

## Notification

Astra Automation

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# Notification

## Notification overview

The Notification API provides per-user access to events with a notification destination.

## List all notifications

#### GET /accounts/{account\_id}/core/v1/notifications

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	Туре	In	Required	Description
account_id	string	path	True	ID of the containing account resource • example: {{.Account}}
include	string	query	False	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: id,summary

Name	Туре	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" • example: 4
filter	string	query	False	<ul> <li>Indicates which fields should be matched in order to return a resource when listing a collection.</li> <li>Supported operators are: <ul> <li>eq - Equality</li> <li>It/gt - Less than/Greater than</li> <li>Ite/gte - Less than or equals to/Greater than or equals to</li> </ul> </li> <li>URL example: "filter=field%20eq%2 0%27value%27"</li> <li>OpenAPI examples: "field eq 'value"</li> </ul>

Name	Туре	In	Required	Description
orderBy	string	query	False	Indicates the sort order of resource when listing a collection. URL examples: "orderBy=name", "orderBy=name%20 desc" OpenAPI examples: "name desc"
skip	string	query	False	Indicates the number of resources to skip over when listing a collection. URL examples: "skip=1" OpenAPI examples: "1"
count	string	query	False	Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" • example: true

Name	Туре	In	Required	Description
continue		query	False	Indicates the token to resume listing from. URL examples: "continue= <continue token="" from="" collection="" metadata=""&gt;"inue&gt;</continue 
				OpenAPI examples: " <continue <br="" token="">from="" collection="" metadata=""&gt;"inue&gt;t;</continue>

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	Туре	Required	Description
items	array[Any of: notification_1.3_get_respo nse_body, array[]]	True	
metadata	type_astra_metadata_list	True	

```
{
 "type": "application/astra-notifications",
 "version": "1.3",
 "items": [
    [
      "4f8273ee-883d-47f0-a512-9e27b6285f20",
     "Discovering Applications in Cluster"
   ],
    ſ
     "1cdd26dc-5eb0-4cf4-a0c1-39a9b83720e1",
     "Application Discovered"
    ],
    ſ
      "275a8c6f-ebf6-4d10-b671-77d1b8c7c0a6",
     "Application Discovery Failed"
    ],
    ſ
     "4325f971-ca9c-4a52-bc9a-da6ec62e6bfe",
     "Application Discovered"
   1
 ],
 "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
   "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
 }
}
```

```
Status: 401, Unauthorized
```

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

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

```
Status: 400, Bad request
```

Name	Туре	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	Туре	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	Туре	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

#### data

JSON object containing additional event-specific information.

Name	Туре	Required	Description
tt!	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: • "true" - The banner is dismissible • "false" - The banner is not dismissible

#### type\_astra\_label

Name	Туре	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

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

Conforms to the Astra Metadata Schema

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

notification\_1.3\_get\_response\_body

Name	Туре	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra- notification"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: • Minimum length: 3 • Maximum length: 127 • Defined regex is: "^ [a-z])(\.([a-z])+\$"

Name	Туре	Required	Description
sequenceCount	number	True	JSON number containing a sequence count. The number is incremented by the system each time a new event is received.
summary	string	True	JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: • Minimum length: 3 • Maximum length: 79
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: • Conforms to the ISO-8601 Date Time Schema
source	string	True	JSON string containing the lowercase name of the service generating an event. Defined values are: • Minimum length: 1 • Maximum length: 19 • Defined regex is: "^([a-z-])*\$"
resourceID	string	True	JSON string containing the resource ID associated with an event. Defined values are: • Conforms to the Astra Identifier Schema

Name	Туре	Required	Description
additionalResourceIDs	array[string]	True	JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. Although the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events. If no additional resources are associated with the event, the array will be empty. Defined values are: • Conforms to the Astra Identifier Schema
resourceType	string	True	JSON string containing the media type of the resource associated with an event. Defined values are: • Minimum length: 4 • Maximum length: 79 • Defined regex is: "^application\/astra- ([a-zA-Z])+\$"
correlationID	string	True	JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are: • Conforms to the Astra Identifier Schema

Name	Туре	Required	Description
severity	string	True	JSON string containing one of the following values that indicate the severity of an event. Defined values are: • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.
			<ul> <li>"indeterminate" - Indicates that the severity cannot be determined.</li> </ul>
			<ul> <li>"informational" - Indicates a change in state that is both expected and norma (not defined in X.733).</li> </ul>
			<ul> <li>"warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt.</li> </ul>
			<ul> <li>"critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of</li> </ul>

Name	Туре	Required	Description
class	string	True	<ul> <li>JSON string containing one of the following values that indicate the class of the event.</li> <li>Defined values are: <ul> <li>"system" - The event is related to an internal event or request.</li> <li>"user" - The event is related to a user- initiated event or request.</li> <li>"security" - The event is related to a security issue.</li> </ul> </li> </ul>
description	string	True	JSON string containing a long-form descriptive text about the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
descriptionURL	string	False	JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are: • Minimum length: 3 • Maximum length: 4095

Name	Туре	Required	Description
correctiveAction	string	False	JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
correctiveActionURL	string	False	JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are: • Minimum length: 3 • Maximum length: 4095
visibility	array[string]	False	JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are: • Minimum length: 1 • Maximum length: 63

Name	Туре	Required	Description
destinations	array[string]	False	JSON array of JSON strings, each indicating an additional destination for the event. These allow a service to provide hints about where an event must be routed in addition to the Activity service's activity log. Optional. Defined values are:
			<ul> <li>"notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint.</li> </ul>
			<ul> <li>"banner" - The event is marked as a banner.</li> </ul>
			<ul> <li>"support" - The event is marked as a support-related event.</li> </ul>
resourceURI	string	False	JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are:
			<ul><li>Minimum length: 3</li><li>Maximum length: 4095</li></ul>
resourceCollectionURL	array[string]	False	JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are:
			<ul><li>Minimum length: 1</li><li>Maximum length:</li></ul>
			1023

Name	Туре	Required	Description
resourceMethod	string	False	JSON string containing the HTTP method invoked. Included only for events related to API operations. Defined values are: • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation
resourceMethodResult	string	False	JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are: • Defined regex is: "^[1-5][0-9]{2}\$"
userID	string	False	JSON string containing the user ID associated with an event. Only included for events associated with the user- initiated actions. Defined values are: • Conforms to the Astra Identifier Schema

Name	Туре	Required	Description
accountID	string	False	JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: • Conforms to the Astra Identifier Schema
data	data	False	JSON object containing additional event-specific information.
metadata	type_astra_metadata	True	Client and service- specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

#### type\_astra\_metadata\_list

Name	Туре	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	Туре	Required	Description
name	string		Name of the invalid query parameter

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

## **Retrieve a notification**

GET /accounts/{account\_id}/core/v1/notifications/{notification\_id}

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

## **Parameters**

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

## Response

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

Name	Туре	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra- notification"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" • "1.3"

Name	Туре	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: • Minimum length: 3 • Maximum length: 127 • Defined regex is: "^ [a-z])(\.([a-z])+\$"
sequenceCount	number	True	JSON number containing a sequence count. The number is incremented by the system each time a new event is received.
summary	string	True	JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: • Minimum length: 3 • Maximum length: 79
eventTime	string	True	JSON string containing a timestamp that indicates when an event occurred. Defined values are: • Conforms to the ISO- 8601 Date Time Schema

Name	Туре	Required	Description
source	string	True	JSON string containing the lowercase name of the service generating an event. Defined values are: • Minimum length: 1 • Maximum length: 19 • Defined regex is: "^([a-z-])*\$"
resourceID	string	True	JSON string containing the resource ID associated with an event. Defined values are: • Conforms to the Astra Identifier Schema
additionalResourceIDs	array[string]	True	JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. Although the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events. If no additional resources are associated with the event, the array will be empty. Defined values are: • Conforms to the Astra Identifier Schema

Name	Туре	Required	Description
resourceType	string	True	JSON string containing the media type of the resource associated with an event. Defined values are: • Minimum length: 4 • Maximum length: 79 • Defined regex is: "^application\/astra- ([a-zA-Z])+\$"
correlationID	string	True	JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are: • Conforms to the Astra Identifier Schema

Name	Туре	Required	Description
severity	string	True	<ul> <li>JSON string containing one of the following values that indicate the severity of an event.</li> <li>Defined values are:</li> <li>"cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up.</li> </ul>
			<ul> <li>"indeterminate" - Indicates that the severity cannot be determined.</li> </ul>
			<ul> <li>"informational" - Indicates a change in state that is both expected and normal (not defined in X.733).</li> </ul>
			<ul> <li>"warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt.</li> </ul>
			<ul> <li>"critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause</li> </ul>
			8.1.2.3 of CCITT X.733.

Name	Туре	Required	Description
class	string	True	<ul> <li>JSON string containing one of the following values that indicate the class of the event.</li> <li>Defined values are: <ul> <li>"system" - The event is related to an internal event or request.</li> <li>"user" - The event is related to a user- initiated event or request.</li> <li>"security" - The event is related to a security issue.</li> </ul> </li> </ul>
description	string	True	JSON string containing a long-form descriptive text about the event. Defined values are: • Minimum length: 3 • Maximum length: 1023
descriptionURL	string	False	JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are: • Minimum length: 3 • Maximum length: 4095
correctiveAction	string	False	JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event. Defined values are: • Minimum length: 3 • Maximum length: 1023

Name	Туре	Required	Description
correctiveActionURL	string	False	JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are: • Minimum length: 3 • Maximum length: 4095
visibility	array[string]	False	JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are: • Minimum length: 1 • Maximum length: 63
destinations	array[string]	False	JSON array of JSON strings, each indicating an additional destination for the event. These allow a service to provide hints about where an event must be routed in addition to the Activity service's activity log. Optional. Defined values are: • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event.

Name	Туре	Required	Description
resourceURI	string	False	JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are: • Minimum length: 3 • Maximum length: 4095
resourceCollectionURL	array[string]	False	JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are: • Minimum length: 1 • Maximum length: 1023
resourceMethod	string	False	JSON string containing the HTTP method invoked. Included only for events related to API operations. Defined values are: • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation

Name	Туре	Required	Description
resourceMethodResult	string	False	JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are: • Defined regex is: "^[1- 5][0-9]{2}\$"
userID	string	False	JSON string containing the user ID associated with an event. Only included for events associated with the user- initiated actions. Defined values are: • Conforms to the Astra Identifier Schema
accountID	string	False	JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: • Conforms to the Astra Identifier Schema
data	data	False	JSON object containing additional event-specific information.
metadata	type_astra_metadata	True	Client and service- specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema

```
{
 "type": "application/astra-notification",
 "version": "1.3",
  "id": "03c645d6-75f0-59b0-95f2-862ae344ea27",
  "name": "astra.app.discovery.failed",
  "sequenceCount": 48923,
  "summary": "Application Discovery Failed",
  "eventTime": "2020-08-06T12:24:51.846543Z",
  "source": "composite-compute",
  "resourceID": "f670bf11-8850-44bd-b330-815af6186a06",
  "additionalResourceIDs": [
    "84dfee99-b7b2-46d2-9021-0a1a9a5df1d6",
    "abb32003-07b9-49b1-9938-1cf6d2f33566"
 ],
  "resourceType": "application/astra-app",
  "correlationID": "3c603442-cfca-4af9-9f1b-40dde5c7a806",
 "severity": "warning",
  "class": "user",
 "description": "Discovering the application 'mysql' was unsuccessful.
K8s error 442. Application marked in state 'error'.",
 "destinations": [
    "notification"
 ],
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/managedClusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/apps/f670bf11-8850-44bd-b330-815af6186a06",
  "resourceCollectionURL": [
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06",
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06"
  1,
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "accountID": "f126d214-bccf-4558-86b4-2137a41e734f",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
```

```
"createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
```

```
Status: 401, Unauthorized
```

Name	Туре	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	Туре	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

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

Status: 403, Forbidden

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

Name	Туре	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

#### data

JSON object containing additional event-specific information.

Name	Туре	Required	Description
ttl	number	False	JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted.
isAcknowledgeable	string	False	JSON string indicating whether the banner is dismissible. Defined values are: • "true" - The banner is dismissible • "false" - The banner is not dismissible

#### type\_astra\_label

Name	Туре	Required	Description
name	string	True	
value	string	True	

#### type\_astra\_metadata

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

Conforms to the Astra Metadata Schema

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

#### invalidParams

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

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