

TETRA-single-API

0.3.3

OAS 3.0

This is the **Tetra** robot control REST API.

hyulim-networks

area Area where you can specify the speed of the robot

GET /area Area list

Get the list of areas of the current robot.

Parameters

No parameters

Responses

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema

```
[
  {
    "area_id": 0,
    "map_id": 0,
    "area_speed": 0.1,
    "area_alert": "N",
    "area_useyn": "Y",
    "createdAt": "2024-09-24T08:50:29.000Z",
    "updatedAt": "2024-09-24T08:50:29.000Z",
    "Area_points": [
      {
```

Code	Description
------	-------------

```
        "area_point_id": 0,
        "area_id": 0,
        "area_point_x": 1,
        "area_point_y": 1,
        "area_point_z": 0,
        "area_point_order": 0
      }
    ]
  }
```

POST

/area Register a new area

Register a new area and area point.

Parameters

No parameters

Request body required

application/json

Register a new area

Example Value | Schema

```
{
  "map_id": 0,
  "area_speed": 0.1,
  "area_alert": "N",
  "area_useyn": "Y",
  "Area_points": [
    {
      "area_id": 0,
      "area_point_x": 1,
      "area_point_y": 1,
      "area_point_z": 0,
      "area_point_order": 0
    }
  ]
}
```

Responses

Code	Description
------	-------------

200	Returns Object add ID and created date.
-----	---

Media type

Code

Description

application/json

Controls **Accept** header.

Example Value | Schema

```
{
  "area_id": 0,
  "map_id": 0,
  "area_speed": 0.1,
  "area_alert": "N",
  "area_useyn": "Y",
  "createdAt": "2024-09-24T08:50:29.000Z",
  "updatedAt": "2024-09-24T08:50:29.000Z",
  "Area_points": [
    {
      "area_point_id": 0,
      "area_id": 0,
      "area_point_x": 1,
      "area_point_y": 1,
      "area_point_z": 0,
      "area_point_order": 0
    }
  ]
}
```

PUT

/area updateArea

Update area and areaPoint.

Parameters

No parameters

Request body **required**

application/json

area update

Example Value | Schema

```
{
  "area_id": 0,
  "map_id": 0,
  "area_speed": 0.1,
  "area_alert": "N",
  "area_useyn": "Y",
  "Area_points": [
    {
      "area_point_id": 0,
      "area_id": 0,
      "area_point_x": 1,
      "area_point_y": 1,
      "area_point_z": 0,
      "area_point_order": 0
    }
  ]
}
```

```
]
}
```

Responses

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema

```
[
  0
]
```

GET /area/{areald} get Area Detail

Get Area corresponding to Areald.

Parameters

Name	Description
areald * required integer (path)	areald. areald

Responses

Code	Description
200	Returns Object add ID and created date. Media type application/json

Code	Description
	Controls Accept header.
Example Value Schema	
<pre>{ "area_id": 0, "map_id": 0, "area_speed": 0.1, "area_alert": "N", "area_useyn": "Y", "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z", "Area_points": [{ "area_point_id": 0, "area_id": 0, "area_point_x": 1, "area_point_y": 1, "area_point_z": 0, "area_point_order": 0 }] }</pre>	

DELETE	/area/{areald} delete area										
Delete the area and area point corresponding to areald.											
Parameters											
<table><tr><th>Name</th><th>Description</th></tr><tr><td>areald * required</td><td>areald.</td></tr><tr><td>integer (path)</td><td> areald </td></tr></table>		Name	Description	areald * required	areald.	integer (path)	areald				
Name	Description										
areald * required	areald.										
integer (path)	areald										
Responses											
<table><tr><th>Code</th><th>Description</th></tr><tr><td>200</td><td>Returns Array.</td></tr><tr><td></td><td>Media type</td></tr><tr><td></td><td> application/json </td></tr><tr><td></td><td>Controls Accept header.</td></tr></table>		Code	Description	200	Returns Array.		Media type		application/json		Controls Accept header.
Code	Description										
200	Returns Array.										
	Media type										
	application/json										
	Controls Accept header.										

Code	Description				
	<table><tr><th>Example Value</th><th>Schema</th></tr><tr><td colspan="2"><pre>[0]</pre></td></tr></table>	Example Value	Schema	<pre>[0]</pre>	
Example Value	Schema				
<pre>[0]</pre>					

common The system's basic API

GET

/ front end page checker

If there is no front end page, the corresponding page is displayed.

Parameters

No parameters

Responses

Code	Description
200	Returns html page.

GET

/info robot info

robot info and options

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns Object.
-----	-----------------

PUT

/powerOff pc power off

pc power off To keep your data safe

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns void.
-----	---------------

PUT

/reboot pc reboot

pc reboot When the robot does not work

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns void.
-----	---------------

PUT`/update` robot software update

robot software update ros and controller app

Parameters

No parameters

Responses

Code	Description
200	Returns void.

GET`/state` system state

show node.js variables

Parameters

No parameters

Responses

Code	Description
200	Returns Object.(so many variables)

job

 User-assigned tasks**GET**`/job` What you are currently doing

What you are currently doing. If not present, empty object

Parameters

No parameters

Responses

CodeDescription

200Returns Array.

Media type

application/json

Controls Accept header.

Example Value | Schema

```
[
  {
    "job_id": 0,
    "map_id": 0,
    "work_id": 0,
    "job_state": "STBY",
    "job_repeat": 10,
    "job_start_count": 0,
    "job_done_count": 0,
    "job_fail_count": 0,
    "job_order": 5,
    "job_useyn": "Y",
    "createdAt": "2024-09-24T08:50:29.000Z",
    "updatedAt": "2024-09-24T08:50:29.000Z"
  }
]
```

POST /job Register a new task

Register a new task

Parameters

No parameters

Request body required

application/json

Register a new task

Example Value | Schema

```
[
  {
    "map_id": 0,
    "work_id": 0,
    "job_state": "STBY",
    "job_repeat": 10,
    "job_start_count": 0,
    "job_done_count": 0,
    "job_fail_count": 0,
    "job_order": 5
  }
]
```

Responses

Code

Description

200

Returns Object.

Media type

application/json

Controls Accept header.

Example Value | Schema

```
[
  {
    "job_id": 0,
    "map_id": 0,
    "work_id": 0,
    "job_state": "STBY",
    "job_repeat": 10,
    "job_start_count": 0,
    "job_done_count": 0,
    "job_fail_count": 0,
    "job_order": 5,
    "job_useyn": "Y",
    "createdAt": "2024-09-24T08:50:29.000Z",
    "updatedAt": "2024-09-24T08:50:29.000Z"
  }
]
```

DELETE

/job/{jobId} Delete task

Delete task by jobId

Parameters

Name	Description
------	-------------

jobId * required

integer(\$int64)
(path)

jobId.

jobId

Responses

Code	Description
------	-------------

200

Returns Array.

Media type

application/json

Controls Accept header.

Example Value | Schema

```
[  
  0  
]
```

PUT

/job/stop Stop doing

Stop what you are currently doing

Parameters

No parameters

Responses

Code	Description
------	-------------

200

OK.

PUT`/job/pause` Pause the task

Pause the task currently being performed

Parameters

No parameters

Responses

Code	Description
------	-------------

200	OK.
-----	-----

PUT`/job/resume` Resume task

Resume task currently being performed

Parameters

No parameters

Responses

Code	Description
------	-------------

200	OK.
-----	-----

PUT`/job/update/{jobId}` Job Update

Job repeat count Update by jobId

Parameters

Name	Description
------	-------------

jobId * required

integer(\$int64)
(path)

jobId.

jobId

Request body required

application/json

job Update

Example Value | Schema

```
{
  "job_repeat": 10
}
```

Responses

Code	Description
------	-------------

200 Returns Array.

Media type

application/json

Controls Accept header.

Example Value | Schema

```
[
  0
]
```

location

Location and direction of the robot registered on the map

GET

/location location list

get location list in active map

Parameters

No parameters

Responses

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema [{ { "location_id": 0, "map_id": 0, "location_name": "location01_test", "location_type": "LOCATION", "location_position_x": 0, "location_position_y": 0, "location_position_z": 0, "qx": 0, "qy": 0, "qz": 0, "qw": 1, "autodocking": "Y", "docking_id": 0, "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z" } }]

POST /location Add location

Save the current location of the robot.

Parameters

No parameters

Request body required

application/json

location

```
{
  "locationName": "location01_test",
  "locationType": "LOCATION",
  "autodocking": "Y",
  "docking_id": 0
}
```

Responses

Code | Description

200 | Returns Object add ID and created date.

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
{
  "location_id": 0,
  "map_id": 0,
  "location_name": "location01_test",
  "location_type": "LOCATION",
  "location_position_x": 0,
  "location_position_y": 0,
  "location_position_z": 0,
  "qx": 0,
  "qy": 0,
  "qz": 0,
  "qw": 1,
  "autodocking": "Y",
  "docking_id": 0,
  "createdAt": "2024-09-24T08:50:29.000Z",
  "updatedAt": "2024-09-24T08:50:29.000Z"
}
```

GET | /location/{locationId} | Location details

Location information details.

Parameters

Name	Description
locationId * required integer(\$int64) (path)	locationId. locationId

Responses

Code	Description
200	Returns Object. Media type application/json Controls Accept header. Example Value Schema <pre>{ "location_id": 0, "map_id": 0, "location_name": "location01_test", "location_type": "LOCATION", "location_position_x": 0, "location_position_y": 0, "location_position_z": 0, "qx": 0, "qy": 0, "qz": 0, "qw": 1, "autodocking": "Y", "docking_id": 0, "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z" }</pre>

DELETE	/location/{locationId} Delete location
Delete location.	
Parameters	
Name	Description
locationId * required integer(\$int64)	locationId.

Name	Description
(path)	locationId

Responses

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema <pre>[0]</pre>

PUT

/location/{locationId} Edit location

Edit location

Parameters

Name	Description
locationId * required integer(\$int64) (path)	location Id. locationId

Request body **required**

application/json

To edit location, for coordinates, all {x,y,z} must be entered to edit, {qx,qy,qz,qw} must be entered

Example Value | Schema

```
{
  "location_name": "location01_test",
  "location_type": "LOCATION",

```

```
"location_position_x": 1.11,
"location_position_y": 1.11,
"location_position_z": 0,
"qx": 0,
"qy": 0,
"qz": 0,
"qw": 1,
"autodocking": "Y",
"docking_id": 0
}
```

Responses

Code	Description
------	-------------

200	Returns Array.
-----	----------------

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
[
  0
]
```

POST

/location/mapLocation Save location on map

Save location on map

Parameters

No parameters

Request body **required**

application/json

location

Example Value | Schema

```
{
  "locationName": "location01_test",
  "locationType": "LOCATION",
  "location_position_x": 0,
  "location_position_y": 0,
  "location_position_z": 0,
  "qx": 0,
```

```
"qy": 0,
"qz": 0,
"qw": 1,
"autodocking": "Y",
"docking_id": 0
}
```

Responses

Code	Description
200	Returns Object add ID and created date. Media type application/json Controls Accept header. Example Value Schema<pre>{ "location_id": 0, "map_id": 0, "locationName": "location01_test", "locationType": "LOCATION", "location_position_x": 0, "location_position_y": 0, "location_position_z": 0, "qx": 0, "qy": 0, "qz": 0, "qw": 1, "autodocking": "Y", "docking_id": 0, "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z" }</pre>

map Map related API

GET	/map map data
Current map data	
Parameters	
No parameters	

Responses

Code

Description

200

Returns map object.

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
{
  "header": {},
  "info": {},
  "data": {}
}
```

POST

/map Save map

Save current map (when mapping)

Parameters

No parameters

Request body **required**

application/json

Save map

Example Value | Schema

```
{
  "mapName": "map01"
}
```

Responses

Code	Description
200	Returns void.

GET

/map/list map list

List of available maps

Parameters

No parameters

Responses

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema<pre>[{ "map_id": 0, "map_name": "map1", "map_filepath": "ea203110-8097-11ef-8416-11f982ae30d8", "map_useyn": "Y", "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z" }]</pre>

GET

/map/{mapId} map detail info

get map detail info after check exist map file

Parameters

Name	Description
mapId * required integer(\$int64) (path)	mapId. mapId

Responses

Code	Description
200	Returns map object. Media type application/json Controls Accept header. Example Value Schema <pre>{ "header": {}, "info": {}, "data": {} }</pre>

DELETE	/map/{mapId} map delete
map delete by mapId	
Parameters	
mapId * required integer(\$int64) (path)	mapId. mapId
Responses	

Code

Description

200

Returns Array.

Media type

application/json

Controls Accept header.

Example Value | Schema

```
[
  0
]
```

PUT

/map/{mapId} edited map save

edited map save

Parameters

Name

Description

mapId * required

mapId.

integer(\$int64)
(path)

mapId

Request body required

application/json

edited map save

Example Value | Schema

```
{
  "mapName": "map01",
  "mapData": [
    0
  ]
}
```

Responses

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema [0]

mode

Robot mapping mode and driving mode

GET

/modecurrent mode

Get current mode

Parameters

No parameters

Responses

Code	Description
200	Returns map object. Media type application/json Controls Accept header. Example Value Schema <pre>{ "mode": "NAV"}</pre>

PUT`/mode/change/mapping` Change to mapping mode

Change to mapping mode

Parameters

No parameters

Responses

Code	Description
200	Returns void.

PUT`/mode/change/nav/{mapId}` Change to navigation mode

A map ID is required when changing to navigation mode.

Parameters

Name	Description
------	-------------

mapId * required integer(\$int64) (path)	mapId. mapId
---	--

Responses

Code	Description
200	Returns void.

nav

GET

/nav robot coordinates

Current robot coordinates

Parameters

No parameters

Responses

Code

Description

200

Returns coordinates Object.

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
{
  "translation": {},
  "rotation": {},
  "odom": {},
  "odom2": {}
}
```

GET

/nav/path/local local pass

get local pass

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns local plan Object.
-----	----------------------------

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
{
  "localPlan": [
    {}
  ]
}
```

GET /nav/move/goal moving target

get moving target location id

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns goal location.
-----	------------------------

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
{
  "goal": 10
}
```

PUT /nav/to/{locationId} Go to location

Go to that location with location id

Parameters

Name

Description

locationId * required

locationId.

integer(\$int64)
(path)

locationId

Responses

Code

Description

200

Returns result and detail.

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
{
  "result": "fail",
  "detail": "The robot is moving. Please cancel the move and give the command again."
}
```

PUT

/nav/cancel Move Cancel

Cancels the robot's position movement.

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns void.
-----	---------------

PUT

/nav/reset move point reset

Clears the saved goals of robot movements

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns void.
-----	---------------

PUT

/nav/resume resume movement

Move to the saved robot movement goal

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns void.
-----	---------------

PUT`/nav/estimateMyLocation` Robot position estimation

Estimating robot location to a location with high probability

Parameters

No parameters

Responses

Code	Description
200	Returns void.

PUT`/nav/poseEstimate` position adjustment

Adjust the position around the specified coordinates.

Parameters

No parameters

Request body required

`application/json`

position adjustment

Example Value | Schema

```
{
  "x": 0.1,
  "y": 0.1
}
```

Responses

Code	Description
200	Returns void.

PUT

/nav/docking/{markerId} Do Docking.

Dock to the location corresponding to the ar marker ID.

Parameters

Name	Description
markerId * required integer(\$int64) (path)	markerId. markerId

Responses

Code	Description
200	Returns void.

obstacle A virtual wall that custom robots cannot pass through

GET	/obstacle list of obstacles
Gets a list of obstacles in the currently active map.	
Parameters	
No parameters	
Responses	

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema<pre>[{ "obstacle_id": 0, "map_id": 0, "obstacle_type": "POINT", "obstacle_useyn": "Y", "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z", "obstacle_points": [{ "obstacle_point_id": 0, "obstacle_id": 0, "obstacle_point_x": 1, "obstacle_point_y": 1, "obstacle_point_z": 0, "obstacle_point_order": 0 }] }]</pre>

DELETE

/obstacle/{obstacleId}

Remove obstacles.

Remove obstacles.

Parameters

Name	Description
obstacleId * required integer (path)	obstacleId. obstacleId

Responses

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema [0]

repeat repetitive tasks performed at specified times

GET	/repeat List repeat tasks
List of repetitive tasks performed at specified times	
Parameters	
No parameters	
Responses	
Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema [{ "repeat_id": 0, "map_id": 0, "work_id": 0, "repeat_count": 0, "repeat_hour": 13, }]

Code	Description
	<pre>"repeat_order": 0, "repeat_useyn": "Y", "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z" }]</pre>

POST

/repeat

new timed repetitive task

Register a new timed repetitive task

Parameters

No parameters

Request body required

application/json

Register a new timed repetitive task

Example Value | Schema

```
{
  "map_id": 0,
  "work_id": 0,
  "repeat_count": 0,
  "repeat_hour": 13,
  "repeat_order": 0
}
```

Responses

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema <pre>{ "repeat_id": 0, "map_id": 0, "work_id": 0, </pre>

Code	Description
	<pre>"repeat_count": 0, "repeat_hour": 13, "repeat_order": 0, "repeat_useyn": "Y", "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z" }</pre>

DELETE	/repeat/{repeat_id} Delete a timed recurring task						
Delete a timed recurring task							
Parameters							
<table><tr><th>Name</th><th>Description</th></tr><tr><td>repeat_id * required</td><td>repeat_id.</td></tr><tr><td>integer(\$int64) (path)</td><td> repeat_id </td></tr></table>	Name	Description	repeat_id * required	repeat_id.	integer(\$int64) (path)	repeat_id	
Name	Description						
repeat_id * required	repeat_id.						
integer(\$int64) (path)	repeat_id						
Responses							
<table><tr><th>Code</th><th>Description</th></tr><tr><td>200</td><td>Returns Array.</td></tr></table>	Code	Description	200	Returns Array.			
Code	Description						
200	Returns Array.						
Media type							
application/json							
Controls Accept header.							
Example Value Schema							
<pre>[0]</pre>							

robot

Robot settings and information

PUT	/robot/speed set robot speed
------------	------------------------------

robot speed setting

Parameters

No parameters

Request body required

application/json

set speed

Example Value | Schema

```
{
  "speed": 0.3
}
```

Responses

Code	Description
200	Returns void.

PUT

/robot/minBattery set Robot docking battery

Robot docking battery percentage setting

Parameters

No parameters

Request body required

application/json

battery min

Example Value | Schema

```
{
  "battery": 30
}
```

Responses

Code	Description
200	Returns void.

PUT

/robot/maxBattery set Robot battery max

Robot docking battery max percentage setting

Parameters

No parameters

Request body required

application/json

battery max

Example Value | Schema

```
{
  "battery": 80
}
```

Responses

Code	Description
200	Returns void.

PUT

/robot/weightObstacle obstacle avoidance weight

Robot obstacle avoidance weight setting

Parameters

No parameters

Request body required

application/json

set Weight Obstacle

Example Value | Schema

```
{
  "weightObstacle": 20
}
```

Responses

Code	Description
200	Returns void.

GET

/robot/servo servo info

servo state 1= On, 0= Off

Parameters

No parameters

Responses

Code	Description
200	Returns Object.

Media type

application/json

Controls Accept header.

Code**Description****Example Value** | Schema

```
{
  "servo": 0
}
```

PUT`/robot/servo` Servo turns on/off

Servo motor forcibly turns on/off

Parameters

No parameters

Request body required`application/json`

input 1 On 2 Off

Example Value | Schema

```
{
  "input": 1
}
```

Responses**Code****Description**

200

Returns void.

PUT`/robot/output/{num}/{onOff}` gpio output On/Off

gpio output On/Off change

Parameters

Name	Description
------	-------------

num * required	input 0 ~ 7
-----------------------	-------------

integer(\$int64)
(path)

num

onOff * required	input 1 On 0 Off
-------------------------	------------------

integer(\$int64)
(path)

onOff

Responses

Code	Description
------	-------------

200	Returns void.
-----	---------------

GET

/robot/status robot status

robot status result and detail

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns Object.
-----	-----------------

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{  
  "result": "going",  
}
```

Code

Description

```
"detail": "Moving: The robot is moving."
}
```

PUT

/robot/option set option

set option used robot common info

Parameters

No parameters

Request body **required**

application/json

set option in robot info

Example Value | Schema

```
{
  "option_name": "use_gpio",
  "option_value": "0"
}
```

Responses

Code

Description

200

Returns Object.

GET

/robot/model get models in option

get model list in option

Parameters

No parameters

Responses

Code	Description
------	-------------

200	Returns Array.
-----	----------------

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
[
  "s",
  "m",
  "h",
  "w"
]
```

ros ROS-related API

POST

/ros/service ros service caller

ros service caller

Parameters

No parameters

Request body **required**

application/json

ros service

Example Value | Schema

```
{
  "serviceName": "/TETRA_NS/Power_data_read_cmd",
  "serviceType": "tetraDS_interface/power_data_read",
  "options": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Responses

Code	Description
200	Returns void.

POST

/ros/topic/pub ROS Topic Publishing

ROS 1 Topic Publishing

Parameters

No parameters

Request body required

application/json

ros topic pub

Example Value | Schema

```
{
  "topicName": "/TETRA_NS/cmd_vel",
  "messageType": "geometry_msgs/Twist",
  "message": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Responses

Code	Description
200	Returns void.

POST

/ros/topic/sub Subscribe to the ros topic

Subscribe to the ros 1 topic with web socket

Parameters

No parameters

Request body required

application/json

ros topic sub

Example Value | Schema

```
{
  "topicName": "/TETRA_NS/gpio_status",
  "messageType": "tetraDS_interface/GPIO"
}
```

Responses

Code	Description
200	Returns void.

GET

/ros/cam get cam image

get robot usb cam image

Parameters

No parameters

Responses

Code	Description
200	Returns cam image.

GET

/ros/isValidCam Check usb cam

Check robot usb cam image

Parameters

No parameters

Responses

Code	Description
200	Returns boolean.

task Plan dependent on work and related to location

GET /task/list/{workId} task list	
Get the task corresponding to workId	
Parameters	
Name work_id * required integer (path)	Description work_id. work_id
Responses	

Code	Description
200	Returns Array. Media type application/json Controls Accept header. Example Value Schema [{ "task_id": 0, "work_id": 0, "location_id": 0, "task_order": 5, "task_type": "MOVE", "wait_timeout": 0, "task_useyn": "Y", "createdAt": "2024-09-24T08:50:29.000Z", "updatedAt": "2024-09-24T08:50:29.000Z" }]

work One task unit that ties together multiple locations to go

GET	/work All work list in active map
All work list	
Parameters	
No parameters	
Responses	
Code	Description
200	Returns Array. Media type application/json Controls Accept header.

Code

Description

Example Value | Schema

```
[
  {
    "work_id": 0,
    "map_id": 0,
    "work_name": "work01",
    "work_useyn": "Y",
    "createdAt": "2024-09-24T08:50:29.000Z",
    "updatedAt": "2024-09-24T08:50:29.000Z"
  }
]
```

POST

/work New Work Registration

Register new Work and Task.

Parameters

No parameters

Request body required

application/json

New Work

Example Value | Schema

```
{
  "map_id": 0,
  "work_name": "work01",
  "Tasks": [
    {
      "location_id": 0,
      "task_order": 5,
      "task_type": "MOVE",
      "wait_timeout": 0
    }
  ]
}
```

Responses

Code

Description

200

Returns Array.

Media type

Code

Description

application/json

Controls **Accept** header.

Example Value | Schema

```
{
  "work_id": 0,
  "map_id": 0,
  "work_name": "work01",
  "work_useyn": "Y",
  "createdAt": "2024-09-24T08:50:29.000Z",
  "updatedAt": "2024-09-24T08:50:29.000Z",
  "Tasks": [
    {
      "task_id": 0,
      "work_id": 0,
      "location_id": 0,
      "task_order": 5,
      "task_type": "MOVE",
      "wait_timeout": 0,
      "task_useyn": "Y",
      "createdAt": "2024-09-24T08:50:29.000Z",
      "updatedAt": "2024-09-24T08:50:29.000Z"
    }
  ]
}
```

GET

/work/{workId} Retrieves the work corresponding to the work ID

Work detail with task list

Parameters

Name

Description

workId * required

work_id.

integer
(path)

workId

Responses

Code

Description

200

Returns Array.

Media type

Code

Description

application/json

Controls Accept header.

Example Value | Schema

```
{
  "work_id": 0,
  "map_id": 0,
  "work_name": "work01",
  "work_useyn": "Y",
  "createdAt": "2024-09-24T08:50:29.000Z",
  "updatedAt": "2024-09-24T08:50:29.000Z",
  "Tasks": [
    {
      "task_id": 0,
      "work_id": 0,
      "location_id": 0,
      "task_order": 5,
      "task_type": "MOVE",
      "wait_timeout": 0,
      "task_useyn": "Y",
      "createdAt": "2024-09-24T08:50:29.000Z",
      "updatedAt": "2024-09-24T08:50:29.000Z"
    }
  ]
}
```

PUT

/work/{workId} update Work

Modify work and tasks corresponding to work id

Parameters

Name

Description

workId * required

workId.

integer
(path)

workId

Request body **required**

application/json

Modify work and tasks corresponding to workId

Example Value | Schema

```
{
  "work_id": 0,
  "map_id": 0,
  "work_name": "work01",
  "Tasks": [
    {
```

```
"task_id": 0,
"location_id": 0,
"task_order": 5,
"task_type": "MOVE",
"wait_timeout": 0
}
]
```

Responses

Code	Description
200	Returns void.

DELETE

/work/{workId} delete Work

Delete work and tasks corresponding to workId

Parameters

Name	Description
------	-------------

workId * required

workId.

integer
(path)

workId

Responses

Code	Description
200	Returns Array.

Media type

application/json

Controls **Accept** header.

Example Value | Schema

```
[
  0
```

Code

Description

]