

4.7 ElementType Service

ElementType Service

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ElementType Service

Element type describes the type of predefined building elements required to build a building (eg: wall, window, door etc) Each element type have an unique id. Please see the detailed structure of the ElementType in the [Object Model](#)

The available element types can be found under [2.1.4.1 Bimplus Element Types](#)

Get the element types

URL / Resource / JSON Structure

Resource: element-types

URL: https://api-stage.bimplus.net/v2/<team_slug>/element-types

Example: <https://api-stage.bimplus.net/v2/bimplus/element-types>

HTTP Method

GET

Description

Gets the list of existing element types.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

JSON

```
[
  {
    "type": "Column",
    "category": "/1/10/2/",
    "name": "ID_ArchColumn",
    "ifcType": "ID_IFCColumn",
    "id": "2e308afe-d078-4c20-b53c-76b2da66d848"
  },
  {
    "type": "DoorOpening",
    "category": "/5/1/",
    "name": "ID_ArchDoorOpening",
    "ifcType": "ID_IFCOpeningElement",
    "id": "9eaf09c4-1f56-43ee-b008-5291ec50e7e1"
  },
  {
    "type": "Foundation",
    "category": "/1/10/6/",
    "name": "ID_ArchFoundation",
    "ifcType": "ID_IFCFooting",
    "id": "3a508cf2-bb2f-4cc5-9b8c-fbc1a5848bba"
  },
  ...
]
```

Get the element type properties

URL / Resource / JSON Structure

Resource: element-types/<element_type_id>

URL: https://api-stage.bimplus.net/v2/<team_slug>/element-types/<element_id>

Example: <https://api-stage.bimplus.net/v2/bimplus/element-types/e504f24c-e643-452b-b901-6a18883dc7e9>

HTTP Method

GET

Description

Get the properties of a specified element type.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
{
  "type": "DoorOpening",
  "category": "/5/1/",
  "name": "ID_ArchDoorOpening",
  "ifcType": "ID_IFCOpeningElement",
  "id": "9eaf09c4-1f56-43ee-b008-5291ec50e7e1"
}
```

Get the list of existing layers

URL / Resource / JSON Structure

Resource: element-types/disciplines

URL: https://api-stage.bimplus.net/v2/<team_slug>/element-types/disciplines

Example: <https://api-stage.bimplus.net/v2/bimplus/element-types/disciplines>

HTTP Method

GET

Description

Gets the list of existing layers.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
{
  "0f106af0-a919-44c5-b211-15bd5ef620b6": {
    "category": "/1/",
    "name": "ID_BuildingModel",
    "ifcType": null,
    "id": "0f106af0-a919-44c5-b211-15bd5ef620b6"
  },
  "a330fde2-1a2f-48ed-a6e3-90b92965dca6": {
    "category": "/19/",
    "name": "ID_CollisionModel",
    "ifcType": null,
    "id": "a330fde2-1a2f-48ed-a6e3-90b92965dca6"
  },
  "35f37ale-c724-453d-a994-6381655ba38f": {
    "category": "/15/",
    "name": "ID_ConstructionSiteModel",
    "ifcType": null,
    "id": "35f37ale-c724-453d-a994-6381655ba38f"
  },
  ...
}
```

Get all element types of a layer

URL / Resource / JSON structure

Resource: element-types

URL: https://api-stage.bimplus.net/v2/<team_slug>/element-types/disciplines/<discipline_id>

Example: <https://api-stage.bimplus.net/v2/bimplus/element-types/disciplines/0f106af0-a919-44c5-b211-15bd5ef620b6>

HTTP Method

GET

Description

Get all element types of given layer

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
[
  {
    "type": "Column",
    "category": "/1/10/2/",
    "name": "ID_ArchColumn",
    "ifcType": "ID_IFCColumn",
    "id": "2e308afe-d078-4c20-b53c-76b2da66d848"
  },
  {
    "type": "Foundation",
    "category": "/1/10/6/",
    "name": "ID_ArchFoundation",
    "ifcType": "ID_IFCFooting",
    "id": "3a508cf2-bb2f-4cc5-9b8c-fbc1a5848bba"
  },
  ...
]
```

Get all element types in a tree view

URL / Resource / JSON structure

Resource: element-types

URL: https://api-stage.bimplus.net/v2/<team_slug>/element-types/topology

Example: <https://api-stage.bimplus.net/v2/bimplus/element-types/topology>

HTTP Method

GET

Description

Get all Bimplus element types in a tree view

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
[
  ...
  {
    "type": "BuildingObject",
    "layer": "BuildingModel",
    "name": "ID_Bauteilobjekte",
    "children": [
      {
        "type": "Wall",
        "layer": "BuildingModel",
        "name": "ID_ArchWall",
        "children": null,
        "category": "/1/10/1/",
        "ifcType": "ID_IFCWallStandardCase",
        "id": "10074eef-9418-4d64-9c6d-23932835a7f1"
      },
      {
        "type": "Column",
        "layer": "BuildingModel",
        "name": "ID_ArchColumn",
        "children": null,
        "category": "/1/10/2/",
        "ifcType": "ID_IFCColumn",
        "id": "2e308afe-d078-4c20-b53c-76b2da66d848"
      },
    ],
  },
  ...
]
```