



Frameworx Specification

Appointment API REST Specification

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INTRODUCTION

The following document is the specification of the REST API for appointment management. It includes the model definition as well as all available operations. Possible actions are to check free slots and, then, creating, updating and retrieving appointment.

The appointment API provides a standardized mechanism to book an appointment with all the necessary appointment characteristics. First, the API consists in searching free slots based on parameters, as for example a party. Then, the appointment is created. The appointment has characteristics such as nature of appointment, place of appointment...

Appointment API performs the following operations:

- Retrieve free slots depending on filter criteria
- Create an appointment
- Cancel an appointment
- Update an appointment
- Reschedule an appointment



SAMPLE USE CASES

The following table maps out the use cases :

Use case
Free slots are checked according to criteria
A new appointment is created
An existing appointment should be updated because its status has changed or party availabilities have changed
An appointment or a collection of appointment should be retrieved
An existing appointment is cancelled
An existing appointment has to be rescheduled



RESOURCE MODEL

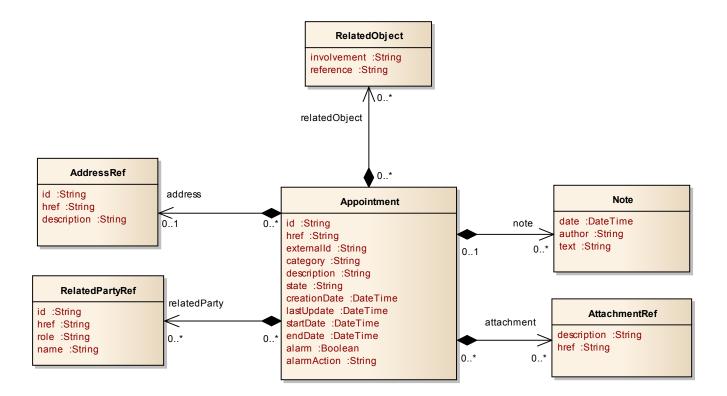
Managed Entity and Task Resource Models

APPOINTMENT RESOURCE

Structured textual way of describing what is an appointment.

An appointment is a meeting with several persons, in one place, in order to do an action (an intervention, a sale, ...). This action has a root, for example a trouble ticket.

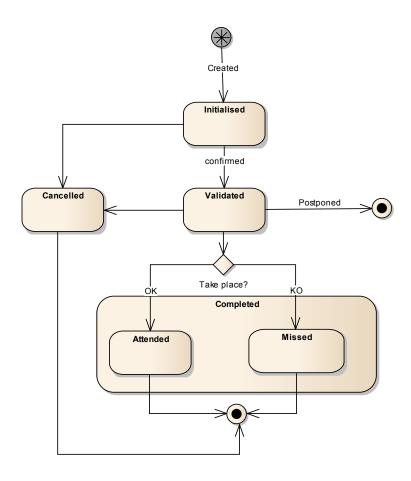
Resource model



Lifecycle

The appointment lifecycle is tracked by mean of the state field. Typical lifecycle values are: initialised, validated, cancelled, attended and missed. The state machine specifying the typical state change transitions is provided below.





State	Description
initialised	When an appointment is created, the status is 'initialised'
validated	When an appointment is confirmed by all parties, the status is 'validated'
cancelled	When an appointment is not confirmed by at least one party, it is 'cancelled'
attended	When an appointment took place and it is OK, the status is 'attended'
missed	When an appointment took place and it is KO, the status is 'missed'

Json representation sample

We provide below the json representation of an sample of an Appointment resource object :

```
"id":"21",
   "href":"https://host:port/appointment/appointment/21",
   "externalId":"anExternalIDIfNeeded432113",
   "category":"intervention",
   "description":"A useful text to describe the appointment",
   "state":"missed",
   "creationDate":"2015-09-01T14:40:43.071Z",
   "lastUpdate":"2015-09-01T14:40:43.071Z",
   "startDate":"2015-09-01T14:00:43.071Z",
```



```
"endDate": "2015-09-01T16:00:43.071Z",
   "alarm": true,
   "alarmAction": "smsToCustomer",
   "attachment":[
         "description": "Short description of the document attached to the appointment",
         "href": "http://server/path/document1.pdf"
  ],
"relatedParty": [
         "id":"32",
         "href": "https://host:port/partyManagement/individual/32",
         "role":"customer",
"name":"John Doe"
      }
  ],
"address":{
      "id":"7660828",
       "href": "https://host:port/address/address/7660828",
       "description": "Complete address of the appointment"
   "relatedObject":[
         "involvement": "problemToSolve",
         "reference": "https://host:port/troubleTicket/troubleTicket/789745465"
      }
  ],
"note":[
         "date": "2015-09-01T14:40:43.071Z",
         "author": "Arthur Ewans",
         "text": "Already called the expert "
      }
   ]
}
```

Field descriptions

Appointment resource

Field	Description
id	A string. Unique identifier of the appointment
href	A string. Unique URI used to access to the appointment resource
externalld	A string. External reference known by the customer
description	A string. Short free text describing the appointment
category	A string. Business category: intervention for example or to be more precise afterSalesIntervention, orderDeliveryIntervention,
state	A string. State corresponding to appointment lifecycle
creationDate	A date time. Appointment creation date
lastUpdate	A date time. Date of last appointment update
startDate	A date time. Appointment beginning date
endDate	A date time. Appointment end date



alarm	A boolean. Indicates if there is a reminder
alarmAction	A string. Action to be invoked when an alarm is triggered for all participants (send mail, send sms,)
relatedParty	A list of related party references. Parties who participate to appointment. It can be a person (customer,) or a team of persons (intervention team,). There are at least two parties involved in an appointment
relatedObject	A list of related object references. Other resources linked to the appointment. For example, it can be an orderToDeliver for an order or a problemToSolve for a trouble ticket
attachment	A list of attachment references. URI related to attached documents to the appointment
address	An address reference. Place of appointment
note	A list of notes. Extra information about the appointment

relatedParty sub-resource

Field	Description
id	A string. Unique identifier of the party
href	A string. Unique URI used to access to the party resource
role	A string. Role played by the party (customer for example)
name	A string. Name of the party

relatedObject sub-resource

Field	Description
involvement	A string. Related object involved
reference	A string. An unique URI used to access to the corresponding resource of the related
	object

attachment sub-resource

Field	Description
href	A string. URI related to attached document to the appointment
description	A string. A short description of the attached document

Address sub-resource

Field	Description
id	A string. Unique identifier of the appointment address
href	A string. Unique URI used to access to the address resource
description	A string. Short text giving the complete address of the appointment

Note sub-resource

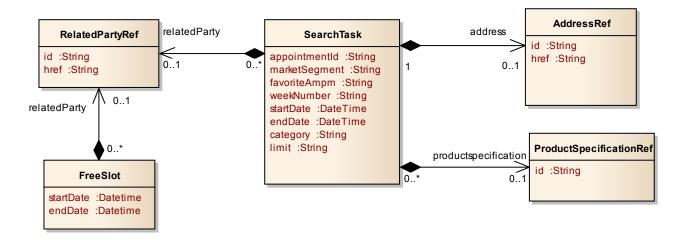
Field	Description
date	A datetime. Date of the note
author	A string. Author name
text	A string. Free text



SEARCH TASK RESOURCE

This task resource is used to look for free slots before booking an appointment (cf. operations).

Resource model



Lifecycle

No state machine for the resource search task.

Json representation samples

We provide below the json representation of a sample of search task input:

```
{
   "marketSegment": "B2C",
   "favoriteAmpm":"pm",
   "weekNumber": "38",
   "startDate": "2015-09-01T14:00:43.071Z",
   "endDate": "2015-09-01T16:00:43.071Z",
   "category": "intervention",
   "limit":"10",
   "productSpecification":{
      "id":"42"
  },
"address":{
    ". "7
      "id": "7660828 " ,
      "href": "https://host:port/address/address/7660828",
      "description": "Complete address of the appointment"
  },
"relatedParty":{
      "id":"32",
      "href": "https://host:port/partyManagement/individual/32"
```



```
}
```

Field descriptions

Field	Description
marketSegment	A string. Market segment linked to the appointment
favoriteAmpm	A string. Favorite moment of the day for the party: am (for slot in the morning) or pm (for slot in the afternoon)
weekNumber	A string. Week number where free slots are searched
startDate	A datetime. Beginning date of the period for free slots search
endDate	A datetime. End date of the period for free slots search
category	A string. Appointment category
limit	A string. Limit number of free slots to be searched
productSpecification	A product specification reference. Product concerned by the appointment
address	An address reference. Appointment place - See appointment resource for
	fields description of this sub-resource
relatedParty	A party reference. Party who is the owner of the calendar on which we want to plan an appointment (for example an intervention team) – See appointment
	resource for fields description of this sub-resource

We provide below the json representation of a sample of search task output (a list of free slots):

Field descriptions

Field	Description	
startDate	A datetime. Beginning date of the free slot	
endDate	A datetime. End date of the free slot	
relatedParty	A reference to a party. Party available during this free slot (for example an intervention team) – See appointment resource for fields description of this sub-resource	

Notification Resource Models

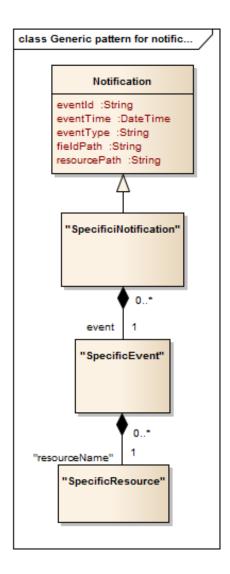
Five notifications are defined for this API:



- appointmentStateChangeNotification
- appointmentRescheduleNotification
- appointmentCategoryChangeNotification
- appointmentCreationNotification
- appointmentAttributeValueChangeNotification

The notification structure for all notifications in this API follow the pattern depicted by the figure below. A notification resource (depicted by "SpecificNotification" placeholder) is a sub class of a generic Notification structure containing an id of the event occurrence (eventId), an event timestamp (eventTime), and the name of the notification resource (eventType).

This notification structure owns an event structure ("SpecificEvent" placeholder) linked to the resource concerned by the notification using the resource name as access field ("resourceName" placeholder).





APPOINTMENT STATE CHANGE NOTIFICATION

Notification sent when the state of an appointment is updated.

Json representation samples

We provide below the json representation of an example of an "appointmentStateChangeNotification" notification object :

```
{
    "eventId":"00001",
    "eventTime":"2013-04-19T16:42:25-04:00",
    "eventType":"appointmentStateChangeNotification",
    "event": {
        "appointment": {
            "id":"21",
            "href":" https://host:port/appointment/appointment/21",
            "state":"missed"
        }
    }
}
```

APPOINTMENT RESCHEDULE NOTIFICATION

Notification sent when an appointment is rescheduled.

Json representation samples

We provide below the json representation of an example of an "appointmentRescheduleNotification" notification object :

```
{
    "eventId":"00001",
    "eventTime":"2013-04-19T16:42:25-04:00",
    "eventType":"appointmentRescheduleNotification",
    "event": {
        "appointment": {
            "id":"21",
            "href":" https://host:port/appointment/appointment/21",
            "startDate":"2015-09-01T14:00:00.071Z",
            "endDate":"2015-09-01T16:00:00.071Z"
        }
    }
}
```



APPOINTMENT CATEGORY CHANGE NOTIFICATION

Notification sent when the category of an appointment is updated.

Json representation samples

We provide below the json representation of an example of an "appointmentCategoryChangeNotification" notification object :

```
{
    "eventId":"00001",
    "eventTime":"2013-04-19T16:42:25-04:00",
    "eventType":"appointmentCategoryChangeNotification",
    "event": {
        "appointment": {
            "id":"21",
            "href":" https://host:port/appointment/appointment/21",
            "category":"intervention"
        }
    }
}
```

APPOINTMENT CREATION NOTIFICATION

Notification sent when a new appointment is created.

Json representation samples

We provide below the json representation of an example of an "appointmentCreationNotification" notification object :



APPOINTMENT ATTRIBUTE VALUE CHANGE NOTIFICATION

Notification sent when an appointment attribute is updated.

Json representation samples

We provide below the json representation of an example of an "appointmentAttributeValueChangeNotification" notification object :

```
{
    "eventId":"00001",
    "eventTime":"2013-04-19T16:42:25-04:00",
    "eventType":"appointmentAttributeValueChangeNotification",
    "event": {
        "appointment": {
            "id":"21",
            "href":"https://host:port/appointment/appointment/21",
            "alarm":"false"
        }
    }
}
```



API OPERATIONS

Remember the following Uniform Contract:

Operation on Entities	Uniform API Operation	Description
Query Entities	GET Resource	GET must be used to retrieve a representation of a resource.
Create Entity	POST Resource	POST must be used to create a new resource
Partial Update of an Entity	PATCH Resource	PATCH must be used to partially update a resource
Complete Update of an Entity	PUT Resource	PUT must be used to completely update a resource identified by its resource URI
Remove an Entity	DELETE Resource	DELETE must be used to remove a resource
Execute an Action on an Entity	POST on TASK Resource	POST must be used to execute Task Resources
Other Request Methods	POST on TASK Resource	GET and POST must not be used to tunnel other request methods.

Filtering and attribute selection rules are described in the TMF REST Design Guidelines.

Notifications are also described in a subsequent section.



OPERATIONS ON APPOINTMENT

Summary of operations

(1) A party (customer service representative, customer, etc.) wants to check free periods into a calendar

A party wants to book an appointment for a customer: the party checks free periods in a calendar.

This calendar can be one of a single person, or an aggregation of persons (a team).

In case of a team calendar, the party identification (competent/relevant team to perform an intervention) is realized via a context: a product specification (FTTH, Copper, etc.), a marketSegment (Pro / Residential), a place/localization, etc.

(2) A party wants to create an appointment

A party books a slot, this slot will be used to realize a task (an intervention, etc.) or to meet a customer service representative.

his booking is done on an organization calendar (a team, a shop, etc.).

(3) A party wants to delete an appointment

If, for example, the customer is not available anymore, the party can cancel the appointment.

(4) A party wants to update an appointment

If, for example, the customer is not available anymore, the party can update the appointment by changing the slot.

(5) A party wants to find appointments with criterias

A party can search all the appointments booked by a customer in a determined period for example.

(6) A party wants to reschedule an appointment

Availabilities of parties have changed. The appointment must be rescheduled.



CHECK FREE SLOTS INTO A CALENDAR (1)

POST /api/freeSlot/search

Description

This operation is used to retrieve relevant free slots, available to book an appointment on, and matching a set of criteria.

Mandatory and Non Mandatory Attributes

The following table provides the list of mandatory and non-mandatory attributes to create an appointment, including any possible rule conditions and applicable default values.

Mandatory Attributes	Rule
marketSegment	
productSpecification	
address	Either id or href must be filled
category	

Non Mandatory Attributes	Rule			
startDate	StartDate is mandatory if weekNumber is empty.			
	If startDate is filled, endDate must be filled			
endDate EndDate is mandatory if weekNumber is empty.				
	If endDate is filled, startDate must be filled			
weekNumber				
favoriteAmpm				
relatedParty	When a party is given, either id or href must be filled			
limit				

Default Values Summary

The following table summarizes the default values applicable to optional attributes of the resource (or subresources):

Attributes	Default Value	
limit	Value to be defined by the project	

Behavior

- Returns HTTP/1.1 status code 200 if the request was successful
- Returns HTTP/1.1 status code 4xx if an error occured, for example to cover these functional error cases:
 - startDate must not be in the past



- endDate must not be in the past
- endDate must be superior to startDate

Usage Samples

Request

```
POST /api/freeSlot/search
Content-type: application/json
{
       "marketSegment" : "B2C",
       "favoriteAmpm": "pm",
       "weekNumber": "36",
       "category": "intervention",
       "limit": "5",
       "productSpecification": {
          "id": "productSpec42"
       "address":{
          "id":"7660828",
          "href": "https://host:port/address/address/7660828",
          "description": "Complete address of the appointment"
       },
"relatedParty" : {
    "22"
         "id": "32",
         "href": "https://host:port/partyManagement/individual/32"
      }
}
```

Response



```
"relatedParty" : {
         "id":"32",
         "href": "https://host:port/partyManagement/individual/32"
        "startDate":"2015-09-01T14:00:00.071Z",
        "endDate":"2015-09-01T16:00:00.071Z"
      },
       "relatedParty" : {
         "id":"32",
         "href": "https://host:port/partyManagement/individual/32"
       "startDate":"2015-09-03T14:00:00.071Z",
       "endDate":"2015-09-03T16:00:00.071Z"
       "relatedParty" : {
         "id":"32"
         "href": "https://host:port/partyManagement/individual/32"
        },
        "startDate":"2015-09-05T14:00:00.071Z",
        "endDate":"2015-09-05T16:00:00.071Z"
   ]
}
```

CREATE AN APPOINTMENT (2)

POST /api/appointment

Description

After checking free slots, this operation is used to create an appointment with all its characteristics.

Mandatory and Non Mandatory Attributes

The following table provides the list of mandatory and non-mandatory attributes when creating an appointment, including any possible rule conditions and applicable default values.

Mandatory Attributes	Rule
category	
startDate	
endDate	
address	Either id or href must be filled at least
relatedParty	At least one party must be linked to the appointment (customer,)
relatedParty.id	Either id or href must be filled at least
relatedParty.href	Either id or href must be filled at least



Non Mandatory Attributes	Rule
externalld	
description	
status	
alarm	
alarmAction	If alarm is false, alarmAction doesn't appear
attachment.href	
address.description	
relatedParty.role	
relatedParty.name	
relatedObject	For example, orderToDeliver, problemToSolve for trouble ticket
relatedObject.involvement	If a relatedObject is selected, involvement and reference must be filled.
relatedObject.reference	If a relatedObject is selected, involvement and reference must be filled.
note	
note.date	
note.author	
note.text	

Default Values Summary

When creating the appointment, the following table summarizes the default values applicable to optional attributes of the resource (or sub-resources):

Attributes	Default Value
state	initialised

Behavior

- Returns HTTP/1.1 status code 201 if the request was successful
- Returns HTTP/1.1 status code 4xx if an error occured, for example to cover these functional use cases:
 - startDate must not be in the past
 - endDate must not be in the past
 - endDate must be superior to startDate
 - appointment on a slot already booked
 - state lifecycle is not respected

Remarques pour Pierre Gauthier : dans les guidelines, il faudrait préciser comment restituer les différents cas d'erreur fonctionnelle dans le pattern d'erreur.

Usage Samples



Request

```
POST /api/appointment
Content-type: application/json
   "externalId": "anExternalIDIfNeeded432113",
   "category": "intervention",
   "description": "A useful text to describe the appointment",
   "state": "missed",
   "creationDate": "2015-09-01T14:40:43.071Z",
   "lastUpdate": "2015-09-01T14:40:43.071Z",
   "startDate": "2015-09-01T14:00:43.071Z",
   "endDate": "2015-09-01T16:00:43.071Z",
   "alarm": true,
   "alarmAction": "smsToCustomer",
   "attachment":[
         "description": "Short description of the document attached to the appointment",
         "href": "http://server/path/document1.pdf"
      }
   ],
"relatedParty": [
         "id":"32",
         "href": "https://host:port/partyManagement/individual/32",
         "role":"customer",
         "name":"John Doe"
      }
  ],
"address":{
"`-1"."76
      "id":"7660828",
       "href": "https://host:port/address/address/7660828",
       "description": "Complete address of the appointment"
  },
"relatedObject":[
      {
         "involvement": "problemToSolve",
         "reference": "https://host:port/troubleTicket/troubleTicket/789745465"
      }
  ],
"note":[
         "date": "2015-09-01T14:40:43.071Z",
         "author": "Arthur Ewans",
         "text": "Already called the expert"
      }
   ]
}
```

Response



```
201
Content-Type: application/json
   "id":"21",
   "href": "https://host:port/appointment/appointment/21",
   "externalId": "anExternalIDIfNeeded432113",
   "category": "intervention",
   "description": "A useful text to describe the appointment",
   "state": "missed",
   "creationDate": "2015-09-01T14:40:43.071Z",
   "lastUpdate":"2015-09-01T14:40:43.071Z",
   "startDate": "2015-09-01T14:00:43.071Z",
   "endDate": "2015-09-01T16:00:43.071Z",
   "alarm": true,
   "alarmAction": "smsToCustomer",
   "attachment":[
         "description": "Short description of the document attached to the appointment",
         "href": "http://server/path/document1.pdf"
      }
   "relatedParty": [
         "id":"32",
         "href": "https://host:port/partyManagement/individual/32",
         "role":"customer",
         "name":"John Doe"
      }
   "address":{
      "id":"7660828",
       "href": "https://host:port/address/address/7660828",
       "description": "Complete address of the appointment"
   "relatedObject":[
         "involvement": "problemToSolve",
         "reference": "https://host:port/troubleTicket/troubleTicket/789745465"
      }
  ],
"note":[
         "date": "2015-09-01T14:40:43.071Z",
         "author": "Arthur Ewans",
         "text": "Already called the expert "
      }
   ]
```

UPDATE OR CANCEL AN APPOINTMENT (3) (4)



PATCH /api/appointment/{id}

Description

This operation can be used to update partially an appointment if information has changed. It also can be used to cancel an appointment by modifying its state. The new state is 'cancelled'.

Patchable and Non Patchable Attributes

The tables below provide the list of patchable and not patchable attributes, including constraint rules on their usage.

Patchable attributes	Rule
category	
description	
state	To manage the appointment process (cf. appointment lifecycle)
startDate	
endDate	
alarm	
alarmAction	
attachment.href	
relatedParty	Only when the party is not the customer
relatedObject	
note	

Non Patchable attributes	Rule
Id	
href	
externalld	
creationDate	
lastUpdate	
address	

Behavior

- Returns HTTP/1.1 status code 200 if the request was successful
- Returns HTTP/1.1 status code 4xx if an error occured, for example to cover these functional use cases:
 - startDate must not be in the past
 - endDate must not be in the past
 - endDate must be superior to startDate
 - appointment on a slot already booked
 - state lifecycle is not respected

Usage Samples

Request			



```
PATCH /api/appointment/21
Content-Type: application/json
{
    "state":"cancelled"
}
```

Response

```
200
Content-Type: application/json
{
   "id":"21",
   "href": "https://host:port/appointment/21",
   "externalId": "anExternalIDIfNeeded432113",
   "category": "intervention",
   "description": "A useful text to describe the appointment",
   "state": "cancelled",
   "creationDate": "2015-09-01T14:40:43.071Z",
   "lastUpdate":"2015-09-01T14:40:43.071Z",
   "startDate": "2015-09-01T14:00:43.071Z",
   "endDate":"2015-09-01T16:00:43.071Z",
   "alarm": true,
"alarmAction":"smsToCustomer",
   "attachment":[
      {
         "description": "Short description of the document attached to the appointment",
         "href": "http://server/path/document1.pdf"
      }
   "relatedParty": [
         "id":"32",
         "href": "https://host:port/partyManagement/individual/32",
         "role": "customer",
         "name":"John Doe"
      }
   ],
"address":{
      "id": "7660828",
       "href": "https://host:port/address/address/7660828",
       "description": "Complete address of the appointment"
  },
"relatedObject":[
      {
         "involvement": "problemToSolve",
         "reference": "https://host:port/troubleTicket/troubleTicket/789745465"
      }
   ],
   "note":[
      {
         "date": "2015-09-01T14:40:43.071Z",
```



```
"author":"Arthur Ewan",
    "text":"Already called the expert "
}
]
]
```

RETRIEVE AN APPOINTMENT

GET /api/appointment/{id}

Description

This operation is used to search an appointment by its unique identifier.

Behavior

- Returns HTTP/1.1 status code 200 if the request was successful
- Returns HTTP/1.1 status code 404 (Not found) if the appointment does not exist.

Usage Samples

GET /api/appointment/21 Accept: application-json

Response

```
Content-Type: application/json
{
    "id":"21",
    "href":"https://host:port/appointment/appointment/21",
    "externalId":"anExternalIDIfNeeded432113",
    "category":"intervention",
    "description":"A useful text to describe the appointment",
    "state":"missed",
    "creationDate":"2015-09-01T14:40:43.071Z",
    "lastUpdate":"2015-09-01T14:40:43.071Z",
    "startDate":"2015-09-01T16:00:43.071Z",
    "endDate":"2015-09-01T16:00:43.071Z",
    "alarm": true,
```



```
"alarmAction":"smsToCustomer",
   "attachment":[
         "description": "Short description of the document attached to the appointment",
         "href": "http://server/path/document1.pdf"
      }
  ],
"relatedParty": [
         "id":"32",
         "href": "https://host:port/partyManagement/individual/32",
         "role": "customer",
         "name":"John Doe"
      }
   ],
   "address":{
      "id":"7660828",
       "href": "https://host:port/address/address/7660828",
       "description": "Complete address of the appointment"
   "relatedObject":[
         "involvement": "problemToSolve",
         "reference": "https://host:port/troubleTicket/troubleTicket/789745465"
      }
   ],
   "note":[
         "date": "2015-09-01T14:40:43.071Z",
         "author": "Arthur Ewan",
         "text": "Already called the expert "
      }
   ]
}
```

LIST APPOINTMENTS (5)

GET /api/appointment? {fields=attributes}&{filtering expression}

Description

This operation is used to retrieve appointments corresponding to given criteria. Filtering is allowed on all attributes.

Attribute selection is enabled on all attributes.

Behavior

Returns HTTP/1.1 status code 200 if the request was successful



Returns HTTP/1.1 status code 4xx if an error occured

Usage Samples

Request

GET /api/appointment?relatedParty.id=32&relatedParty.role=customer&startDate.gt=2015-08-31&startDate.lt=2015-09-04&fields=id,category,state,startDate,endDate Accept: application/json

Response

RESCHEDULE AN APPOINTMENT (6)

POST /api/freeSlot/search

Description

This operation is used to retrieve relevant free slots, available for rescheduling an existing appointment on.

Mandatory and Non Mandatory Attributes

The following table provides the list of mandatory and non mandatory attributes when creating an appointment, including any possible rule conditions and applicable default values.

Ma	ndatory Attributes	Rule
appoii	ntmentId	



Behavior

Returns HTTP/1.1 status code 200 if the request was successful Returns HTTP/1.1 status code 4xx if an error occured.

Usage Samples

```
Request

GET /api/freeSlot/search
Content-Type: application/json
{
        "appointmentId": "36"
}
```

Response

```
200
200
Content-Type: application/json
{
   "freeSlot":[
       "relatedParty" : {
         "id": "32",
         "href" : "https://host:port/partyManagement/individual/32"
       "startDate":"2015-09-01T14:00:00.071Z",
       "endDate":"2015-09-01T16:00:00.071Z"
      },
       "relatedParty" : {
         "id" : "32",
         "href" : "https://host:port/partyManagement/individual/32"
        },
"startDate":"2015-09-01T16:00:00.071Z",
"3017-00-01T18:00:00.071Z"
        "endDate": "2015-09-01T18:00:00.071Z"
      },
       "relatedParty" : {
         "id": "32",
         "href" : "https://host:port/partyManagement/individual/32"
        "startDate":"2015-09-01T14:00:00.071Z",
        "endDate": "2015-09-01T16:00:00.071Z"
      },
       "relatedParty" : {
         "id" : "32",
```





API NOTIFICATIONS

It is assumed that the Pub/Sub uses the Register and UnRegister mechanisms described in the REST Guidelines reproduced below.

REGISTER LISTENER

POST /HUB

Description

Sets the communication endpoint address the service instance must use to deliver information about its health state, execution state, failures and metrics. Subsequent POST calls will be rejected by the service if it does not support multiple listeners. In this case DELETE /api/hub/{id} must be called before an endpoint can be created again.

Behavior

Returns HTTP/1.1 status code 204 if the request was successful. Returns HTTP/1.1 status code 409 if request is not successful.

Usage samples

Here's an example of a request for registering a listener.

Request

POST /api/hub

Accept: application/json

{"callback": "http://in.listener.com"}

Response

201

Content-Type: application/json

Location: /api/hub/42

{"id":"42","callback":"http://in.listener.com","query":null}



UNREGISTER LISTENER

DELETE HUB/{ID}

Description

Clears the communication endpoint address that was set by creating the Hub.

Behavior

Returns HTTP/1.1 status code 204 if the request was successful. Returns HTTP/1.1 status code 404 if the resource is not found.

Usage samples

Here's an example of a request for un-registering a listener.

Request

DELETE /api/hub/{id}
Accept: application/json

Response

204

PUBLISH EVENT TO LISTENER

POST /CLIENT/LISTENER

Description

Provides to a registered listener the description of the event that was raised.

Behavior

Returns HTTP/1.1 status code 201 if the service is able to set the configuration. The /client/listener url is the callback url passed when registering the listener.

Usage samples

An example of a notification received by the listener. In this example, "EvenType" should be replaced by one of the notification types supported by this API (detailed in Notification resources Model section) and "EVENT BODY" refers to the data structure of the given notification type.



```
Request

POST /client/listener
Accept: application/json

{
    "eventType": "EventType",
    "event": {
        EVENT BODY
    }
}
Response

201
Content-Type: application/json
```

For detailed examples on the general TM Forum notification mechanism, see the TMF REST Design Guidelines.



ACKNOWLEDGEMENTS

RELEASE HISTORY

Release Number	Date	Release led by:	Description

CONTRIBUTORS TO DOCUMENT				