

TETRA-single-API

0.3.3

OAS 3.0

This is the  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": [  
      {  
        "id": 0,  
        "x": 100,  
        "y": 200  
      }  
    ]  
  }  
]
```

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/{areaid} get Area Detail

Get Area corresponding to Areaid.

Parameters

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

areaid * required	areaid.
--------------------------	---------

integer
(path)

areaid

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

Name	Description
areald * required	areald. integer (path)

Responses

Code	Description
200	<p>Returns Array.</p> <p>Media type</p> <p>application/json</p> <p>Controls Accept header.</p>

Code	Description
	<p>Example Value Schema</p> <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

Code Description

200 Returns 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 * requiredinteger(\$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

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

Example Value | Schema

```
{  
    "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 locationId.

integer(\$int64)
(path)

locationId

Responses

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

200 Returns Object.

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"  
}
```

DELETE

/location/{locationId} Delete location

Delete location.

Parameters

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

locationId * required locationId.

integer(\$int64)

Name**Description**

(path)

locationId

Responses**Code****Description**

200

Returns Array.

Media type

application/json

Controls Accept header.

Example Value | Schema

[
 0
]**PUT**

/location/{locationId} Edit location

Edit location

Parameters**Name****Description****locationId** * required

location Id.

integer(\$int64)

(path)

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](#)

```
{  
    "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"  
}
```

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

```
[  
  {  
    "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"  
  }  
]
```

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

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

DELETE

/map/{mapId} map delete

map delete by mapId

Parameters

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

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** * requiredinteger(\$int64)
(path)

mapId.

mapId

Request body required**application/json**

edited map save

Example Value | Schema{
 "mapName": "map01",
 "mapData": [
 0
]
}**Responses**

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

mode Robot mapping mode and driving mode

GET

/mode current mode

Get current mode

Parameters

No parameters

Responses

Code	Description
200	<p>Returns map object.</p> <p>Media type</p> <p>application/json</p> <p>Controls Accept header.</p> <p>Example Value Schema</p> <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 com-  
mand 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.

/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 markerId.

integer(\$int64)
(path) 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](#)

```
[  
  {  
    "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  
      }  
    ]  
  }  
]
```

DELETE

/obstacle/{obstacleId} Remove obstacles.

Remove obstacles.

Parameters

Name	Description
obstacleId * required	obstacleId.

integer
(path)

obstacleId

Responses

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

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	<p>Returns Array.</p> <p>Media type</p> <p>application/json</p> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>[{ "repeat_id": 0, "map_id": 0, "work_id": 0, "repeat_count": 0, "repeat_hour": 13, }]</pre>

Code**Description**

```
        "repeat_order": 0,  
        "repeat_useyn": "Y",  
        "createdAt": "2024-09-24T08:50:29.000Z",  
        "updatedAt": "2024-09-24T08:50:29.000Z"  
    }  
]
```

POST

/repeat new timed repetitive task

Register a new timed repetitive task

Parameters

No parameters

Request body requiredapplication/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

```
{  
    "repeat_id": 0,  
    "map_id": 0,  
    "work_id": 0,
```

Code

```
"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"  
}
```

DELETE

/repeat/{repeat_id} Delete a timed recurring task

Delete a timed recurring task

Parameters

Name

Description

repeat_id * required

repeat_id.

integer(\$int64)
(path)

repeat_id

Responses

Code

Description

200

Returns Array.

Media type

application/json

Controls Accept header.

[Example Value](#) | [Schema](#)

```
[  
  0  
]
```

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** **Description**

work_id * required work_id.

integer
(path)

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	
	<pre>[{ "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" }]</pre>

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,  
            "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"  
        }  
    ]  
}
```

```
        "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

]