

# Custom Entity API

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## Introduction

The Custom Entity API provides endpoints to retrieve and manipulate Custom entities within your Exact Online environment. This document describes the main endpoints, their usage, and provides example requests and responses.

## Prerequisite

- The Extension containing the Custom Entity must be installed in your environment.
- The feature set `PremiumExtensionsCustomEntityApi` must be enabled.

## Base URI

`/api/v1/{division}/CustomEntity/BusinessComponent/{entityname}`

### parameters

- `entityname`: The name of the Custom Entity (string).
- `division`: The division id (integer).

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#### GET: Retrieve all Custom entity instances

Description:

Retrieves all instances for the specified Custom entity. You can use query parameters to filter or sort the results.

Request:

`api/v1/{division}/CustomEntity/BusinessComponent/{entityname}`

Retrieves all the instances of the Custom entity by entity name.

### Response:

- **Status:** `200 OK`
- **Body:** JSON array containing all instances of the specified Custom entity and their properties.

### Sample response:

/api/v1/129282/CustomEntity/BusinessComponent/SDK\_CarPark\_Car

```
1  {
2      "Value": [
3          {
4              "Account": "e501b6bc-8a6a-40ff-b479-9a0cf1112e86",
5              "Account_Code": "1",
6              "Created": "2024-02-22T17:11:30.19",
7              "Creator": "0d0ac153-92a8-4120-a51b-e43e2a22cb83",
8              "CreatorFullName": "Sol Aurora",
9              "Description": "Aurora - Kamiq",
10             "Division": 129282,
11             "ID": "454391fe-c0dc-4960-9534-f5e91517071e",
12             "License": "NL561D",
13             "Model": "3b6f944a-616b-4363-987e-6341d89f610b",
14             "Model_Code": "SKD Kamiq",
15             "Modified": "2024-02-28T02:10:45.94",
16             "Modifier": null,
17             "ModifierFullName": null,
18             "PictureBlobId": null,
19             "PictureFilename": null,
20             "PreviousCar": null,
21             "PreviousCar_License": null,
22             "PurchaseDate": "2024-02-01T00:00:00",
23             "RegistrationPictureBlobId": null,
24             "RegistrationPictureFilename": null,
25             "Remarks": null,
26             "SecondHand": null,
27             "Showroom": "b8b075a0-9258-45c1-b772-0bddfd70a6ef",
28             "Showroom_Name": "Van Mossel"
29         }
30     ]
31 }
```

GET request by Id and properties

**api/v1/{division}/CustomEntity/BusinessComponent/{entityname}/{id}?properties=<list of properties separated by comma>**

Retrieves the Custom entity instance by id with selected properties

## Response

You will receive a '200 OK' response. The response includes the specified properties and their corresponding values for the Custom entity instance

## Example usage and its response

api/v1/129282/CustomEntity/BusinessComponent/SDK\_CarPark\_Car/454391fe-c0dc-4960-9534-f5e91517071e?  
properties=ID,License,Description,Account,PurchaseDate,Model>Showroom

```
1  {
2      "ID": "454391fe-c0dc-4960-9534-f5e91517071e",
3      "License": "NL561D",
4      "Description": "Aurora - Kamiq",
5      "Account": "e501b6bc-8a6a-40ff-b479-9a0cf1112e86",
6      "PurchaseDate": "2024-02-01T00:00:00",
7      "Model": "3b6f944a-616b-4363-987e-6341d89f610b",
8      "Showroom": "b8b075a0-9258-45c1-b772-0bddfd70a6ef"
9 }
```

You can also perform filter and select required properties

api/v1/129282/CustomEntity/BusinessComponent/SDK\_CarPark\_Car?\$select=License

**POST: Create a new Custom entity**

**Description:**

Creates a new Custom entity instance.

**Request:**

**api/v1/{division}/CustomEntity/**BusinessComponent/{entityname}****

This endpoint allows to create the new Custom entity instance

**POST Sample body:**

```
1 {  
2   "Properties": {  
3     "PropertyName": {  
4       "Value": "Test1",  
5       "ValueType": "String"  
6     }  
7   }  
8 }
```

**Example usage**

api/v1/129282/CustomEntity/BusinessComponent/SDK\_CarPark\_Car

Sample POST data (body)

```
1 {  
2   "Properties": {  
3     "Description": {  
4       "Value": "Audi A4 Crescent",  
5       "ValueType": "string"  
6     },  
7     "License": {  
8       "Value": "NL943X",  
9       "ValueType": "string"  
10    },  
11    "Model": {  
12      "Value": "8B68AF7C-0255-47CA-ABBD-7E4644B00C30",  
13      "ValueType": "guid"  
14    }  
15  }  
16 }
```

**Sample response:**

You will receive the '200 Ok' response. The response contains the properties and Key value

```
1 {  
2   "Description": {  
3     "Value": "Audi A4 Crescent",  
4     "ValueType": "string"  
5   },  
6   "License": {  
7     "Value": "NL943X",  
8     "ValueType": "string"  
9   },  
10  "Model": {  
11    "Value": "{8b68af7c-0255-47ca-abbd-7e4644b00c30}",  
12    "ValueType": "guid"  
13  },  
14  "ID": {  
15    "Value": "{39ec8e98-6cd6-4292-aa8f-d97897018245}",  
16    "ValueType": "string"  
17  }  
18 }
```

## PUT: Update a Custom entity

### Description:

Updates an existing Custom entity instance by its ID.

### Request:

**api/v1/{division}/CustomEntity/**BusinessComponent/{entityname}/{id}****

This endpoint allows to update the Custom entity Instance by entity id

### Response:

You will receive the '200 OK' response. The response contains the updated properties

Example usage:

api/v1/129282/CustomEntity/BusinessComponent/SDK\_CarPark\_Car/5cd9676d-e3de-4f9f-80f9-3401695637ce

### Sample body:

```
1 {
2     "Properties": {
3         "Description": {
4             "Value": "Audi Car",
5             "ValueType": "String"
6         }
7     }
8 }
```

### Sample response:

```
1 {
2     "Description": {
3         "Value": "Audi Car",
4         "ValueType": "String"
5     }
6 }
```

---

## DELETE: Delete a Custom entity by ID

### Description:

Deletes a Custom entity entry by its unique identifier i.e. Id

### Request:

**api/v1/{division}/CustomEntity/**BusinessComponent/{entityname}/{id}****

### Sample Response:

- **200 OK** (on successful deletion)

Example usage

api/v1/129282/CustomEntity/BusinessComponent/SDK\_CarPark\_Car/5cd9676d-e3de-4f9f-80f9-3401695637ce

## DELETE: Delete multiple Custom entities

### Description:

Deletes multiple Custom entity instances by specifying their IDs in the request body.

### Request:

**api/v1/{division}/CustomEntity/**BusinessComponent/{entityname}****

Example usage

api/v1/129282/CustomEntity/SDK\_EMP\_Applicant

**Sample body:**

Array of ids

```
[ "F975EAFC-6026-45F0-AC4B-593FC4A1AC24" , "E667D2DA-6D80-4A02-911C-  
9E4E9D1C4167" ]
```

**Sample Response:**

- 200 OK (on successful deletion)
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**Error responses**

- **403 Forbidden:** When the required feature set or function point is not available.
  - **404 Not Found:** When the entity is not a valid Custom Entity or is unavailable.
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**Notes**

- All endpoints require authentication and appropriate permissions.
- Use the correct division and entity names as configured in your environment.