

Making an order request with the Cockpit 3D Order API

Authentication

All requests to the Cockpit3D API must be authenticated. This is done via the Basic access authentication scheme using the account's email address as a username, and a provided API token as the password.

https://en.wikipedia.org/wiki/Basic_access_authentication

Forming a request

At the root level, an order request consists of an array of *OrderRequestPayload* objects:

```
{  
  payloads: OrderRequestPayload[];  
}
```

Each *OrderRequestPayload* consists of an *OrderRequestPayloadOrder*, and an array of *OrderRequestPayloadAsset*, representing the images.

```
OrderRequestPayload {  
  order: OrderRequestPayloadOrder;  
  assets: OrderRequestPayloadAsset[];  
}
```

An *OrderRequestPayloadOrder* is formed using the fields below:

```
{  
  /**  
   * The type of file expected. In this case this value is always "ci"  
   */  
  fileType: "ci";  
  
  /**  
   * The time (in hours) that the order should be completed in  
   */  
  time: number;  
  
  /**  
   * The ID of the designer selected to complete the order  
   */  
  designerId: number;  
  
  /**
```

```
 * The number of half bodies in the image
 */
numberOfHalfBodies?: number;

/** 
 * The number of full bodies in the image
 */
numberOfFullBodies?: number;

/** 
 * The number of objects in the image
 */
numberOfObjects?: number;

/** 
 * The number of chests in the image
 */
numberOfChests?: number;

/** 
 * An optional backdrop to include
 */
backdrop?: "2d_backdrop" | "3d_backdrop";

/** 
 * If the image is to be optimized
 */
optimizeImage?: boolean;

/** 
 * If the image is to be HD Enhanced
 */
hdEnhancement?: boolean;

/** 
 * Photo fixing instructions. A charge for photo fixing will be added if this
is anything but null
 */
photoFixing?: string;

/** 
 * The first line of text to include
 */
line1?: string;
```

```
 /**
 * The second line of text to include
 */
line2?: string;

 /**
 * Any additional instructions
 */
instructions?: string;

 /**
 * An optional unique ID
 */
uniqueId?: string;
}
```

An *OrderRequestPayloadAsset* is formed using the fields below:

```
{
 /**
 * An ID unique to the image
 */
id: string;

 /**
 * The image data encoded as a Data URI. See
https://en.wikipedia.org/wiki/Data\_URI\_scheme
 * eg. "... "
 */
content: string;

 /**
 * The original filename of the image
 */
filename: string;
}
```

Selecting a value for “designerId”

To select an appropriate designer ID when forming an *OrderRequestPayloadOrder*, the developer must make a GET request to the designers API, which provides a list of the designers available to a user.

GET <https://3d.cockpit3d.com/api/designers>

An example response is below:

```
{  
  "designers": [  
    {  
      "availablePriorities": [24, 12, 6, 5, 4, 3, 2],  
      "availableFileTypes": ["clipping", "ci", "cad", "dxf", "cbf"],  
      "id": 2032,  
      "name": "A Team",  
      "status": "active"  
    },  
    {  
      "availablePriorities": [24, 12],  
      "availableFileTypes": ["ci", "cad", "dxf", "cbf"],  
      "id": 2062,  
      "name": "B Team",  
      "status": "active"  
    }  
  ]  
}
```

The designer that the developer selects should meet the following requirements.

- 1) The designer’s **availablePriorities** array should include the value of the *OrderRequestPayloadOrder*’s **time** field
- 2) The designer’s **availableFileTypes** array should include the value of the *OrderRequestPayloadOrder*’s **fileType** field

The selected designer’s **id** field should then be used as the value for the **designerId** field of the *OrderRequestPayloadOrder*.

A fully formed request might look like below:

```
{
  "payloads": [
    {
      "order": {
        "fileType": "ci",
        "time": 24,
        "designerId": 2032,
        "numberOfChests": 1,
        "numberOfObjects": 1,
        "optimizeImage": true,
        "line1": "First line of text",
        "line2": "Second line of text",
        "uniqueId": "ABC123"
      },
      "assets": [
        {
          "id": "L8P307KR7S9I",
          "content": "...",
          "filename": "test.png"
        }
      ]
    }
  ]
}
```

Sending a request

When you're reading to send a payload, you can POST it to the URL below:

POST <https://3d.cockpit3d.com/api/orders>

Be sure to set the **Content-Type** header to **application/json** and include the authentication header.

An example response is below:

```
{  
  "message": "OK",  
  "orders": [  
    {  
      "hqOrderGid": "325575",  
      "hqOrderId": "330653",  
      "orderNumber": "L8P66RJJLIII",  
      "uniqueId": "ABC123"  
    }  
  ]  
}
```

The developer can store the **hqOrderId** value of each order object in the response to refer to the order later.