Moon Security Router API

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This document list all of the API connectors served by the Moon Security Router application.

External API

Those connectors can only be requested from outside, ie by a user like Nova or Swift through the KeystoneMiddleware application.

Intra-Extension API

Configuration

GET /moon/configuration/templates

> List all policy templates.

```
return = {
    "template_id": {
        "name": "name of the template",
        "description": "description of the template",
    }
}
```

GET /moon/configuration/aggregation_algorithms

> List all aggregation algorithms.

```
return = {
    "algorithm_id": {
        "name": "name of the algorithm",
        "description": "description of the algorithm",
    }
}
```

GET /moon/configuration/sub_meta_rule_algorithms

List all sub meta rule algorithms.

```
return = {
    "algorithm_id": {
        "name": "name of the algorithm",
        "description": "description of the algorithm",
    }
}
```

Tenants

GET /moon/tenants

List all tenants.

```
return = {
    "tenant_id": {
        "name": "name of the tenant",
        "description": "description of the tenant",
        "intra_authz_extension_id": "id of the intra extension authz",
        "intra_admin_extension_id": "id of the intra extension authz"
    }
}
```

POST /moon/tenants

Add a tenant.

```
post = {
    "tenant_name": "name of the tenant",
    "tenant_description": "description of the tenant",
    "tenant_intra_authz_extension_id": "id of the intra extension authz",
    "tenant_intra_admin_extension_id": "id of the intra extension admin"
}
return = {
    "tenant_id": {
        "name": "name of the tenant",
        "description": "description of the tenant",
        "intra_authz_extension_id": "id of the intra extension authz",
        "intra_admin_extension_id": "id of the intra extension authz"
    }
}
```

POST /moon/tenants/{tenant_id}

Show information of one tenant.

```
return = {
    "tenant_id": {
        "name": "name of the tenant",
        "description": "description of the tenant",
        "intra_authz_extension_id": "id of the intra extension authz",
        "intra_admin_extension_id": "id of the intra extension authz"
    }
}
```

POST /moon/tenants/{tenant_id}

Modify a tenant.

```
post = {
    "tenant_name": "name of the tenant",
    "tenant_description": "description of the tenant",
    "tenant_intra_authz_extension_id": "id of the intra extension authz",
    "tenant_intra_admin_extension_id": "id of the intra extension admin"
}
return = {
    "tenant_id": {
        "name": "name of the tenant",
        "description": "description of the tenant",
        "intra_authz_extension_id": "id of the intra extension authz",
        "intra_admin_extension_id": "id of the intra extension authz"
    }
}
```

DELETE /moon/tenants/{tenant_id}

Delete a tenant.

```
return = {}
```

Intra-Extension

GET /moon/intra_extensions/init

Initialize the root Intra_Extension (if needed).

```
return = {}
```

GET /moon/intra_extensions

List all Intra_Extensions.

```
return = {
    "intra_extension_id": {
        "name": "name of the intra extension",
        "model": "model of the intra extension"
```

```
        }
}
```

POST /moon/intra_extensions

Create a new Intra_Extension.

```
post = {
    "intra_extension_name": "name of the intra extension",
    "intra_extension_model": "model of the intra extension (taken from /configuration/templ
    "intra_extension_description": "description of the intra extension",

}
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/

Show details about one Intra_Extension.

```
return = {
    "id": "intra_extension_id",
    "name": "name of the intra extension",
    "model": "model of the intra extension",
    "genre": "genre of the intra extension",
    "description": "model of the intra extension"
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/

Delete an Intra_Extension.

```
return = {}
```

Intra-Extension Subjects

GET /moon/intra_extensions/{intra_extension_id}/subjects

List all subjects.

```
return = {
    "subject_id": {
        "name": "name of the subject",
        "keystone_id": "keystone id of the subject"
    }
}
```

POST /moon/intra_extensions/{intra_extension_id}/subjects

List all subjects.

```
post = {
    "subject_name": "name of the subject",
```

```
        "subject_description": "description of the subject",
        "subject_password": "password for the subject",
        "subject_email": "email address of the subject"
}
return = {
        "subject_id": {
            "name": "name of the subject",
            "keystone_id": "keystone id of the subject"
        }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/subjects/{subject_id}

> Delete a subject.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/subject_categories

> List all subject categories.

```
return = {
        "subject_category_id": {
            "name": "name of the category",
            "description": "description of the category"
        }
}
```

POST /moon/intra_extensions/{intra_extension_id}/subject_categories

> Add a new subject category.

```
post = {
        "subject_category_name": "name of the category",
        "subject_category_description": "description of the category"
}
return = {
        "subject_category_id": {
            "name": "name of the category",
            "description": "description of the category"
        }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/subject_categories/{subject_categor

> Delete a subject category.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/subject_scopes/{subject_category_id}

> List all subject scopes for a specific subject category.

```
return = {
    "subject_scope_id": {
        "name": "name of the scope",
        "description": "description of the scope"
    }
}
```

POST /moon/intra_extensions/{intra_extension_id}/subject_scopes/{subject_category_id}

Add a new subject scope for a specific subject category.

```
post = {
    "subject_scope_name": "name of the scope",
    "subject_scope_description": "description of the scope"
}
return = {
    "subject_scope_id": {
        "name": "name of the scope",
        "description": "description of the scope"
    }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/subject_scopes/{subject_category_i

Delete a subject scope.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/subject_assignments/{subject_id}/{subj

List all subject assignments for a subject and for a subject category.

```
return = [
    "subject_assignment_id1", "subject_assignment_id2"
]
```

POST /moon/intra_extensions/{intra_extension_id}/subject_assignments

Add an assignment.

```
post = {
    "subject_id": "id of the subject",
    "subject_category_id": "id of the category",
    "subject_scope_id": "id of the scope"
}
return = [
    "subject_assignment_id1", "subject_assignment_id2"
]
```

DELETE /moon/intra_extensions/{intra_extension_id}/subject_assignments/{subject_id}/{

Delete a subject assignment.

```

```
return = {}
```

**Intra-Extension Objects**

**GET /moon/intra_extensions/{intra_extension_id}/objects**

    List all objects.

```
return = {
    "object_id": {
        "name": "name of the object",
        "keystone_id": "keystone id of the object"
    }
}
```

POST /moon/intra_extensions/{intra_extension_id}/objects

    List all objects.

```
post = {
    "object_name": "name of the object",
    "object_description": "description of the object"
}
return = {
    "object_id": {
        "name": "name of the object",
        "keystone_id": "keystone id of the object"
    }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/objects/{object_id}

    Delete a object.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/object_categories

    List all object categories.

```
return = {
    "object_category_id": {
        "name": "name of the category",
        "description": "description of the category"
    }
}
```

POST /moon/intra_extensions/{intra_extension_id}/object_categories

    Add a new object category.

```
post = {
    "object_category_name": "name of the category",
    "object_category_description": "description of the category"
}
return = {
    "object_category_id": {
        "name": "name of the category",
        "description": "description of the category"
    }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/object_categories/{object_category_

Delete a object category.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/object_scopes/{object_category_id}

List all object scopes for a specific object category.

```
return = {
    "object_scope_id": {
        "name": "name of the scope",
        "description": "description of the scope"
    }
}
```

POST /moon/intra_extensions/{intra_extension_id}/object_scopes/{object_category_id}

Add a new object scope for a specific object category.

```
post = {
    "object_scope_name": "name of the scope",
    "object_scope_description": "description of the scope"
}
return = {
    "object_scope_id": {
        "name": "name of the scope",
        "description": "description of the scope"
    }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/object_scopes/{object_category_id}

Delete a object scope.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/object_assignments/{object_id}/{object

List all object assignments for a object and for a object category.

```
return = [
     "object_assignment_id1", "object_assignment_id2"
]
```

POST /moon/intra_extensions/{intra_extension_id}/object_assignments

Add an assignment.

```
post = {
     "object_id": "id of the object",
     "object_category_id": "id of the category",
     "object_scope_id": "id of the scope"
}
return = [
     "object_assignment_id1", "object_assignment_id2"
]
```

DELETE /moon/intra_extensions/{intra_extension_id}/object_assignments/{object_id}/{ob

Delete a object assignment.

```
return = {}
```

Intra-Extension Actions

GET /moon/intra_extensions/{intra_extension_id}/actions

List all actions.

```
return = {
     "action_id": {
          "name": "name of the action",
          "keystone_id": "keystone id of the action"
     }
}
```

POST /moon/intra_extensions/{intra_extension_id}/actions

List all actions.

```
post = {
     "action_name": "name of the action",
     "action_description": "description of the action",
     "action_password": "password for the action",
     "action_email": "email address of the action"
}
return = {
     "action_id": {
          "name": "name of the action",
          "keystone_id": "keystone id of the action"
```

```
    }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/actions/{action_id}

Delete a action.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/action_categories

List all action categories.

```
return = {
    "action_category_id": {
        "name": "name of the category",
        "description": "description of the category"
    }
}
```

POST /moon/intra_extensions/{intra_extension_id}/action_categories

Add a new action category.

```
post = {
    "action_category_name": "name of the category",
    "action_category_description": "description of the category"
}
return = {
    "action_category_id": {
        "name": "name of the category",
        "description": "description of the category"
    }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/action_categories/{action_category_

Delete a action category.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/action_scopes/{action_category_id}

List all action scopes for a specific action category.

```
return = {
    "action_scope_id": {
        "name": "name of the scope",
        "description": "description of the scope"
    }
}
```

POST /moon/intra_extensions/{intra_extension_id}/action_scopes/{action_category_id}

Add a new action scope for a specific action category.

```
post = {
    "action_scope_name": "name of the scope",
    "action_scope_description": "description of the scope"
}
return = {
    "action_scope_id": {
        "name": "name of the scope",
        "description": "description of the scope"
    }
}
```

DELETE /moon/intra_extensions/{intra_extension_id}/action_scopes/{action_category_id}

Delete a action scope.

```
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/action_assignments/{action_id}/{action_

List all action assignments for a action and for a action category.

```
return = [
    "action_assignment_id1", "action_assignment_id2"
]
```

POST /moon/intra_extensions/{intra_extension_id}/action_assignments

Add an assignment.

```
post = {
    "action_id": "id of the action",
    "action_category_id": "id of the category",
    "action_scope_id": "id of the scope"
}
return = [
    "action_assignment_id1", "action_assignment_id2"
]
```

DELETE /moon/intra_extensions/{intra_extension_id}/action_assignments/{action_id}/{ac

Delete a action assignment.

```
return = {}
```

Intra-Extension Rules

GET /moon/intra_extensions/{intra_extension_id}/aggregation_algorithm

List aggregation algorithm for an intra extension.

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```
return = {
    "aggregation_algorithm_id": {
        "name": "name of the aggregation algorithm",
        "description": "description of the aggregation algorithm"
    }
}
```

POST /moon/intra_extensions/{intra_extension_id}/aggregation_algorithm

Set the current aggregation algorithm for an intra extension.

```
post = {
    "aggregation_algorithm_id": "id of the aggregation algorithm",
    "aggregation_algorithm_description": "description of the aggregation algorithm"
}
return = {
    "aggregation_algorithm_id": {
        "name": "name of the aggregation algorithm",
        "description": "description of the aggregation algorithm"
    }
}
```

GET /moon/intra_extensions/{intra_extension_id}/sub_meta_rules

Show the current sub meta rules.

```
return = {
    "sub_meta_rule_id": {
        "name": "name of the aggregation algorithm",
        "algorithm": "algorithm of the aggregation algorithm",
        "subject_categories": ["subject_category_id1", "subject_category_id2"],
        "object_categories": ["object_category_id1", "object_category_id2"],
        "action_categories": ["action_category_id1", "action_category_id2"]
    }
}

return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/rule/{sub_meta_rule_id}

Set the current sub meta rule.

```
post = {
    "sub_meta_rule_name": "name of the sub meta rule",
    "sub_meta_rule_algorithm": "name of the sub meta rule algorithm",
    "sub_meta_rule_subject_categories": ["subject_category_id1", "subject_category_id2"],
    "sub_meta_rule_object_categories": ["object_category_id1", "object_category_id2"],
    "sub_meta_rule_action_categories": ["action_category_id1", "action_category_id2"]
}
return = {}
```

GET /moon/intra_extensions/{intra_extension_id}/rule/{sub_meta_rule_id}

List all rules.

```
return = {
    "rule_id1": ["subject_scope_id1", "object_scope_id1", "action_scope_id1"],
    "rule_id2": ["subject_scope_id2", "object_scope_id2", "action_scope_id2"]
}
```

POST /moon/intra_extensions/{intra_extension_id}/rule/{sub_meta_rule_id}

Add a new rule.

```
post = {
    "subject_categories": ["subject_scope_id1"],
    "object_categories": ["object_scope_id1"],
    "action_categories": ["action_scope_id1"],
    "enabled": True
}
return = {}
```

DELETE /moon/intra_extensions/{intra_extension_id}/rule/{sub_meta_rule_id}/{rule_id}

Delete a rule.

```
return = {}
```

Logs

GET /moon/logs/{options}

List all logs. Options can be:

- filter=<filter_characters>
- from=<show logs from this date>
- to=<show logs to this date>
- event_number=<get n logs>

Time format is '%Y-%m-%d-%H:%M:%S' (eg. "2015-04-15-13:45:20")

```
return = [
    "2015-04-15-13:45:20 ...",
    "2015-04-15-13:45:21 ...",
    "2015-04-15-13:45:22 ...",
    "2015-04-15-13:45:23 ..."
]
```