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# API-REST of the Integrated 3D Printing Framework   v2   OAS3

Documentation of all the routes available in the API-REST and data models

## Docs   ⌃

| GET | /api/Docs/pdf/{orderId} | Download a PDF with the information of a filament spool (GUID, Date and QR code) | ⌄ |
|---|---|---|---|

## Management   ⌃

| GET | /api/Management/materials | Get a list of the materials with the data of their properties | ⌄ |
|---|---|---|---|
| GET | /api/Management/material/detail/{materialId} | Get the data of an specific material | ⌄ |
| GET | /api/Management/properties | Get a list of the values of each propertie | ⌄ |
| GET | /api/Management/property/detail/{propertyId} | Get a list of the values of a specific property | ⌄ |
| GET | /api/Management/material/schema | Get a list of materials with their related properties | ⌄ |
| GET | /api/Management/order/list | Get a list of orders | ⌄ |
| GET | /api/Management/nodes/list | Get a list with the data of each node | ⌄ |
| POST | /api/Management/property/new | Create a new property to consider in the Material-Helping section of the user application | ⌄ |
| POST | /api/Management/material/new | Create a new material | ⌄ |
| POST | /api/Management/order/new | Create a new order | ⌄ |

**POST** `/api/Management/settings/bundle-file` Add new settings of the Cloud CAM ⌄

**POST** `/api/Management/settings/bundle-lines` Add new settings of the Cloud CAM ⌄

**PUT** `/api/Management/property/visibility /{propertyId}/{visible}` Update the visibility of a property for an user in the Material-Helping section ⌄

**PUT** `/api/Management/material/update-material` Update the value of any property of a material (evaluation) ⌄

**PUT** `/api/Management/property/update-property` Update the value of any property of a material (evaluation) ⌄

**PUT** `/api/Management/order/update` Update the value of any property of an order ⌄

**PUT** `/api/Management/order/mark-received /{orderId}` Mark an order as received or not ⌄

**PUT** `/api/Management/order/mark-spended/{nodeId} /{materialId}/{amount}` Mark a filament spool as finished ⌄

**DELETE** `/api/Management/property/delete/{propertyId}` Delete a property of the BBDD ⌄

**DELETE** `/api/Management/material/delete/{materialId}` Delete a material of the BBDD ⌄

# Process ⌃

**GET** `/api/Process/db` Router for testing the proper connection ⌄

**GET** `/api/Process/available-materials /{printerName}/{nodeID}` Getting printer information, materials and assistance to the selection of materials. ⌄

**POST** `/api/Process/slice` Generation of a G-Code file from a STL file (body parameter) ⌄

**POST** `/api/Process/uploadSTL` This function upload a STL file. ⌄

## Schemas ⌃

**ConfigDTO**                                                              ↩

**Evaluation**                                                             ↩

**Filament**                                                               ↩

**Material**                                                               ↩

**Node**                                                                   ↩

**Order**                                                                  ↩

**Print**                                                                  ↩

**Property**                                                               ↩

**Stock**                                                                  ↩
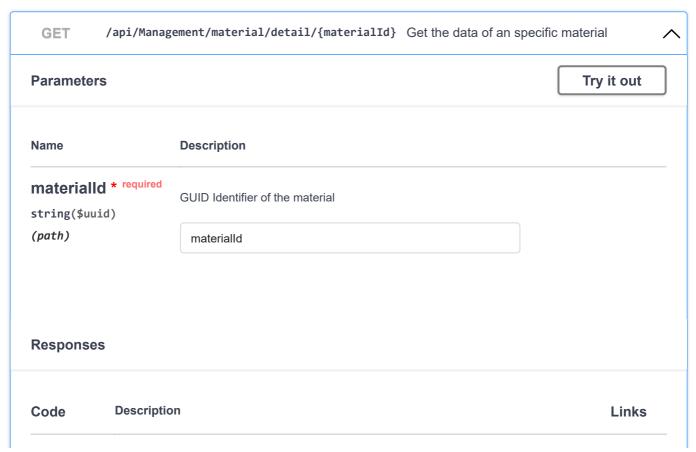
{⋯}

File ▾      Edit ▾      Insert ▾      Generate Server ▾      Generate Client ▾

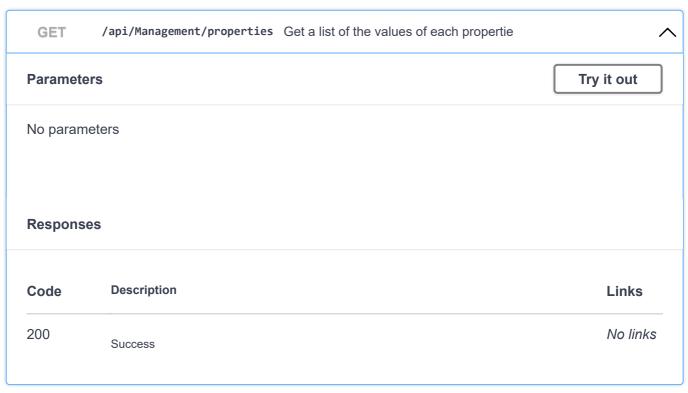# API-REST of the Integrated 3D Printing Framework  v2  OAS3

Documentation of all the routes available in the API-REST and data models

## Docs  ∧

| GET | /api/Docs/pdf/{orderId} | Download a PDF with the information of a filament spool (GUID, Date and QR code) | ∧ |

### Parameters                                                    Try it out

| Name | Description |
|------|-------------|
| **orderId** * required<br>string($uuid)<br>*(path)* | GUID of an order<br><br>orderId |

### Responses

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

## Management  ∧

| GET | /api/Management/materials | Get a list of the materials with the data of their properties | ∧ |

### Parameters                                                    Try it out

| Name | Description |
|---|---|

### includeProperties
**boolean**

**(query)**

Boolean to include data of non-visible properties

*Default value* : true

> true

### nodeStock
**string($uuid)**

**(query)**

GUID of the stock of the node

> nodeStock

### forUsers
**boolean**

**(query)**

Boolean to indicate if it requested by an user or a service provider

*Default value* : false

> false

## Responses

| Code | Description | Links |
|---|---|---|
| 200 | Success | *No links* |

---

**GET**    **/api/Management/material/detail/{materialId}**   Get the data of an specific material   ∧

## Parameters

[ Try it out ]

| Name | Description |
|---|---|

### materialId * required
**string($uuid)**

**(path)**

GUID Identifier of the material

> materialId

## Responses

| Code | Description | Links |
|---|---|---|

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

---

**GET**    `/api/Management/properties`   Get a list of the values of each propertie    ∧

**Parameters**                                                    **Try it out**

No parameters

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

---

**GET**    `/api/Management/property/detail/{propertyId}`   Get a list of the values of a specific property    ∧

**Parameters**                                                    **Try it out**

| Name | Description |
|------|-------------|

**propertyId** * **required**
`string($uuid)`
*(path)*

GUID of the property

| propertyId |
|------------|

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

**GET**     `/api/Management/material/schema`   Get a list of materials with their related properties      ∧

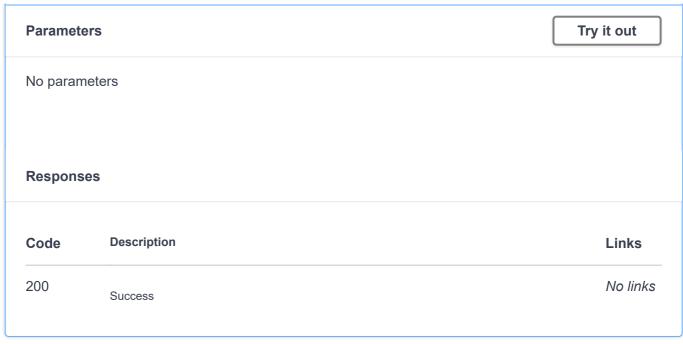**Parameters**                                        **Try it out**

No parameters

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

---

**GET**     `/api/Management/order/list`   Get a list of orders      ∧

**Parameters**                                          **Try it out**

| Name | Description |
|------|-------------|
| status<br>integer($int32)<br>(query) | 0: all, 1:pending, 2: delivering, 3:finished<br><br>*Default value* : 0<br><br>`0` |
| nodeId<br>string($uuid)<br>(query) | GUID of the node that request the information<br><br>`nodeId` |

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

---

**GET**     `/api/Management/nodes/list`   Get a list with the data of each node      ∧

## Parameters

<div align="right">

**Try it out**

</div>

No parameters

## Responses

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

---

**POST** `/api/Management/property/new` Create a new property to consider in the Material-Helping section of the user application ⌃

## Parameters

<div align="right">

**Try it out**

</div>

No parameters

Request body

**application/json**

Object that represents a property

**Example Value**   Schema

```
{
  "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "name": "string",
  "isDichotomous": true,
  "unit": "string",
  "moreIsBetter": true,
  "helpText": "string",
  "visible": true,
  "isDichotomousStr": "string",
  "moreIsBetterStr": "string"
}
```

## Responses

| Code | Description | Links |
|------|-------------|-------|

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

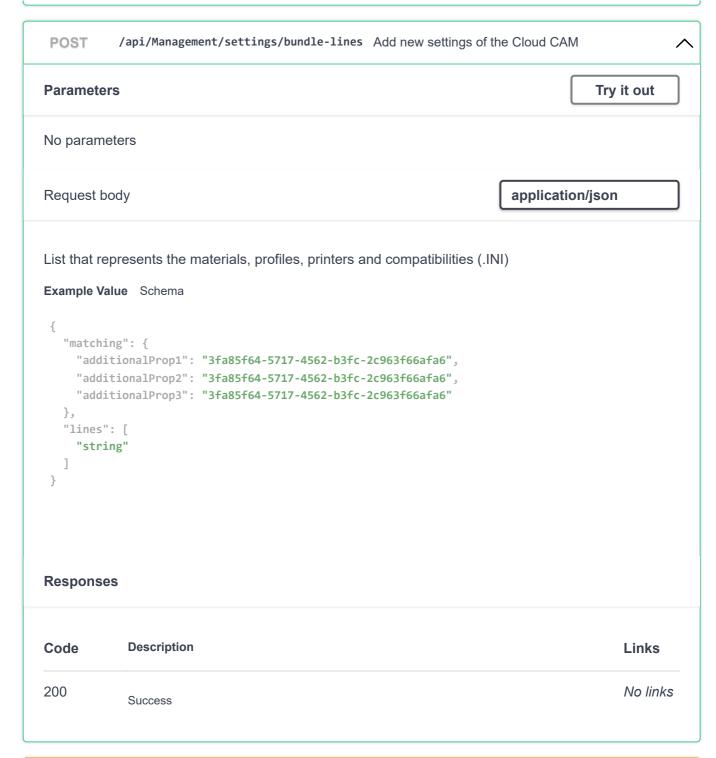---

**POST** `/api/Management/material/new` Create a new material ⌃

**Parameters**

<div align="right">

**Try it out**

</div>

No parameters

Request body

application/json

Object that represents a property

**Example Value**  Schema

```
{
  "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "name": "string",
  "description": "string",
  "deprecated": true,
  "evaluations": [
    {
      "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
      "property": {
        "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
        "name": "string",
        "isDichotomous": true,
        "unit": "string",
        "moreIsBetter": true,
        "helpText": "string",
        "visible": true,
        "isDichotomousStr": "string",
        "moreIsBetterStr": "string"
      },
      "valueDec": 0,
      "valueBin": true,
      "valueBinStr": "string"
    }
```
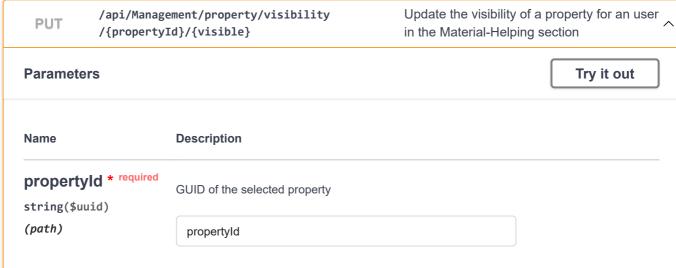
**Responses**

| Code | Description | Links |
|------|-------------|-------|

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

---

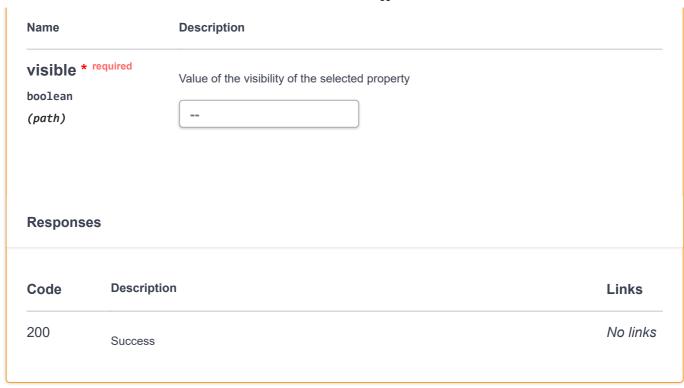POST    **/api/Management/order/new**   Create a new order      ∧

**Parameters**                              **Try it out**

No parameters

Request body                            **application/json**

Object that represents an order

**Example Value**    Schema

```
{
  "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "nodeFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "node": {
    "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "name": "string",
    "isProvider": true,
    "orders": [
      "string"
    ]
  },
  "providerFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "materialFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "material": {
    "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "name": "string",
    "description": "string",
    "deprecated": true,
    "evaluations": [
      {
        "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
        "property": {
          "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
```

**Responses**

| Code | Description | Links |
|------|-------------|-------|

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

POST    `/api/Management/settings/bundle-file`   Add new settings of the Cloud CAM    ⌃

**Parameters**                                                          Try it out

No parameters

Request body                                                    multipart/form-data

ContentType

**string**

ContentDisposition

**string**

Headers

**object**

Length

**integer($int64)**

Name

**string**

FileName

**string**

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

## POST  /api/Management/settings/bundle-lines  Add new settings of the Cloud CAM  ∧

### Parameters                                                                    Try it out

No parameters

Request body                                                      application/json

List that represents the materials, profiles, printers and compatibilities (.INI)

**Example Value**    Schema

```
{
  "matching": {
    "additionalProp1": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "additionalProp2": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "additionalProp3": "3fa85f64-5717-4562-b3fc-2c963f66afa6"
  },
  "lines": [
    "string"
  ]
}
```

### Responses

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

## PUT  /api/Management/property/visibility  Update the visibility of a property for an user  ∧
/{propertyId}/{visible}  in the Material-Helping section

### Parameters                                                                    Try it out

| Name | Description |
|------|-------------|

**propertyId** * required
string($uuid)
*(path)*

GUID of the selected property

propertyId

| Name | Description |
|------|-------------|

**visible** \* required

boolean

(path)

Value of the visibility of the selected property

```
--
```

## Responses

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

---

| **PUT** | `/api/Management/material/update-material` | Update the value of any property of a material (evaluation) | ⌃ |
|---------|---------------------------------------------|------------|---|

**Parameters**                                                  Try it out

No parameters

Request body                                              application/json

Object of a material with the updated data of the evaluation of its properties

**Example Value**   Schema

```
"id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
"materialFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
"nodeFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
"spoolQuantity": 0,
"node": {
  "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "name": "string",
  "isProvider": true,
  "orders": [
    {
      "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
      "nodeFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
      "node": "string",
      "providerFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
      "materialFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
      "material": "string",
      "spoolQuantity": 0,
      "creationDate": "2022-07-07T10:54:02.104Z",
      "delivered": true,
      "shippingDate": "2022-07-07T10:54:02.104Z",
      "finishedDate": "2022-07-07T10:54:02.104Z"
```

```
    }
  ]
},
```

▼

## Responses

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

---

| **PUT** | **/api/Management/property/update-property** | Update the value of any property of a material (evaluation) | ∧ |

### Parameters

**Try it out**

No parameters

**Request body**

**application/json**

Object with the updated values of a property

**Example Value**  Schema

```
{
  "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "name": "string",
  "isDichotomous": true,
  "unit": "string",
  "moreIsBetter": true,
  "helpText": "string",
  "visible": true,
  "isDichotomousStr": "string",
  "moreIsBetterStr": "string"
}
```

### Responses

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

**PUT**    `/api/Management/order/update`    Update the value of any property of an order    ⌃

## Parameters

[ Try it out ]

No parameters

Request body                    [ application/json ]

Object with the updated values of an order

**Example Value**    Schema

```
    "filaments": [
      {
        "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
        "name": "string",
        "iniKeyword": "string",
        "materialFK": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
        "material": "string",
        "compatiblePrints": [
          {
            "id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
            "name": "string",
            "iniKeyword": "string"
          }
        ]
      }
    ]
  },
  "spoolQuantity": 0,
  "creationDate": "2022-07-07T10:54:02.113Z",
  "delivered": true,
  "shippingDate": "2022-07-07T10:54:02.113Z",
  "finishedDate": "2022-07-07T10:54:02.113Z"
}
```

## Responses

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

**PUT**    `/api/Management/order/mark-received /{orderId}`    Mark an order as received or not    ⌃

## Parameters

[ Try it out ]

| Name | Description |
|------|-------------|

**orderId** * **required**

**string($uuid)**

*(path)*

GUID of an order

orderId

## Responses

| Code | Description | | Links |
|------|-------------|--|-------|
| 200 | Success | | *No links* |

---

| PUT | /api/Management/order/mark-spended/{nodeId}/{materialId}/{amount} | Mark a filament spool as finished | ∧ |
|-----|------------------------------------------------------------------|----------------------------------|---|

### Parameters

[ Try it out ]

| Name | Description |
|------|-------------|

**nodeId** * **required**

**string($uuid)**

*(path)*

GUID of the node

nodeId

**materialId** * **required**

**string($uuid)**

*(path)*

GUID of the material

materialId

**amount** * **required**

**integer($int32)**

*(path)*

Value of the new amount of filament spools

amount

## Responses

| Code | Description | | Links |
|------|-------------|--|-------|

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

---

**DELETE**   /api/Management/property/delete/{propertyId}   Delete a property of the BBDD   ∧

**Parameters**                                              [ **Try it out** ]

| Name | Description |
|------|-------------|

**propertyId** * required

string($uuid)

*(path)*

GUID of a property

[ propertyId ]

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

---

**DELETE**   /api/Management/material/delete/{materialId}   Delete a material of the BBDD   ∧

**Parameters**                                              [ **Try it out** ]

| Name | Description |
|------|-------------|

**materialId** * required

string($uuid)

*(path)*

GUID of a material

[ materialId ]

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

# Process ⌃

| GET | **/api/Process/db** Router for testing the proper connection | ⌃ |

**Parameters** <span style="float:right">**Try it out**</span>

No parameters

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

| GET | **/api/Process/available-materials /{printerName}/{nodeID}** | Getting printer information, materials and assistance to the selection of materials. ⌃ |

**Parameters** <span style="float:right">**Try it out**</span>

| Name | Description |
|------|-------------|
| **printerName** * required<br>**string**<br>*(path)* | Name of the printer<br>[ printerName ] |
| **nodeID** * required<br>**string($uuid)**<br>*(path)* | [ nodeID ] |

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

---

**POST** `/api/Process/slice`  Generation of a G-Code file from a STL file (body parameter)  ∧

**Parameters**

Try it out

| Name | Description |
|------|-------------|
| printer<br>**string**<br>*(query)* | name of the printer<br><br>[ printer ] |
| filament<br>**string**<br>*(query)* | name of the material<br><br>[ filament ] |
| print<br>**string**<br>*(query)* | name of the profile<br><br>[ print ] |
| support<br>**string**<br>*(query)* | if contains support material or not<br><br>[ support ] |

**Responses**

| Code | Description | Links |
|------|-------------|-------|
| 200 | Success | *No links* |

---

**POST** `/api/Process/uploadSTL`  This function upload a STL file.  ∧

## Parameters

<div style="text-align: right">

**Try it out**

</div>

No parameters

## Responses

| Code | Description | Links |
|------|-------------|-------|
| 200  | Success     | *No links* |

---

## Schemas

↰

**ConfigDTO**    {

    **matching**

        {

          < * >:        **string**($uuid)
                           *nullable: true*

        }
        *nullable: true*

    **lines**
          [
        *nullable: true*
        **string**]

}

**Evaluation**    {

    `id`                      `string($uuid)`

    `property`

                             **Property**    {...}

    `valueDec`               `number($double)`
                             *nullable: true*

    `valueBin`               `boolean`
                             *nullable: true*

    `valueStr`               `string`
                             *nullable: true*
                             *readOnly: true*

    `valueBinStr`          `string`
                             *nullable: true*

    `binOptions`

                              [
                             *nullable: true*
                             *readOnly: true*
                             `string]`

}

**Filament**    {

    `id`                      `string($uuid)`
    `name`                  `string`
                             *nullable: true*

    `iniKeyword`           `string`
                             *nullable: true*

    `materialFK`            `string($uuid)`

    `material`

                             **Material**    {...}

    `compatiblePrints`

                              [
                             *nullable: true*

                             **Print**    {...}]

}

**Material**   {
    id                            **string**($uuid)
    name                        **string**
                                *nullable: true*
    description              **string**
                                *nullable: true*
    deprecated              **boolean**
    evaluations
                                [
                                *nullable: true*

                                **Evaluation**   {...}]
    stock                      **Stock**   {...}
    spoolQuantity         **string**
                                  *nullable: true*
                                *readOnly: true*
    filaments
                                [
                                *nullable: true*

                                **Filament**   {...}]

}


**Node**   {
    id                            **string**($uuid)
    name                        **string**
                                  *nullable: true*
    isProvider              **boolean**
    orders
                                [
                                *nullable: true*

                                **Order**   {...}]

}

## Order     {

```
    id                      string($uuid)
    nodeFK                  string($uuid)
    node
```
### Node     {...}
```
    providerFK              string($uuid)
    materialFK              string($uuid)
    material
```
### Material     {...}
```
    spoolQuantity           integer($int32)
    creationDate            string($date-time)
    delivered               boolean
    shippingDate            string($date-time)
                            nullable: true
    finishedDate            string($date-time)
                            nullable: true
    status                  string
                            nullable: true
                            readOnly: true

}
```

## Print     {

```
    id                      string($uuid)
    name                    string
                            nullable: true
    iniKeyword              string
                            nullable: true

}
```

↵

## Property {

| | |
|---|---|
| id | string($uuid) |
| name | string |
| | *nullable: true* |
| isDichotomous | boolean |
| unit | string |
| | *nullable: true* |
| moreIsBetter | boolean |
| | *nullable: true* |
| helpText | string |
| | *nullable: true* |
| visible | boolean |
| dichotomousOptions | [ |
| | *nullable: true* |
| | *readOnly: true* |
| | string] |
| moreIsBetterOptions | [ |
| | *nullable: true* |
| | *readOnly: true* |
| | string] |
| isDichotomousStr | string |
| | *nullable: true* |
| moreIsBetterStr | string |
| | *nullable: true* |

}

**Stock** {
    id                        **string**($uuid)
    materialFK            **string**($uuid)
    nodeFK                **string**($uuid)
    spoolQuantity      **integer**($int32)
    node

    **Node**  {...}

    material

    **Material** {
        id                   **string**($uuid)
        name              **string**
                              *nullable: true*
        description     **string**
                              *nullable: true*
        deprecated      **boolean**
        evaluations
                        [
                              *nullable: true*

        **Evaluation**  {...}]
        stock
                        {

                        }
        spoolQuantity    **string**
                              *nullable: true*
                              *readOnly: true*
        filaments
                        [
                              *nullable: true*

        **Filament**  {...}]

    }

}