

# **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:

## 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 accessld 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.
- 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&zone=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 =
new 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:
```

#### 5. Set up the signature

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

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 ECORD	700	do_not_have_any_more_rec	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 ONS	605	vinsufficient_permission s	Insufficient permissions

Error code=	Status code	Info	description
VALIDATE_COMMOM_CODE_E RROR	606	validate_commom_code_err or	Verification code error
VALIDATE_SEND_CODE_ERR OR	607	validate_send_code_error	Indicates the verification code was failed to send
USER_AREA_ERROR	608	user_area_error	Customer's domestic and foreign regions 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	Type	Description	Memo
zone	Integer	Domestic and foreign regions are Mandatary field	Domestic: 1, Foreign: 2

#### **Return parameters:**

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

### Example of requesting:

### 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 Type 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	Type	Description	Memo	

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	0 Do not ignore, 1 Ignore
autoCommit	String	Can choose start scene parameter rendering	1 Do not start, 2 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 Do not 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:

parameter	Туре	Description	Memo
count	Integer	The numbers of created task ID	
outUserId	Long	Optional, External user 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
}
```

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": {
    "aliasTaskIdList": [
    "2W19097"
```

## 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	Туре	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- 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
    7,
    "serverTime": 1535962451356
}
```

### Obtain the task list

Interface path: /api/render/task/getTaskList

Request parameter:

parameter	Туре	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 status of the task in the list	Check task status description for details

### Task 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 Type Description Memo
---------------------------------

parameter	Туре	Description	Мето
sceneName	String	Scene Name	
id	Integer	Task id	
taskAlias	String	Task Name	
taskStatus	Byte	Task status	1/Waiting, 5/Rendering, 10/Stop, 15/User Stop, 20/Stop due to arrearage, 25/Finished, 30/Finished with failed frames contained, 35/Give up, 40/Test completed, 45/Failed
statusText	String	Status Text	
preTaskStatus	Byte	Preprocessi -ng Task Status	
preStatusText	String	Preprocessi -ng Task Status Text	
totalFrames	Integer	Total frames	
abortFrames	Integer	Abort frames	
executingFrames	Integer	Executing frames	
doneFrames	Integer	Done frames	
failedFrames	Integer	Failed	

parameter	Type	Description	Memo
		frames	
framesRange	String	Frames range	
projectName	String	Project name	
renderConsume	BigDecimal	Task render consume	
taskArrears	BigDecimal	Task arrears	
submitDate	Date	Submit Date	
startTime	Date	Start Date	
completedDate	Date	Completed Date	
renderDuration	Long	Task render duration	
userName	String	User name	
producer	String	producer	
taskLevel	Byte	Task level	
taskUserLevel	Integer	Task level of user	
taskLimit	Integer	Task node limit	
taskOverTime	Long	Task timeout reminder time	
outputFileName	String	Output file name	

parameter	Туре	Description	Memo
munuTaskId	String	Dispatch id	
layerParentId	String	About maya task, parent id	
cgId	Integer	Task type	2001/maya, 2000/max
keyValue	String	Task keyword	
userAccountConsume	Bigdecimal	User account consume	
couponConsume	Bigdecimal	Coupon consume	
isOpen	Byte	Whether the front-end expansion button is expanded or not	
taskType	String	Task type	Preprocessing, Render photon, Render picture
renderCamera	String	Render camera	
cloneParentId	Integer	Clone parent id	
cloneOriginalId	Integer	Clone original id	
shareMainCapital	Byte	Whether to Share Main Account	(0: no 1: yes)

parameter	Type	Description	Memo
		Assets	
taskRam	Integer	Task render memory	
respRenderingTaskList	List <taskinfo></taskinfo>	Child tasks of the open task	Structure the same of this object
layerName	String	Layer name	
taskTypeText	String	Task type text	photon/picture

### **Example of request:**

```
{
    "pageNum": 1,
    "pageSize": 1
}
```

```
"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": "",
                "layerParentId":
                "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\
",\"VRayCamOO3\"]::renderable camera:[\"VRayCamOO3\"]::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": "",
```

```
"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": "0",
                        "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\
```

"renderCamera": "VRayCam003",

```
",\"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":
                        "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
       7
   },
```

```
"serverTime": 1535964116655
```

# Stop task

Interface path: /api/render/task/stopTask

Request parameter:

parameter	Туре	Description	Memo
taskParam	List < Integer >	Combination of the task ID	

```
Return parameter: default
```

**Example of request:** 

#### **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

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

Return parameter: default

**Example of request:** 

### **Example of return:**

```
{
    "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:** 

```
{
    "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	Туре	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	_
pageSize	Integer	Size of the data that displayed per page	_

Return parameter: List<FrameInfo>

parameter	Туре	Descript ion	Memo
id			
userId	Long	userID	
framePrice	Doub1 e	Render pricing	
feeType	Integ er	Fee charge type	O Quantity-based, 1 Machine-bashed, 2 Project-based
platform	Integ er	Platform	
frameIndex	Strin g	Frame sequence name	

parameter	Туре	Descript ion	Memo
frameBlock	Strin g	Current frame number	
frameStatus	Integ er	Current frame 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 deduction	
couponFee	Doub1 e	Vouchers deduction	
startTime	Long	Start time (ms)	
endTime	Long	End time (ms)	
frameExecute Time	Long	Rendering frame time	
frameStatusT ext	Strin	Frame status descripti on	
arrearsFee	Doub1 e	Render frame arrears amount	
taskId	Long	Task ID	

parameter	Туре	Descript ion	Мето
frameType	Integ er	Frame 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 er	Recount times	Indicate the recount time default is 0, increased as the recount time increase
taskOverTime	Integ er	overtime	Overtime details
gopName	Strin g	Houdini Settlemen t node name	
frameRam	Integ er	Memory of the task rendering frame	No memory requirement if description does not specified

### **Example of request:**

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

```
{
  "version": "1.0.0",
  "result": true,
```

```
"message": "success",
"code": 200,
"data": {
   "pageCount": 9,
    "pageNum": 1,
    "total": 17,
    "size": 2,
    "items": 「
        {
            "id": 1546598,
            "userId": null,
           "framePrice": null,
           "feeType": null,
           "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,
               "isCopy": null,
               "frameBlock": "2",
                "taskOverTime": 86400000,
                "gopName": null,
                "frameRam": null
   },
    "serverTime": 1535966967143
}
```

## Obtain the overview of task rendering frames

Interface path: /api/render/task/queryAllFrameStats

Request parameter: default

Return parameter:

parameter	Туре	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**

```
Example of return:
```

```
{
    "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:

parameter	Туре	Description	Memo
taskParam	List < 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

Request parameter:

parameter	Туре	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]
```

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

```
"serverTime": 1535957894211
```

## Obtain Obtain the task details

Interface path: /api/render/task/queryTaskInfo

### Request parameter:

parameter	Type	Description	Memo
taskIds	List < Integer >	Combine the shell task ID	

Return parameter: List<TaskInfo>

parameter	Туре	Description	Memo
sceneName	String	Scene Name	
id	Integer	Task id	
taskAlias	String	Task Name	
taskStatus	Byte	Task status	1/Waiting, 5/Rendering, 10/Stop, 15/User Stop, 20/Stop due to arrearage, 25/Finished, 30/Finished with failed frames contained, 35/Give up, 40/Test completed, 45/Failed
statusText	String	Status Text	
preTaskStatus	Byte	Preprocessi -ng Task Status	
preStatusText	String	Preprocessi -ng Task Status Text	
totalFrames	Integer	Total frames	
abortFrames	Integer	Abort frames	
executingFrames	Integer	Executing frames	
doneFrames	Integer	Done frames	

parameter	Type	Description	Memo
failedFrames	Integer	Failed frames	
framesRange	String	Frames range	
projectName	String	Project name	
renderConsume	BigDecimal	Task render consume	
taskArrears	BigDecimal	Task arrears	
submitDate	Date	Submit Date	
startTime	Date	Start Date	
completedDate	Date	Completed Date	
renderDuration	Long	Task render duration	
userName	String	User name	
producer	String	producer	
taskLevel	Byte	Task level	
taskUserLevel	Integer	Task level of user	
taskLimit	Integer	Task node limit	
taskOverTime	Long	Task timeout reminder time	
outputFileName	String	Output file	

parameter	Type	Description	Memo
		name	
munuTaskId	String	Dispatch id	
layerParentId	String	About maya task, parent id	
cgId	Integer	Task type	2001/maya, 2000/max
keyValue	String	Task keyword	
userAccountConsume	Bigdecimal	User account consume	
couponConsume	Bigdecimal	Coupon consume	
isOpen	Byte	Whether the front-end expansion button is expanded or not	
taskType	String	Task type	Preprocessing, Render photon, Render picture
renderCamera	String	Render camera	
cloneParentId	Integer	Clone parent id	
cloneOriginalId	Integer	Clone original id	
shareMainCapital	Byte	Whether to	(0: no 1: yes)

parameter	Type	Description	Memo
		Share Main Account Assets	
taskRam	Integer	Task render memory	
respRenderingTaskList	List <taskinfo></taskinfo>	Child tasks of the open task	Structure the same of this object
layerName	String	Layer name	
taskTypeText	String	Task type text	photon/picture

### **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": "",
                "laverParentId": 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::o
utput file basename:Renderbus::photonKg:3::gi frames:0::renderNum:1::width:2000::nam
e:vray::irradiance map mode:4::primary gi engine:0::image sampler type:1::",
                "userAccountConsume": null,
                "couponConsume":
                "is0pen": 1,
                "taskType": "",
                "renderCamera": "Camera001",
                "cloneParentId": null,
                "cloneOriginalId": null,
```

```
"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": "",
                        "renderConsume": 1.31,
                        "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::o
```

"shareMainCapital": 0,

```
utput_file_basename:Renderbus::photonKg:3::gi_frames:0::renderNum:1::width:2000::nam
e: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": 1
                   },
                        "sceneName": "3d66.com 593362 2018.max",
                        "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::o
utput file basename:Renderbus::photonKg:3::gi frames:0::renderNum:1::width:2000::nam
e:vray::irradiance_map_mode:4::primary_gi_engine:0::image sampler type:1::",
                        "userAccountConsume": 4.84,
                        "couponConsume": 0,
                        "is0pen": 0,
                        "taskType": "Render",
                        "renderCamera": "Camera001",
                        "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": 1535969100700
```

### Add a custom label

Interface path: /api/render/common/addLabel

Request parameter:

parameter	Type	Description	Memo	
newName	String	Label name		
status	String	Lable status		

```
Return parameter: default
```

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

### **Example of return:**

```
{
    "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:

paramete r	Туре	Description	Memo
de1Name	String	Label name	

Return parameter: default

**Example of request:** 

```
"delName": "myLabel"
}

Example of return:

{
    "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
projectNameList	List	Project name list	
Object.projectName	String	Project name	
Object.projectId	Integer	Project id	

### **Example of request:**

 $\{\}$ 

```
{
    "version": "1.0.0",
    "result": true,
```

# 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	Туре	Description	Memo
cgId	Integer	Render software ID	
cgName	String	Render software name	
cgType	String	Render file suffix support	
iconPath	String	Rendering software icon address	
isNeedProjectPath	Integer		
isNeedAnalyse	Integer	Need to analyze	

parameter	Туре	Description	Memo
isSupportLinux	Integer	Indicates if linux is supported or not	

### Example of request: default

**Example of return:** 

```
"version": "1.0.0",
"result": true,
"message": "success",
"code": 200,
"data": {
   "isAutoCommit": 2,
   "renderInfoList": [
            "cgId": 2000,
           "cgName": "Maya",
           "cgType": "ma;mb",
           "iconPath": "/img/softimage/maya.png",
           "isNeedProjectPath": 3,
           "isNeedAnalyse": 1,
           "isSupportLinux": 1
   "defaultCgId": 2001
"serverTime": 1535973558961
```

## Obtain supported rendering software plugins

Interface path: /api/render/common/querySupportedPlugin

Request parameter:

rtoquoot para	11101011			
parameter	Type	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	Type	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
Example of return:
   "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": [
                "id": 23,
               "cgId": 2005,
                "cgName": "CINEMA 4D",
                "cgVersion": "R19"
        7
    "serverTime": 1535973841043
```

# 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 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 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]
```

```
{
    "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:

parameter	Туре	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
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 list	Plugin Version plugin Id

```
Return parameter: default
```

```
Example of request:
```

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

```
{
    "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:

parameter	Туре	Description	Memo
editName	String	render environment custom name	

```
Return parameter: default
```

```
Example of request: {
```

```
"editName":"testRenderEnv"
```

```
{
    "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

### Request parameter:

parameter	Туре	Description	Memo
editName	String	render environment custom name	

```
Return parameter: default
```

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

```
{
    "editName":"testRenderEnv"
}
```

```
{
    "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	
osName	Integer	render environment system	OLinux, 1windows
renderLayerType	Integer		
isDefault	Integer	Check if it is the default configuration	O Not default configuration 1 Is default configuration
respUserPluginInfoVos	List <plugin Version&gt;</plugin 	render environment plugin list	

```
Example of request:
    "cgId":"2000"
Example of return:
    "version": "1.0.0",
   "result": true,
    "message": "success",
    "code": 200,
    "data": [
            "cgId": 2000,
            "editName": "testRenderEnv332",
            "cgName": "Maya",
            "cgVersion": "2020",
            "osName": 0,
            "renderLayerType": 0,
            "isDefault": 0,
            "respUserPluginInfoVos": [
                    "pluginId": 1166,
                    "pluginName": "wobble",
                    "pluginVersion": "wobble 0.9.5"
           ]
       },
            "cgId": 2000,
            "editName": "testRenderEnv222",
            "cgName": "Maya",
            "cgVersion": "2020",
            "osName": 0,
            "renderLayerType": 0,
            "isDefault": 0,
            "respUserPluginInfoVos": [
```

# Task Progress

Interface path: /api/render/task/loadTaskProcessImg

Request parameter:

Request parameter:					
parameter	Туре	Description	Memo		
taskId	Integer	Task ID	required		
frameType	Integer	Frame type	2: photon, 5: picture  Without transmission, the background will dynamically return the results according to the stage of the rendering task		

Return parameter:

parameter	Туре	Description	Memo
width	Integer	Image resolution width	
height	Integer	Image resolution	

parameter	Туре	Description	Memo
		height	
block	Integer	Block number	
isRenderPhoton	Boolean	Is render photon	True:task is render photon
currentTaskType	String	Task render stage	Render: render picture RenderPhoton: render photon
sceneName	String	Scene name+camera name	
startTime	String	Task start time	
endTime	String	Task end time	
grabInfo	List <li st<obje ct&gt;&gt;</obje </li 	Block frame info	

Block frame info: grabInfo.Object

parameter	Type	Description	Memo
startTime	String	Start time	
endTime	String	End time	
frameStatus	String	Frame status	
isMaxPrice	String	Is max picture	

parameter	Туре	Description	Memo
feeAmount	String	Fee amount	
couponFee	String	Coupon fee	
frameIndex	String	Frame number	
frameBlock	String	Block number	
framePercen t	String	Frame render percent	
frameUsed	String	Frame render time consumed	
frameEst	String	Predicted Remaining Time for Frame Rendering	
renderInfo	String	Frame Rendering Progress Information	
grabUrl	String	Frame Rendering Schedule Connection Address	

```
Example of request: {
    "taskId":389406
```

```
{
"block":16,
```

```
"currentTaskType":"Render",
    "grabInfo":[
        "couponFee":"0.00",
                "frameIndex":"0",
                "renderInfo":"",
                "frameBlock":"1",
                "frameEst":"0",
"grabUrl":"/mnt/output/d20/small_pic/10001500/10001834/389406/Render_2018110900083_0_frame_0[
]tga.jpg",
                "feeAmount": "0.20",
                "frameUsed":"66",
                "frameStatus":"4",
                "framePercent":"100",
                "isMaxPrice":"0",
                "startTime":"2018-11-09 18:28:26",
                "endTime":"2018-11-09 18:29:32"
    ],
    "height":1500,
    "sceneName": "3d66.com_589250.max-Camera007",
    "startTime":"2018-11-09 18:27:40",
    "width":2000
```