Custom / UXVs



List and modify unmanned vehicles (UxVs, such as drones and ground robots).

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API 1. MISSIONS

1.1 GET /missions

List Missions

List all missions available in the system.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

[string]

1.2 PUT /missions

Put Mission Put the mission in the system based on its GUID.

REQUEST

REQUEST BODY - application/json

{ Represent a mission to record the relevant spots on the site.

guid*	string	PATTERN: ^[a-zA-Z0-9:-]+\$
		Generally unique identifier of the mission's topic (*e.g.*, in BIM Sync), used to identify the mission
topic_url*	string	URL to the corresponding topic (*e.g.*, in BIM Sync)
uxv_guid*	string	PATTERN: ^[a-zA-Z0-9:-]+\$
		Generally unique identifier of the UxV
uxv_url*	string	URL to the description of the UxV
<pre>spots* [{ Array of object: Repres</pre>	ent a spot on the c	construction site that needs to be recorded.

product {

Relevant product to be observed in more detail; if omitted, the recording should not focus on any particular building element.

	guid*	string	PATTERN: ^[a-zA-Z0-9:-]+\$
			Generally unique identifier of the product
	revision_url*	string	URL to the revision of the building plan (*e.g.*, in BIM Sync)
	url*	string	URL to the description of the product (*e.g.*, in BIM Sync)
•			

} regions_of_interest* [{

Array of object: Represent a bounding box that needs to be recorded.

xmin* number inclusive
xmax* number exclusive
ymin* number inclusive
ymax* number exclusive
zmin* number inclusive
zmax* number exclusive
}]

}]

```
scheduled_start*integerScheduled start of the mission (seconds since epoch in UTC)scheduled_end*integerScheduled end of the mission (seconds since epoch in UTC)
```

RESPONSE

}

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
   detail [{
    Array of object:
        loc* [string]
        msg* string
        type* string
   }]
}
```

1.3 GET /missions/{guid}

Get Mission

Get the mission description.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the mission

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

```
{
```

Represent a mission to record the relevant spots on the site.

guid*	string	PATTERN: ^[a-zA-Z0-9:-]+\$
		Generally unique identifier of the mission's topic (*e.g.*, in BIM Sync), used to identify the mission
topic_url*	string	URL to the corresponding topic (*e.g.*, in BIM Sync)
uxv_guid*	string	PATTERN: ^[a-zA-Z0-9:-]+\$
		Generally unique identifier of the UxV
uxv_url* spots* [{	string	URL to the description of the UxV

Array of object: Represent a spot on the construction site that needs to be recorded.

product {

Relevant product to be observed in more detail; if omitted, the recording should not focus on any particular building element.

guid* string PATTERN:^[a-zA-Z0-9:-]+S	3
---------------------------------------	---

Generally unique identifier of the product

revision_url* string URL to the revision of the building plan (*e.g.*, in BIM Sync)

```
string URL to the description of the product (*e.g.*, in BIM Sync)
         url*
      }
     regions_of_interest* [{
     Array of object: Represent a bounding box that needs to be recorded.
         xmin* number inclusive
         xmax* number exclusive
         ymin* number inclusive
         ymax* number exclusive
         zmin* number inclusive
         zmax* number exclusive
     }]
  }]
  scheduled_start* integer Scheduled start of the mission (seconds since epoch in UTC)
  scheduled_end*
                          integer Scheduled end of the mission (seconds since epoch in UTC)
}
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
    detail [{
      Array of object:
         loc* [string]
         msg* string
         type* string
    }]
}
```

1.4 DELETE /missions/{guid}

Delete Mission

Delete the mission from the system based on its GUID.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the mission

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

```
RESPONSE MODEL - application/json
```

```
{
    detail [{
    Array of object:
        loc* [string]
        msg* string
```



1.5 HEAD /missions/{guid}

Head Mission

Check whether the mission exists in the system.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the mission

RESPONSE

STATUS CODE - 200: The mission is available in the service.

RESPONSE MODEL - application/json

undefined

STATUS CODE - 404: The mission is not available.

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
    detail [{
        Array of object:
            loc* [string]
            msg* string
            type* string
     }]
}
```

1.6 GET /missions/{guid}/status

Get Mission Status

Retrieve the status of the mission given by its GUID.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN:^[a-zA-ZO-9:-]+\$	GUID of the mission

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

{ Represent the status of the mission.

```
timestamp*integerTimestamp when the status was observed (seconds since epoch in UTC)status*enumALLOWED:pending, in_progress, finishedProvide choices for the status of a recording mission.
```

}

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
  detail [{
   Array of object:
      loc* [string]
      msg* string
      type* string
  }]
}
```

1.7 PUT /missions/{guid}/status

Put Mission Status

Put the status status of the mission given by its GUID.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the mission

REQUEST BODY - application/json

{ Represent the status of the mission.

timestamp*	integer	Timestamp when the status was observed (seconds since epoch in UTC)
status*	enum	ALLOWED:pending, in_progress, finished
		Provide choices for the status of a recording mission.

}

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
    detail [{
    Array of object:
        loc* [string]
        msg* string
        type* string
```

}] }

2. UXVS

2.1 GET /uxvs

List Uxvs List GUIDs of all the UxVs.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

```
[string]
PATTERN:^[a-zA-Z0-9_.:-]+$
```

2.2 PUT /uxvs

Put Uxv Register the UxV with the service based on its GUID.

REQUEST

REQUEST BODY - application/json

{ Represent the status of an unmanned vehicle.

guid* string PATTERN:^[a-zA-Z0-9_.:-]+\$
Generally unique identifier of the vehicle
url* string URL to the description of the vehicle (*e.g.*, in BIM Extended)

RESPONSE

}

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
    detail [{
        Array of object:
            loc* [string]
            msg* string
            type* string
        }]
}
```

Get Uxv

Get the meta-data of the specified UxVs.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the UxV

RESPONSE

STATUS CODE - 200: Successful Response

```
RESPONSE MODEL - application/json
{
    Represent the status of an unmanned vehicle.
    guid* string PATTERN:^[a-zA-Z0-9_.:-]+$
        Generally unique identifier of the vehicle
    url* string URL to the description of the vehicle (*e.g.*, in BIM Extended)
}
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
    detail [{
        Array of object:
            loc* [string]
            msg* string
            type* string
        }]
}
```

2.4 DELETE /uxvs/{guid}

Delete Uxv Unregister the UxV from the service and delete all the related data.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the UxV

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

undefined

STATUS CODE - 422: Validation Error

```
RESPONSE MODEL - application/json
```

```
{
  detail [{
   Array of object:
      loc* [string]
      msg* string
      type* string
   }]
}
```

2.5 HEAD /uxvs/{guid}

Head Uxv

Check whether the UxV has been registered with the service.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the UxV

RESPONSE

STATUS CODE - 200: The UxV has been registered with the service.

RESPONSE MODEL - application/json

undefined

STATUS CODE - 404: The UxV has not been registered.

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
    detail [{
      Array of object:
         loc* [string]
         msg* string
         type* string
    }]
}
```

2.6 GET /uxvs/{guid}/status

Get Uxv Status

Get the status of the specified UxV.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the UxV

RESPONSE

STATUS CODE - 200: Successful Response

```
RESPONSE MODEL - application/json
{
    Represent the observed status of an unmanned vehicle.
    timestamp* integer Timestamp when the status was observed (seconds since epoch in UTC)
    status* enum ALLOWED:ready, on_mission, needs_assistance, broken
    Represent the available choices for the status of an unmanned vehicle.
```

}

```
STATUS CODE - 422: Validation Error
```

RESPONSE MODEL - application/json

```
{
    detail [{
        Array of object:
            loc* [string]
            msg* string
            type* string
        }]
}
```

2.7 PUT /uxvs/{guid}/status

Put Uxv Status

Put the observed status of the unmanned vehicle based on its GUID.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the UxV

REQUEST BODY - application/json

{ Represent the observed status of an unmanned vehicle.

timestamp*integerTimestamp when the status was observed (seconds since epoch in UTC)status*enumALLOWED:ready, on_mission, needs_assistance, brokenRepresent the available choices for the status of an unmanned vehicle.

```
}
```

```
RESPONSE
```

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

```
undefined
```

STATUS CODE - 422: Validation Error

```
RESPONSE MODEL - application/json
```

```
{
```

detail [{

```
Array of object:
    loc* [string]
    msg* string
    type* string
 }]
}
```

2.8 GET /uxvs/{guid}/missions

List Missions Of Uxv

List the GUIDs of the missions to which this UxV has been assigned.

REQUEST

PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*guid	string PATTERN: ^[a-zA-ZO-9:-]+\$	GUID of the UxV

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

[string]

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

```
{
    detail [{
        Array of object:
            loc* [string]
            msg* string
            type* string
        }]
}
```