

Custom Device Fields API

The Custom Device Fields API allows you to retrieve and update custom device fields associated with a specific device. It can also be used to retrieve custom device field definitions.

For more information about using Absolute APIs, see *Working with Absolute APIs* (<https://www.absolute.com/media/2221/abt-api-working-with-absolute.pdf>).

All of the Custom Device Fields API endpoints require the following authentication headers in each request:

Authentication headers

Header	Notes	Description
Host	required	The domain name of the server where the request is sent Example: Host: api.absolute.com
Content-Type	required	The media type of the resource Example: Content-Type: application/json
X-Abs-Date	required	The automatically generated header that indicates the time (in UTC) the request was made encoded in a special header Format: <YYYY><MM><DD>T<HH><MM><SS>Z Example: X-Abs-Date: 20210104T162253Z
Authorization	required	The HTTP authorization header Format: <algorithm> Credential=<token id>/<CredentialScope>, SignedHeaders=<SignedHeaders>, Signature=<signature> Example: Authorization: ABS1-HMAC-SHA-256 Credential=b62182d4-f3b6-410f-8d1b-2f14bb66645f/20210104/cadc/abs1, SignedHeaders=host;content-type;x-abs-date,Signature=a799472df4e9fb2830823dc926103cbfaa8f56b1a7b6e51275534c9104bb3998

See [Working with Absolute APIs](#) for more information.

v2/devices/{deviceUid}/cdf

Two endpoints are available:

- [GET /v2/devices/{deviceUid}/cdf](#)
- [PUT /v2/devices/{deviceUid}/cdf](#)

v2/cdf/definitions

Two endpoints are available:

- [GET /v2/cdf/definitions](#)
- [GET /v2/cdf/definitions/{cdfDefinitionsUid}](#)

GET /v2/devices/{deviceUid}/cdf

This endpoint returns a list of custom device fields associated with the device specified in the {deviceUid} path parameter, based on the authorization token.

Request

Path parameters

Use the following path parameter:

GET /v2/devices/{deviceUid}/cdf path parameter

Parameter	Notes	Data type	Description
deviceUid	required	string <uuid>	The system-defined unique identifier of the device Example: 02b9daa4-8e60-4640-8b15-76d41ecf6a94

Header parameters

The [Authentication headers](#) are required.

Example: GET /v2/devices/{deviceUid}/cdf request

```
GET https://api.absolute.com/v2/devices/02b9daa4-8e60-4640-8b15-76d41ecf6a94/cdf
Host: api.absolute.com
Content-Type: application/json
X-Abs-Date: 20210104T162253Z
Authorization: ABS1-HMAC-SHA-256 Credential=b62182d4-f3b6-410f-8d1b-2f14bb66645f/20210104/cadc/abs1, SignedHeaders=host;content-type;x-abs-date, Signature=a799472df4e9fb2830823dc926103cbfaa8f56b1a7b6e51275534c9104bb3998
```

Request body

There is no request body.

Response

The following table describes the available fields for each custom device field that is associated with a device.

GET /v2/devices/{deviceUid}/cdf response parameters

Parameter	Data type	Description
deviceUid	string <uuid>	The system-defined unique identifier of the device Example: 02b9daa4-8e60-4640-8b15-76d41ecf6a94
esn	string	The unique Electronic Serial Number (ESN) assigned to the Absolute agent that is installed on a device Example: 2DE05RUEG0AA1V7S0003
cdfValues	array {object}	The values for each custom device field that is associated with the device
cdfUid	string	The unique identifier of the custom device field Example: njazpLrEQwqeFDqk4yQCfg

GET /v2/devices/{deviceId}/cdf response parameters

Parameter	Data type	Description
fieldKey	string	The unique identifier of the custom device field in the Classic version of Absolute Example: 1
fieldName	string	The name assigned to the custom device field Example: Asset Number
categoryCode	string	The type of custom device field Possible values: <ul style="list-style-type: none"> • PREDEFINED: Custom device fields predefined by Absolute • ESNCOLUMN: Custom device fields predefined by Absolute • UDF: Custom device fields defined by users
fieldValue	string	The current value of the custom device field Two double quotation marks ("") means there is no value for this field Example: No Asset Tag
type	string	The data type of fieldValue Possible values: <ul style="list-style-type: none"> • Text: Plain text up to 50 characters in length • Date: Date in the format of <mm>/<dd>/<yyyy> Example: 01/16/2021 • Dropdown: A value from a predefined list of values in the CDF definition

Example: GET /v2/devices/{deviceId}/cdf response body

NOTE The following example has been formatted for clarity. A response is returned as one string.

```
{
  "deviceId": "02b9daa4-8e60-4640-8b15-76d41ecf6a94",
  "esn": "2DE05RUEG0AA1V7S0003",
  "cdfValues": [
    {
      "cdfUid": "njazpLrEQwqeFDqk4yQCfg",
      "fieldKey": 1,
      "fieldName": "Asset Number",
      "categoryCode": "ESNCOLUMN",
      "fieldValue": "No Asset Tag",
      "type": "Text"
    },
    {
      "cdfUid": "7PwIrjEXTAqvpb5WdV2w",
      "fieldKey": 3,
      "fieldName": "Assigned Username",
      "categoryCode": "ESNCOLUMN",
      "fieldValue": "",
      "type": "Text"
    },
    {
      "cdfUid": "yEA9RzcRSvSsUHCgST3g",
```

```

        "fieldKey": 5,
        "fieldName": "Department",
        "categoryCode": "ESNCOLUMN",
        "fieldValue": "",
        "type": "Dropdown"
    },
    {
        "cdfUid": "Mmm1dI7nRp6sKOjxSu2sw",
        "fieldKey": 9,
        "fieldName": "Has Service Guarantee",
        "categoryCode": "ESNCOLUMN",
        "fieldValue": "Yes",
        "type": "Dropdown"
    }
]
}

```

Errors

The following table lists the possible status codes and messages that may be returned when using this API.

GET /v2/devices/{deviceUid}/cdf errors

Status code	Message	Description
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct
	Elapsed time frame is not within the timeframe.	Verify and update the correct value for the X-Abs-Date header and its RequestedDateTime string
404 Not Found	Device does not exist.	Verify the deviceUid
	CDF Values were not found for a specific device Uid.	There are no custom device fields associated with the specified device
	Device UID is not in the UUID format.	Check the format of the deviceUid in the v2/devices/<deviceUid>/cdf URI
	Device does not exist.	The device does not belong to this account

PUT /v2/devices/{deviceUid}/cdf

This endpoint assigns or updates the value of the included custom device fields for the device specified in the {deviceUid} path parameter.

Request

Path parameters

Use the following path parameter:

PUT /v2/devices/{deviceUid}/cdf path parameter

Parameter	Notes	Data type	Description
deviceUid	required	string <uuid>	The system-defined unique identifier of the device Example: 02b9daa4-8e60-4640-8b15-76d41ecf6a94

Header parameters

The [Authentication headers](#) are required.

Example: PUT /v2/devices/{deviceUid}/cdf request

```
PUT https://api.absolute.com/v2/devices/02b9daa4-8e60-4640-8b15-76d41ecf6a94/cdf
Host: api.absolute.com
Content-Type: application/json
X-Abs-Date: 20210104T162253Z
Authorization: ABS1-HMAC-SHA-256 Credential=b62182d4-f3b6-410f-8d1b-2f14bb66645f/20210104/cadc/abs1, SignedHeaders=host;content-type;x-abs-date, Signature=a799472df4e9fb2830823dc926103cbfaa8f56b1a7b6e51275534c9104bb3998
```

Request body

When you assign the custom device fields to a specified device, all custom device fields associated with it are in an array.

The request accepts JSON-formatted data. The following table describes the keys defined in the request body.

PUT /v2/devices/{deviceUid}/cdf body parameters

Parameter	Notes	Data Type	Description
cdfValues		array	An array containing the custom device field identifiers and the new value The cdfUid, fieldKey, and fieldValue parameters are required for each custom device field being updated
cdfUid	required	string	The unique identifier of the custom device field
fieldKey	required	string	The unique identifier of the custom device field in the Classic version of Absolute
fieldValue	required	string	The new value of the custom device field

Example: PUT /v2/devices/{deviceId}/cdf request body

```
{
  "cdfValues": [
    {
      "cdfUid": "zScfImi9TueTV1hosDqEQ",
      "fieldKey": "7",
      "fieldValue": "10/23/2018"
    }
  ]
}
```

Response

A successful response to this request is an empty response body with an HTTP status code of 200.

Example: PUT /v2/devices/{deviceId}/cdf response header

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

Errors

The following table lists the possible status codes and messages that may be returned when using this API.

PUT /v2/devices/{deviceId}/cdf errors

Status code	Message	Description
400 Bad Request	Payload is NULL.	Verify that the request body (payload) is correctly formatted and isn't empty
	There is no CDF with cdfUid <cdfUid> in CDFDefinition.	Verify and input the correct custom device field identifier
	Service guarantee is set and out of license.	The license for the Service Guarantee has expired. Verify the Service Guarantee or renew it.
	The FieldValue <fieldValue> must be in (MM/dd/yyyy) format.	If the fieldValue type is date, make sure the date uses the <mm>/<dd>/<yyyy> format
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct
	Elapsed time frame is not within the timeframe.	Verify and update the correct value for the X-Abs-Date header and its RequestedDateTime string

PUT /v2/devices/{deviceId}/cdf errors

Status code	Message	Description
404 Not Found	Could not find the custom device fields associated with that device id.	There are no custom device fields associated with the specified device
	Device UID is not in the UUID format.	Check the format of the <code>deviceId</code> path parameter
	Device <code><deviceId></code> does not exist.	The device in the <code>deviceId</code> path parameter doesn't belong to this account
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support)
502 Bad Gateway	Service Unavailable: All or part of Absolute's API services are unavailable or down for maintenance.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support)
	Request Timeout: The submitted request timed out before it completed.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support)

GET /v2/cdf/definitions

This endpoint returns a list of all custom device field definitions for an account based on the authorization token.

Request**Header parameters**

The [Authentication headers](#) are required.

Request body

There is no request body.

Response

A successful request returns an HTTP status code of 200 (OK) and the response body.

Example: GET /v2/cdf/definitions response header

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

Response body

This endpoint returns an array containing the details for all custom device fields. If there are no custom device field definitions for the account, this endpoint returns an empty list (`[]`). The following table describes the fields returned for each custom device field.

GET /v2/cdf/definitions response parameters

Parameter	Data type	Description
uid	string <uuid>	The unique identifier of the custom device field definition Example: Y8oRpATeSTHnEkj8Urw
name	string	The name of the custom device field definition Example: Dormant
type	string <enum>	The data type of the custom device field definition Possible values: <ul style="list-style-type: none"> • Text: Plain text up to 50 characters in length. • Date: Date in the format of <mm>/<dd>/<yyyy> Example: 01/16/2021. • Dropdown: A value from a predefined list of values in the CDF definition
categoryCode	string <enum>	The type of custom device field Possible values: <ul style="list-style-type: none"> • PREDEFINED: Custom device fields predefined by Absolute • ESNCOLUMN: Custom device fields predefined by Absolute • UDF: Custom device fields defined by users
dropdowns	array {object}	An array of objects that represent the dropdown elements <ul style="list-style-type: none"> • Returns NULL if the definition doesn't contain dropdown elements
elementId	integer	The id of the dropdown element Example: 0
elementValue	string	The value of the dropdown element Example: Yes

Example: GET /v2/cdf/definitions response body

```
[
  {
    "uid": "Y8oRpATeSTHnEkj8Urw",
    "name": "Dormant",
    "type": "Dropdown",
    "categoryCode": "PREDEFINED",
    "dropdowns": [
      {
        "elementId": 0,
        "elementValue": "No"
      },
      {
        "elementId": 1,
        "elementValue": "Yes"
      }
    ]
  },
  {
```



```

    "uid": "zEbDHabCDe6vioqgpBc0QA",
    "name": "Lease Start Date",
    "type": "Date",
    "categoryCode": "PREDEFINED",
    "dropdowns": []
  }
]

```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

GET /v2/cdf/defintitions errors

Status code	Message	Description
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support)

GET /v2/cdf/definitions/{cdfDefinitionsUid}

This endpoint returns a single custom device field definition based on the `cdfDefinitionsUid` path parameter.

Request

Path parameters

Use the following path parameter:

GET /v2/cdf/definitions/{cdfDefinitionsUid} path parameter

Parameter	Notes	Data type	Description
<code>cdfDefinitionsUid</code>	required	string <uuid>	The unique identifier of the custom device field definition Example: Y8oRpATeSTHnEkj8Urw

Header parameters

The [Authentication headers](#) are required.

Example: GET /v2/cdf/definitions/{cdfDefinitionsUid} request

```

GET https://api.absolute.com/v2/cdf/definitions/Y8oRpATeSTHnEkj8Urw
Host: api.absolute.com
Content-Type: application/json
X-Abs-Date: 20210104T162253Z
Authorization: ABS1-HMAC-SHA-256 Credential=b62182d4-f3b6-410f-8d1b-2f14bb66645f/20210104/cadc/abs1, SignedHeaders=host;content-type;x-abs-date, Signature=a799472df4e9fb2830823dc926103cbfaa8f56b1a7b6e51275534c9104bb3998

```

Request body

There is no request body.

Response

A successful request returns an HTTP status code of 200 (OK) and the response body.

Example: GET /v2/cdf/definitions/{cdfDefintionsUid} response header

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

Response body

This endpoint returns an object containing the details for the custom device field definition defined by the {cdfDefinitionsUid} path parameter. The following table describes the fields returned for the custom device field definition.

GET /v2/cdf/definitions/{cdfDefinitionsUid} response parameters

Parameter	Data type	Description
uid	string <uuid>	The unique identifier of the custom device field definition Example: Y8oRpATeSTHnEkj8Urw
name	string	The name of the custom device field definition Example: Dormant
type	string <enum>	The data type of the custom device field definition Possible values: <ul style="list-style-type: none"> • Text: Plain text up to 50 characters in length. • Date: Date in the format of <mm>/<dd>/<yyyy> Example: 01/16/2021. • Dropdown: A value from a predefined list of values in the CDF definition
categoryCode	string <enum>	The type of custom device field Possible values: <ul style="list-style-type: none"> • PREDEFINED: Custom device fields predefined by Absolute • ESNCOLUMN: Custom device fields predefined by Absolute • UDF: Custom device fields defined by users
dropdowns	array {object}	An array of objects that represent the dropdown elements <ul style="list-style-type: none"> • Returns NULL if the definition doesn't contain dropdown elements
elementId	integer	The id of the dropdown element Example: 0
elementValue	string	The value of the dropdown element Example: Yes

Example: GET /v2/cdf/definitions/{cdfDefinitionsUid} response body

```
{
  "uid": "Y8oRpATeSTHnEkj8Urw",
  "name": "Dormant",
  "type": "Dropdown",
```

```

    "categoryCode": "PREDEFINED",
    "dropdowns": [
      {
        "elementId": 0,
        "elementValue": "No"
      },
      {
        "elementId": 1,
        "elementValue": "Yes"
      }
    ]
  }

```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

GET /v2/cdf/defintitions{cdfDefintionsUid} errors

Status code	Message	Description
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct
404 Not Found	The cdfDefintionUid does not exist.	Make sure the {cdfDefinitionsUid} path parameter is correct
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support)

Predefined and ESNColumn custom device fields

Absolute has created a number of commonly used custom device fields. These fields have a `categoryCode` of PREDEFINED or ESNCOLUMN. The following table lists these fields along with their `categoryCode`, `type`, and dropdown information.

PREDEFINED and ESNCOLUMN fields and properties

Name	CategoryCode	Type	Dropdowns	
			ElementId	ElementValue
Asset Number	ESNCOLUMN	Text	Null	
Assigned User Email	PREDEFINED	Text	Null	
Assigned Username	ESNCOLUMN	Text	Null	
Cost Center/Code	PREDEFINED	Text	Null	
Department	ESNCOLUMN	Dropdown	Configurable	
Device Purchase Date	PREDEFINED	Date	Null	
Dormant	PREDEFINED	Dropdown	0 1	No Yes
Has Service Guarantee	ESNCOLUMN	Dropdown	0 1	No Yes
Lease End Date	PREDEFINED	Date	Null	
Lease Number	PREDEFINED	Text	Null	
Lease Responsibility	PREDEFINED	Text	Null	
Lease Start Date	PREDEFINED	Date	Null	
Lease Vendor	PREDEFINED	Text	Null	
Physical/Actual Location	PREDEFINED	Text	Null	
Purchase Order Ref	PREDEFINED	Text	Null	
Service Contract End Date	PREDEFINED	Date	Null	
Service Contract Start Date	PREDEFINED	Date	Null	
Service Contract Vendor	PREDEFINED	Text	Null	
User Phone/Extension	PREDEFINED	Text	Null	
Warranty Contract Vendor	PREDEFINED	Text	Null	

PREDEFINED and ESNCOLUMN fields and properties

Name	CategoryCode	Type	Dropdowns	
			ElementId	ElementValue
Warranty End Date	PREDEFINED	Date		Null
Warranty Start Date	PREDEFINED	Date		Null

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Custom Device Fields API - Document version 1.2

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