

External System Integration

- ApiForms

BzCtrl. provides the ability to call predefined Forms through API communication using the **ApiForms** feature. This allows external systems to create and link Form instances directly from within their own operational processes.

The main value of ApiForms is that a user can launch a specific Form directly from the source system, while the created Form instance remains permanently accessible through a stored URL within that source system.

How ApiForms Work

Each ApiForm provides a unique API endpoint that allows an external system to create a new Form instance in BzCtrl.

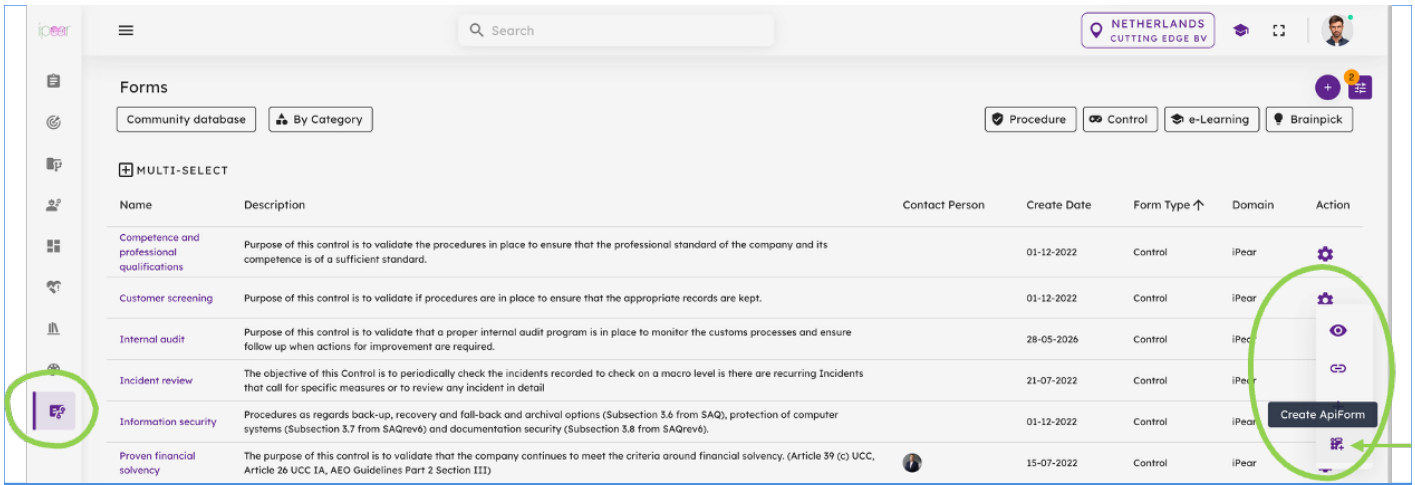
The request includes:

- Predefined Form reference (via API Endpoint)
- Tags and identifiers (for example an Order Number, Shipment Number, or Case ID).

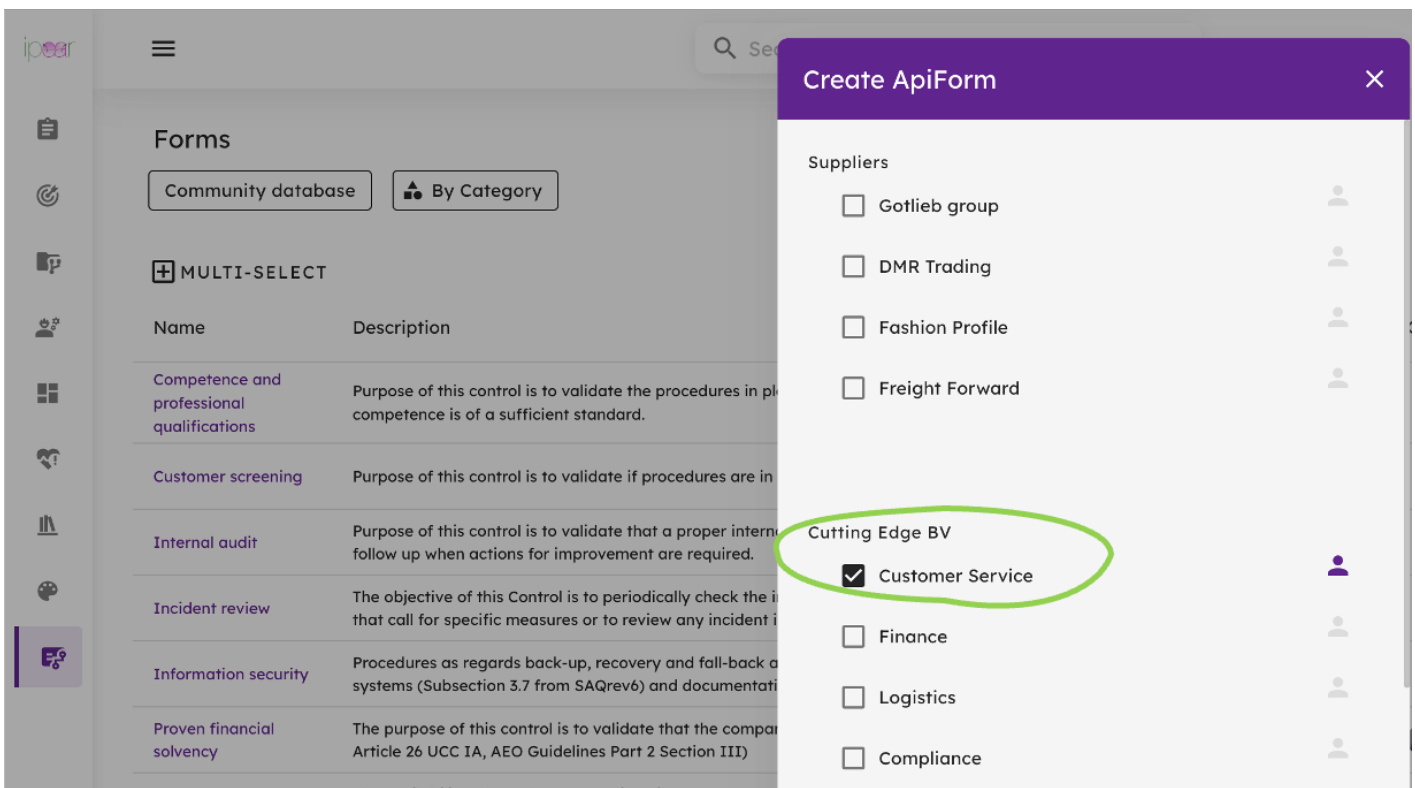
Once the Form instance is created, BzCtrl. returns a response containing the direct URL to the Form instance. This URL can then be stored in the source system, allowing users to always reopen the corresponding Form directly from their operational process.

User actions

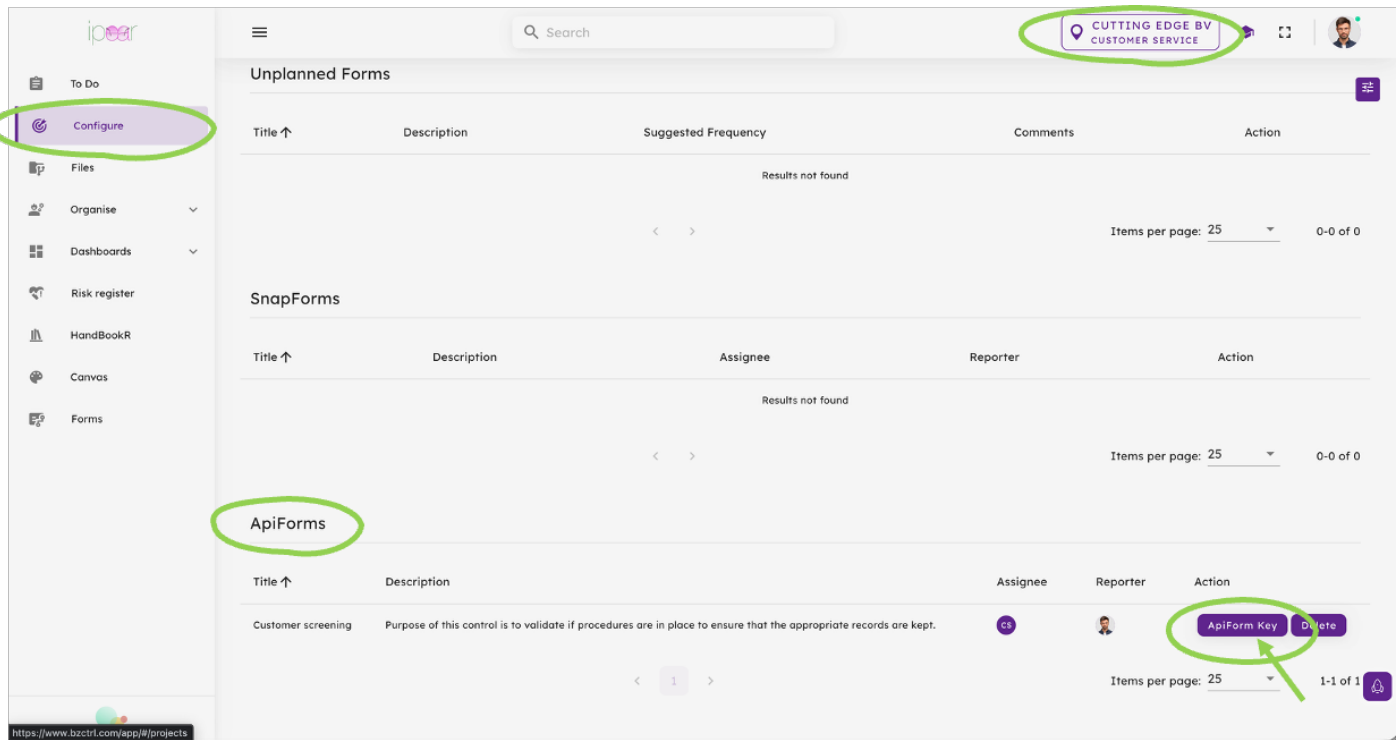
Step 1 - From the Forms Page the User can create an ApiForm via the Action Button for a specific Form;



Step 2 - Select the Workspace where the Form Instances should be created and stored;



Step 3 - From the Configure page the Form is now available as ApiForm. Please make sure the correct Workspace is selected (right top). From the ApiForms Table select the ApiForm Key Button to get the details to share with your developers.



Input to Developers External system

Step 1 - Authentication

Before an ApiForm can be called, the external application must authenticate with BzCtrl. Authentication is performed by sending a **POST** request to the appropriate authentication endpoint using credentials provided for API communication.

Endpoints

Acceptance Environment (ACC)

<https://acc.bzctrl.com/bzctrl-core-api/oauth/token>

Production Environment (PROD)

<https://bzctrl.com/bzctrl-core-api/oauth/token>

Request Method

POST

Request Body (x-www-form-urlencoded)

```
grant_type=password  
username=example@example.com
```

```
password=Ex@mpl3!
```

Sample Response

```
{
  "access_token": "xxxxxxxxxx",
  "refresh_token": "xxxxxxxxxx",
  "token_type": "Bearer",
  "expires_in": 3600,
  "scope": "*",
  "jti": "xxxxxxxxxx"
}
```

Result

Upon successful authentication, BzCtrl. returns an **access token** that must be included in subsequent API requests. The token serves as proof of authentication and authorizes communication with the BzCtrl. API. The token remains valid for the period specified in the `expires_in` field.

Step 2 - Api Form Key


Here you see the API Endpoint url to share with your developers, which use will result in the creation of a Form Instance of the respective Form on your selected Workspace. In the Body of the message Tags can be included, which is usually used for adding Order ID's to be recorded in the Form Instance.

 API Endpoint

```
https://www.bzctrl.com/bzctrl-core-api/api/v1/task/add-exposed-task/eyJwcm9qZWNO0SWQI0jQ2NCwiY29tcGFueUlkiJoxMDEsImNvbnRyb2xJZCI6MTQ1NCwiZW5jb2RlVXJsIjoIbmRkODVhODgtZGY5Ny00NDkzLWE2OWMtZjJjMmJjYjAzZDY1IiwiaWY3JiYXRvcklkIjo0MjEsImFzc2lnbmVlVXNlckdyb3VwSWQI0jEzMWid29ya1NwYWNIImFtZSI6Ikd1c3RvbWVvIFNlcnZpY2UiLCJyZXBvcnRlclVzZXJJZCI6NDIxLClJyZXBvcnRlclVzZXJOYW1IiwoiSmFtZXMGmQmlzaG9wIn0=
```

 Copy URL

POST request to update tags for a specific task

 Request Body Example

 You can update the tags value with your own tags as needed.

JSON Request

 Copy

```
{
  "tags": [
    "urgent",
    "bug-fix",
    "frontend"
  ]
}
```

 Sample Response

JSON Response

 Copy

```
{
  "title": "Fix navigation bug",
  "taskType": "CONTROL",
  "description": "Resolve issue with mobile navigation menu",
  "taskKey": "FED-98",
  "status": "TODO",
  "priority": null,
  "dueDate": null,
  "reminderDate": null,
  "completionDate": null,
  "taskLink": "https://example.com/#/todo/fed-98",
  "priorityLevel": 0,
  "assigneeUserGroupId": null,
  "creatorUserId": 1,
  "deleted": false,
  "isPrivate": false,
  "showResult": false,
  "tags": [
    "urgent",
    "bug-fix",
    "frontend"
  ],
  "assignee": "John Doe",
  "reporter": "Jane Smith",
  "taskAttributes": [],
  "watchers": [],
  "todoList": [],
  "categoryList": [],
  "subCategoryList": [],
  "company": "TechCorp Inc.",
  "project": "Website Redesign"
}
```

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After creation the Response message includes a Tasklink that can be stored to allow the user access to the Form Instance from the External system at any stage.

Revision #7

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