



Avocent[®] ADX Ecosystem

API Guide

For the Avocent[®] ADX Management Platform and Avocent[®] ADX Rack Manager

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1 Overview

The Vertiv Avocent ADX Platform RESTful API provides access to resources and functionality of the Vertiv Avocent ADX MP1000 Management Platform and the Vertiv Avocent ADX RM1048P Rack Manager. Unless noted otherwise, the APIs are applicable for both the management platform and the rack manager. The APIs support full Create, Read, Update and Delete (CRUD) operations on resources. Additional features include, pagination through query results, localization of messages, projections to control the level of detail in the response, sorting, and predefined queries.

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2 Session Management

2.1 Login with Password

POST /api/v1/userSessions

Description

This API is used to create a new user session by authenticating with the management platform or rack manager with a username and password. This API must be called before using any other APIs. The jwt value returned by this API can be used as the Bearer token in subsequent API requests.

Table 2.1 Parameters

Type	Name	Schema
Body	body required	UserCredentials

Table 2.2 Responses

HTTP Code	Description	Schema
201	Returned when the user session is successfully created.	CreateUserSessionResponse

Example HTTP request

Request path

```
/api/v1/userSessions
```

Request body

```
{
  "username" : "johndoe",
  "password" : "MyPassword123"
}
```

Example HTTP response

Response 201

```
{
  "usersession" : {
    "name" : "usersessions/f60de69e-0568-4b16-862d-7c1013f3931e",
    "id" : "f60de69e-0568-4b16-862d-7c1013f3931e",
  }
}
```

```

"username" : "admin",
"parent_id" : "",
"start_time" : "2021-06-05T01:07:32Z",
"token_time" : "2021-06-05T01:07:32Z",
"previous_login_details" : {
"last_login_time" : "2021-06-04T15:02:39Z",
"location" : "127.0.0.1"
},
"location" : "127.0.0.1",
"auth_provider_id" : "357bf0c3-d358-46e0-ac32-d978b55d2887",
"auth_provider_name" : "ADX Local Users",
"auth_provider_type" : "AT_LOCAL",
"fullname" : "Sys Admin"
},
"jwt" : "eyJhbGciOiJIUzI1NiIuIiwiaWF0IjoiMjAyMS02LTA5VjAxOjA3OjMzZS00MD00c175c0d20375297797c59cfae",
"refresh_token" : "085138f867c40d0c175c0d20375297797c59cfae",
"new_password_required" : false,
"days_until_password_expires" : 0
}

```

2.1.1 User Credentials

A message containing a username and password that is used for authentication.

Table 2.3 Parameters

Name	Description	Schema
password optional	Example: "string"	string
username optional	Example: "string"	string

2.1.2 CreateUserSessionResponse

The response message for CreateUserSessionRequest containing information about the user session that was created.

Table 2.4 Parameters

Name	Description	Schema
days_until_password_expires optional	When authenticated with provider_type PT_LOCAL, and user has password_expire_time, days until then. Example : 0	integer(int64)
jwt optional	The initial JSON Web Token for the new session, which contains "claims". Example : "string"	string
new_password_required optional	User is authenticated, but UI may signal password change if true. Example : true	boolean
refresh_token optional	Example : "string"	string
usersession optional	The user session information. Example : "UserSession"	UserSession

2.1.3 UserSession

Table 2.5 Parameters

Name	Description	Schema
auth_provider_id optional read-only	Example : "string"	string
auth_provider_name optional read-only	Example : "string"	string
auth_provider_type optional	Example : "AuthenticationType"	AuthenticationType
fullname optional read-only	Example : "string"	string
id optional read-only	Example : "string"	string
location optional read-only	Example : "string"	string
name optional read-only	Example : "string"	string
parent_id optional read-only	Example : "string"	string
previous_login_details optional	Example : "PreviousLoginDetails"	PreviousLoginDetails
start_time optional read-only	Example : "string"	string(date-time)
token_time optional read-only	Example : "string"	string(date-time)
username optional read-only	Example : "string"	string

Authentication Type

Type : enum (RT_UNSPECIFIED, AT_LOCAL, AT_EXTERNAL)

PreviousLoginDetails

PreviousLoginDetails contains details for a user's last login details for both local and external provider.

Table 2.6 Parameters

Name	Description	Schema
last_login_time optional	Example : "string"	string(date-time)
location optional	Example : "string"	string

2.2 End (log out) a User Session

Figure 2.1 Description

This API is used to end (log out) a user session. After this log-out command is completed, the JWT session token created during login is no longer valid and any API request that uses that token will return not authorized.

Table 2.7 Parameters

Type	Name	Description	Schema
Path	id required	The id of the usersession to end (logout).	string

Table 2.8 Responses

HTTP Code	Description	Schema
204	Returned when the user session is successfully logged out.	No Content

Example HTTP request

Request path

```
/api/v1/userSessions/string
```

2.3 Kill (terminate) a User Session by Admin

```
POST /api/v1/userSessions/{id}:terminate
```

Table 2.9 Parameters

Type	Name	Description	Schema
Path	id required	The id of the usersession to end (logout).	string

Table 2.10 Responses

HTTP Code	Description	Schema
200	A successful response.	object

Example HTTP request

Request path

```
/api/v1/userSessions/string:terminate
```

Example HTTP response

Response 200

```
"object"
```

2.4 List the Active Authenticated User Sessions

```
GET /api/v1/userSessions
```

Table 2.11 Parameters

Type	Name	Description	Schema
Query	filter optional	Any Filter options (currently unsupported).	string
Query	order_by optional	The field to sort by (currently unsupported).	string
Query	page_size optional	The page size for the response.	integer(int32)
Query	page_token optional	The starting page token; if empty, the beginning page.	string

Table 2.12 Responses

HTTP Code	Description	Schema
200	A successful response.	ListUserSessionsResponse

Example HTTP request

Request path

```
/api/v1/userSessions
```

Request query

```
{
  "filter" : "string",
  "order_by" : "string",
  "page_size" : 0,
```

```
"page_token" : "string"
}
```

Example HTTP response

Response 200

```
{
  "user_sessions" : [ {
    "name" : "string",
    "id" : "string",
    "username" : "string",
    "parent_id" : "string",
    "start_time" : "string",
    "token_time" : "string",
    "previous_login_details" : {
      "last_login_time" : "string",
      "location" : "string"
    },
    "location" : "string",
    "auth_provider_id" : "string",
    "auth_provider_name" : "string",
    "auth_provider_type" : { },
    "fullname" : "string"
  } ],
  "next_page_token" : "string",
  "total_size" : 0
}
```

2.4.1 ListUserSessionResponse

ListUserSessionsResponse returns a list of user sessions.

Table 2.13 Parameters

Name	Description	Schema
next_page_token optional	Example : "string"	string
total_size optional	Example : 0	integer(int32)
user_sessions optional	Example : ["UserSession"]	< UserSession > array

2.5 Create a User Session with a Ticket

```
POST /api/v1/userSessions:createSessionByTicket
```

Table 2.14 Parameters

Type	Name	Schema
Body	body required	TicketCredentials

Table 2.15 Responses

HTTP Code	Description	Schema
200	A successful response.	CreateUserSessionResponse

Example HTTP request

Request path

```
/api/v1/userSessions:createSessionByTicket
```

Request body

```
{
  "ticket" : "31cb7e889e94c191b32d5b5b55f19fdd33d395a2"
}
```

Example HTTP response

Response 200

```
{
  "usersession" : {
    "name" : "usersessions/f60de69e-0568-4b16-862d-7c1013f3931e",
    "id" : "f60de69e-0568-4b16-862d-7c1013f3931e",
    "username" : "admin",
    "parent_id" : "",
    "start_time" : "2021-06-05T01:07:32Z",
    "token_time" : "2021-06-05T01:07:32Z",
    "previous_login_details" : {
      "last_login_time" : "2021-06-04T15:02:39Z",
      "location" : "127.0.0.1"
    },
    "location" : "127.0.0.1",
    "auth_provider_id" : "357bf0c3-d358-46e0-ac32-d978b55d2887",
    "auth_provider_name" : "ADX Local Users",
    "auth_provider_type" : "AT_LOCAL",
    "fullname" : "Sys Admin"
  },
  "jwt" : "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXLTJzaG90BETA_s0xw",
  "refresh_token" : "085138f867c40d0c175c0d20375297797c59cfae",
  "new_password_required" : false,
  "days_until_password_expires" : 0
}
```

2.5.1 TicketCredentials

A message containing a ticket that is used for authentication.

Table 2.16 Parameters

Name	Description	Schema
ticket optional	Example: "string"	string

2.6 Issue a Ticket for a Child User Session

```
POST /api/v1/userSessions/{id}:createTicket
```

Table 2.17 Parameters

Type	Name	Description	Schema
Path	id required	The id of the usersession requesting the ticket	string
Body	body required	User session ticket data	UserSessionTicketData

Table 2.18 Responses

HTTP Code	Description	Schema
200	A successful response.	IssueUserSessionTicketResponse

Example HTTP request

Request path

```
/api/v1/userSessions/string:createTicket
```

Request body

```
{
  "secret" : "string"
}
Example HTTP response
Response 200
{
  "ticket" : "string"
}
```

2.6.1 UserSessionTicketData

Table 2.19 Parameters

Name	Description	Schema
secret optional	Example: "string"	string

2.6.2 IssueUserSessionTicketResponse

Table 2.20 Parameters

Name	Description	Schema
ticket optional	Example: "string"	string

2.7 Validate a User Session Token (JWT)

```
POST /api/v1/userSessions/{id}:validateToken
```

Table 2.21 Parameters

Type	Name	Description	Schema
Path	id required	The id of the usersession	string
Body	body required	The data to use for validate	ValidateData

Table 2.22 Responses

HTTP Code	Description	Schema
200	A successful response.	ValidateTokenResponse

Example HTTP request

Request path

```
/api/v1/userSessions/string:validateToken
```

Request body

```
{
  "jwt" : "string"
}
```

Example HTTP response

```

Response 200
{
  "validated" : true
}

```

2.7.1 ValidateData

ValidateData holds the items to validate a token.

Table 2.23 Parameters

Name	Description	Schema
jwt optional	Example: "string"	string

2.7.2 ValidateTokenResponse

ValidateTokenResponse is the response for validate usersession token request.

Table 2.24 Parameters

Name	Description	Schema
validated optional	Indication of whether the token is valid. Example : true	boolean

3 Platform Management Service

3.1 Service Root

```
GET /api/v1
```

Description

This is the main service entry point for the ADX management platform RESTful APIs and it can be accessed at /api/v1. This request returns basic information about the appliance and links to top level resources of the RESTful API.

Table 3.1 Responses

HTTP Code	Description	Schema
200	A successful response.	ServiceRoot

Example HTTP request

Request path

```
/api/v1
```

Example HTTP response

Response 200

```
{
  "api_version" : "v1",
  "chassis" : "/api/v1/chassis",
  "description" : "Platform Management Root Service",
  "managers" : "/api/v1/managers",
  "name" : "/api/v1",
  "product_name" : "ADX_MP1000",
  "uuid" : "4c4c4544-0058-4c10-8046-b9c04f363733",
  "vendor" : "Vertiv Corp.",
  "software_version" : "0.16.11",
  "firmware_version" : "3.0.19",
  "serial_number" : "9XLF673"
}
```

3.2 Service Root

A message that contains basic information and links to top level resources of ADX management platform RESTful API

Table 3.2 Parameters

Name	Description	Schema
api_version optional read-only	Example : "string"	string
chassis optional read-only	Example : "string"	string
description optional read-only	Example : "string"	string
firmware_version optional read-only	Example : "string"	string
id optional read-only	Example : "string"	string
links optional	Example : ["google.rpc.Help.Link"]	< google.rpc.Help.Link > array
managers optional read-only	Example : "string"	string
name optional read-only	Example : "string"	string
product optional read-only	Example : "string"	string
product_name optional read-only	Example : "string"	string
serial_number optional read-only	A manufacturer-allocated number that identifies the appliance. Example : "string"	string
software_version optional read-only	Example : "string"	string
uuid optional read-only	Example : "string"	string
vendor optional read-only	Example : "string"	string

4 Platform Management APIs

4.1 Get Information About the NAT Interface

```
GET /api/v1/managers/{manager_id}/natInterface
```

Table 4.1 Parameters

Type	Name	Description	Schema
Path	manager_id required	Manager ID	string

Table 4.2 Responses

HTTP Code	Description	Schema
200	A successful response.	GetNATInterfaceResponse

Example HTTP request

Request path

```
/api/v1/managers/string/natInterface
```

Example HTTP response

```
Response 200
{
  "routing_address" : "10.36.63.82",
  "routing_kvm_port" : 443
}
```

4.2 GetNatInterfaceResponse

Table 4.3 Parameters

Name	Description	Schema
routing_address optional	Example: "string"	string
routing_kvm_port optional	Example: 0	integer(int32)

4.3 List All the NAT Routes

```
GET /api/v1/managers/{manager_id}/natRoutes
```

Table 4.4 Parameters

Type	Name	Description	Schema
Path	manager_id required	Manager ID	string

Table 4.5 Responses

HTTP Code	Description	Schema
200	A successful response.	ListNATRoutesResponse

Example HTTP response

Response 200

```
{
  "nat_routes" : [ {
    "id" : "1",
    "name" : "/api/v1/managers/ADX_RM1048/natroutes/1",
    "source_ip" : "4.3.2.1",
    "local_port" : 88,
    "remote_ip" : "192.168.10.221",
    "remote_port" : 9321
  }, {
    "id" : "2",
    "name" : "/api/v1/managers/ADX_RM1048/natroutes/2",
    "source_ip" : "1.2.3.4",
    "local_port" : 88,
    "remote_ip" : "192.168.10.123",
    "remote_port" : 9123
  } ]
}
```

4.3.1 ListNATRoutesResponse**Table 4.6 Parameters**

Name	Description	Schema
nat_routes optional	Example: ["NATRoute"]	< NATRoute > array

4.3.2 NATRoute

The information about a single NAT route.

Table 4.7 Parameters

Name	Description	Schema
id optional	Example: "string"	string
local_port optional	Example: 0	integer(int32)
name optional	Example: "string"	string
nat_route_id optional	Example: "string"	string
remote_ip optional	Example: "string"	string
remote_port optional	Example: 0	integer(int32)
source_ip optional	Example: "string"	string

4.4 Create a New NAT Route

```
POST /api/v1/managers/{manager_id}/natRoutes
```

Table 4.8 Parameters

Type	Name	Description	Schema
Path	manager_id required	Manager ID	string
Body	body required		A request to create a NAT route

Table 4.9 Request to Create a NAT Route

Name	Description	Schema
local_port optional	Example: 0	integer(int32)
remote_ip optional	Example: "string"	string
remote_port optional	Example: 0	integer(int32)
source_ip optional	Example: "string"	string

Table 4.10 Responses

HTTP Code	Description	Schema
200	A successful response.	NATRoute

Example HTTP request

Request path

```
/api/v1/managers/string/natRoutes
```

Request body

```
{
  "id" : "1",
  "name" : "/api/v1/managers/ADX_RM1048/natroutes/1",
  "source_ip" : "4.3.2.1",
  "local_port" : 88,
  "remote_ip" : "192.168.10.221",
  "remote_port" : 9321
}
```

Example HTTP response

Response 200

```
{
  "id" : "string",
  "name" : "string",
  "source_ip" : "string",
  "local_port" : 0,
  "remote_ip" : "string",
  "remote_port" : 0,
  "nat_route_id" : "string"
}
```

4.5 Get an Individual NAT Route

```
GET /api/v1/managers/{manager_id}/natRoutes/{nat_route_id}
```

Table 4.11 Parameters

Type	Name	Description	Schema
Path	manager_id required	Manager ID	string
Path	nat_route_id required	The route id	string

Table 4.12 Responses

HTTP Code	Description	Schema
200	A successful response.	NATRoute

Example HTTP request

Request path

```
/api/v1/managers/string/natRoutes/string
```

Example HTTP response

Response 200

```
{
  "id" : "string",
  "name" : "string",
  "source_ip" : "string",
  "local_port" : 0,
  "remote_ip" : "string",
  "remote_port" : 0,
  "nat_route_id" : "string"
}
```

4.6 Remove an Existing NAT Route

```
DELETE /api/v1/managers/{manager_id}/natRoutes/{nat_route_id}
```

Table 4.13 Parameters

Type	Name	Description	Schema
Path	manager_id required	Manager ID	string
Path	nat_route_id required	The viewer's IP address	string

Table 4.14 Responses

HTTP Code	Description	Schema
200	A successful response.	object

Example HTTP request

Request path

```
/api/v1/managers/string/natRoutes/string
```

Example HTTP response

Response 200

```
"object"
```

4.7 ListPorts

```
GET /api/v1/managers/{manager_id}/ports
```

Table 4.15 Parameters

Type	Name	Description	Schema
Path	manager_id required	Manager ID	string
Query	filter optional	Filtering specification (field value).	string
Query	order_by optional	Order specification.	string
Query	page_size optional	Maximum number of items returned.	integer(int32)
Query	page_token optional	Desired page number (starts at 0).	string

Table 4.16 Responses

HTTP Code	Description	Schema
200	A successful response.	ListPortsResponse

Example HTTP request

Request path

```
/api/v1/managers/string/ports
```

Request query

```
{
  "filter" : "string",
  "order_by" : "string",
  "page_size" : 0,
  "page_token" : "string"
}
```

Example HTTP response

Response 200

```
{
  "ports" : [ {
    "id" : 3,
    "enabled" : true,
    "speed" : 1000,
    "poe_mode" : "PM_DISABLED",
```



```

    "poe_status" : "PS_DISABLED",
    "poe_fault" : "PF_NONE"
  }, {
    "id" : 1,
    "enabled" : true,
    "speed" : 1000,
    "poe_mode" : "PM_ENABLED",
    "poe_status" : "PS_SEARCHING",
    "poe_fault" : "PF_NONE"
  }, {
    "id" : 2,
    "enabled" : true,
    "speed" : 1000,
    "poe_mode" : "PM_ENABLED",
    "poe_status" : "PS_DELIVERING",
    "poe_fault" : "PF_NONE"
  } ],
  "next_page_token" : "",
  "total_size" : 48
}

```

4.7.1 ListsPortsResponse

Put the `next_page_token` value in the `page_token` field of your next `ListPortsRequest` in order to successively retrieve the next set of ports.

Table 4.17 Parameters

Name	Description	Schema
<code>next_page_token</code> optional	Example : "string"	string
<code>port</code> optional	Example : ["Port"]	< Port > array
<code>ports</code> optional	Example : ["Port"]	< Port > array
<code>total_size</code> optional	Example : 0	integer(int32)

4.7.2 Port

A message that contains information about a specific downstream port.

Table 4.18 Parameters

Name	Description	Schema
enabled optional	Example : true	boolean
id optional read-only	Example : 0	integer(int32)
name optional read-only	Example : "string"	string
poe_fault optional	Example : "PoeFault"	PoeFault
poe_mode optional	Example : "PoeMode"	PoeMode
poe_status optional	Example : "PoeStatus"	PoeStatus
port_id optional read-only	Example : 0	integer(int32)
speed optional	Example : 0	integer(int32)

4.7.3 PoeFault

Type : enum (POE_FAULT_UNSPECIFIED, POE_FAULT_NONE, POE_FAULT_OVERLOAD, POE_FAULT_NO_MPS, POE_FAULT_SHORT, POE_FAULT_POWER_DENY, POE_FAULT_OVERHEAT, POE_FAULT_FAIL_START, POE_FAULT_UNKNOWN)

4.7.4 PoeMode

- POE_MODE_UNSPECIFIED: Port mode is unknown
- POE_MODE_DISABLED: Port is disabled
- POE_MODE_ENABLED: Port is enabled

Type : enum (POE_MODE_UNSPECIFIED, POE_MODE_DISABLED, POE_MODE_ENABLED)

4.7.5 PoeStatus

- POE_STATUS_UNSPECIFIED: PoE port unknown status or not present
- POE_STATUS_UNKNOWN: PoE port unknown status or not present
- POE_STATUS_DISABLED: PoE port is disabled
- POE_STATUS_SEARCHING: PoE port is enabled but not connected
- POE_STATUS_DELIVERING: PoE port is enabled and connected
- POE_STATUS_TEST: PoE port is in test mode
- POE_STATUS_FAULT: PoE port encountered a fault

Type : enum (POE_STATUS_UNSPECIFIED, POE_STATUS_UNKNOWN, POE_STATUS_DISABLED, POE_STATUS_SEARCHING, POE_STATUS_DELIVERING, POE_STATUS_TEST, POE_STATUS_FAULT)

4.8 GetPort

```
GET /api/v1/managers/{manager_id}/ports/{port_id}
```

Table 4.19 Parameters

Type	Name	Description	Schema
Path	manager_id required	Manager ID	string
Path	port_id required	Port ID to get	integer(int32)

Table 4.20 Responses

HTTP Code	Description	Schema
200	A successful response.	Port

Example HTTP request

Request path

```
/api/v1/managers/string/ports/0
```

Example HTTP response

Response 200

```
{
  "id" : 0,
  "enabled" : true,
  "speed" : 0,
  "poe_mode" : { },
  "poe_status" : { },
  "poe_fault" : { },
  "name" : "string",
  "port_id" : 0
}
```

4.9 UpdatePort

```
PATCH /api/v1/managers/{manager_id}/ports/{port_id}
```

Table 4.21 Parameters

Type	Name	Description	Schema
Path	manager_id required	Manager ID	string
Path	port_id required	ID of port to update	integer(int32)
Query	update_mask optional	The list of fields that have changed. The API gateway will populate this based on the members in the port object. You should not include this in your REST request.	string
Body	body required	Port object with updated values. Only the members being modified should be included.	Port

Table 4.22 Responses

HTTP Code	Description	Schema
200	A successful response.	Port

Example HTTP request

Request path

```
/api/v1/managers/string/ports/0
```

Request query

```
{
  "update_mask" : "string"
}
```

Request body

```
{
  "id" : 0,
  "enabled" : true,
  "speed" : 0,
  "poe_mode" : { },
  "poe_status" : { },
  "poe_fault" : { },
  "name" : "string",
  "port_id" : 0
}
```

Example HTTP response

Response 200

```
{
  "id" : 0,
  "enabled" : true,
  "speed" : 0,
  "poe_mode" : { },
  "poe_status" : { },
  "poe_fault" : { },
  "name" : "string",
  "port_id" : 0
}
```

4.10 Unenroll

Unenroll removes the rack manager from the management platform.

```
POST /api/v1/managers/{manager_id}:unenroll
```

Table 4.23 Parameters

Type	Name	Description	Schema
Path	manager_id required	ID of the manager	string
Body	body required		Unenroll - Used to unenroll a rack manager from a management platform.

Table 4.24 Unenroll Descriptions

Name	Description	Schema
management_appliance_id optional	Example: "string"	string
management_appliance_ip_address optional	Example: "string"	string

Table 4.25 Responses

HTTP Code	Description	Schema
200	A successful response.	object

Example HTTP request

Request path

```
/api/v1/managers/string:unenroll
```

Request body

```
{  
  "manager_id" : "ADX_RM1048",  
  "management_appliance_id" : "4c4c4544-0053-3810-8042-b2c04f383533",  
  "management_appliance_ip_address" : "10.207.15.65"  
}
```

Example HTTP response

Response 200

```
"object"
```

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