Experimental / BIM Extended

API Version: 1.0.0

Manage the BIM entities not integrated in the service Mature / BIM Sync.

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API
1. PERSONS

1.1 GET /persons

List Persons

List GUIDs of all the persons.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

```
[string]
```

1.2 PUT /persons

Put Person

Register the person with the service based on its GUID.

REQUEST

REQUEST BODY - application/json
```
{
```
Represent a person involved with the system.

```
  guid*    string   PATTERN:^[a-zA-Z0-9_.:-]+$
```
Generally unique identifier (GUID) of the person
```
  email*   string   PATTERN:^[^@]+@([^@.,]+)(\.[^@.,])*$
```
E-mail address of the person
```
}
```

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 /persons/{guid}

Get Person

Get the data of the specified person.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the person

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

```
{
```
Represent a person involved with the system.
```
  guid*   string  PATTERN:^[a-zA-Z0-9_.:-]+$
```
Generally unique identifier (GUID) of the person
```
  email*  string  PATTERN:^[^@]+@([^@.,]+)(\.[^@.,])*$
```
E-mail address of the person
```
}
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

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

1.4 DELETE /persons/{guid}

Delete Person

Unregister the person from the service and delete all the related data.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the person

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
  }]
}
```

1.5 HEAD /persons/{guid}

Head Person

Check whether the person has been registered with the service.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the person

RESPONSE

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

RESPONSE MODEL - application/json

undefined

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

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

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

2. TASKS

2.1 GET /tasks

List Tasks

List GUIDs of all the tasks.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

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

2.2 PUT /tasks

Put Task

Register the task with the service based on its GUID.

REQUEST

REQUEST BODY - application/json
```
{
```
Represent a task on a construction site.

guid*	string	PATTERN:`^[a-zA-Z0-9_.:-]+$`
		Generally unique identifier (GUID) of the task
name*	string	Human-readable name of the task
long_description*	string	Longer description of the task
subtasks*	[string]	PATTERN:`^[a-zA-Z0-9_.:-]+$`
scheduled_start*	integer	Scheduled start of the task (seconds since epoch in UTC)
scheduled_end*	integer	Scheduled end of the task (seconds since epoch in UTC)

```
related_products* [{
```
Array of object: Represent a building element.

guid*	string	PATTERN:`^[a-zA-Z0-9_.:-]+$`
		Generally unique identifier (GUID) of the building element
revision_url*	string	URL to the revision of the building plan (*e.g.*, in BIM Sync)
url*	string	URL to the more information about the building element (*e.g.*, in BIM Sync)

```
  }]
}
```

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
    }]
}
```

2.3 GET /tasks/{guid}

Get Task

Get the data of the specified task.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

```
{
Represent a task on a construction site.
    guid*                  string          PATTERN:^[a-zA-Z0-9_.:-]+$
                                           Generally unique identifier (GUID) of the task
    name*                  string          Human-readable name of the task
    long_description*      string          Longer description of the task
    subtasks*              [string]        PATTERN:^[a-zA-Z0-9_.:-]+$
    scheduled_start*       integer         Scheduled start of the task (seconds since epoch in UTC)
    scheduled_end*         integer         Scheduled end of the task (seconds since epoch in UTC)
    related_products* [{
    Array of object:  Represent a building element.
        guid*              string  PATTERN:^[a-zA-Z0-9_.:-]+$
                                   Generally unique identifier (GUID) of the building element
        revision_url*  string  URL to the revision of the building plan (*e.g.*, in BIM Sync)
        url*           string  URL to the more information about the building element (*e.g.*, in BIM Sync)
    }]
}
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

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

2.4 DELETE /tasks/{guid}

Delete Task

Unregister the task from the service and delete all the related data.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task

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 /tasks/{guid}

Head Task

Check whether the task has been registered with the service.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task

RESPONSE

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

RESPONSE MODEL - application/json

undefined

STATUS CODE - 404: The task 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 /tasks/{guid}/statuses

List Task Statuses

List GUIDs of all the taks statuses.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task

RESPONSE

STATUS CODE - 200: Successful Response

   RESPONSE MODEL - application/json

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

STATUS CODE - 422: Validation Error

   RESPONSE MODEL - application/json

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

2.7 PUT /tasks/{guid}/statuses

Put Task Status

Register the task status with the service based on its GUID.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task

REQUEST BODY - application/json

```
{
   guid*        string     PATTERN:^[a-zA-Z0-9_.:-]+$
                           Generally unique identifier (GUID) of the task status
   task_guid*   string     PATTERN:^[a-zA-Z0-9_.:-]+$
                           GUID of the corresponding task
   timestamp*   integer    Timestamp when the status was observed (seconds since epoch in UTC)
   status*      enum       ALLOWED:STARTED, IN_PROGRESS, FINISHED, STALLED, WAITING, CANCELLED
                           Status of the task as observed at timestamp
   progress     number     between 0 and  100
                           Percentage of the work done as observed at timestamp
   notes        string     Any notes regarding the task at timestamp
}
```

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 /tasks/{guid}/statuses/{status_guid}

Get Task Status
Get the data of the specified task status.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task
*status_guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task status

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

```
{
   guid*         string     PATTERN:^[a-zA-Z0-9_.:-]+$
                           Generally unique identifier (GUID) of the task status
```

```
    task_guid*  string    PATTERN:^[a-zA-Z0-9_.:-]+$
                          GUID of the corresponding task
    timestamp*  integer   Timestamp when the status was observed (seconds since epoch in UTC)
    status*     enum      ALLOWED:STARTED, IN_PROGRESS, FINISHED, STALLED, WAITING,
                          CANCELLED
                          Status of the task as observed at timestamp
    progress    number    between 0 and  100
                          Percentage of the work done as observed at timestamp
    notes       string    Any notes regarding the task at timestamp
  }
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

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

2.9 DELETE /tasks/{guid}/statuses/{status_guid}

Delete Task Status

Unregister the task status from the service and delete all the related data.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task
*status_guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task status

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
  }]
}
```

2.10 HEAD /tasks/{guid}/statuses/{status_guid}

Head Task Status

Check whether the task status has been registered with the service.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task
*status_guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the task status

RESPONSE

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

RESPONSE MODEL - application/json

undefined

STATUS CODE - 404: The task status has not been registered.

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

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

3. UXVS

3.1 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_.:-]+$
```

3.2 PUT /uxvs

Put Uxv

Register the UxV with the service based on its GUID.

REQUEST

REQUEST BODY - application/json
```
{
```
Represent an unmanned vehicle.

guid*	string	**PATTERN:**^[a-zA-Z0-9_.:-]+$
		Generally unique identifier (GUID) of the unmanned vehicle
kind*	enum	**ALLOWED:**UGV, UAV
		Represent the kind of an unmanned vehicle.
name*	string	Human-readable name of the vehicle
description*	string	Human-readable (longer) description of the vehicle
image_url*	string	URL to the image symbolizing the vehicle. It can also be in-lined, *e.g.*, as base64-encoded image.

```
}
```

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
  }]
}
```

3.3 GET /uxvs/{guid}

Get Uxv

Get the data of the specified UxV.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	GUID of the UxV

RESPONSE

STATUS CODE - 200: Successful Response

RESPONSE MODEL - application/json

```
{
```
Represent an unmanned vehicle.
```
   guid*          string   PATTERN:^[a-zA-Z0-9_.:-]+$
                            Generally unique identifier (GUID) of the unmanned vehicle
   kind*          enum     ALLOWED:UGV, UAV
                            Represent the kind of an unmanned vehicle.
   name*          string   Human-readable name of the vehicle
   description*   string   Human-readable (longer) description of the vehicle
   image_url*     string   URL to the image symbolizing the vehicle. It can also be in-lined, *e.g.*, as base64-encoded image.
}
```

STATUS CODE - 422: Validation Error

RESPONSE MODEL - application/json

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

3.4 DELETE /uxvs/{guid}

Delete Uxv

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

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	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
  }]
}
```

3.5 HEAD /uxvs/{guid}

Head Uxv

Check whether the UxV has been registered with the service.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*guid	string PATTERN: ^[a-zA-Z0-9_.:-]+$	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
  }]
}
```