

## **Rayvision Render API Protocal Description**



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### Revision History

| Version | Date        | Edited By | Description  |
|---------|-------------|-----------|--|
| V3. 0   | 2-Nov-2018  | Yue Li    | Error code description added; And status code added to the task list query |
| V2. 0   | 11-0ct-2018 | Yue Li    |  |
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## General parameter guide

## HTTP request header

| Request header | Instruction  | Memo  |
|----------------|--|---|
| accessId       | ID authorization   | Provided by render platform   |
| channel        | Channel reminer  | Fixed value: 4  |
| platform       | Platform identification                                  |   |
| UTCTimestamp   | Timestamp  | UTC Time stamp (seconds)  |
| nonce          | Random number  | Replay attacks prevention   |
| signature      | Digital signature (Not processed by signature algorithm) | Generated according to the signature rule, for Details: Signature Generation Rule |
| version        | Version info   | 1.0.0   |

### **Request parameter**

Refer the separate request parameter for details

Return data structure

| Parameter  | Data type | Description                             | Memo  |
|------------|-----------|---|---|
| version    | String    | Version info                            | Fixed value : 1.0.0                               |
| result     | Boolean   | Indicates the request result.           |   |
| message    | String    | A message indicates the request result. |   |
| code       | Integer   | request return code                     | For reference: error code description             |
| serverTime | Long      | Server timestamp                        | UTC +8  |
| data       | Т         | Return data details                     | Check interface guide for details:<br>Return data |

### Signature generation rules

Apply for security credentials:

accessId is used to identify the API caller identity, and the accessKey is the key that used to encrypt the signature string, and validate the signature string on the server-side. User must keep the security credentials strictly to prevent disclosure.

#### Generate signature string:

With the security credentials accessId and accessKey, you can generate a signature string.

The signature range includes custom http request headers and method request bodies

Assume the accessId and accessKey of the user are as below:

accessId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE accessKey: Gu5t9xGARNpq86cd98joQYCN3EXAMPLE

#### Signature method:

#### 1. Sort the parameters

## First sort all custom http request headers and request parameters in ascending order by lexicographical order (ASCII) of the parameter name

Header:

"renderEnvs":[{
 envId:1

envId:3

}, {

pluginIds: [2, 3, 4]

```
"accessId": AKIDz8krbsJ5vKBZQpn74WFkmLPx3EXAMPLE,
    "channel": 7,
    "platform": 1,
    "UTCTimestamp": 1535957371,
    "nonce": 11886,
    "version": "1.0.0"
}
Body:
    "zone":2
After ascending order sorting:
    "UTCTimestamp":1535957371,
    "accessId": AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE,
    "channel":7.
    "nonce":11886,
    "platform":1,
    "version": 1.0.0,
    "zone":2
For the request structure of complex objects, supplementary description of parameter formatting is needed
to be added, the subscript is needed to be added on the array, and parent-child object attributes are
connected using "."
For instance:
# There may be parameter passing of complex objects in the later slabele, for instance
    "taksId":2
```

```
pluginIds:[7, 8, 10]

}]

# The formatting result is as follows

{
    "taksId":2
    "renderEnvs0. envId":1
    "renderEnvs0. pluginIds0":2
    "renderEnvs0. pluginIds1":3
    "renderEnvs0. pluginIds2":4
    "renderEnvs1. envId":3
    "renderEnvs1. pluginIds0":7
    "renderEnvs1. pluginIds1":8
    "renderEnvs1. pluginIds2":10
}
```

#### 2. Jointly request the character string

The request header sorted in the previous step will be formatted into the form of "head name" = "head value". For example, for channel, the header name is "channel" and the header value is "7", so after the formatting "channel=7" will be displayed

# Jointly request the character string

 $\label{thm:continuous} UTCT imes tamp=1535957371 \& access Id=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE \& channel=7 \& nonce=11886 \& platform=1 \& version=1.0.0 \& zone=2$ 

#### 3. Combine the signatures of the original character string

This step generates a signature of character string that consists of the following parameters:

- 1) Request method: Only support POST method 7 full caps
- 2) Request host: AKA the module request domain name, for example: task.renderbus.com o
- 3) Request address: AKA the Interface path in the interface description, for example: /api/render/common/queryPlatforms
- 4) Request character string: the request string generated in the previous step

#### Structure:

[Request method]: Request domain name & request character string

#### Combine the signatures of the original character string ~ example:

[POST]task.renderbus.com:/api/render/common/queryPlatforms&UTCTimestamp=1535957371&accessId= AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE&channel=7&nonce=11886&platform=1&version=1.0.0&zo ne=2

#### 4. Generate signature string

First, use the HmacSHA256 algorithm to sign the signatures of the original character string that obtained in the previous step, and then encode the generated signature string using Base64 to obtain the final signature string.

```
String accessKey = "Gu5t9xGARNpq86cd98joQYCN3EXAMPLE";
String srcStr
= "[POST] task. renderbus. com:/api/render/common/queryPlatforms&UTCTimestamp=15359573
71&accessId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE&channel=7&nonce=11886&platform=1&ve
rsion=1.0.0&zone=2":
Mac mac = Mac.getInstance("HmacSHA256");
SecretKeySpec secretKeySpec =
     SecretKeySpec (accessKey.getBytes ("UTF-8"), mac.getAlgorithm());
mac. init(secretKeySpec);
byte[] hash = mac. doFinal(srcStr. getBytes("UTF-8"));
String signStr = DatatypeConverter.printBase64Binary(hash);
return signStr;
The final signature string:
```

6tvuz8bgDCz5vtS3amuMWVbOgzhaeWaOhNcWMgx9zcg=

#### 5. Set up the signature

Set the generated signature string to the http request header signature=6tvuz8bgDCz5vtS3amuMWVbOqzhaeWaOhNcWMqx9zcg=

# Error code description

| Error code=                     | Status | Info                            | description                                       |
|---------------------------------|--------|---------------------------------|---|
| SUCCESS                         | 200    | success                         | Indicate the success result                       |
| FAIL                            | 100    | fail                            | Indicate the fail result                          |
| NEED_REDIRECT                   | 301    | need_redirect                   | Need to redirect to other addresses               |
| FORBIDDEN                       | 403    | forbidden                       | No authorization to access                        |
| RESOURCE_NOT_FOUND              | 404    | resource_not_found              | Sources none existing                             |
| DO_NOT_HAVE_ANY_MORE_R<br>ECORD | 700    | do_not_have_any_more_rec<br>ord | No more records contained                         |
| INTERNAL_ERROR                  | 500    | internal_error                  | Server processing failure                         |
| PARAMETER_INVALID               | 600    | parameter_invalid               | Invalid parameter                                 |
| PARAMETER_CANT_BE_EMPT Y        | 601    | parameter_cant_be_empty         | Required parameter missing                        |
| NEED_USER_LOGIN                 | 602    | need_user_login                 | Indicate the user need to log in                  |
| ILLEGAL_PROTOCOL                | 603    | illegal_protocol                | Illegal request                                   |
| VALIDATE_CODE_ERROR             | 604    | validate_code_error             | Indicate the mobile phone verification code error |
| VINSUFFICIENT_PERMISSI<br>ONS   | 605    | vinsufficient_permission<br>s   | Insufficient permissions                          |

| Error code=                    | Status | Info                           | description  |
|--------------------------------|--------|--------------------------------|--|
| VALIDATE_COMMOM_CODE_E<br>RROR | 606    | validate_commom_code_err<br>or | Verification code error                                    |
| VALIDATE_SEND_CODE_ERR<br>OR   | 607    | validate_send_code_error       | Indicates the verification code was failed to send         |
| USER_AREA_ERROR                | 608    | user_area_error                | Customer's domestic<br>and foreign regions<br>do not match |
| SIGNATURE_EXPIRED              | 610    | signature_expired              | Signature expired  |
| SIGNATURE_INVALID              | 611    | signature_invalid              | Invalid signature  |

## Interface description

### Obtain the platform list

Interface path: /api/render/common/queryPlatforms

#### Request parameters:

| Parameters | Туре    | Description   | Memo                    |
|------------|---------|---|-------------------------|
| zone       | Integer | Domestic and foreign regions are<br>Mandatary field | Domestic: 1, Foreign: 2 |

#### **Return parameters:**

| Parameters | Туре    | Description                 | Memo |
|------------|---------|-----------------------------|------|
| platform   | Integer | Platform number             |      |
| name       | String  | Platform number description |      |

### **Example of requesting:**

```
{
    "zone":2
```

```
],
"serverTime": 1535949047370
```

### Obtain the user information

Interface path: /api/render/user/queryUserProfile

Request parameter: default

Return parameter: for details please refer to: the example of return

| Parameter | Туре | Description | Memo |
|-----------|------|-------------|------|
|-----------|------|-------------|------|

The example of requesting: default

The example of return:

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": {
   "userId": 10001136,
    "userName": "rayvision",
    "platform": 2,
   "phone": "173333333333",
   "email": "",
   "company": "",
    "name": "",
   "job": "".
    "communicationNumber": "",
    "softType": 2000,
    "softStatus": 1,
    "businessType": 1,
    "status": 1,
    "infoStatus": 0,
    "accountType": 1,
    "userType": 1,
    "mainUserId": 0,
```

```
"level": 49,
    "pictureLever": null,
    "zone": 1,
    "rmbbalance": 0,
    "usdbalance": 0,
    "rmbCumulative": 0,
    "usdCumulative": 0,
    "credit": 0,
    "coupon": 49.93,
   "description": "",
   "country": "China",
   "city": "Zhongshan City, Guangdong Province",
   "address": "",
    "cpuPrice": 0.67,
   "gpuPrice": 20,
    "shareMainCapital": 0,
    "subDeleteTask": 0,
    "useMainBalance": 0,
    "hideBalance": 0,
    "hideJobCharge": 0,
   "useLevelDirectory": 1,
    "downloadDisable": 0,
   "displaySubaccount": 1,
    "subaccountLimits": 5,
    "houdiniFlag": 0,
    "c4dFlag": 0,
    "blenderFlag": 0,
    "keyshotFlag": 0,
   "studentEndTime": null
"serverTime": 1535953580730
```

### Obtain user settings

Interface path: /api/render/user/queryUserSetting

Request parameter: default

Return parameter:

| Parameter                 | Туре    | Description   | Memo                              |
|---------------------------|---------|---|-----------------------------------|
| infoStatus                | Integer |   |                                   |
| accountType               | Integer |   |                                   |
| shareMainCapital          |         |   |                                   |
| subDeleteTask             |         |   |                                   |
| useMainBalance            |         |   |                                   |
| singleNodeRenderFrames    | String  | Multiple frames rendered on one machine                 |                                   |
| maxIgnoreMapFlag          | String  | Can choose to ignore the max map error or not           | O Do not ignore, 1 Ignore         |
| autoCommit                | String  | Can choose start scene parameter rendering              | 1 Do not<br>start, 2<br>Start     |
| separateAccountFlag       | Integer | Separate the primary and secondary account settings     |                                   |
| mifileSwitchFlag          | Integer | Indicate the switch option of mi Document analysis risk |                                   |
| assfileSwitchFlag         | Integer | Do not analyze the ass file switch identifier           |                                   |
| manuallyStartAnalysisFlag | Integer | Manually turn on the analysis switch                    |                                   |
| downloadDisable           | Integer | Choose to disable downloading or not                    | 1 Disable, 0<br>Do not<br>disable |
| taskOverTime              | Integer | Timeout - hour  |                                   |

Example of request: default

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": {
   "infoStatus": null,
   "accountType": null,
   "shareMainCapital": 0,
   "subDeleteTask": 0,
    "useMainBalance": 0,
    "singleNodeRenderFrames": "1",
    "maxIgnoreMapFlag": "1",
    "autoCommit": "2",
    "separateAccountFlag": 0,
    "mifileSwitchFlag": 0,
    "assfileSwitchFlag": 0,
    "manuallyStartAnalysisFlag": 0,
    "downloadDisable": 0,
    "taskOverTime": 12
"serverTime": 1535954828406
```

### Update user settings

Interface path: /api/render/user/updateUserSetting

Request parameter:

| Parameter    | Туре    | Description                      | Memo |
|--------------|---------|----------------------------------|------|
| taskOverTime | Integer | Set up of Task timeout situation |      |

```
Return parameter: default

Example of return:
{
    "task0verTime": 13
```

#### **Example of return:**

```
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1535957894211
}
```

### Obtain user transfer BID

Interface path: /api/render/task/getTransferBid

Request parameter: default

Return parameter:

| Parameter  | Туре   | Description                    | Memo |
|------------|--------|--------------------------------|------|
| config_bid | String | Configuration file transfer ID |      |
| output_bid | String | Download the transfer file ID  |      |
| input_bid  | String | Asset upload transfer ID       |      |

**Example of request: default** 

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": {
        "config_bid": "30201",
         "output_bid": "20201",
        "input_bid": "10201"
},
"serverTime": 1535957964631
```

### Create task ID

Interface path: /api/render/task/createTask

Request parameter:

| and the second s |         |                                |  |  |
|--|---------|--------------------------------|--|--|
| parameter  | Туре    | Description                    | Memo   |  |
| count  | Integer | The numbers of created task ID |  |  |
| outUserId  | Long    | Optional, External user<br>ID  | Used to distinguish third-party accessed users |  |

Return parameter:

| parameter       | Туре                     | Description   | Memo |
|-----------------|--------------------------|---------------|------|
| aliasTaskIdList | List <string></string>   | Task ID alias |      |
| taskIdList      | List <integer></integer> | Task ID       |      |

### **Example of request:**

```
{
    "count":1,
    "outUserId": 100001
}
```

### Submit task

Interface path: /api/render/task/submitTask

Request parameter:

| parameter | Туре    | Description | Memo |
|-----------|---------|-------------|------|
| taskId    | Integer | Submit task |      |
|           |         | ID          |      |

```
Return parameter: default
```

**Example of request:** 

```
{
    "taskId": 19111
}
```

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": null,
"serverTime": 1535957894211
```

### Obtain analysis error code

Interface path: /api/render/common/queryErrorDetail

Request parameter:

| parameter | Туре   | Description Memo      |                                 |
|-----------|--------|-----------------------|---------------------------------|
| code      | String | Mandatary, error code |                                 |
| language  | String | Optional, language    | 0: Chinese (default) 1: English |

Return parameter: List<CodeInfo>

| parameter        | Туре    | Description  | Memo   |
|------------------|---------|--|--|
| id               |         |  |  |
| code             | Integer | error code   |  |
| type             | Integer | Type   | 0 Warning-can be ignored, 1 Error-can not be ignored |
| languageFlag     | Integer | languageType                                       | OChinese, 1English                                   |
| desDescriptionCn | String  | Chinese description                                |  |
| desSolutionCn    | String  | Solution   |  |
| solutionPath     | String  | Connect to solution                                |  |
| isRepair         | Integer | Check if repairable or not                         | 1 Repairable , 0 Non-<br>repairable                  |
| isOpen           | Integer | Check if turn on the intercept of the error or not | O Not turn on the intercept, 1 Turn on the intercept |
| updateTime       | Date    | The final update time                              |  |

### **Example of request:**

```
"code":15000
Example of return:
   "version": "1.0.0",
   "result": true,
    "message": "success",
    "code": 200,
    "data": [
            "id": 5,
            "code": "15000",
           "type": 1,
            "languageFlag": 0,
           "desDescriptionCn": "Stuck or failed to initiate 3ds max",
            "desSolutionCn": "1. Check if the corresponding version of 3ds max has
a special popup window, if any, manually close it; \n2. Check if the operating
system has set a high level of permissions."",
"solutionPath": "http://note.youdao.com/noteshare?id=d8flea0c46dfb524af798f6b1d31cf
6f",
            "isRepair": 0,
            "isDelete": 1,
            "isOpen": 1,
            "lastModifyAdmin": "",
            "updateTime": 1534387709000
    ],
    "serverTime": 1535962451356
}
```

### Obtain the task list

Interface path: /api/render/task/getTaskList

Request parameter:

| parameter  | Type                     | Description  | Memo  |
|------------|--------------------------|--|---|
| pageNum    | Integer                  | Mandatary, number of current page                                |   |
| pageSize   | Integer                  | Mandatary, quantities of displaying per page                     |   |
| statusList | List <integer></integer> | status code list, query the<br>status of the task in the<br>list | Check task status<br>description for<br>details |

Task status description:

| ask status description: |             |                                       |  |  |
|-------------------------|-------------|---------------------------------------|--|--|
| Status                  | Status code | Description                           |  |  |
| WAITING                 | 0           | Waiting                               |  |  |
| RENDERING               | 5           | Rendering                             |  |  |
| PRE_RENDERING           | 8           | Prepared to be handled                |  |  |
| STOP                    | 10          | Stop                                  |  |  |
| ARREARAGE_STOP          | 20          | Stop due to arrearage                 |  |  |
| TIME_OUT_STOP           | 23          | Stop due to timing out                |  |  |
| FINISHED                | 25          | Finished                              |  |  |
| FINISHED_HAS_FAILED     | 30          | Finished with failed frames contained |  |  |
| ABANDON                 | 35          | Give up                               |  |  |
| FINISHED_TEST           | 40          | Test completed                        |  |  |
| FAILED                  | 45          | Failed                                |  |  |
| ANALYSE                 | 50          | Analyzing                             |  |  |

Return parameter: list<Task Info>

| parameter       | Туре | Description | Memo |
|-----------------|------|-------------|------|
| sceneName       |      |             |      |
| id              |      |             |      |
| taskAlias       |      |             |      |
| taskStatus      |      |             |      |
| statusText      |      |             |      |
| preTaskStatus   |      |             |      |
| preStatusText   |      |             |      |
| totalFrames     |      |             |      |
| abortFrames     |      |             |      |
| executingFrames |      |             |      |
| doneFrames      |      |             |      |
| failedFrames    |      |             |      |
| framesRange     |      |             |      |
| projectName     |      |             |      |
| renderConsume   |      |             |      |
| taskArrears     |      |             |      |
| submitDate      |      |             |      |
| startTime       |      |             |      |
| completedDate   |      |             |      |
| renderDuration  |      |             |      |
| userName        |      |             |      |
| producer        |      |             |      |
| taskLevel       |      |             |      |

| parameter             | Туре                       | Description | Memo |
|-----------------------|----------------------------|-------------|------|
| taskUserLevel         |                            |             |      |
| taskLimit             |                            |             |      |
| taskOverTime          |                            |             |      |
| outputFileName        |                            |             |      |
| munuTaskId            |                            |             |      |
| layerParentId         |                            |             |      |
| cgId                  |                            |             |      |
| keyValue              |                            |             |      |
| userAccountConsume    |                            |             |      |
| couponConsume         |                            |             |      |
| isOpen                |                            |             |      |
| taskType              |                            |             |      |
| renderCamera          |                            |             |      |
| cloneParentId         |                            |             |      |
| cloneOriginalId       |                            |             |      |
| shareMainCapital      |                            |             |      |
| taskRam               |                            |             |      |
| respRenderingTaskList | List <task info=""></task> |             |      |
| layerName             |                            |             |      |
| taskTypeText          |                            |             |      |
| isDelete              |                            |             |      |

### **Example of request:**

```
"pageNum": 1,
    "pageSize": 1
Example of return:
   "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": {
       "pageCount": 32,
       "pageNum": 1,
        "total": 32,
        "size": 1,
        "items": [
            {
                "sceneName": "cloakroom.max",
                "id": 18278,
               "taskAlias": "P18278",
               "taskStatus": 0,
               "statusText": "render task status 0",
                "preTaskStatus": 25,
               "preStatusText": "render_task_status_25",
                "totalFrames": 0,
                "abortFrames": null,
                "executingFrames": null,
                "doneFrames": null,
                "failedFrames": 0,
                "framesRange": "0",
               "projectName": "",
                "renderConsume": null,
                "taskArrears": 0,
                "submitDate": 1535602289000,
                "startTime": null,
                "completedDate": null,
                "renderDuration": null,
                "userName": "xiaoguotu_ljian",
```

```
"producer": null,
                "taskLevel": 79,
                "taskUserLevel": 0,
                "taskLimit": 200,
                "taskOverTime": null,
                "userId": 10001520,
                "outputFileName": null,
                "munuTaskId": ""
                "laverParentId": 0,
                "cgId": 2001,
                "keyValue": "filter_kernel:Catmull-
Rom::channel:0::gi width:1066::openRenderBlocker:1::element type:tga::secondary gi e
ngine:0::tiles:16::reflection refraction:1::all camera:[\"VRayCam001\",\"VRayCam002\
",\"VRayCam003\"]::renderable camera:[\"VRayCam003\"]::displacement:1::light cache m
ode:0::height:2400::renderBlockerNum:16::gi:1::frames:0::gi_height:800::output_file_
type:.tga::output file:VRayCam0030000 .tga::element active:1::tiles type:block::filt
er_on:1::photonnode:0::node:0::vfb:0::output_file_basename:VRayCam0030000::photonKg:
3::gi frames:0::renderNum:1::width:3200::name:vray::irradiance map mode:4::primary g
i engine:0::image sampler type:1::",
                "userAccountConsume": null,
                "couponConsume": null,
                "is0pen": 1,
                "taskType": ""
                "renderCamera": "VRayCam003",
                "cloneParentId": null,
                "cloneOriginalId": null,
                "shareMainCapital": 0,
                "taskRam": null,
                "respRenderingTaskList": [
                        "sceneName": "cloakroom.max",
                        "id": 18280.
                        "taskAlias": "P18280",
                        "taskStatus": 25,
                        "statusText": "render task status 25",
                        "preTaskStatus": null,
                        "preStatusText": null,
                        "totalFrames": 1,
                        "abortFrames": 0,
                        "executingFrames": 0,
                        "doneFrames": 1,
```

```
"failedFrames": 0,
                        "framesRange":
                        "projectName": "",
                        "renderConsume": 1.57,
                        "taskArrears": 0,
                        "submitDate": 1535602289000,
                        "startTime": 1535602601000,
                        "completedDate": 1535603874000,
                        "renderDuration": 1176,
                        "userName": "xiaoguotu ljian",
                        "producer": null,
                        "taskLevel": 79,
                        "taskUserLevel": 0,
                        "taskLimit": 200,
                        "taskOverTime": 86400000.
                        "userId": 10001520,
                        "outputFileName": "18280 cloakroom",
                        "munuTaskId": "2018083000075",
                        "layerParentId": 18278,
                        "cgId": 2001,
                        "keyValue": "filter kernel:Catmull-
Rom::channel:0::gi_width:1066::openRenderBlocker:1::element_type:tga::secondary_gi_e
ngine:0::tiles:16::reflection_refraction:1::all_camera:[\"VRayCam001\",\"VRayCam002\
",\"VRayCam003\"]::renderable camera:[\"VRayCam003\"]::displacement:1::light cache m
ode:0::height:2400::renderBlockerNum:16::gi:1::frames:0::gi height:800::output file
type:.tga::output file:VRayCam0030000 .tga::element active:1::tiles type:block::filt
er on:1::photonnode:0::node:0::vfb:0::output file basename:VRayCam0030000::photonKg:
3::gi frames:0::renderNum:1::width:3200::name:vray::irradiance map mode:4::primary g
i engine:0::image sampler type:1::",
                        "userAccountConsume": 0,
                        "couponConsume": 1.57,
                        "is0pen": 0,
                        "taskType": "RenderPhoton",
                        "renderCamera": "VRayCam003",
                        "cloneParentId": 0,
                        "cloneOriginalId": 0,
                        "shareMainCapital": 0,
                        "taskRam": null,
                        "respRenderingTaskList": null,
                        "layerName": null,
                        "taskTypeText": "render_photons_task",
```

```
"isDelete": 1
                    },
                        "sceneName": "cloakroom.max",
                        "id": 18281,
                        "taskAlias": "P18281",
                        "taskStatus": 25,
                        "statusText": "render task status 25",
                        "preTaskStatus": null,
                        "preStatusText": null,
                        "totalFrames": 17,
                        "abortFrames": 0,
                        "executingFrames": 0,
                        "doneFrames": 17,
                        "failedFrames": 0,
                        "framesRange": "0",
                        "projectName": ""
                        "renderConsume": 6.7,
                        "taskArrears": 0,
                        "submitDate": 1535602289000,
                        "startTime": 1535603885000,
                        "completedDate": 1535604765000,
                        "renderDuration": 5028,
                        "userName": "xiaoguotu_ljian",
                        "producer": null,
                        "taskLevel": 79,
                        "taskUserLevel": 0,
                        "taskLimit": 200,
                        "taskOverTime": 86400000,
                        "userId": 10001520,
                        "outputFileName": "18281 cloakroom",
                        "munuTaskId": "2018083000079",
                        "layerParentId": 18278,
                        "cgId": 2001,
                        "keyValue": "filter_kernel:Catmull-
Rom::channel:0::gi width:1066::openRenderBlocker:1::element type:tga::secondary gi e
ngine:0::tiles:16::reflection refraction:1::all camera:[\"VRayCam001\",\"VRayCam002\
",\"VRayCam003\"]::renderable camera:[\"VRayCam003\"]::displacement:1::light cache m
ode:0::height:2400::renderBlockerNum:16::gi:1::frames:0::gi height:800::output file
type:.tga::output file:VRayCam0030000 .tga::element active:1::tiles type:block::filt
er on:1::photonnode:0::node:0::vfb:0::output file basename:VRayCam0030000::photonKg:
```

```
3::gi_frames:0::renderNum:1::width:3200::name:vray::irradiance_map_mode:4::primary_g
i_engine:0::image_sampler_type:1::",
                        "userAccountConsume": 0,
                        "couponConsume": 6.7,
                        "is0pen": 0,
                        "taskType": "Render",
                        "renderCamera": "VRayCam003",
                        "cloneParentId": 0,
                        "cloneOriginalId": 0,
                        "shareMainCapital": 0,
                        "taskRam": null,
                        "respRenderingTaskList": null,
                        "layerName": null,
                        "taskTypeText": "render_major_picture_task",
                        "isDelete": 1
                ],
                "layerName": null,
                "taskTypeText": null,
                "isDelete": 1
    "serverTime": 1535964116655
```

### Stop task

Interface path: /api/render/task/stopTask

Request parameter:

| parameter | Туре                     | Description                | Memo |
|-----------|--------------------------|----------------------------|------|
| taskParam | List <integer></integer> | Combination of the task ID |      |

```
Return parameter: default
```

**Example of request:** 

{

```
"taskParam":[1111307,1111309]
```

### **Example of return:**

```
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1535957894211
}
```

### Start task

Interface path: /api/render/task/startTask

Request parameter:

| parameter | Туре                     | Description                | Memo |
|-----------|--------------------------|----------------------------|------|
| taskParam | List <integer></integer> | Combination of the task ID |      |

```
Return parameter: default
```

**Example of request:** 

```
{
    "taskParam":[1111307,1111309]
}
```

```
"version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
```

```
"data": null,
"serverTime": 1535957894211
```

### Abandon task

Interface path: /api/render/task/abortTask

Request parameter:

| parameter | Туре                     | Description                | Memo |
|-----------|--------------------------|----------------------------|------|
| taskParam | List <integer></integer> | Combination of the task ID |      |

```
Return parameter: default

Example of request:
```

```
{
    "taskParam":[1111307,1111309]
}
```

### Example of return:

```
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1535957894211
}
```

### Delete task

Interface path: /api/render/task/deleteTask

Request parameter:

| parameter | Туре                     | Description  | Memo |
|-----------|--------------------------|--------------|------|
| taskParam | List <integer></integer> | Task ID list |      |

Return parameter: default

**Example of request:** 

```
{
    "taskParam":[1111307,1111309]
}
```

### **Example of return:**

```
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1535957894211
}
```

### Obtain the task rendering frame details

Interface path: /api/render/task/queryTaskFrames

#### Request parameter:

| parameter     | Type    | Description   | Memo  |
|---------------|---------|---|---|
| taskId        | Integer | Task ID   | Task ID, Is the unique identifier of the task, mandatary field  |
| searchKeyword | String  | Query based on the name of the multiple frames that rendered on one machine | Is a string that be queried based on name of the multiple frames that rendered on one machine, optional field |
| pageNum       | Integer | Current page number   | _   |

| parameter | Туре    | Description                              | Memo |
|-----------|---------|--|------|
| pageSize  | Integer | Size of the data that displayed per page |      |

Return parameter: List<FrameInfo>

| parameter   | Туре        | Descript                   | Memo  |
|-------------|-------------|----------------------------|---|
| _           |             | ion                        |   |
| id          |             |                            |   |
| userId      | Long        | userID                     |   |
| framePrice  | Doub1<br>e  | Render<br>pricing          |   |
| feeType     | Integ<br>er | Fee<br>charge<br>type      | O Quantity-based, 1 Machine-bashed, 2 Project-based   |
| platform    | Integ<br>er | Platform                   |   |
| frameIndex  | Strin<br>g  | Frame<br>sequence<br>name  |   |
| frameBlock  | Strin<br>g  | Current<br>frame<br>number |   |
| frameStatus | Integ<br>er | Current<br>frame<br>status | 1/Waiting, 2/Processing, 3/Stopped, 4/Complete, 5/F ailed, 6/Waiting for the pre-handeling, 7/Waiting for photonic frame rendering completed, 8/Waiting for the priority rendering completed, 9/ Wait for the photon job to finish rendering, 10/Waiting for the settlement job rendering completed, 11/Task timing out |
| feeAmount   | Doub1       | Balance<br>deduction       |   |

| parameter            | Туре        | Descript<br>ion                      | Memo  |
|----------------------|-------------|--------------------------------------|---|
| couponFee            | Doub1       | Vouchers<br>deduction                |   |
| startTime            | Long        | Start time (ms)                      |   |
| endTime              | Long        | End time (ms)                        |   |
| frameExecute<br>Time | Long        | Rendering frame time                 |   |
| frameStatusT<br>ext  | Strin<br>g  | Frame<br>status<br>descripti<br>on   |   |
| arrearsFee           | Doub1<br>e  | Render<br>frame<br>arrears<br>amount |   |
| taskId               | Long        | Task ID                              |   |
| frameType            | Integ<br>er | Frame<br>Type                        | 1/Pre-rendering (only one frame, even for multi-camera case), 2/photon frame, 3/combine photon frame, 4/priority frame, 5/main render frame, 6 priority /maya/max composite rendering frame, 7/maya/max rendering main picture composite frame, 8/houdini settlement frame, 9/max channel frame |
| recommitFlag         | Integ<br>er | Recount<br>times                     | Indicate the recount time default is 0, increased as the recount time increase  |
| taskOverTime         | Integ<br>er | overtime                             | Overtime details  |

| parameter | Туре        | Descript<br>ion                             | Memo  |
|-----------|-------------|---|---|
| gopName   | Strin<br>g  | Houdini<br>Settlemen<br>t node<br>name      |   |
| frameRam  | Integ<br>er | Memory of<br>the task<br>rendering<br>frame | No memory requirement if description does not specified |

### **Example of request:**

```
{
    "taskId": 19088,
    "pageNum": 1,
    "pageSize": 2
}
```

```
"platform": null,
    "frameIndex": "0-1",
    "frameStatus": 4,
    "feeAmount": 0.44,
    "startTime": 1535960273000,
    "endTime": 1535960762000,
    "frameExecuteTime": 489,
    "frameStatusText": "task frame status 4",
    "arrearsFee": null,
    "munuJobId": "0",
    "taskId": 19088,
    "munuTaskId": "2018090300040",
    "frameType": 5,
    "couponFee": 0,
    "recommitFlag": 0,
    "isCopy": null,
    "frameBlock": "1",
    "taskOverTime": 86400000,
    "gopName": null,
    "frameRam": null
},
    "id": 1546599,
    "userId": null,
    "framePrice": null,
    "feeType": null,
    "platform": null,
    "frameIndex": "0-2",
    "frameStatus": 4,
    "feeAmount": 0.43,
    "startTime": 1535960856000,
    "endTime": 1535961338000,
    "frameExecuteTime": 482,
    "frameStatusText": "task_frame_status_4",
    "arrearsFee": null,
    "munuJobId": "1",
    "taskId": 19088,
    "munuTaskId": "2018090300040",
    "frameType": 5,
    "couponFee": 0,
    "recommitFlag": 0,
```

### Obtain the overview of task rendering frames

Interface path: /api/render/task/queryAllFrameStats

Request parameter: default

Return parameter:

| parameter            | Type    | Description                       | Memo |
|----------------------|---------|-----------------------------------|------|
| executingFramesTotal | Integer | Number of frames in rendering     |      |
| doneFramesTotal      | Integer | Number of frames completed        |      |
| failedFramesTotal    | Integer | Number of rendered frames failed  |      |
| waitingFramesTotal   | Integer | Number of frames in waiting       |      |
| totalFrames          | Integer | Number of overall rendered frames |      |

#### **Example of request: default**

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": {
    "executingFramesTotal": 1,
    "doneFramesTotal": 308,
    "failedFramesTotal": 2,
```

```
"waitingFramesTotal": 153,
        "totalFrames": 577
},
        "serverTime": 1535968038725
}
```

## Re-submit the failed frames

Interface path: /api/render/task/restartFailedFrames

Request parameter:

| paran | parameter Type |                          | Description  | Memo |
|-------|----------------|--------------------------|--------------|------|
| taskF | aram           | List <integer></integer> | Task ID list |      |

```
Return parameter: default
```

**Example of request:** 

### Example of return:

```
"version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1535957894211
```

# Re-submit the specified frames

Interface path: /api/render/task/restartFrame

| parameter | Type                     | Description         | Memo                                    |
|-----------|--------------------------|---------------------|---|
| taskId    | Integer                  | Task ID             |   |
| ids       | List <integer></integer> | Combine the frame   | Effective if O displayed when selectALL |
| selectAll | Integer                  | Choose if re-submit | 1 All, 0 Only the specified frame       |

Return parameter: default

**Example of request:** 

```
{
    "taskId": 10001,
    "selectAll":0,
    "ids":[0,1,2,3]
}
```

### Example of return:

```
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1535957894211
}
```

# Obtain 任务详情 Obtain the task details

Interface path: /api/render/task/queryTaskInfo

| parameter | Туре             | Description               | Memo |
|-----------|------------------|---------------------------|------|
| taskIds   | List < Integer > | Combine the shell task ID |      |

Return parameter: List<TaskInfo>

| parameter: List <iask< th=""><th>Type</th><th>Description</th><th>Memo</th></iask<> | Type | Description | Memo |
|---|------|-------------|------|
| sceneName   |      |             |      |
| id  |      |             |      |
| taskAlias   |      |             |      |
| taskStatus  |      |             |      |
| statusText  |      |             |      |
| preTaskStatus   |      |             |      |
| preStatusText   |      |             |      |
| totalFrames   |      |             |      |
| abortFrames   |      |             |      |
| executingFrames   |      |             |      |
| doneFrames  |      |             |      |
| failedFrames  |      |             |      |
| framesRange   |      |             |      |
| projectName   |      |             |      |
| renderConsume   |      |             |      |
| taskArrears   |      |             |      |
| submitDate  |      |             |      |
| startTime   |      |             |      |
| completedDate   |      |             |      |
| renderDuration  |      |             |      |
| userName  |      |             |      |
| producer  |      |             |      |

| parameter             | Туре                       | Description | Memo |
|-----------------------|----------------------------|-------------|------|
| taskLevel             |                            |             |      |
| taskUserLevel         |                            |             |      |
| taskLimit             |                            |             |      |
| taskOverTime          |                            |             |      |
| outputFileName        |                            |             |      |
| munuTaskId            |                            |             |      |
| layerParentId         |                            |             |      |
| cgId                  |                            |             |      |
| keyValue              |                            |             |      |
| userAccountConsume    |                            |             |      |
| couponConsume         |                            |             |      |
| isOpen                |                            |             |      |
| taskType              |                            |             |      |
| renderCamera          |                            |             |      |
| cloneParentId         |                            |             |      |
| cloneOriginalId       |                            |             |      |
| shareMainCapital      |                            |             |      |
| taskRam               |                            |             |      |
| respRenderingTaskList | List <taskinfo></taskinfo> |             |      |
| layerName             |                            |             |      |
| taskTypeText          |                            |             |      |
| isDelete              |                            |             |      |

## **Example of request:**

```
"taskIds": [19084]
Example of return:
    "version": "1.0.0",
   "result": true,
   "message": "success",
    "code": 200,
    "data": {
        "pageCount": 1,
        "pageNum": 1,
        "total": 1,
        "size": 100,
        "items": [
            {
                "sceneName": "3d66.com_593362 2018.max",
                "id": 19084,
                "taskAlias": "P19084",
                "taskStatus": 0,
                "statusText": "render_task_status_0",
                "preTaskStatus": 25,
                "preStatusText": "render_task status 25",
                "totalFrames": 0,
                "abortFrames": null,
                "executingFrames": null,
                "doneFrames": null,
                "failedFrames": 0,
               "framesRange": "0",
               "projectName": "",
                "renderConsume": null,
                "taskArrears": 0,
                "submitDate": 1535958477000,
                "startTime": null,
                "completedDate": null,
                "renderDuration": null,
                "userName": "xiaoguotu_ljian",
                "producer": null,
                "taskLevel": 60,
```

```
"taskUserLevel": 0,
                "taskLimit": null,
                "taskOverTime": null,
                "userId": 10001520,
                "outputFileName": null,
                "munuTaskId": ""
                "layerParentId": 0,
                "cgId": 2001,
                "keyValue": "filter kernel:Catmull-
Rom::channel:0::gi width:666::openRenderBlocker:1::element type:tga::secondary gi en
gine:3::tiles:16::reflection refraction:1::all camera:[\"Camera001\"]::renderable ca
mera:[\"Camera001\"]::displacement:0::light cache mode:0::height:1400::renderBlocker
Num:16::gi:1::frames:0::gi height:466::output file type:.tga::output file:Renderbus
.tga::element active:1::tiles type:block::filter on:1::photonnode:0::node:0::vfb:0::
output file basename:Renderbus::photonKg:3::gi frames:0::renderNum:1::width:2000::na
me:vray::irradiance map mode:4::primary gi engine:0::image sampler type:1::",
                "userAccountConsume": null,
                "couponConsume": null,
                "is0pen": 1,
                "taskType": ""
                "renderCamera": "Camera001",
                "cloneParentId": null,
                "cloneOriginalId": null,
                "shareMainCapital": 0,
                "taskRam": null,
                "respRenderingTaskList": [
                        "sceneName": "3d66.com 593362 2018.max",
                        "id": 19087,
                        "taskAlias": "P19087",
                        "taskStatus": 25.
                        "statusText": "render_task_status_25",
                        "preTaskStatus": null,
                        "preStatusText": null,
                        "totalFrames": 1,
                        "abortFrames": 0,
                        "executingFrames": 0,
                        "doneFrames": 1,
                        "failedFrames": 0,
                        "framesRange": "0",
                        "projectName": "",
```

```
"taskArrears": 0,
                        "submitDate": 1535958477000,
                        "startTime": 1535958658000,
                        "completedDate": 1535960243000,
                        "renderDuration": 1471,
                        "userName": "xiaoguotu ljian",
                        "producer": null,
                        "taskLevel": 60,
                        "taskUserLevel": 0,
                        "taskLimit": null,
                        "taskOverTime": 86400000,
                        "userId": 10001520,
                        "outputFileName": "19087 3d66.com 593362 2018",
                        "munuTaskId": "2018090300037",
                        "layerParentId": 19084,
                        "cgId": 2001,
                        "keyValue": "filter kernel:Catmull-
Rom::channel:0::gi width:666::openRenderBlocker:1::element type:tga::secondary gi en
gine:3::tiles:16::reflection refraction:1::all camera:[\"Camera001\"]::renderable ca
mera:[\"Camera001\"]::displacement:0::light cache mode:0::height:1400::renderBlocker
Num:16::gi:1::frames:0::gi_height:466::output_file_type:.tga::output_file:Renderbus_
.tga::element active:1::tiles type:block::filter on:1::photonnode:0::node:0::vfb:0::
output file basename:Renderbus::photonKg:3::gi frames:0::renderNum:1::width:2000::na
me:vray::irradiance map mode:4::primary gi engine:0::image sampler type:1::",
                        "userAccountConsume": 1.31,
                        "couponConsume": 0,
                        "is0pen": 0,
                        "taskType": "RenderPhoton",
                        "renderCamera": "Camera001",
                        "cloneParentId": 0,
                        "cloneOriginalId": 0,
                        "shareMainCapital": 0,
                        "taskRam": null,
                        "respRenderingTaskList": null,
                        "layerName": null,
                        "taskTypeText": "render photons task",
                        "isDelete":
                    },
                        "sceneName": "3d66.com 593362 2018.max",
```

"renderConsume": 1.31,

```
"id": 19088,
                        "taskAlias": "P19088",
                        "taskStatus": 10,
                        "statusText": "render task status 10",
                        "preTaskStatus": null,
                        "preStatusText": null,
                        "totalFrames": 17,
                        "abortFrames": 6,
                        "executingFrames": 0,
                        "doneFrames": 11,
                        "failedFrames": 0,
                        "framesRange": "0",
                        "projectName": ""
                        "renderConsume": 4.84,
                        "taskArrears": 0,
                        "submitDate": 1535958477000,
                        "startTime": 1535960247000,
                        "completedDate": 1535967000000,
                        "renderDuration": 5420,
                        "userName": "xiaoguotu ljian",
                        "producer": null,
                        "taskLevel": 60,
                        "taskUserLevel": 0,
                        "taskLimit": null,
                        "taskOverTime": 86400000,
                        "userId": 10001520,
                        "outputFileName": "19088 3d66.com 593362 2018",
                        "munuTaskId": "2018090300040",
                        "layerParentId": 19084,
                        "cgId": 2001,
                        "keyValue": "filter kernel:Catmull-
Rom::channel:0::gi width:666::openRenderBlocker:1::element type:tga::secondary gi en
gine:3::tiles:16::reflection refraction:1::all camera:[\"Camera001\"]::renderable ca
mera:[\"Camera001\"]::displacement:0::light_cache_mode:0::height:1400::renderBlocker
Num:16::gi:1::frames:0::gi height:466::output file type:.tga::output file:Renderbus
.tga::element active:1::tiles type:block::filter on:1::photonnode:0::node:0::vfb:0::
output file basename:Renderbus::photonKg:3::gi frames:0::renderNum:1::width:2000::na
me:vray::irradiance map mode:4::primary gi engine:0::image sampler type:1::",
                        "userAccountConsume": 4.84,
                        "couponConsume": 0,
                        "is0pen": 0,
```

## Add a custom label

Interface path: /api/render/common/addLabel

Request parameter:

| parameter | Туре   | Description  | Memo |
|-----------|--------|--------------|------|
| newName   | String | Label name   |      |
| status    | String | Lable status |      |

```
Return parameter: default

Example of request:
{
    "newName": "myLabel",
    "status": 0
```

```
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1535957894211
}
```

## Delete custom label

Interface path: /api/render/common/deleteLabel

Request parameter:

| parameter | Туре | Description | Memo |
|-----------|------|-------------|------|
|           |      |             |      |
|           |      |             |      |

```
Return parameter: default
```

**Example of request:** 

```
{
    "delName": "myLabel"
}
```

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": null,
"serverTime": 1535957894211
```

## Obtain custom label

Interface path: /api/render/common/getLabelList

Request parameter: default

Return parameter:

| parameter | Туре | Description | Memo |
|-----------|------|-------------|------|
|           |      |             |      |
|           |      |             |      |

### **Example of request:**

### **Example of return:**

# Obtain the supported rendering software

Interface path: /api/render/common/querySupportedSoftware

Request parameter: default

Return parameter:

| parameter      | Type                       | Description                           | Memo |
|----------------|----------------------------|---------------------------------------|------|
| isAutoCommit   | Integer                    | Choose if submit automatically or not |      |
| renderInfoList | List <software></software> | Renderer version list                 |      |
| defaultCgId    | Integer                    | Default renderer ID                   |      |

#### **Software**

| parameter | Type    | Description        | Memo |
|-----------|---------|--------------------|------|
| cgId      | Integer | Render software ID |      |

| parameter         | Туре    | Description                            | Memo |
|-------------------|---------|--|------|
| cgName            | String  | Render software name                   |      |
| cgType            | String  | Render file suffix support             |      |
| iconPath          | String  | Rendering software icon address        |      |
| isNeedProjectPath | Integer |  |      |
| isNeedAnalyse     | Integer | Need to analyze                        |      |
| isSupportLinux    | Integer | Indicates if linux is supported or not |      |

### **Example of request: default**

# Obtain supported rendering software plugins

Interface path: /api/render/common/querySupportedPlugin

Request parameter:

| parameter | Туре               | Description | Memo |
|-----------|--------------------|-------------|------|
| cgId      | Render software ID |             |      |

Return parameter:

| parameter | Туре                          | Description             | Memo |
|-----------|-------------------------------|-------------------------|------|
| cgPlugin  | List <plugin></plugin>        | Supported plugin list   |      |
| cgVersion | List <soft version=""></soft> | Supported software list |      |

**Plugin** 

| parameter      | Туре                              | Description                                     | Memo |
|----------------|-----------------------------------|---|------|
| cvId           | Integer                           | Rendering software version ID (Soft Version.id) |      |
| pluginName     | String                            | Plugin name                                     |      |
| pluginVersions | List <plugin version=""></plugin> | Plugin version list                             |      |

**PluginVersion** 

| parameter     | Туре    | Description       | Memo |
|---------------|---------|-------------------|------|
| pluginId      | Integer | Plugin version ID |      |
| pluginName    | String  | Plugin name       |      |
| pluginVersion | String  | Plugin version    |      |

### **SoftVersion**

| parameter | Туре    | Description                | Memo |
|-----------|---------|----------------------------|------|
| id        | Integer | Render software version ID |      |
| cgId      | Integer | Render software ID         |      |
| cgName    | String  | Render software name       |      |
| cgVersion | String  | Render software version    |      |

### **Example of request:**

```
{
    "cgId": 2012
}
```

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": {
    "cgPlugin": [
            "cvId": 19,
            "pluginName": "zblur",
            "pluginVersions": [
                    "pluginId": 1652,
                    "pluginName": "zblur",
                    "pluginVersion": "zblur 2.02.019"
           ]
       },
    ],
    "cgVersion": [
```

# New user rendering environment configuration

Interface path: /api/render/common/addRenderEnv

Request parameter:

| parameter       | Туре                     | Description                    | Memo                        |
|-----------------|--------------------------|--------------------------------|-----------------------------|
| cgId            | Integer                  | Render software ID             | Soft Version.cgId           |
| cgName          | String                   | Render software name           | Soft Version.cgName         |
| cgVersion       | String                   | Render software version        | Soft<br>Version.cgVersion   |
| renderLayerType | Integer                  | Maya render Type               |                             |
| editName        | String                   | render environment custom name |                             |
| renderSystem    | Integer                  | Render system                  | 0 linux, 1 windows          |
| pluginIds       | List <integer></integer> | render plugin list             | Plugin Version.plugin<br>Id |

### Return parameter:

| parameter | Туре   | Description                    | Memo |
|-----------|--------|--------------------------------|------|
| editName  | String | render environment custom name |      |

### **Example of request:**

```
"cgId": 2000,
    "cgName": "Maya",
    "cgVersion": "2020",
    "renderLayerType":0,
    "editName":"testRenderEnv",
    "renderSystem":"0",
    "pluginIds":[1166]
}

Example of return:
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": {
        "editName": "testRenderEnv"
    },
    "serverTime": 1535957894211
```

# Adjust user render environment configuration

Interface path: /api/render/common/updateRenderEnv

| Request parameter | 1.      |                         |                        |
|-------------------|---------|-------------------------|------------------------|
| parameter         | Type    | Description             | Memo                   |
| cgId              | Integer | Render software         | Soft Version.cgId      |
| cgName            | String  | Render software name    | Soft Version.cgName    |
| cgVersion         | String  | Render software version | Soft Version.cgVersion |

| parameter       | Type                     | Description                    | Memo  |
|-----------------|--------------------------|--------------------------------|---|
| renderLayerType | Integer                  | Maya render Type               |   |
| editName        | String                   | render environment custom name | Adjust the configuration name that required a passing |
| renderSystem    | Integer                  | Render system                  | 0 linux, 1 windows                                    |
| pluginIds       | List <integer></integer> | render plugin<br>list          | Plugin Version plugin Id                              |

```
Return parameter: default
```

```
Example of request:
```

```
{
    "cgId": 2000,
    "cgName": "Maya",
    "cgVersion": "2020",
    "renderLayerType":0,
    "editName":"testRenderEnv",
    "renderSystem":"0",
    "pluginIds":[]
}
```

### **Example of return:**

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": null,
"serverTime": 1536027063801
```

# Delete user render environment configuration

**Interface path:** /api/render/common/deleteRenderEnv

Request parameter:

Return parameter: default

| parameter | Туре   | Description                    | Memo |
|-----------|--------|--------------------------------|------|
| editName  | String | render environment custom name |      |

```
Example of request:
{
    "editName":"testRenderEnv"
}

Example of return:
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1536027063801
```

# Set up default render environment configuration

Interface path: /api/render/common/setDefaultRenderEnv

| parameter | Туре   | Description                    | Memo |
|-----------|--------|--------------------------------|------|
| editName  | String | render environment custom name |      |

```
Return parameter: default

Example of request:

{
    "editName":"testRenderEnv"
```

}

### **Example of return:**

```
{
    "version": "1.0.0",
    "result": true,
    "message": "success",
    "code": 200,
    "data": null,
    "serverTime": 1536027063801
}
```

# Obtain user render environment configuration

**Interface path:** /api/render/common/getRenderEnv

Request parameter:

| parameter | Туре    | Description        | Memo |
|-----------|---------|--------------------|------|
| cgId      | Integer | Render software ID |      |

Return parameter: List<RenderEnv>

| parameter | Туре    | Description                    | Memo |
|-----------|---------|--------------------------------|------|
| cgId      | Integer | Render software                |      |
| editName  | String  | render environment custom name |      |
| cgName    | String  | Render software                |      |
| cgVersion | String  | Render software version        |      |

| parameter             | Туре                                    | Description                                    | Memo  |
|-----------------------|---|--|---|
| osName                | Integer                                 | render<br>environment<br>system                | OLinux, 1windows  |
| renderLayerType       | Integer                                 |  |   |
| isDefault             | Integer                                 | Check if it is<br>the default<br>configuration | O Not default<br>configuration 1 Is<br>default<br>configuration |
| respUserPluginInfoVos | List <plugin<br>Version&gt;</plugin<br> | render<br>environment<br>plugin list           |   |

## **Example of request:**

```
{
    "cgId":"2000"
}
```

```
"pluginId": 1166,
               "pluginName": "wobble",
               "pluginVersion": "wobble 0.9.5"
       ]
   } ,
       "cgId": 2000,
       "editName": "testRenderEnv222",
       "cgName": "Maya",
       "cgVersion": "2020",
        "osName": 0,
       "renderLayerType": 0,
        "isDefault": 0,
       "respUserPluginInfoVos": [
               "pluginId": 1166,
               "pluginName": "wobble",
               "pluginVersion": "wobble 0.9.5"
       ]
   }
"serverTime": 1536028132519
```