










# API

This guide is targeted to developers who want to access Autonomous Identity using the REST Application Programming Interface (API).

ForgeRock® Autonomous Identity is an entitlements analytics system that lets you fully manage your company's access to your data.

An entitlement refers to the rights or privileges assigned to a user or thing for access to specific resources. A company can have millions of entitlements without a clear picture of what they are, what they do, and who they are assigned to. Autonomous Identity solves this problem by using advanced artificial intelligence (AI) and automation technology to determine the full entitlements landscape for your company. The system also detects potential risks arising from incorrect or over-provisioned entitlements that lead to policy violations. Autonomous Identity eliminates the manual re-certification of entitlements and provides a centralized, transparent, and contextual view of all access points within your company.

## Quick Start

 <b><u>About the API</u></b> Learn about the Autonomous Identity API	 <b><u>API Service</u></b> Learn how to access the API Service endpoints	 <b><u>Authentication</u></b> Learn how to access the Authentication endpoints
 <b><u>SSO</u></b> Learn how to access the SSO endpoints	 <b><u>Config</u></b> Learn about the Config endpoints	 <b><u>Report</u></b> Learn about the Report API
 <b><u>Company View</u></b> Learn about the Company View API	 <b><u>User Details</u></b> Learn about the user details endpoint	 <b><u>Access Control</u></b> Learn about the Access Control endpoints.



### Applications

Learn about the applications endpoints.



### Entitlements

Learn about the entitlements endpoints



### Rules

Learn about the rules endpoints

## About the Autonomous Identity API

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Autonomous Identity provides a RESTful application programming interface (API) that lets you use HTTP request methods (GET, PUT, and POST) to interact with the system and its components. The API lets a developer make requests to send or receive data to an Autonomous Identity endpoint, a point where the API communicates with the system. The data that is sent or returned is in JavaScript Object Notation (JSON) format.

Autonomous Identity provides a Swagger client that you can access on the console.

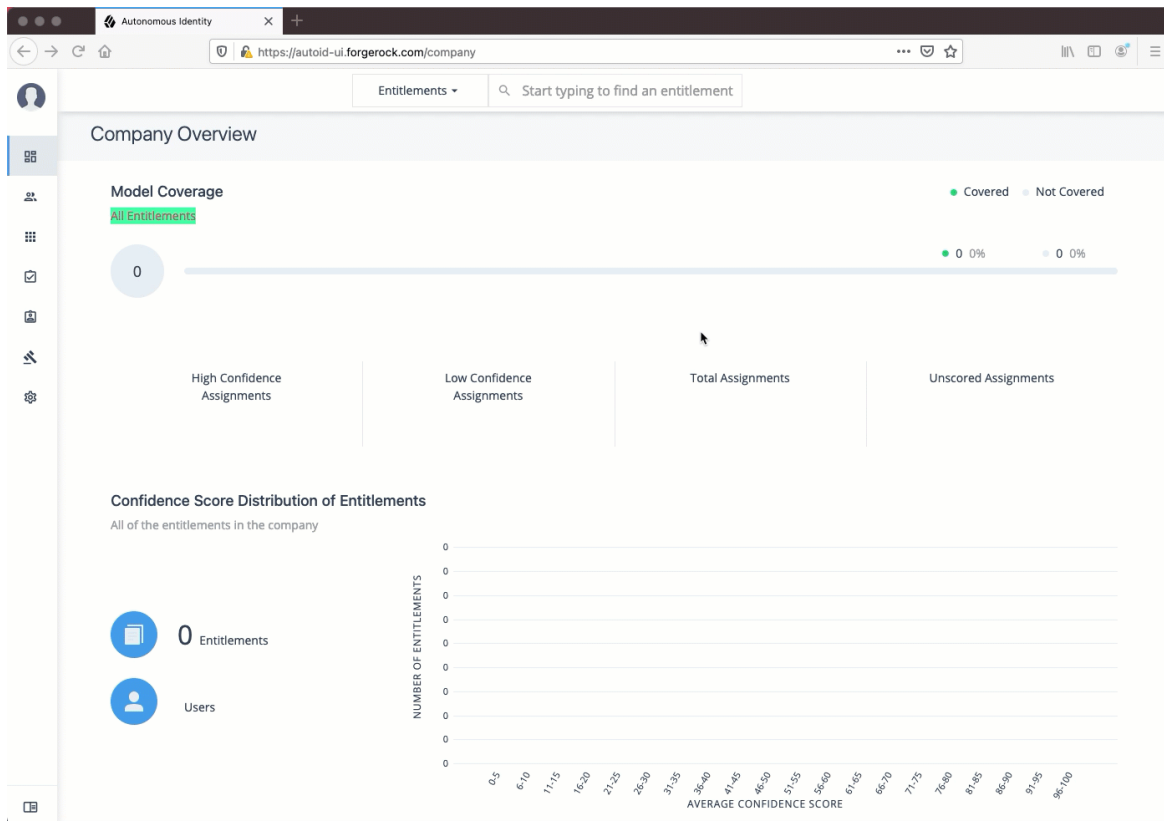
### Swagger

The Autonomous Identity installs with a Swagger client that lets you interact with the Autonomous Identity API and the configuration service API. Swagger is a popular software that provides design, build, test, and documentation tools for RESTful APIs.

#### *Access the Autonomous Identity Endpoints on Swagger*

1. Open a browser, and point it to `https://autoid-ui.forgerock.com/`. Log in to the Autonomous Identity console.
2. Open a browser, and point it to `https://autoid-api.forgerock.com/endpoints/`.

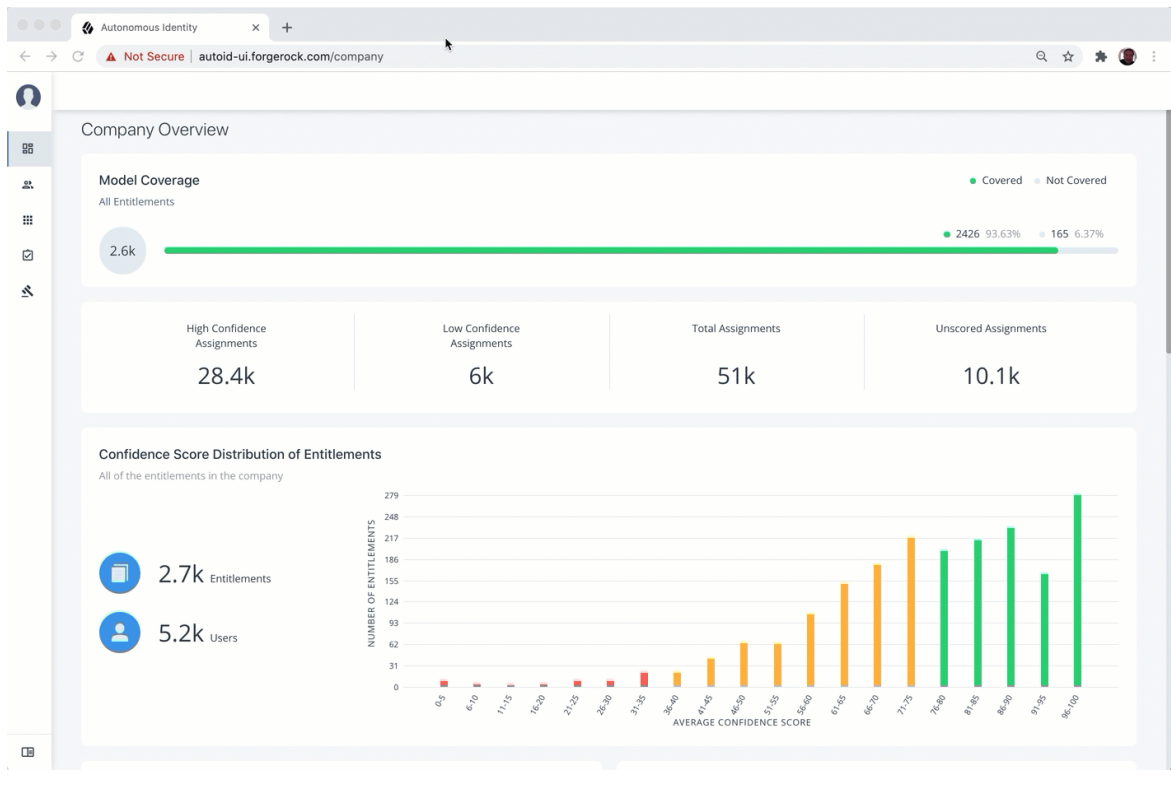
▼ [See it in action](#)



## Access the Autonomous Identity API on Swagger

1. Open a browser, and point it to `https://autoid-ui.forgerock.com/`. Log in to the Autonomous Identity console.
2. Open another browser tab, and point to `https://autoid-ui.forgerock.com/swagger/`. You should see a default Swagger API page.
3. Open another browser tab, and point to `https://autoid-ui.forgerock.com/api/swagger`. You should see a raw text version of the API.
4. Go back to the Swagger page in step 2, and enter `https://autoid-ui.forgerock.com/api/swagger` in the field, and click Explore. You will see the Autonomous Identity API service.

### ▼ [See it in action](#)

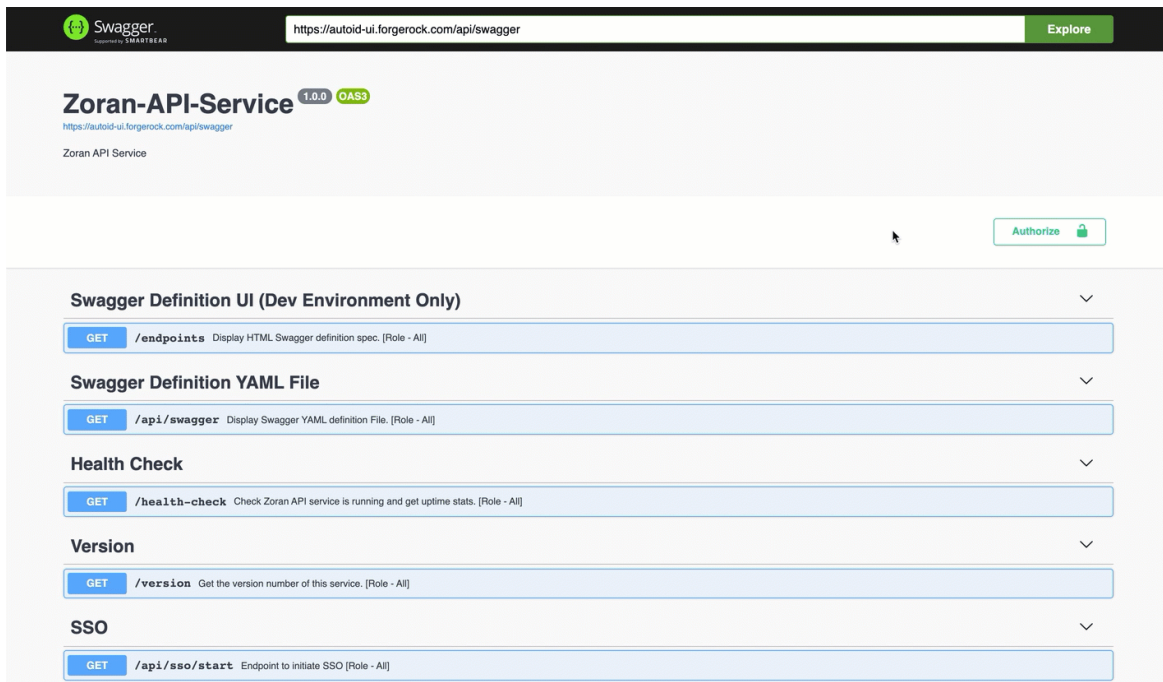


## Authorize on Swagger

1. On the Swagger page, scroll down to the Login API.
2. In the Login API section, click POST, and then click Try it out.
3. In the request body, enter the username and password of a user. Click Execute.
4. Scroll down to Response Body, and highlight the returned Bearer Token value.
5. Scroll back to the top of the page, and click Authorize. Enter Bearer <Token Value> by pasting in the value of the Bearer Token. Click Authorize. You can close the panel.

You can now access the Autonomous Identity API endpoints in Swagger.

### ▼ [See it in action](#)

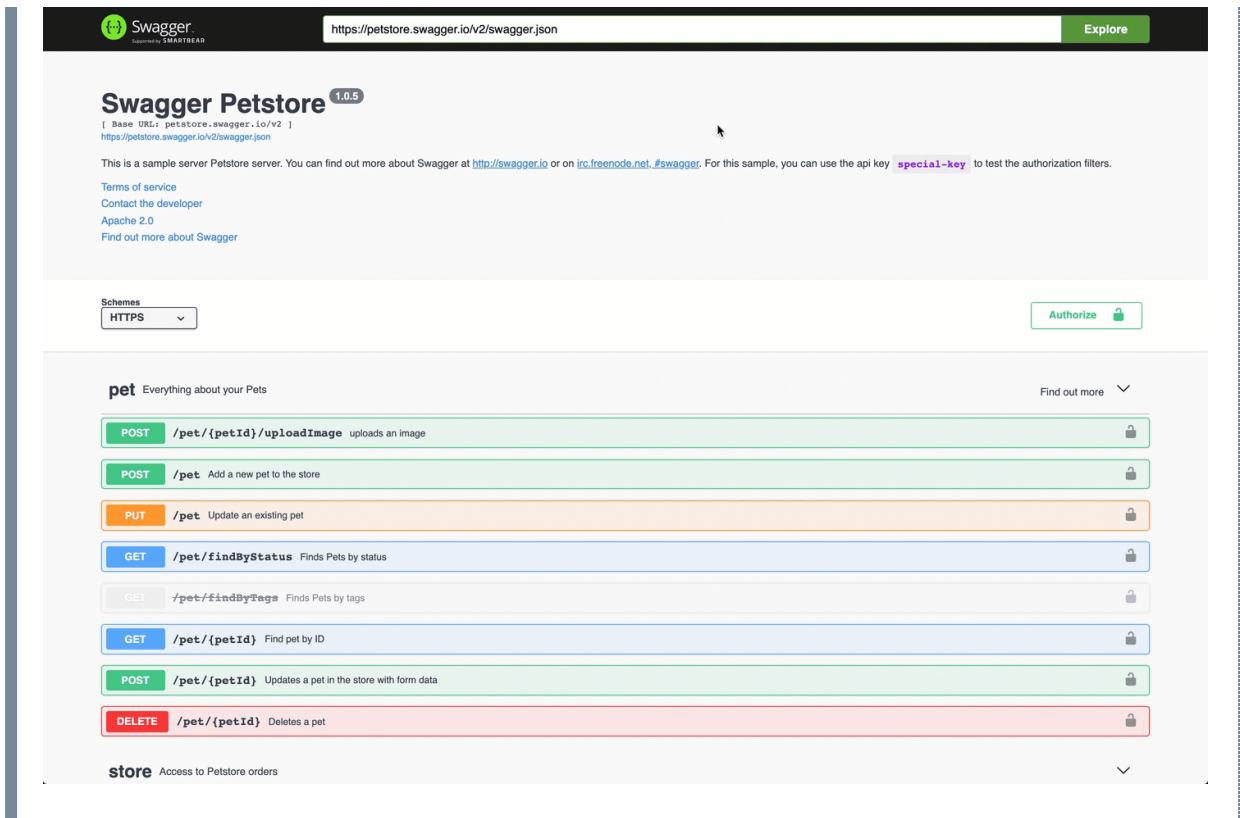


## Access the Autonomous Identity Configuration Service API on Swagger

1. Access the Swagger page as presented in [Access the Autonomous Identity API on Swagger](#).
2. Open another browser tab, and point to `https://autoid-ui.forgerock.com/conf/swagger`. You should see a raw test version of the API.
3. Go back to the Swagger page in step 1, and enter `https://autoid-ui.forgerock.com/conf/swagger` in the field, and click Explore. You will see the Configuration Service API.
4. At the top of the page, click Authorize. Enter `configadmin` and password. The password was set in the `~/autoid-config/vault.yml` during install. Click Authorize, and then close the dialog.

You can now access the Configuration Service API endpoints in Swagger.

### ▼ [See it in action](#)



## API Service

The following are Autonomous Identity API Service endpoints:

### **GET /health-check**

Check that the Autonomous Identity API service is running. Get uptime statistics. [All]

Endpoint

**/health-check**

Headers

**Content-Type**      **application/json**

Body

Example Request

```
curl -X GET "https://autoid-api.forgerock.com/health-check" \
-H "accept: application/json"
```

#### Example Response

```
{
  "status": "zoran-api: OK",
  "uptime": 5412.465875997,
  "uptimeFormatted": "1:30:12"
}
```

### **GET /version**

Get the version number of this service. [All]

#### Endpoint

```
/version
```

#### Headers

```
Content-Type    application/json
```

#### Body

#### Example Request

```
curl -X GET "https://autoid-api.forgerock.com/version" \
-H "accept: application/json"
```

#### Example Response

```
{
  "version": "1.0",
}
```

```
}
```

## Authentication

---

The following are Autonomous Identity authentication endpoints:

### ***POST /api/authentication/login***

Log in to the system. The endpoint accepts the username and password in the body of the request. The token provided has an expiry date that can be obtained by decoding the returned JWT and using the `exp` data inside the token. [All]

#### Endpoint

```
/api/authentication/login
```

#### Headers

```
Content-Type    application/json
```

#### Body

```
{  
    "username": "admin@test.com",  
    "password": "test"  
}
```

#### Example Request

```
curl --location --request POST '/api/authentication/login'  
\br/>--header 'Content-Type: application/json' \  
--data-raw '{  
    "username": "admin@test.com",  
    "password": "test"  
}'
```



## Example Response

```
{
  "user": {
    "dn": "cn=test.user@test.com,dc=example,dc=org",
    "controls": [],
    "gidNumber": "7777",
    "uid": "test.user",
    "displayName": "Test User",
    "_groups": [
      "Admin"
    ]
  },
  "token": "123456"
}
```

### **POST /api/authentication/renewToken**

Renew a token for the system. The endpoint accepts the JWT in the header

Authorization: Bearer JWT. The expiry time of the token is reset and return in the new token. [All]

#### Endpoint

```
/api/authentication/renewToken
```

#### Authorization

```
Token           <token>
```

#### Headers

```
Content-Type   application/json
```

#### Body

```
..
```

### Example Request

```
curl --location --request POST
'/api/authentication/renewToken' \
--header 'Content-Type: application/json' \
--data-raw ''
```

### Example Response

```
{
  "user": {
    "dn": "cn=test.user@test.com,dc=example,dc=org",
    "controls": [],
    "gidNumber": "7777",
    "uid": "test.user",
    "displayName": "Test User",
    "_groups": [
      "Admin"
    ]
  },
  "token": "123456"
}
```

### *GET /api/authentication/actions*

Retrieve the permitted actions of the currently authenticated user. [All]

#### Endpoint

```
/api/authentication/action
```

#### Authorization

<b>Token</b>	<b>&lt;token&gt;</b>
--------------	----------------------

#### Headers

<b>Content-Type</b>	<b>application/json</b>
---------------------	-------------------------

### Example Request

```
curl --location --request GET '/api/authentication/actions' \
--header 'Content-Type: application/json'
```

### Example Response

```
{
  "userActions": [
    "*"
  ],
  "roleTitle": "Unknown",
  "homepage": "company"
}
```

## SSO

---

### *GET /api/sso/start*

Endpoint to initiate SSO. [All]

#### Endpoint

```
/api/sso/start
```

#### Authorization

```
Token                    <token>
```

#### Headers

```
Content-Type            /
```

### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/sso/start" -H "accept: /"
```

### *GET /api/sso/finish*

Endpoint to finish SSO. [All]

#### Endpoint

```
/api/sso/finish
```

#### Authorization

```
Token                    <token>
```

#### Headers

```
Content-Type            /
```

### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/sso/finish" -H "accept: /"
```

### *GET /api/sso/finish*

Endpoint to finish SSO. [All]

#### Endpoint

```
/api/sso/finish
```

#### Authorization

**Token**                    <token>

Headers

**Content-Type**            /

Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/sso/finish" -H "accept: /"
```

### ***GET /api/slo/logout***

Endpoint to log out of SSO.

Endpoint

**/api/slo/logout**

Authorization

**Token**                    <token>

Headers

**Content-Type**            application/json

Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/slo/logout" \  
-H "accept: application/json"
```

# Config

---

The following are Autonomous Identity config endpoint:

## **GET /api/config**

Get the configuration. This endpoint is mainly used by the Autonomous Identity UI microservice to get values stored in Consul. [All]

### Endpoint

```
/api/config
```

### Headers

```
Content-Type    application/json
```

### Example Request

```
curl -X GET "https://autoid-api.forgerock.com/api/config" \  
-H "accept: application/json"
```

### Example Response

```
{  
  "thresholds": {  
    "top": 1.01,  
    "high": 0.75,  
    "medium": 0.35,  
    "low": 0,  
    "autoAccess": 0.5  
  },  
  "volumeThresholds": {  
    "high": 90,  
    "low": 20  
  },  
  "mostAssignedStats": {  
    "count": 100  
  },  
}
```

```
"highVolumeStats": {
  "high": {
    "minScore": 0.9,
    "minUsersCount": 100
  },
  "low": {
    "maxScore": 0.2,
    "minUsersCount": 100
  }
},
"authorizers": {
  "ldap": true,
  "oidc": false
}
}
```

### **GET /api/admin/reloadUIConfig**

Reload justification and filterable attributes configuration from JAS. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/admin/reloadUIConfig
```

Headers

```
Content-Type      /
```

Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/admin/reloadUIConfig" \  
-H "accept: /"
```

---

## Report

Autonomous Identity captures information in its log files that are useful when troubleshooting problems. You can access the reports using REST calls to the Report API endpoint.

### **POST /api/report**

Get reporting data. [All]

Endpoint

```
/api/report
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

```
Content-Type      application/json
```

Params

```
fields
```

Body

```
{
    "fields": [
        "id",
        "type",
        "batch_id",
        "original",
        "update"
    ],
    "reportType": "EventBasedCertification"
}
```



## Example Request

```
curl -X POST "https://autoid-api.forgerock.com/api/report" \
-H "accept: application/json" -H "Content-Type: \
application/json" \
--data-raw '{
    "fields": [
        "id",
        "type",
        "batch_id",
        "original",
        "update"
    ],
    "reportType": "EventBasedCertification"
}'
```

## Company View

---

The following are Autonomous Identity company view endpoints:

### *GET /api/companyview*

Get the data for company overview dashboard data. [Executive, Admin]

Endpoint

```
/api/companyview
```

Authorization

```
<Bearer Token JWT-value>
```

Example Request

```
curl -X GET "https://autoid-
api.forgerock.com/api/companyview" \
-H "accept: application/json"
```

## Example Response

```
{
  "companyView": {
    "employeeTypes": [
      {
        "type": "Employee",
        "high": 723,
        "low": 27,
        "medium": 1796,
        "null_conf": 0,
        "total": 2546
      },
      {
        "type": "Non-Employee",
        "high": 867,
        "low": 14,
        "medium": 1768,
        "null_conf": 0,
        "total": 2649
      }
    ],
    "employees_wo_manager": 0,
    "employees_w_manager": 5200,
    "entitlements_without_roleowners": 0,
    "entitlements_with_roleowners": 2456,
    "total_employees": 5200,
    "coverage": {
      "total": 2456,
      "covered": 2456,
      "not_covered": 0
    },
    "entitlementsDistribution": {
      "no_users": 0,
      "one_user": 0,
      "zero_to_five_users": 1,
      "five_to_ten_users": 1064,
      "ten_to_hundred_users": 1549,
      "hundred_to_onek_user": 35,
      "onek_to_tenk_users": 0,
      "tenk_users": 0,
      "hundredk_users": 0
    }
  }
}
```

```
}  
}
```

### GET /api/companyview/allEntitlementsAvgGroups

Get the average confidence score list for the company view chart. [Executive, Admin]

#### Endpoint

```
/api/companyview/allEntitlementAvgGroups
```

#### Authorization

```
<Bearer Token JWT-value>
```

#### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/companyview/allEntitlementAvgGroups"  
\  
-H "accept: application/json"
```

#### Example Response

```
{  
  "entitlementList": [  
    {  
      "start": 0,  
      "end": 0.05,  
      "entitlementCount": 2  
    },  
    {  
      "start": 0.06,  
      "end": 0.1,  
      "entitlementCount": 14  
    }  
  ]  
}
```

## GET /api/companyview/mostCriticalEntitlements

Get the most critical entitlements list. [Executive, Admin]

Endpoint

```
/api/companyview/mostCriticalEntitlements
```

Authorization

```
<Bearer Token JWT-value>
```

Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/companyview/mostCriticalEntitlements"  
\  
-H "accept: application/json"
```

Example Response

```
[  
  {  
    "org": "organization",  
    "entt_id": "ent1",  
    "avg_conf_score": 0.04,  
    "entt_name": "Ent 1",  
    "high": 0,  
    "low": 1,  
    "medium": 0,  
    "seq": 0,  
    "total_employees": 6  
  },  
  {  
    "org": "organization",  
    "entt_id": "ent2",  
    "avg_conf_score": 0.04571,  
    "entt_name": "Ent 2",  
    "high": 0,  
    "low": 1,  
  }  
]
```

```
"medium": 0,  
"seq": 1,  
"total_employees": 7  
}  
]
```

### **GET /api/companyview/assignmentStats**

Get the total assignments, low/high confidence, high volume and low/high confidence, most assigned [Executive, Admin]

Endpoint

```
/api/companyview/assignmentsStats
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
assignmentLimit 1  
highVolumeHighMinScore 0.9  
highVolumentHighMinUsersCount 100  
highVolumenLowMaxScore 0.2  
highVolumeLowMinUsersCount 100
```

Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/companyview/assignmentsStats?  
assignmentsLimit=5" \  
-H "accept: application/json"
```

Example Response

```
{
  "total": 47670,
  "high": 13145,
  "low": 4992,
  "unscored": 4986,
  "mostAssigned": [
    {
      "count": 344,
      "entitlement": "ent1"
    }
  ],
  "mostAssignedCount": 35,
  "highVolume": {
    "high": 23,
    "low": 17
  }
}
```

#### **GET /api/companyview/assignmentHistConfSummary/{year}/{month}**

Get the number of high, medium, and low confidence assignments for the past 12-month period ending in a given year and month. [Executive, admin]

#### Endpoint

```
/api/companyview/assignmentsHistConfSummary/2020/01
```

#### Authorization

```
<Bearer Token JWT-value>
```

#### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/companyview/assignmentsHistConfSummar  
y/2020/1" \  
-H "accept: application/json"
```

### Example Response

```
[
  {
    "year": 0,
    "month": 0,
    "highConf": 0,
    "medConf": 0,
    "lowConf": 0,
    "total": 0
  }
]
```

## Single View with Application

### NOTE

This endpoint has been deprecated in this release and will be removed in a future release.

The following is an Autonomous Identity single view with applications endpoint:

### *POST employees*

#### Endpoint

```
/api/singleViewWithApp/employees
```

#### Authorization

```
<Bearer Token JWT-value>
```

#### Body

```
{
  "employeeId": "elizabeth.saiz",
  "includeLastAccessed": true,
}
```

```
    "pageSize": 5
  }
```

#### NOTE

You can also specify string values for the request data types:

```
{
  "employeeId": "elizabeth.saiz",
  "includeLastAccessed": "true",
  "pageSize": "5"
}
```

#### Example Request

```
curl --location --request POST
'/api/singleViewWithApp/employees' \
--header 'Content-Type: application/json' \
--data-raw '{
  "employeeId": "elizabeth.saiz",
  "includeLastAccessed": "true",
  "pageSize": "5"
}
```

#### Example Response

```
{
  "high": 0,
  "medium": 1,
  "low": 1,
  "avg_score": 0.25,
  "app_name": "",
  "app_id": "",
  "entitlement_name": "",
  "high_risk": null,
  "userEntt": [
    {
      "user": "elizabeth.saiz",
      "entitlement": "192aed21-a7d1-40c3-87a3-9dfa4a3d21f5",
    }
  ]
}
```



```

    "app_id": "null",
    "app_name": "test3",
    "entitlement_name": "null",
    "freq": null,
    "frequnion": null,
    "high_risk": "null",
    "justification": [],
    "score": 0.1,
    "user_name": "alpha"
  },
  {
    "user": "elizabeth.saiz",
    "entitlement": "36bad416-d42c-47c2-991e-623aa3833028",
    "app_id": "null",
    "app_name": "test6",
    "entitlement_name": "null",
    "freq": null,
    "frequnion": null,
    "high_risk": "null",
    "justification": [],
    "score": 0.4,
    "user_name": "vce"
  }
],
"user": "elizabeth.saiz",
"entitlementsCount": 14,
"entitlementsRemainingCount": 10,
"lastEntitlementId": "36bad416-d42c-47c2-991e-623aa3833028"
}

```

## User Details

The following are Autonomous Identity user details endpoints:

### **POST /api/userDetails**

Get employee details for Identities views. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

**/api/userDetails**

Authorization

**<Bearer Token JWT-value>**

Headers

**Content-Type          application/json**

Body

```
{
  "employeeId": "john.doe",
  "sortDir": "asc, desc",
  "lastEntitlementId": "Web_NAS_Share_Case Management_7HQ",
  "lastRecommendedEnttId": "string"
}
```

Example Request

```
curl -X POST "https://autoid-
api.forgerock.com/api/userDetails" \
-H "accept: application/json" -H "Content-Type:
application/json" \
--data-raw '{
  "employeeId": "john.doe",
  "sortDir": "asc, desc",
  "lastEntitlementId": "Web_NAS_Share_Case
Management_7HQ",
  "lastRecommendedEnttId": "string"
}'
```

Example Response

```

{
  "recommendedEntt": {
    "predictions": [
      {
        "usr_key": "john.doe",
        "ent": "ent1",
        "conf": "0.88",
        "freq": "10.0",
        "frequion": "9",
        "rule": [
          {
            "title": "Chief",
            "value": "Yes"
          },
          {
            "title": "Employee Type",
            "value": "Employee"
          }
        ],
        "entt": {
          "entitlement": "Ent 1",
          "app_id": "app1",
          "role": "role.owner",
          "app_name": "App 1",
          "entitlement_name": "Ent 1",
          "high_risk": "High",
          "roleOwnerDisplayName": "Role Owner",
          "requestorCanAccess": false
        }
      },
      {
        "usr_key": "john.doe",
        "ent": "ent2",
        "conf": "1.00",
        "freq": "4.0",
        "frequion": "4",
        "rule": [
          {
            "title": "Job Code Name",
            "value": "Business Representative"
          },
          {
            "title": "Line of Business",
            "value": "Portfolio Management"
          }
        ],
      },
    ]
  }
}

```

```

        {
            "title": "Department",
            "value": " South"
        },
        {
            "title": "Employee Type",
            "value": "Employee"
        }
    ],
    "entt": {
        "entitlement": "ent2",
        "app_id": "app1",
        "role": "role.owner",
        "app_name": "App 1",
        "entitlement_name": "Ent 2",
        "high_risk": "High",
        "roleOwnerDisplayName": "Role Owner",
        "requestorCanAccess": true
    }
},
"entitlementsCount": 14,
"entitlementsRemainingCount": 9,
"lastEntitlementId": "ent2"
},
"userEntt": [
    {
        "user": "john.doe",
        "entitlement": "ent3",
        "app_id": "app1",
        "app_name": "App 1",
        "entitlement_name": "Ent 3",
        "freq": "10.0",
        "frequnion": "9",
        "high_risk": "High",
        "justification": [
            {
                "title": "Chief",
                "value": "Yes"
            },
            {
                "title": "Employee Type",
                "value": "Employee"
            }
        ]
    }
],

```

```

"score": 0.88,
"user_name": "John Doe",
"lastAccessed": "2020-01-01 00:00:00",
"requestorCanAccess": false,
"rawJustification": [
  "CHIEF_YES_NO_Yes",
  "USR_EMP_TYPE_Employee"
]
},
{
"user": "john.doe",
"entitlement": "ent4",
"app_id": "app1",
"app_name": "App 1",
"entitlement_name": "Ent 4",
"freq": "4.0",
"frequion": "4",
"high_risk": "High",
"justification": [
  {
    "title": "Job Code Name",
    "value": "Business Representitive"
  },
  {
    "title": "Line of Business",
    "value": "Portfolio Management"
  },
  {
    "title": "Department",
    "value": " South"
  },
  {
    "title": "Employee Type",
    "value": "Employee"
  }
],
"score": 1,
"user_name": "John Doe",
"lastAccessed": "2020-01-01 00:00:00",
"requestorCanAccess": false,
"rawJustification": [
  "JOB_CODE_NAME_Business Representitive",
  "LINE_OF_BUSINESS_Portfolio Management",
  "USR_DEPARTMENT_NAME_Customer Operations_ South",
  "USR_EMP_TYPE_Employee"
]
}

```

```

    ]
  }
],
"user": {
  "displayName": "John Doe",
  "hrData": [
    {
      "title": "Job Code Name",
      "id": "JOB CODENAME",
      "value": "Business Representative"
    },
    {
      "title": "Line of Business",
      "id": "LINE OF BUSINESS",
      "value": "Portfolio Management"
    },
    {
      "title": "Department",
      "id": "DEPARTMENT",
      "value": " South"
    },
    {
      "title": "Employee Type",
      "id": "EMPLOYEE TYPE",
      "value": "Employee"
    }
  ]
},
"entitlementsCount": 2,
"entitlementsRemainingCount": 9,
"lastEntitlementId": "ent4"
}

```

### **POST /api/userDetails/hrData**

Get a user's HR data. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

**/api/userDetails/hrData**

Authorization

<Bearer Token JWT-value>

#### Headers

**Content-Type**      **application/json**

#### Body

```
{
  "employeeId": "john.doe"
}
```

#### Example Request

```
curl -X POST "https://autoid-
api.forgerock.com/api/userDetails/hrData" \
-H "accept: application/json" -H "Content-Type:
application/json" \
--data-raw '{
                "employeeId": "john.doe"
            }'
```

#### Example Response

```
{
  "user": [
    {
      "id": "USER_NAME",
      "title": "User Name",
      "value": "john.doe"
    },
    {
      "id": "CHIEF",
      "title": "Chief",
      "value": "Yes"
    },
    {
```

```
    "id": "CITY",
    "title": "City",
    "value": "Toledo"
  },
  {
    "id": "USER_DISPLAY_NAME",
    "title": "User Display Name",
    "value": "John Doe"
  },
  {
    "id": "EMPLOYEE_TYPE",
    "title": "Employee Type",
    "value": "Employee"
  },
  {
    "id": "MANAGER",
    "title": "Manager",
    "value": "the.manager"
  }
],
"displayName": "John Doe"
}
```

### **POST /api/userDetails/search**

Search for users by name and with applied filters. [Executive, Supervisor, App Owner, Admin]

Endpoint

```
/api/userDetails/search
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

```
Content-Type      application/json
```



### Body

```
{
  "username": "john.doe"
}
```

### Example Request

```
curl -X POST "https://autoid-
api.forgerock.com/api/userDetails/search" \
-H "accept: application/json" -H "Content-Type:
application/json" \
--data-raw '{
  "username": "john.doe"
}'
```

### Example Response

```
{
  "values": [
    {
      "user": "john.doe",
      "isapplicationowner": "false",
      "isentitlementowner": "false",
      "issupervisor": "false",
      "userdisplayname": "John Doe"
    }
  ]
}
```

### ***POST /api/userDetails/ent/autoprovision***

Get user's entitlements for autoprovisioning. [Admin]

### Endpoint

```
/api/userDetails/ent/autoprovision
```

## Authorization

```
<Bearer Token JWT-value>
```

## Headers

```
Content-Type    application/json
```

## Body

```
{  
  "user": "john.doe"  
}
```

## Example Request

```
curl -X POST "https://autoid-  
api.forgerock.com/api/userDetails/ent/autoprovision" \  
-H "accept: application/json" -H "Content-Type:  
application/json" \  
--data-raw '{  
    "user": "john.doe"  
}'
```

## Example Response

```
{  
  "usr_id": "string",  
  "usr_name": "string",  
  "ents": [  
    {  
      "ent_id": "string",  
      "ent_name": "string",  
      "ent_attribute": "string",  
      "ent_risk_level": "string",  
      "score": 0,  
      "freq": 0,  
    }  
  ]  
}
```

```
    "frequion": 0,
    "justification": [
      {
        "title": "string",
        "value": "string"
      }
    ],
    "app_id": "string",
    "app_name": "string"
  }
],
"cursor": "string"
}
```

No links

### **POST /api/userDetails/autoAction**

Get the list of entitlements for a user or list of users for an entitlement to provision, revoke, or certify. [Admin]

Endpoint

```
/api/userDetails/autoAction
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

```
Content-Type      application/json
```

Body

```
{
  "action": "addAccess",
  "usrId": "john.doe",
  "entId": "entitlement_1",
```

```
"thresholds": {
  "gte": 0,
  "gt": 0,
  "lte": 0,
  "lt": 0
},
"cursor": "string"
}
```

#### Example Request

```
curl -X POST "https://autoid-
api.forgerock.com/api/userDetails/autoAction" \
-H "accept: application/json" -H "Content-Type:
application/json" \
--data-raw '{
  "action": "addAccess",
  "usrId": "john.doe",
  "entId": "entitlement_1",
  "thresholds": {
    "gte": 0,
    "gt": 0,
    "lte": 0,
    "lt": 0
  },
  "cursor": "string"
}'
```

#### **GET /api/userDetails/drivingFactor**

Get the driving factor data. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/userDetails/drivingFactor
```

Authorization

```
<Bearer Token JWT-value>
```

## Headers

```
Content-Type    application/json
```

## Params

```
{  
  "entitlement": "entitlement1"  
}
```

## Example Request

```
curl -X POST "https://autoid-  
api.forgerock.com/api/userDetails/drivingFactor" \  
-H "accept: application/json" -H "Content-Type:  
application/json" \  
--data-raw '{  
    "entitlement": "entitlement1"  
}'
```

## Example Request

```
[  
  {  
    "ent": "ent1",  
    "attribute": {  
      "title": "Chief",  
      "value": "No"  
    },  
    "count": 3,  
    "rawAttribute": "CHIEF_YES_NO_No"  
  },  
  {  
    "ent": "ent1",  
    "attribute": {  
      "title": "City",  
      "value": "Tacoma"  
    },  
    "count": 5,  
  }  
]
```

```
    "rawAttribute": "CITY_Tacoma"  
  }  
]
```

## Access Control

---

The following are Autonomous Identity access control endpoints:

### **GET /api/userDetails/decisions**

Get the current entitlement decisions for the user. [Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/userDetails/decisions
```

Authorization

```
<Bearer Token JWT-value>
```

Param

```
user=john.doe
```

Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/userDetails/decisions?user=john.doe"  
\  
-H "accept: application/json"
```

Example Response

```
{
  "decisions": [
    {
      "entitlement": "string",
      "is_certified": true,
      "is_revoked": true,
      "is_processed": true,
      "is_archived": true,
      "author": "string",
      "author_name": "string",
      "author_type": "string",
      "reason": "string",
      "last_updated": "2021-04-14T18:45:46.916Z"
    }
  ]
}
```

### **POST /api/userDetails/decisions**

Update entitlement decisions for users. [Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/userDetails/decisions
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{
  "assignments": [
    {
      "user": "string",
      "entitlements": [
        "string"
      ]
    }
  ],
}
```

```
"is_certified": true,
"is_revoked": true,
"is_requested": true,
"is_processed": true,
"reason": "string"
}
```

#### Example Request

```
curl -X POST "https://autoid-
api.forgerock.com/api/userDetails/decisions" \
-H "accept: /" -H "Content-Type: application/json" \
--data-raw '{
  "assignments": [
    {
      "user": "string",
      "entitlements": [
        "string"
      ]
    }
  ],
  "is_certified": true,
  "is_revoked": true,
  "is_requested": true,
  "is_processed": true,
  "reason": "string"
}'
```

#### **POST /api/rules/decision**

Update rule decisions. [Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/rules/decision
```

Authorization

```
<Bearer Token JWT-value>
```



## Body

```
{
  "rules": [
    {
      "entitlement": "string",
      "justification": [
        "string"
      ]
    }
  ],
  "is_autocertify": true,
  "is_autorequest": true,
  "autocertify_reason": "string",
  "autorequest_reason": "string"
}
```

## Example Request

```
curl -X POST "https://autoid-
api.forgerock.com/api/rules/decision" \
-H "accept: /" -H "Content-Type: application/json" \
--data-raw '{
  "rules": [
    {
      "entitlement": "string",
      "justification": [
        "string"
      ]
    }
  ],
  "is_autocertify": true,
  "is_autorequest": true,
  "autocertify_reason": "string",
  "autorequest_reason": "string"
}'
```

## Applications

---

The following are Autonomous Identity applications view endpoints:

## GET /api/applications

Get a list of applications and stats for an Application Owner. [App Owner, Admin]

### Endpoint

```
/api/applications
```

### Authorization

```
<Bearer Token JWT-value>
```

### Params

```
ownerId (optional)  derick.hui  
cursor (optional)  string (Indicator on where to start a  
2+ page list)
```

### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/applications?ownerId=derick.hui" \  
-H "accept: application/json"
```

### Example Response

```
{  
  "cursor": "string",  
  "total_applications": 0,  
  "total_entitlements": 0,  
  "total_assignments": 0,  
  "applications": [  
    {  
      "app_id": "string",  
      "app_name": "string",  
      "high": 0,  
      "medium": 0,  
      "low": 0,  
    }  
  ]  
}
```

```
    "avg": 0
  }
]
}
```

### **POST /api/applications/{appId}**

Get a list of entitlements and stats for a selected application. [App Owner, Admin]

#### Endpoint

```
/api/applications/{appId}
```

#### Authorization

```
<Bearer Token JWT-value>
```

#### Params

```
appId (required)    app_1
cursor (optional)  string (Indicator on where to start a
2+ page list)
```

#### Body

```
{
  "filters": [
    {
      "type": "user",
      "attribute": "city",
      "value": ["Seattle", "Denver"]
    },
    {
      "type": "user",
      "attribute": "line_of_business",
      "value": ["Distribution Operations"]
    }
  ]
}
```

### Example Request

```
curl -X POST "https://autoid-  
api.forgerock.com/api/applications/app_1" \  
-H "accept: application/json" -H "Content-Type:  
application/json" \  
--data-raw '{  
  "filters": [  
    {  
      "type": "user",  
      "attribute": "city",  
      "value": ["Seattle", "Denver"]  
    },  
    {  
      "type": "user",  
      "attribute": "line_of_business",  
      "value": ["Distribution Operations"]  
    }  
  ]  
'
```

### Example Response

```
{  
  "cursor": "string",  
  "total_entitlements": 0,  
  "total_users": 0,  
  "total_rules": 0,  
  "entitlements": [  
    {  
      "ent": "string",  
      "ent_name": "string",  
      "high": 0,  
      "medium": 0,  
      "low": 0,  
      "avg": 0  
    }  
  ]  
}
```

## **POST /api/applications/{appId}/assignments**

Get filterable user-entitlement assignment and decision data for a specific application.

[App Owner, Admin]

### Endpoint

```
api/applications/{appId}/assignments
```

### Authorization

```
<Bearer Token JWT-value>
```

### Params

appId (required)	app_1
user	string
cursor (optional)	string (Indicator on where to start a 2+ page list)
sortBy	string
sortDir	string

### Body

```
{
  "filters": [
    {
      "type": "user",
      "attribute": "city",
      "value": [
        "Seattle",
        "Denver"
      ]
    },
    {
      "type": "user",
      "attribute": "line_of_business",
      "value": [
        "Distribution Operations"
      ]
    }
  ]
}
```

```
    }  
  ]  
}
```

#### Example Request

```
curl -X POST "https://autoid-  
api.forgerock.com/api/applications/app_1/assignments" \  
-H "accept: application/json" -H "Content-Type:  
application/json" \  
--data-raw '{  
  "filters": [  
    {  
      "type": "user",  
      "attribute": "city",  
      "value": [  
        "Seattle",  
        "Denver"  
      ]  
    },  
    {  
      "type": "user",  
      "attribute": "line_of_business",  
      "value": [  
        "Distribution Operations"  
      ]  
    }  
  ]  
'
```

#### Example Response

```
{  
  "cursor": "string",  
  "total_users": 0,  
  "total_entitlements": 0,  
  "total_assignments": 0,  
  "assignments": [  
    {  
      "ent": "string",  
      "ent_name": "string",
```

```
    "confidence": 0,
    "user_id": "string",
    "user_name": "string",
    "isCertified": true,
    "dateCertified": "2021-04-14T19:10:39.178Z",
    "isRevoked": true,
    "dateRevoked": "2021-04-14T19:10:39.178Z",
    "isRequested": true,
    "dateRequested": "2021-04-14T19:10:39.178Z",
    "isProcessed": true,
    "approvalAuthor": {
      "id": "string",
      "name": "string"
    }
  }
]
}
```

### **GET /api/applications/search**

Search all applications. [App Owner, Admin]

Endpoint

```
/api/applications/search
```

Authorization

```
<Bearer Token JWT-value>
```

Params

by	appOwner or enttOwner
user	user ID
q	Search query string

Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/applications/search" \  
-H "accept: application/json"
```

#### Example Response

```
{  
  "values": [  
    {  
      "app_id": "string",  
      "app_name": "string"  
    }  
  ]  
}
```

## Entitlements

---

The following are Autonomous Identity filtering by entitlements endpoints:

### ***GET /api/entitlements/search***

Search for entitlements by name and with applied filters. [Ent Owner, App Owner, Admin]

#### Endpoint

```
/api/entitlements/search?q=QueryString
```

#### Authorization

```
<Bearer Token JWT-value>
```

#### Params

```
by      appOwner or enttOwner  
user    user ID
```



q Search query string (required)  
appId Application ID to use as a filter

#### Example Request

```
curl --location --request GET 'https://autoid-api.forgerock.com/api/entitlements/search?by=enttOwner&user=john.doe&q=WEB&appId=Salesforce' \
--header 'Content-Type: application/json'
```

#### Example Response

```
{
  "values": [
    {
      "id": "string",
      "app_id": "string",
      "app_name": "string",
      "entt_name": "string"
    }
  ]
}
```

### **POST /api/entitlements/stats**

Get data for entitlements view. [Supervisor, Ent Owner, Admin]

#### Endpoint

```
/api/entitlements/stats?  
by=supervisor/entitlementOwner/admin
```

#### Authorization

```
<Bearer Token JWT-value>
```

#### Params

```
by      supervisor, roleOwner
```

### Body

```
{
  "ownerId": "timothy.slack",
  "isHighRiskOnly": true,
  "isMediumLowRiskOnly": false,
  "isUserEntitlementsIncluded": true,
  "filters": [{
    "type": "app_id",
    "group": "criticality",
    "value": "Essential"
  }]
}
```

### Example Request

```
curl --location --request POST 'https://autoid-
api.forgerock.com/api/entitlements/stats?by=supervisor' \
--header 'content-type: application/json' \
--data-raw '{
  "ownerId": "timothy.slack",
  "isHighRiskOnly": true,
  "isMediumLowRiskOnly": false,
  "isUserEntitlementsIncluded": true,
  "filters": [{
    "type": "app_id",
    "group": "criticality",
    "value": "Essential"
  }]
}'
```

### Example Response

```
{
  "total_entitlements": 0,
  "total_subordinates": 0,
  "unscoredEntitlements": 0,
```

```

"scoredEntitlements": 0,
"usersWithNoEntitlement": 0,
"usersWithNoScoredEntitlement": 0,
"distinct_apps": [
  {
    "app_id": "string",
    "app_name": "string",
    "low": 0,
    "medium": 0,
    "high": 0
  }
],
"users": [
  {
    "user": "string",
    "user_name": "string",
    "high": 0,
    "medium": 0,
    "low": 0,
    "avg": "string"
  }
],
"entitlements": [
  {
    "entitlement": "string",
    "entitlement_name": "string",
    "app_id": "string",
    "high_risk": "string",
    "high": 0,
    "medium": 0,
    "low": 0,
    "avg": "string"
  }
]
}

```

### **GET /api/entitlements/{id}**

Get entitlement details. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/entitlements/{id}
```

## Authorization

```
<Bearer Token JWT-value>
```

## Params

```
by      entitlement ID
```

## Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/entitlements/1234" \  
-H "accept: application/json"
```

## Example Response

```
{  
  "entitlement_name": "string",  
  "scores": {  
    "avg": 0,  
    "high": 0,  
    "medium": 0,  
    "low": 0  
  },  
  "drivingFactors": [  
    {  
      "attribute": {  
        "id": "string",  
        "title": "string",  
        "value": "string"  
      },  
      "count": 0  
    }  
  ],  
  "userScores": [  
    {  
      "score": 0,  
      "count": 0  
    }  
  ]  
}
```

```

    }
  ],
  "users": [
    {
      "user": "string",
      "user_name": "string",
      "app_id": "string",
      "freq": 0,
      "frequion": 0,
      "justification": [
        {
          "title": "string",
          "value": "string"
        }
      ],
      "rawJustification": [
        "string"
      ],
      "score": 0
    }
  ]
}

```

### **GET /api/entitlements/unscored**

Get unscored entitlements and users for a given Supervisor or Entitlement Owner ID.  
[Supervisor, Ent Owner, Admin]

Endpoint

```
/api/entitlements/unscored
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```

by      supervisor, entitlement owner
user    supervisor or entitlement owner user ID

```

### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/entitlements/unscored?  
by=supervisor&user=1234" \  
-H "accept: application/json"
```

## Rules

The following are Autonomous Identity rules endpoints:

### **GET Rule Stats**

List information and statistics regarding available rules. [Ent Owner, App Owner, Admin]

### Endpoint

```
/api/rules/info
```

### Authorization

```
<Bearer Token JWT-value>
```

### Params

```
by      enttowner, appOwner  
user    patrick.murphy
```

### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/rules/info?  
by=appOwner&user=patrick.murphy" \  
-H "accept: application/json"
```

### Example Response

```
{
  "countRules": 0,
  "countAssignments": 0,
  "countApplications": 0,
  "applications": [
    {
      "app_id": "string",
      "app_name": "string",
      "countAssignments": 0,
      "low": 0,
      "medium": 0,
      "high": 0
    }
  ]
}
```

### **GET /api/rules**

List the available rules for a user. [Ento Owner, App Owner, Admin]

#### Endpoint

```
/api/rules/
```

#### Authorization

```
<Bearer Token JWT-value>
```

#### Params

```
by          enttOwner, appOwner
user        david.elliott
cursor      (indicator on where to start a 2+ page list)
filter      (filters to apply when searching)
pageSize    (number of records per page to retrieve)
```

## Example Request

```
curl -X GET
"lowConfidence=true&filter[medConfidence]=true&filter[highC
onfidence]=true&filter[autoCertify]=true&filter[autoRequest
]=true&filter[entitlement]=string" \
-H "accept: application/json"
```

## Example Response

```
{
  "cursor": "string",
  "rules": [
    {
      "entitlement": {
        "owner": "string",
        "ent": "string",
        "ent_name": "string"
      },
      "app": {
        "app_id": "string",
        "app_name": "string",
        "ent": "string"
      },
      "justification": [
        {
          "id": "string",
          "title": "string",
          "value": "string"
        }
      ],
      "assignees": [
        {
          "id": "string",
          "name": "string",
          "properties": [
            {
              "id": "string",
              "title": "string",
              "value": "string"
            }
          ]
        }
      ],
      "last_usage": "2021-04-14T19:40:27.740Z"
```



```

    }
  ],
  "confidence": 0,
  "countUnassigned": 0,
  "countAssigned": 0,
  "isAutoCertify": true,
  "autoCertifyDate": "2021-04-14T19:40:27.740Z",
  "isAutoRequest": true,
  "autoRequestDate": "2021-04-14T19:40:27.740Z",
  "approvalAuthor": {
    "id": "string",
    "name": "string"
  },
  "requestApprovalReason": "string",
  "certifyApprovalReason": "string"
}
]
}

```

## Filters

The following are Autonomous Identity Filters endpoints:

### **GET /api/filters/owner**

Get filterable attributes and values. [Supervisor, Ent Owner, Admin]

Endpoint

```
/api/filters/owner?by=supervisor&user=albert.pardini
```

Authorization

```
<Bearer Token JWT-value>
```

Query Parameters

```
by      supervisor, enttOwner
user    albert.pardini
```

### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/filters/owner?  
by=supervisor&user=albert.pardini" \  
-H "accept: application/json"
```

### Example Response

```
{  
  "items": [  
    {  
      "title": "string",  
      "field": "string",  
      "filters": {  
        "field": "string",  
        "title": "string",  
        "options": [  
          {  
            "text": "string",  
            "value": "string",  
            "count": 0  
          }  
        ]  
      }  
    }  
  ]  
}
```

### ***GET /api/filters/app***

Get filterable attributes and values. [App Owner, Admin]

### Endpoint

```
/api/filters/app
```

### Authorization

<Bearer Token JWT-value>

#### Query Parameters



id: application ID

#### Example Request

```
curl -X GET "https://autoid-  
api.forgerock.com/api/filters/app?id=app_1" \  
-H "accept: application/json"
```

#### Example Response

```
{  
  "items": [  
    {  
      "title": "string",  
      "field": "string",  
      "filters": {  
        "field": "string",  
        "title": "string",  
        "options": [  
          {  
            "text": "string",  
            "value": "string",  
            "count": 0  
          }  
        ]  
      }  
    }  
  ]  
}
```

Was this helpful?  

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