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IO

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Operations on io resources. 7 endpoints, each relative to <https://api.nxgen.cloud/api/v1> and authenticated as described under [Authentication](#).

POST /io/filter

Gets IO list with filtering, sorting and pagination. It allows hierarchical level searching. It can be filtered using specified hierarchy or it uses the logged in user hierarchy. This gives the option to get additional entity fields in the response. Also provides configuration meta data about entity.

Request body

IO filtering and sorting

```
{
  "filters": [
    {
      "columnName": "string (required)",
      "type": "distinctList | date | number | StringConditionFilter (required)",
      "filter": "object (required)"
    }
  ],
  "sortOrder": [
    {
      "columnName": "string",
      "isAscending": "boolean"
    }
  ],
  "primaryColumns": [
    "string"
  ],
  "hierarchyLevel": "string",
  "hierarchyId": "string",
  "nPerPage": "number",
  "pageNumber": "number",
  "isConfigDetailRequired": "boolean",
  "getConfig": "boolean",
  "getChildOrParent": "boolean"
}
```

Responses

StatusDescriptionBody200Successobject204No Content400Invalid input401Unauthorized403-

Forbidden

Example 200 response:

```
{
  "config": {
    "columns": [
      {
        "visibility": true,
        "columnName": "name",
        "DisplayName": "Name",
        "isFilterable": true,
        "filterType": "stringCondition",
        "sticky": true,
        "isMandatory": true,
        "isNotDraggable": true
      }
    ],
    "defaultNPerPage": 50,
    "defaultFilterCondition": [],
    "defaultSortingOrder": [
      {
        "columnName": "dateTime",
        "isAscending": false
      }
    ],
    "maxVisibleColumnCount": 6,
    "exportLimitNPerPage": 500
  },
  "dataResult": [
    {
      "dateTime": 1658329286975,
      "id": 1601,
      "name": "output test 1",
      "uniqueId": "e9fa037e0f2f4aa1a25c49da6f45ff84",
      "type": "output",
      "deviceId": "a6183f1072554391b99e7acc9428de26",
      "deviceName": "Device",
      "siteId": "f2b51c0f62c64d15a7b1acc5ea13082d",
      "siteName": "Axxon Site1",
      "customerId": "93b4ce9e41534f548d396ba4d2d5a2ed",
      "serviceProviderId": "e7f417cf4a434b5093a8173cdb40004f",
      "isLinkedWithMap": "false",
      "isEnabled": "true"
    }
  ],
  "totalRecordsCount": 3552,
  "filteredBy": [],
  "sortedBy": [
    {
      "columnName": "dateTime",
      "isAscending": false
    }
  ]
}
```

```
}  
],  
"dispatchedAll": false,  
"isDefaultProjectionMutated": false,  
"isDefaultFilterMutated": false,  
"isDefaultSortingMutated": false  
}
```

GET /io/getByDevice/{deviceId}

Get IO by Device Id

Parameters

NameInTypeRequiredDescriptiondeviceIdpathstringyes

Responses

StatusDescriptionBody200Success204No Content401Unauthorized403Forbidden404Not Found

POST /io/singleIO

Add new single IO device

Request body

Add Single IO device

```
{  
  "name": "string (required)",  
  "id": "number (required)",  
  "type": "input | output (required)",  
  "deviceId": "string (required)",  
  "jsonSchemaResult": "object"  
}
```

Responses

StatusDescriptionBody200Success204No Content401Unauthorized403Forbidden404Not Found

Example 200 response:



```
{
  "isSuccess": true
}
```

GET /io/singleIO/{uniqueId}/{deviceId}/{type}

Get single IO detail

Parameters

NameInTypeRequiredDescriptionuniqueIdpathstringyesdeviceIdpathstringyestypepathstringyes

Responses

StatusDescriptionBody200Successobject400Invalid input401Unauthorized403Forbidden404Not Found

Example 200 response:

```
{
  "id": 4547,
  "name": "output 3",
  "uniqueId": "9ccadb73fdde4760a6e64479706090b8",
  "associatedDeviceId": "2781f633d4334d189211320596db4dc6",
  "dateTime": 1657874428326,
  "jsonSchemaResult": {}
}
```

PUT /io/singleIO/{uniqueId}/{deviceId}/{type}

Update single IO device

Parameters

NameInTypeRequiredDescriptionuniqueIdpathstringyesdeviceIdpathstringyestypepathstringyes

Request body

To update a IO, provide existing UniqueId

```
{
  "id": "number",
  "name": "string",
}
```

```
"jsonSchemaResult": "object"
}
```

Responses

StatusDescriptionBody200Success400Invalid input401Unauthorized403Forbidden404Not Found

Example 200 response:

```
{
  "isSuccess": true
}
```

DELETE /io/singleIO/{uniqueId}/{deviceId}/{type}

Delete single IO device

Parameters

NameInTypeRequiredDescriptionuniqueIdpathstringyesdeviceIdpathstringyestypepathstringyes

Responses

StatusDescriptionBody200Success400Invalid input401Unauthorized403Forbidden404Not Found

Example 200 response:

```
{
  "isSuccess": true
}
```

GET

/io/triggerIO?deviceId={deviceId}&relay={relay}&action={action}

To Trigger IO

Parameters

NameInTypeRequiredDescriptiondeviceIdquerystringyesDevice IdrelayquerystringyesIO Device Id(IO id)-
actionquerystringyesIO State

Responses

StatusDescriptionBody200Success401Unauthorized404Not Found