



## License

### Astra Automation

NetApp  
December 01, 2023

# Inhalt

- License ..... 1
  - License overview ..... 1
  - Create a new license ..... 1
  - List all licenses ..... 15
  - Retrieve a license ..... 27
  - Modify a license ..... 37
  - Delete a license ..... 48

# License

## License overview

The License API represents licenses loaded into the account.

## Create a new license

POST /accounts/{account\_id}/core/v1/licenses

Indicates the desired values for the License API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>

### Request Body

Indicates the desired values for the License API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-license"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li></ul>

Name	Type	Required	Description
allocation	string	False	<p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9"
}
```

### Response

Status: 201, Returns the newly created license resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>"application/astra-license"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
deviceCredentialID	string	False	JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
validFromTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
validUntilTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
product	string	True	<p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	<p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	<p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
features	string	True	<p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>



Name	Type	Required	Description
capacity	string	True	JSON string containing the capacity extracted from the license.
capacity2	string	True	JSON string containing the secondary capacity extracted from the license.
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "id": "6db53b32-8417-5d3c-8ef0-552fc602c78f",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "hostID": "99132549-e0c2-4203-9d1e-598628b4ff9b",
  "isEvaluation": "false",
  "licenseProtocol": "ASTRASDS-ENT-SUBS",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "product": "Astra Control Center",
  "productVersion": "1.0",
  "productSN": "320000046",
  "features": "ASTRA-ENT-STD",
  "capacity": "4000",
  "capacity2": "0",
  "addons": [
    {
      "startDate": "2020-08-06T00:00:00.000000Z",
      "endDate": "2021-08-06T00:00:00.000000Z",
      "capacity": "4000",
      "licenseProtocol": "ASTRA-ENT-STD",
      "features": "p-nfs, dm-storage-policy-based-pvs-for-k8s, dm-spbm-
based-vvols-for-vms, dm-storage-efficiency, dm-data-at-rest-encryption"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

# Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>

Name	Type	Required	Description
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema.</li> </ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid



# List all licenses

GET /accounts/{account\_id}/core/v1/licenses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: {{.Account}}</li></ul>
include	string	query	False	Indicates which fields should be returned when listing a collection.  URL examples: "include=id", "include=id,name"  OpenAPI examples: "id" <ul style="list-style-type: none"><li>example: id,product</li></ul>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection.  URL examples: "limit=2"  OpenAPI examples: "2"

Name	Type	In	Required	Description
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[ <a href="#">Any of: license_1.0_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

## Example response

```
{
  "type": "application/astra-licenses",
  "version": "1.0",
  "items": [
    [
      "c8aa757a-5318-489f-8134-a2a1a6956a3e",
      "Astra SDS"
    ],
    [
      "0f7cc03d-9afc-4192-af7f-b29ab24f8f2a",
      "Astra Enterprise"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

# Definitions

## See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### license\_1.0\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-license"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>



Name	Type	Required	Description
allocation	string	False	<p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	<p>JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>

Name	Type	Required	Description
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
validFromTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
product	string	True	JSON string containing the product string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	JSON string containing the version string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	JSON string containing the serial number string extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
features	string	True	JSON string containing the package value extracted from the license. Defined values are: <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
capacity	string	True	JSON string containing the capacity extracted from the license.
capacity2	string	True	JSON string containing the secondary capacity extracted from the license.

Name	Type	Required	Description
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

#### type\_astra\_metadata\_list

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter

Name	Type	Required	Description
reason	string	True	Reason why the query parameter is invalid

## Retrieve a license

GET /accounts/{account\_id}/core/v1/licenses/{license\_id}

Returns the stored License API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
license_id	string	path	True	ID of the license collection to list

### Response

Status: 200, Returns the stored License API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-license"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
allocation	string	False	JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
deviceCredentialID	string	False	JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
isEvaluation	string	True	<p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>
licenseProtocol	string	True	<p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	True	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
validFromTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
validUntilTimestamp	string	True	<p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
product	string	True	<p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	True	<p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	True	<p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
features	string	True	<p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>



Name	Type	Required	Description
capacity	string	True	JSON string containing the capacity extracted from the license.
capacity2	string	True	JSON string containing the secondary capacity extracted from the license.
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	type_astra_metadata_update	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "id": "6db53b32-8417-5d3c-8ef0-552fc602c78f",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "hostID": "99132549-e0c2-4203-9d1e-598628b4ff9b",
  "isEvaluation": "false",
  "licenseProtocol": "ASTRASDS-ENT-SUBS",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "product": "Astra Control Center",
  "productVersion": "1.0",
  "productSN": "320000046",
  "features": "ASTRA-ENT-STD",
  "capacity": "4000",
  "capacity2": "0",
  "addons": [
    {
      "startDate": "2020-08-06T00:00:00.000000Z",
      "endDate": "2021-08-06T00:00:00.000000Z",
      "capacity": "4000",
      "licenseProtocol": "ASTRA-ENT-STD",
      "features": "p-nfs, dm-storage-policy-based-pvs-for-k8s, dm-spbm-
based-vvols-for-vms, dm-storage-efficiency, dm-data-at-rest-encryption"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

## Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>

## type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

## type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

## invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a license

PUT /accounts/{account\_id}/core/v1/licenses/{license\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

### Side Effects

- Entitlements are recalculated to add or merge the license entitlements visible through the Entitlement API.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
license_id	string	path	True	ID of the license collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- Entitlements are recalculated to add or merge the license entitlements visible through the Entitlement API.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>"application/astra-license"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>"1.0"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>Conforms to the UUIDv4 Schema</li> </ul>



Name	Type	Required	Description
allocation	string	False	<p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
hostID	string	False	<p>JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
deviceCredentialID	string	False	<p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
isEvaluation	string	False	<p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true"</li> <li>• "false"</li> </ul>

Name	Type	Required	Description
licenseProtocol	string	False	<p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
licenseText	string	False	<p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the base64 Encoded Data Schema</li> </ul>
validFromTimestamp	string	False	<p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
validUntilTimestamp	string	False	<p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>

Name	Type	Required	Description
product	string	False	<p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productVersion	string	False	<p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
productSN	string	False	<p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
features	string	False	<p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> <li>• String contents not validated by the schema</li> </ul>
capacity	string	False	<p>JSON string containing the capacity extracted from the license.</p>
capacity2	string	False	<p>JSON string containing the secondary capacity extracted from the license.</p>

Name	Type	Required	Description
addons	array[addons]	False	JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date.
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9"
}
```

### Response

Status: 204, Indicates if the license resource was updated.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

# Definitions



## See Definitions

addons

Name	Type	Required	Description
startDate	string	False	JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
endDate	string	False	JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the ISO-8601 Date Time Schema</li></ul>
features	string	False	JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema.</li></ul>
capacity	string	False	JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>
licenseProtocol	string	False	JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"><li>• String contents not validated by the schema</li></ul>

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a license

DELETE /accounts/{account\_id}/core/v1/licenses/{license\_id}

Removes the specified License API resource. The automatically installed evaluation license cannot be deleted.

### Side Effects

- Entitlements are recalculated to remove the license entitlements visible through the Entitlement API. If the automatically installed evaluation license was present on this system before deletion, it is reapplied to the system automatically.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource  • example: {{.Account}}
license_id	string	path	True	ID of the license collection to list

### Response

```
Status: 204, Indicates if the license resource was deleted.
```

### Response

```
Status: 401, Unauthorized
```

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Copyright-Informationen

Copyright © 2023 NetApp. Alle Rechte vorbehalten. Gedruckt in den USA. Dieses urheberrechtlich geschützte Dokument darf ohne die vorherige schriftliche Genehmigung des Urheberrechtinhabers in keiner Form und durch keine Mittel – weder grafische noch elektronische oder mechanische, einschließlich Fotokopieren, Aufnehmen oder Speichern in einem elektronischen Abrufsystem – auch nicht in Teilen, vervielfältigt werden.

Software, die von urheberrechtlich geschütztem NetApp Material abgeleitet wird, unterliegt der folgenden Lizenz und dem folgenden Haftungsausschluss:

DIE VORLIEGENDE SOFTWARE WIRD IN DER VORLIEGENDEN FORM VON NETAPP ZUR VERFÜGUNG GESTELLT, D. H. OHNE JEGLICHE EXPLIZITE ODER IMPLIZITE GEWÄHRLEISTUNG, EINSCHLIESSLICH, JEDOCH NICHT BESCHRÄNKT AUF DIE STILLSCHWEIGENDE GEWÄHRLEISTUNG DER MARKTGÄNGIGKEIT UND EIGNUNG FÜR EINEN BESTIMMTEN ZWECK, DIE HIERMIT AUSGESCHLOSSEN WERDEN. NETAPP ÜBERNIMMT KEINERLEI HAFTUNG FÜR DIREKTE, INDIREKTE, ZUFÄLLIGE, BESONDERE, BEISPIELHAFT SCHÄDEN ODER FOLGESCHÄDEN (EINSCHLIESSLICH, JEDOCH NICHT BESCHRÄNKT AUF DIE BESCHAFFUNG VON ERSATZWAREN ODER -DIENSTLEISTUNGEN, NUTZUNGS-, DATEN- ODER GEWINNVERLUSTE ODER UNTERBRECHUNG DES GESCHÄFTSBETRIEBS), UNABHÄNGIG DAVON, WIE SIE VERURSACHT WURDEN UND AUF WELCHER HAFTUNGSTHEORIE SIE BERUHEN, OB AUS VERTRAGLICH FESTGELEGTER HAFTUNG, VERSCHULDENSUNABHÄNGIGER HAFTUNG ODER DELIKTSHAFTUNG (EINSCHLIESSLICH FAHRLÄSSIGKEIT ODER AUF ANDEREM WEGE), DIE IN IRGEND EINER WEISE AUS DER NUTZUNG DIESER SOFTWARE RESULTIEREN, SELBST WENN AUF DIE MÖGLICHKEIT DERARTIGER SCHÄDEN HINGEWIESEN WURDE.

NetApp behält sich das Recht vor, die hierin beschriebenen Produkte jederzeit und ohne Vorankündigung zu ändern. NetApp übernimmt keine Verantwortung oder Haftung, die sich aus der Verwendung der hier beschriebenen Produkte ergibt, es sei denn, NetApp hat dem ausdrücklich in schriftlicher Form zugestimmt. Die Verwendung oder der Erwerb dieses Produkts stellt keine Lizenzierung im Rahmen eines Patentrechts, Markenrechts oder eines anderen Rechts an geistigem Eigentum von NetApp dar.

Das in diesem Dokument beschriebene Produkt kann durch ein oder mehrere US-amerikanische Patente, ausländische Patente oder anhängige Patentanmeldungen geschützt sein.

ERLÄUTERUNG ZU „RESTRICTED RIGHTS“: Nutzung, Vervielfältigung oder Offenlegung durch die US-Regierung unterliegt den Einschränkungen gemäß Unterabschnitt (b)(3) der Klausel „Rights in Technical Data – Noncommercial Items“ in DFARS 252.227-7013 (Februar 2014) und FAR 52.227-19 (Dezember 2007).

Die hierin enthaltenen Daten beziehen sich auf ein kommerzielles Produkt und/oder einen kommerziellen Service (wie in FAR 2.101 definiert) und sind Eigentum von NetApp, Inc. Alle technischen Daten und die Computersoftware von NetApp, die unter diesem Vertrag bereitgestellt werden, sind gewerblicher Natur und wurden ausschließlich unter Verwendung privater Mittel entwickelt. Die US-Regierung besitzt eine nicht ausschließliche, nicht übertragbare, nicht unterlizenzierbare, weltweite, limitierte unwiderrufliche Lizenz zur Nutzung der Daten nur in Verbindung mit und zur Unterstützung des Vertrags der US-Regierung, unter dem die Daten bereitgestellt wurden. Sofern in den vorliegenden Bedingungen nicht anders angegeben, dürfen die Daten ohne vorherige schriftliche Genehmigung von NetApp, Inc. nicht verwendet, offengelegt, vervielfältigt, geändert, aufgeführt oder angezeigt werden. Die Lizenzrechte der US-Regierung für das US-Verteidigungsministerium sind auf die in DFARS-Klausel 252.227-7015(b) (Februar 2014) genannten Rechte beschränkt.

## Markeninformationen

NETAPP, das NETAPP Logo und die unter <http://www.netapp.com/TM> aufgeführten Marken sind Marken von NetApp, Inc. Andere Firmen und Produktnamen können Marken der jeweiligen Eigentümer sein.