {\n\"symbols\":[\"reset\"], \"name\":\n\"resetT\", \"type\":\n\"enum\", \"
namespace\":\n\"org.kaaproject.configuration\", \"org.kaaproject.configuration.unchangedT\"}],
{\n\"name\":\n\"__uuid\", \"type\":\n\"org.kaaproject.configuration.uuidT\"}]}], \"config.system.
ConfigurationProperty\"}]}], \"namespace\":\n\"org.kaaproject.configuration\", \"type\":\n
array\"}]",
        "schemaId": "94",
        "sequenceNumber": 1,
        "status": "ACTIVE"
    },
    "inactiveConfiguration": null
},
{
    "activeConfiguration": {
        "activatedTime": 1408705295840,
        "activatedUsername": "devuser",
        "applicationId": "71",
        "body": "{\n\"Properties\":[], \"__uuid\":{\n\"org.kaaproject.configuration.uuidT\":
\n\\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": "{\n\"items\":{\n\"name\":\n\"deltaT\", \"type\":\n\"record\", \"
fields\":[{\n\"name\":\n\"delta\", \"type\":[{\n\"type\":\n\"record\", \"name\":\n
TestConfigurationSchema\", \"namespace\":\n\"org.kaa.config.test\", \"fields\":[{\n\"name\":\n
Properties\", \"type\":[{\n\"type\":\n\"array\", \"items\":[{\n\"name\":\n\"ConfigurationProperty\", \"
namespace\":\n\"config.system\", \"type\":\n\"record\", \"fields\":[{\n\"name\":\n\"name\", \"type\":
[\"string\", {\n\"symbols\":[\"unchanged\"], \"name\":\n\"unchangedT\", \"type\":\n\"enum\", \"
namespace\":\n\"org.kaaproject.configuration\"}]}], {\n\"name\":\n\"value\", \"type\":[\"string\", \"
org.kaaproject.configuration.unchangedT\"}]}], {\n\"name\":\n\"__uuid\", \"type\":{\n\"name\":\n
uuidT\", \"type\":\nfixed\", \"size\":16, \"namespace\":\n\"org.kaaproject.configuration\"}]}], \"
org.kaaproject.configuration.uuidT\"}]}], {\n\"symbols\":[\"reset\"], \"name\":\n\"resetT\", \"
type\":\n\"enum\", \"namespace\":\n\"org.kaaproject.configuration\", \"org.kaaproject.
configuration.unchangedT\"}]}], {\n\"name\":\n\"__uuid\", \"type\":\n\"org.kaaproject.configuration.
uuidT\"}]}], \"config.system.ConfigurationProperty\"}]}], \"namespace\":\n\"org.kaaproject.
configuration\", \"type\":\narray\"}",
        "schemaId": "96",
        "sequenceNumber": 1,
        "status": "ACTIVE"
    },
    "inactiveConfiguration": null
},
{
    "activeConfiguration": {
        "activatedTime": 1408705339202,
        "activatedUsername": "devuser",
        "applicationId": "71",
        "body": "{\n\"Properties\":[], \"__uuid\":{\n\"org.kaaproject.configuration.uuidT\":
\n+\\u0016r\u00b8\u00f7*nt\u0098+\\u001c'\n\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": "{\n\"items\":{\n\"name\":\n\"deltaT\", \n\"type\":\n\"record\", \n
fields\":[{\n\"name\":\n\"delta\", \n\"type\":[{\n\"type\":\n\"record\", \n\"name\":\n
TestConfigurationSchema\", \n\"namespace\":\n\"org.kaa.config.test\", \n\"fields\":[{\n\"name\":\n
Properties\", \n\"type\":[{\n\"type\":\n\"array\", \n\"items\":[{\n\"name\":\n\"ConfigurationProperty\", \n
namespace\":\n\"config.system\", \n\"type\":\n\"record\", \n\"fields\":[{\n\"name\":\n\"name\", \n\"type\":
[{\n\"string\", {\n\"symbols\":[{\n\"unchanged\"}], \n\"name\":\n\"unchangedT\", \n\"type\":\n\"enum\", \n
namespace\":\n\"org.kaaproject.configuration\"}], {\n\"name\":\n\"value\", \n\"type\":[{\n\"string\", \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.configuration.uuidT\"}], {\n\"symbols\":[{\n\"reset\"}], \n\"name\":\n\"resetT\", \n
type\":\n\"enum\", \n\"namespace\":\n\"org.kaaproject.configuration\"}, \n\"org.kaaproject.
configuration.unchangedT\"}], {\n\"name\":\n\"__uuid\", \n\"type\":\n\"org.kaaproject.configuration.
uuidT\"}]}, \n\"config.system.ConfigurationProperty\"}]}, \n\"namespace\":\n\"org.kaaproject.
configuration\"}, \n\"type\":\n\"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

```

```

[
  {
    "activeConfiguration": {
      "activatedTime": 1408705246553,
      "activatedUsername": "admin",
      "applicationId": "71",
      "body": "{\n\"Properties\":[], \n\"__uuid\":{\n\"org.kaaproject.configuration.uuidT\":\n
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": "{\n  \"items\":{\n    \"name\": \"deltaT\",\n    \"type\": \"record\",\n    \"fields\": [{\n      name\": \"delta\",\n      \"type\": [ {\n        \"type\": \"record\",\n        \"name\": \"ConfigurationSchema\",\n        \"namespace\": \"org.kaa.config\",\n        \"fields\": [ {\n          \"name\": \"Properties\",\n          \"type\": [ {\n            \"type\": \"array\",\n            \"items\": [ {\n              \"name\": \"ConfigurationProperty\",\n              \"namespace\": \"config.system\",\n              \"type\": \"record\",\n              \"fields\": [ {\n                \"name\": \"name\",\n                \"type\": [ \"string\", {\n                  \"symbols\": [ \"unchanged\" ],\n                  \"name\": \"unchangedT\",\n                  \"type\": \"enum\",\n                  \"namespace\": \"org.kaaproject.configuration\" } ] ],\n                \"name\": \"value\",\n                \"type\": [ \"string\", \"org.kaaproject.configuration.unchangedT\" ] ],\n                \"name\": \"__uuid\",\n                \"type\": { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\" } ] ],\n                \"org.kaaproject.configuration.uuidT\" } ],\n                \"symbols\": [ \"reset\" ],\n                \"name\": \"resetT\", \"type\": \"enum\",\n                \"namespace\": \"org.kaaproject.configuration.unchangedT\" } ] ],\n                \"config.system.ConfigurationProperty\" } ] ],\n                \"namespace\": \"org.kaaproject.configuration\", \"type\": \"array\" },\n                \"schemaId\": \"94\",\n                \"sequenceNumber\": 1,\n                \"status\": \"ACTIVE\"\n      },\n      \"inactiveConfiguration\": null\n    },\n    {\n      \"activeConfiguration\": {\n        \"activatedTime\": 1408705295840,\n        \"activatedUsername\": \"devuser\",\n        \"applicationId\": \"71\",\n        \"body\": \"{\n          \"Properties\": [],\n          \"__uuid\": \"org.kaaproject.configuration.uuidT\": \"\\rV\u00efRG\u009aC\u00fe\u00a9 5\u00d3S\u00d91A\" }\",\n          \"createdTime\": 1408705295819,\n          \"createdUsername\": \"devuser\",\n          \"deactivatedTime\": 0,\n          \"deactivatedUsername\": null,\n          \"description\": \"Generated\",\n          \"endpointCount\": 0,\n          \"endpointGroupId\": \"81\",\n          \"id\": \"104\",\n          \"lastModifyTime\": 1408705295824,\n          \"majorVersion\": 2,\n          \"minorVersion\": 0,\n          \"modifiedUsername\": null,\n          \"protocolSchema\": \"{\n            \"items\":{\n              \"name\": \"deltaT\",\n              \"type\": \"record\",\n              \"fields\": [{\n                name\": \"delta\",\n                \"type\": [ {\n                  \"type\": \"record\",\n                  \"name\": \"TestConfigurationSchema\",\n                  \"namespace\": \"org.kaa.config.test\",\n                  \"fields\": [ {\n                    \"name\": \"Properties\",\n                    \"type\": [ {\n                      \"type\": \"array\",\n                      \"items\": [ {\n                        \"name\": \"ConfigurationProperty\",\n                        \"namespace\": \"config.system\",\n                        \"type\": \"record\",\n                        \"fields\": [ {\n                          \"name\": \"name\",\n                          \"type\": [ \"string\", {\n                            \"symbols\": [ \"unchanged\" ],\n                            \"name\": \"unchangedT\",\n                            \"type\": \"enum\",\n                            \"namespace\": \"org.kaaproject.configuration\" } ] ],\n                          \"name\": \"value\",\n                          \"type\": [ \"string\", \"org.kaaproject.configuration.unchangedT\" ] ],\n                          \"name\": \"__uuid\",\n                          \"type\": { \"name\": \"uuidT\", \"type\": \"fixed\", \"size\": 16, \"namespace\": \"org.kaaproject.configuration\" } ] ],\n                          \"org.kaaproject.configuration.uuidT\" } ],\n                          \"symbols\": [ \"reset\" ],\n                          \"name\": \"resetT\", \"type\": \"enum\",\n                          \"namespace\": \"org.kaaproject.configuration.unchangedT\" } ] ],\n                          \"org.kaaproject.configuration.unchangedT\" } ] ],\n                          \"name\": \"__uuid\", \"type\": \"org.kaaproject.configuration.uuidT\" } ] ],\n                          \"config.system.ConfigurationProperty\" } ] ],\n                          \"namespace\": \"org.kaaproject.configuration\", \"type\": \"array\" },\n                          \"schemaId\": \"96\",\n                          \"sequenceNumber\": 1,\n                          \"status\": \"ACTIVE\"\n            },\n            \"inactiveConfiguration\": null\n          },\n          {\n            \"activeConfiguration\": {\n              \"activatedTime\": 1408705339202,\n              \"activatedUsername\": \"devuser\",\n              \"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\": \"deltaT\", \"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
}
]

```

## 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
  - **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\":
[ { \"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 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

```

```

{
  \"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\" } } ], \"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 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&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
  - **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\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\u0007F\u000b9\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&endpointGroupId=4" | python -mjson.tool

```

```

{
  "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\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\u0000QM\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_"
  }
}

```

## 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
  - **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?endpointGroupId=83" | python -mjson.tool

```

```

[
  {
    "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**

- **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
- **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\", \"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.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
```

```
{
  "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","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.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"
}
```

## 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**

**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
  - **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
```

```
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**

**Example:**

```
109
```

- **Success response:**

- **Code:** 200
  - **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\\\",\\\"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.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:**

Status 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

```

```

{
  \"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\", \"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.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"
}

```

## 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**

**Example:**

```
109
```

- **Success response:**

- **Code:** 200
  - **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\", \"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.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"
}

```

```

by_default\":"\","}, {"optional\":"true, \"name\":"testField2\", \"type\":[\"null\", {\"type\":"record\", \"name\":"testRecord\", \"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

```

```

{
  "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\", \"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.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"
}

```

## 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?schemaId&endpointGroupId

- **Method:**  
POST

- **URL params**

Parameter	Value	Description
schemaId	string	the ID of the configuration schema
endpointGroupId	string	the ID of the endpoint group

- **Data params**

None

- **Success response:**

- **Code:** 200

- **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 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 POST "http://localhost:8080/kaaAdmin/rest/api/delConfigurationRecord?schemaId=200&endpointGroupId=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**

**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/notificationSchemas/5" | python -mjson.tool
```

```
[
  {
    "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
  }
]

```

## 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

**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/93185465951671258176" | python -mjson.tool
```

```
[
  {
    "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
  }
]
```

## 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
  - **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
```

```
[
  {
    "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
  - **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
```

```
[  
  {  
    "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/{notificationSchemald}

- **Method:**  
GET

- **URL params**

Parameter	Value	Description
notificationSchemald	string	The ID of the notification schema

- **Data params**

None

- **Success response:**

- **Code:** 200
  - **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 notificationSchemald 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
```

```
{
  "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\""}"
```

## Create/Edit notification schema

Creates or updates a notification schema. If a notification 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/notificationSchema

- **Method:**

POST

- **URL params**

None

- **Data params**

Multipart/form-data encoding. Fields:

**Example:**

```
{"applicationId": "71", "name": "Test notification schema", "description": "Notification Schema Description"}
```

**File contents example:**

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

- **Success response:**

- **Code:** 200

**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\": \"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
```

```
{
  "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\": \"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
```

```
{
  "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\": \"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

### 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
```

```

[
  {
    "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**

**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
```

```
[
  {
    "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

### 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
```

```
[
  {
    "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

**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
```

```
[
  {
    "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

**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	The topicId parameter is empty

Request	
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
```

```
{
  "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**

**Example:**

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

- **Success response:**

- **Code:** 200
  - **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
```

```
{
  "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:

**Example:**

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

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

**Example:**

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

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

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

**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
```

```
{  
  "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:

**Example:**

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

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

**Example:**

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

**Example:**

```
1sXnYUbE31aCgN5NSsbcRMAZTgM=
```

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

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

**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=1sXnYUbE31aCgN5NSsbcRMAZTgM=;type=text/plain' -F file=@notification.json "http://localhost:8080/kaaAdmin/rest/api/sendUnicastNotification" | python -mjson.tool
```

```
{
  "endpointKeyHash": "1sXnYUbE31aCgN5NSsbcRMAZTgM=",
  "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

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",
        "schema": "[\r\n{\r\n  \"namespace\": \"org.kaaproject.kaa.demo.player\",
\r\n  \"type\": \"record\", \r\n  \"classType\": \"event\", \r\n  \"name\": \"
DeviceInfoRequest\", \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\": \"
DeviceInfo\", \r\n  \"fields\": [\r\n    {\"name\": \"model\", \"type\": [\"string\", \"
null\"]}, \r\n    {\"name\": \"product\", \"type\": [\"string\", \"null\"]}, \r\n    {\"
name\": \"manufacturer\", \"type\": [\"string\", \"null\"]}, \r\n    {\"name\": \"device\",
\"type\": [\"string\", \"null\"]}, \r\n    {\"name\": \"brand\", \"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\": \"DeviceInfoResponse\", \r\n
\"fields\": [\r\n\t{\"name\": \"deviceInfo\", \"type\": [\"org.kaaproject.kaa.demo.player.
DeviceInfo\", \"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\": \"
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  \"
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]
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```

```
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}  
}
```

```

    ],
    "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

```

```

[
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```
\r\n \"type\": \"record\", \r\n \"classType\": \"object\", \r\n \"name\": \"ThermostatInfo\", \r\n \"fields\": [\r\n   {\"name\": \"degree\", \"type\": [\"int\", \"null\"]}, \r\n   {\"name\": \"targetDegree\", \"type\": [\"int\", \"null\"]}, \r\n   {\"name\": \"isSetManually\", \"type\": [\"boolean\", \"null\"]}, \r\n   {\"name\": \"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   {\"name\": \"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\n  },\n  {\n    \"tenantId\": \"10\"\n  },\n  {\n    \"className\": \"MusicEventClassFamily\", \r\n    \"createdTime\": 1408705246282, \r\n    \"createdUsername\": \"admin\", \r\n    \"description\": null, \r\n    \"id\": \"33\", \r\n    \"name\": \"Music Event Class Family\", \r\n    \"namespace\": \"org.kaaproject.kaa.demo.smarthouse.music\", \r\n    \"schemas\": [\n      {\n        \"createdTime\": 1408705246328, \r\n        \"createdUsername\": \"admin\", \r\n        \"id\": \"43\", \r\n        \"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            {\"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            {\"name\": \"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\": [\"array\", \"items\": \"org.kaaproject.kaa.demo.smarthouse.music.SongInfo\"], \"null\": true}, \r\n   ]}, \r\n            {\"name\": \"namespace\": \"org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"event\", \r\n \"name\": \"PauseRequest\", \r\n \"fields\": [\r\n   ]}, \r\n            {\"name\": \"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            {\"name\": \"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            {\"name\": \"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            {\"name\": \"namespace\": \"org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"event\", \r\n \"name\": \"SeekRequest\", \r\n \"fields\": [\r\n   {\"name\": \"time\", \"type\": [\"int\", \"null\"]}, \r\n   ]}, \r\n            {\"name\": \"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            {\"name\": \"namespace\": \"org.kaaproject.kaa.demo.smarthouse.music\", \r\n \"type\": \"record\", \r\n \"classType\": \"object\", \r\n \"name\": \"song\", \r\n \"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            {\"name\": \"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            \"version\": 1\n          }\n        ]\n      }\n    ],\n  },\n  ]\n}
```

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

## Get event class family

Returns an event class family by event class family ID. Only users with the TENANT\_ADMIN role are allowed to request this information.

- **URL**  
/kaaAdmin/rest/api/eventClassFamily/{eventClassFamilyId}

- **Method:**

GET

- **URL params**

Parameter	Value	Description
eventClassFamilyId	string	The ID of the event class family

- **Data params**

None

- **Success response:**

- **Code: 200**

### 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",
      "schema": "[\r\n{\r\n  \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n  \"type\": \"record\", \r\n  \"classType\": \"event\", \r\n  \"name\": \"DeviceInfoRequest\", \r\n  \"fields\": [\r\n    ], \r\n  \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n  \"type\": \"record\", \r\n  \"classType\": \"object\", \r\n  \"name\": \"DeviceInfo\", \r\n  \"fields\": [\r\n    { \"name\": \"model\", \"type\": [\"string\", \"null\"] }, \r\n    { \"name\": \"product\", \"type\": [\"string\", \"null\"] }, \r\n    { \"name\": \"manufacturer\", \"type\": [\"string\", \"null\"] }, \r\n    { \"name\": \"device\", \"type\": [\"string\", \"null\"] }, \r\n    { \"name\": \"brand\", \"type\": [\"string\", \"null\"] } \r\n  ] \r\n  \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n  \"type\": \"record\", \r\n  \"classType\": \"event\", \r\n  \"name\": \"DeviceInfoResponse\", \r\n  \"fields\": [\r\n    { \"name\": \"deviceInfo\", \"type\": [\"org.kaaproject.kaa.demo.player.DeviceInfo\", \"null\"] } \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  \"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  \"namespace\": \"org.kaaproject.kaa.demo.player\", \r\n  \"type\": \"record\", \r\n  \"classType\": \"event\", \r\n  \"name\": \"PlaylistResponse\", \r\n  \"fields\": [\r\n    { \"name\": \"playlist\", \"type\": [\"array\", \"items\": \"org.kaaproject.kaa.demo.player.SongInfo\", \"null\"] } \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\": [

```



```
{
  "name": "url", "type": ["string", "null"]}
  "namespace": "org.kaaproject.kaa.demo.player", "type": "record",
  "classType": "event", "name": "PauseRequest", "fields": [],
  "namespace": "org.kaaproject.kaa.demo.player", "type": "record",
  "classType": "event", "name": "StopRequest", "fields": [],
  "namespace": "org.kaaproject.kaa.demo.player", "type": "record",
  "classType": "event", "name": "PlaybackInfoRequest", "fields": [],
  "namespace": "org.kaaproject.kaa.demo.player", "type": "enum",
  "classType": "object", "name": "PlaybackStatus", "symbols": ["PLAYING",
  "PAUSED", "STOPPED"]}
  "namespace": "org.kaaproject.kaa.demo.player",
  "type": "record", "classType": "object", "name": "PlaybackInfo",
  "fields": [{"name": "url", "type": ["string", "null"]},
  {"name": "time", "type": ["int", "null"]},
  {"name": "status", "type": ["org.kaaproject.kaa.demo.player.PlaybackStatus",
  "null"]}]}
  "namespace": "org.kaaproject.kaa.demo.player", "type": "record",
  "classType": "event", "name": "PlaybackInfoResponse", "fields": [{"name":
  "playbackInfo", "type": ["org.kaaproject.kaa.demo.player.PlaybackInfo",
  "null"]}]}
  "namespace": "org.kaaproject.kaa.demo.player", "type": "record",
  "classType": "event", "name": "BatteryInfoRequest",
  "type": "enum", "classType": "object", "name": "BatteryChargingStatus",
  "symbols": ["NOT_CHARGING", "CHARGING", "CHARGED"]}
  "namespace": "org.kaaproject.kaa.demo.player", "type": "record",
  "classType": "object", "name": "BatteryInfo", "fields": [{"name":
  "batteryLife", "type": ["int", "null"]}, {"name": "chargingStatus",
  "type": ["org.kaaproject.kaa.demo.player.BatteryChargingStatus",
  "null"]}]}
  "namespace": "org.kaaproject.kaa.demo.player", "type": "record",
  "classType": "event", "name": "BatteryInfoResponse", "fields": [{"name":
  "batteryInfo", "type": ["org.kaaproject.kaa.demo.player.BatteryInfo",
  "null"]}]}
  "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
```

```
{
  "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\": \"org.kaaproject.kaa.demo.player\", \r\n \"type\": \"record\", \r\n \"classType\": \"event\", \r\n \"name\": \"DeviceInfoRequest\", \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\": \"DeviceInfo\", \r\n \"fields\": [\r\n {\"name\": \"model\", \"type\": [\"string\", \"null\"]}, \r\n {\"name\": \"product\", \"type\": [\"string\", \"null\"]}, \r\n {\"name\": \"manufacturer\", \"type\": [\"string\", \"null\"]}, \r\n {\"name\": \"device\", \"type\": [\"string\", \"null\"]}, \r\n {\"name\": \"brand\", \"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\": \"DeviceInfoResponse\", \r\n \"fields\": [\r\n{\r\n \"name\": \"deviceInfo\", \"type\": [\"org.kaaproject.kaa.demo.player.DeviceInfo\", \"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\": \"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{\r\n \"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{\r\n \"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]\r\n],
    "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**

- **Example:**

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

- **Success response:**

- **Code: 200**

- **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
```

```
{  "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
```

```
{
  "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:

**Example:**

```
34
```

**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	The specified event class family schema is not a valid avro schema

Request	
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**

**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

```

```

[
  {
    "ecfId": "34",
    "fqm": "org.kaaproject.kaa.test.family.MyTestRequest",
    "id": "177",
    "schema": "{\n\"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": "{\n\"type\": \"record\", \"name\": \"MyTestResponse\", \"namespace\": \"org.kaaproject.kaa.test.family\", \"fields\": [{\n\"name\": \"testField\", \"type\": [\"string\", \"null\"]}], \"classType\": \"event\"}",
    "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**

**Example:**

```
[
  {
    "applicationId": "7",
    "createdTime": 1461254332740,
    "createdUsername": "devuser",
    "ecfId": "2",
    "ecfName": "Verifiers Demo Event Class Family",
    "eventMaps": [
      {
        "action": "BOTH",
        "eventClassId": "5",
        "fqm": "org.kaaproject.kaa.demo.verifiersdemo.MessageEvent",
        "id": "4"
      }
    ],
    "id": "2",
    "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/applicationEventMaps /7" | python -mjson.tool
```

```
[
  {
    "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"
    }
},
"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**

**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
  }
]

```

- **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/applicationEventMapsByAppToken/26100981852394445021" | python -mjson.tool
```

```
[
  {
    "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 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**

**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

```

```

{
  "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
}

```

## 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**

**Example:**

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

- **Success response:**

- **Code:** 200

**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 Unauthoriz ed	The user is not authenticated or invalid credentials were provided
403 Forbidden	The authenticated user does not have the equired 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.kaaproject.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
```

```
{
  "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
  - **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

```

```

[
  {
    "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**
  - **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/93185465951671258176" | python -mjson.tool
```

```
[
  {
```

```

    "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

### 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
```

```
[
  {
    "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

**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
```

```
[
  {
    "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**

**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    }, \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
```

```

[
  {
    "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  ] \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    }, \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
  }
]

```

```
{\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\n}\n]
```

## 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**

**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          \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        {\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\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 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/93185465951671258176" | python -mjson.tool
```

```
[
  {
    "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
  }
]
```

## 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

**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\":" enum\r\n      \\"symbols\":" [\r\n        \\"DEBUG\"," ERROR\r\n        \\"FATAL\"," INFO\r\n        \\"TRACE\"," WARN\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	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
```

```
{
  "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\": \r\n  \"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]"
```

## 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**

### Example:

```
{\r\n  \"applicationId\": \"71\", \r\n  \"createdTime\": 1408705246583, \r\n  \"createdUsername\": \"admin\", \r\n  \"description\": null, \r\n  \"endpointCount\": 0, \r\n  \"id\": \"95\", \r\n  \"majorVersion\": 1, \r\n  \"minorVersion\": 0, \r\n  \"name\": \"Generated\", \r\n  \"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
```

```
{
  "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\": \"enum\", \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\": \"tag\", \r\n  \"type\": \"string\" \r\n}, \r\n  {\r\n    \"name\": \"message\", \r\n    \"type\": \"string\" \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:

**Example:**

```
{"applicationId": "71", "name": "Test log schema", "description": "Log Schema Description"}
```

**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

**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\": \"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    }, \n    {\n      \"name\": \"tag\", \n      \"type\": \"string\" \n    }, \n    {\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
```

```
{
  "applicationId": "5",
  "createdTime": 1466611240967,
  "createdUsername": "devuser",
  "description": "Log Schema Description",
  "endpointCount": 0,
  "id": "32768",
  "name": "Test log schema",
  "schema": "{\n  \"type\": \"record\", \n  \"name\": \"TestLogData\", \n  \"namespace\": \"org.kaa.config.test\", \n  \"fields\": {\n    {\n      \"name\": \"level\", \n      \"type\": {\n        \"type\": \"enum\", \n        \"symbols\": [\n          \"DEBUG\", \n          \"ERROR\", \n          \"FATAL\", \n          \"INFO\", \n          \"TRACE\", \n          \"WARN\" \n        ] \n      } \n    }, \n    {\n      \"name\": \"tag\", \n      \"type\": \"string\" \n    } \n  }, \n  \"name\": \"message\", \n  \"type\": \"string\" \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
```

```
{
  "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\": \"TestLogData\", \n  \"namespace\": \"org.kaa.config.test\", \n  \"fields\": {\n    {\n      \"name\": \"level\", \n      \"type\": {\n        \"type\": \"enum\", \n        \"symbols\": [\n          \"DEBUG\", \n          \"ERROR\", \n          \"FATAL\", \n          \"INFO\", \n          \"TRACE\", \n          \"WARN\" \n        ] \n      } \n    }, \n    {\n      \"name\": \"tag\", \n      \"type\": \"string\" \n    } \n  }, \n  \"name\": \"message\", \n  \"type\": \"string\" \n}"
  "version": 3
}
```

## 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**

### 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 }], \"
mongoCredentials\": [], \"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/logAppenders/5" |
python -mjson.tool
```

```
[
  {
    "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}], \"
mongoCredentials\": [], \"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"
  }
]
```

## 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

**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}},\\"
mongoCredentials\\":[],\\"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
/logAppendersByAppToken/93185465951671258176" | python -mjson.tool
```

```
[
  {
    "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 } ], \"mongoCredentials\": [], \"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\"
}
]

```

## 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
  - **Example:**

```

{
  "appenderClassName": "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
  "applicationId": "70",
  "applicationToken": "517279666821995",
  "configuration": "{ \"publicKey\": \"DFGFDGD43FGGDFJKKJLFD34535DFDFGD\", \"logsRootPath\": \"/kaa_log_uploads\", \"rollingFileNamePattern\": \"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"
}

```

- **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
```

```
{
  "appenderClassName": "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
  "applicationId": "70",
  "applicationToken": "517279666821995",
  "configuration": "{\n\"publicKey\": \"DFGFDGD43FGGDFJKKJLFD34535DFDFGD\", \"logsRootPath\": \"\n/kaa_log_uploads\", \"rollingFileNamePatern\": \"logFile.%d{yyy-MM-dd}.log\", \"rollingMaxHistory\":\n30, \"triggerMaxFileSize\": \"1GB\", \"encoderPattern\": \"%-4relative [%thread] %-5level %logger{35}\n- %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**

**Example:**

```
{"pluginClassName": "org.kaaproject.kaa.server.appenders.file.appender.FileSystemLogAppender",
"applicationId": "150", "applicationToken": "49263753185447091438", "jsonConfiguration": "{\n
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**

**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\":"XXXXXXXXXXXXXXXXXXXXX"\,"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\":"
XXXXXXXXXXXXXXXXXXXXX"\,"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"}' "http://localhost:8080/kaaAdmin/rest/api/logAppender" | python -mjson.tool

```

```

{
  "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\": \"\n/kaa_log_uploads_new\", \"rollingFileNamePattern\": \"logFile.%d{yyyy-MM-dd}.log\", \"\nrollingMaxHistory\": 30, \"triggerMaxFileSize\": \"1GB\", \"encoderPattern\": \"%-4relative [%thread] %\n-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\": \"\n/kaa_log_uploads_new\", \"rollingFileNamePattern\": \"logFile.%d{yyyy-MM-dd}.log\", \"rollingMaxHistory\": 30, \"triggerMaxFileSize\": \"1GB\", \"encoderPattern\": \"%-4relative [%thread] %\n-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

```

```

{
  "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\": \"\n/kaa_log_uploads_new\", \"rollingFileNamePattern\": \"logFile.%d{yyyy-MM-dd}.log\", \"\nrollingMaxHistory\": 30, \"triggerMaxFileSize\": \"1GB\", \"encoderPattern\": \"%-4relative [%thread] %\n-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**

**Example:**

```
[
  {
    "applicationId": "7",
    "createdTime": 1461254333178,
    "createdUsername": "devuser",
    "description": null,
    "id": "3",
    "jsonConfiguration": "{\n\"consumer_key\": \"01Y9gbsMeGPetye1w9kkNvNmi\", \"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": "{\n\"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": "{\n\"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
```

```
[  
  {  
    "applicationId": "7",  
    "createdTime": 1461254333178,  
    "createdUsername": "devuser",  
    "description": null,  
    "id": "3",  
    "jsonConfiguration": "{\"consumer_key\":\"01Y9gbsMeGPetyelw9kkNvNmi\",\"consumer_secret\":  
    \\\"g4Pwh51o7S0lhd3RL6inNF3VxixBURAJDZc494uSISF7yOyJjc\\\",\\\"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"  
  }  
]
```

## 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**

**Example:**

```
[
  {
    "applicationId": "7",
    "createdTime": 1461254333178,
    "createdUsername": "devuser",
    "description": null,
    "id": "3",
    "jsonConfiguration": "{\n\"consumer_key\":\n\"01Y9gbsMeGPetyelw9kkNvNmi\", \n\"consumer_secret\":\n\"g4Pwh51o7SQLhd3RL6inNF3VxixBURAJDZc494uSISF7yOyJjc\", \n\"max_parallel_connections\":5, \n\"twitter_verify_url\":\n\"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": "{\n\"app_id\":\n\"1557997434440423\", \n\"app_secret\":\n\"8ff17981ea0cdad3fe387a55c91aa71b\", \n\"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": "{\n\"max_parallel_connections\":5, \n\"min_parallel_connections\":2, \n\"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/26100981852394445021" | python -mjson.tool
```

```
[
  {
    "applicationId": "7",
    "createdTime": 1461254333178,
    "createdUsername": "devuser",
    "description": null,
    "id": "3",
    "jsonConfiguration": "{\"consumer_key\":\"01Y9gbsMeGPetyelw9kkNvNmI\", \"consumer_secret\":\"g4Pwh51o7SQtld3RL6inNF3VxixBURAJDZc494uSISF7yOyJjc\", \"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"
  }
]
```

## 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**

**Example:**

```
{
  "applicationId": "150",
  "createdTime": 1423502227771,
  "createdUsername": "devuser",
  "description": "Sample description",
  "id": "266",
  "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": "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
```

```
{
  "applicationId": "150",
  "createdTime": 1423502227771,
  "createdUsername": "devuser",
  "description": "Sample description",
  "id": "266",
  "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": "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**

**Example:**

```
{ "pluginClassName": "org.kaaproject.kaa.server.verifiers.facebook.verifier.FacebookUserVerifier",
  "pluginTypeName": "Facebook", "applicationId": "150", "name": "MyFacebookVerifier", "description":
  "Sample description", "jsonConfiguration": "{ \"app_id\": \"XXXXXXXXX\", \"app_secret\": \"
XXXXXXXXXXXXXXXXXXXXXXXXX\", \"max_parallel_connections\": 100}" }
```

- **Success response**

- **Code:** 200

**Example:**

```
{
  "applicationId": "150",
  "createdTime": 1423500291744,
  "createdUsername": "devuser",
  "description": "Sample description",
  "id": "264",
  "jsonConfiguration": "{ \"app_id\": \"XXXXXXXXXXXXXXXXX\", \"app_secret\": \"
XXXXXXXXXXXXXXXXXXXXXXXXX\", \"max_parallel_connections\": 100}",
  "name": "MyFacebookVerifier",
  "pluginClassName": "org.kaaproject.kaa.server.verifiers.facebook.verifier.
FacebookUserVerifier",
  "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
```

```
{
  "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
```

```
{
  "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	The userVerifierId parameter is empty



Request	
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
```

```
{
  "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
```

```
{
  "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\": \"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
```

```
{
  "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
  - **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
```

```

{
  "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**

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