

API Documentation

Meeting Portal API v4.9.0

Contents

- 1 Introduction
- 2 API Concept
 - 2.1 Data formats
- 3 Standard Communication Types
 - 3.1 Authentication
- 4 HTTP Response codes
 - 4.1 POST
 - 4.2 PUT
 - 4.3 GET
 - 4.4 DELETE
- 5 Types
 - 5.1 Entity
 - 5.2 Meeting
 - 5.3 Meeting Entity
 - 5.4 Scheduling Template
 - 5.5 Appointment
 - 5.6 Meeting Create Result
 - 5.7 Meeting Update Result
 - 5.8 Meeting Delete Result
- 6 Accessing the API
 - 6.1 Entity Manager
 - 6.2 Entity
 - 6.3 Meeting
 - 6.4 Types
- 7 References

1 Introduction

This is the documentation for the official Meeting Portal API

This document describes the main concepts behind the Meeting Portal, as well as how to integrate with them through an API. This document does not attempt to describe best practices for building your integration, as this will differ depending on the scale of your service and how extensively you are using Synergy Sky within your service offering.

2 API Concept

This API is REST-ful implementation ^[1]. This translates into a set of paths or URLs, which give access to the consumer of the API. Depending on the action you are performing, the HTTP verb may change.

Examples

To access an entity, the path will be `meeting_portal_api.com/entity/UUID` and the verb will be `GET`.
To update an entity, the path will also be `meeting_portal_api.com/entity/UUID` and the verb will be `PUT`.

2.1 Data formats

When accessing the API, you can specify whether you want to receive data back in JSON or XML format. This is done by changing the Accept header

For JSON use **Accept: application/json**
For XML use **Accept: application/xml**

3 Standard Communication Types

The standard methods for interacting with the API follow the HTTP protocol where the method name is used against the object path for interaction.

Method	Action	Description
POST	Create	Create a new object in the system
PUT	Update	Modify existing target
GET	Request/Get	Get existing information
DELETE	Delete / Remove	Delete object from the system

3.1 Authentication

This API implements only Basic Access Authentication ^[2] as form of authentication.

To authenticate a client request a token should be included in the header of the request.

C# example

```
client.Headers.Add("Authorization", "BASIC QWxhZGRpbjpvGVuIHNIc2FtZQ==");
```

From wikipedia.org^[3]:



Note

When the user agent wants to send the server authentication credentials it may use the Authorization header. The Authorization header is constructed as follows: Username and password are combined into a string **username:password**. The resulting string literal is then encoded using the RFC2045-MIME variant of Base64, except not limited to 76 char per line. The authorization method and a space i.e. **"Basic "** is then put before the encoded string. For example, if the user agent uses **"Aladdin"** as the username and **"open sesame"** as the password then the header is formed as follows: **Authorization: Basic QWxhZGRpbjpvGVuIHNIc2FtZQ==**

4 HTTP Response codes

HTTP Code	Name	Description
200	OK	Returned from a successful GET, DELETE and PUT
201	Created	Returned from a successful POST
204	No Content	Returned from a successful POST
400	Bad Request	Returned from a request that was invalid or lacked mandatory parameters
500	Internal Service Error	Returned from a request that failed, some invalid parameters return 500 instead of 400 for example, requesting a UUID which does not exist in the database

4.1 POST

The POST method is used for creating/Adding a new resource to the system. It is applied on the base URI of the Method. When Posting or creating/adding a new resource the values are added into the body of the request in JSON format. Parameters are documented under each service path

When creating a new instance of any object you start with a POST.

```
{
  "xxx": "yyy",
  "zzz": "aaa", Location header.
  "AttributeValues": [
    {"name": "<keyname>", "value": "<data value>"},
    {"name": "<keyname>", "value": "<data value>"}]
}
```

4.2 PUT

The PUT method is used for updating resources. The expected Content-type is **application/json**

4.3 GET

The GET method is used for fetching data from the system, additional parameters are passed in as url parameters in addition to the URI path.

Response list is described under each respective API function, and consist of JSON formatted data.

4.4 DELETE

The DELETE method is used for removing the referenced object by the passed in UUID.

5 Types

There are a number of types that are used in this API to transfer information between client and server. You will see these referenced in the signatures of various methods.

5.1 Entity

An entity refers to either a user or a meeting room. When you book a meeting, you will need to supply details of the organiser - which will be an entity - as well as details about which entity is associated with making the changes. That means all entities MUST exist in the Synergy platform.

5.1.1 Reference

Field	Type
Id	UUID
CustomerId	UUID
Customer	string
GroupId	UUID
Group	string
GroupPath	string
Description	string
Email	string
TypeId	integer
Type	string
ExternalCalendarReference	string
IsSuperUser	boolean
SuperUserEntryPointUUID	UUID
IsAdministrator	boolean

5.1.2 Example

```
{  
  "Id": "8693be4e-40d7-42e6-892c-0b397bbaf8c",  
  "CustomerId": "7df205f2-dec2-462a-862c-d858e971feb0",  
  "Customer": "Synergy SKY",  
  "GroupId": "d1c24130-44cf-4b61-aa4c-ba281a8e08fb",  
  "Group": "Users",  
  "GroupPath": "6346f0df-6ed5-49d9-99b6-a1a842922eec,261a439e-88f5-4450-a9e1-ee29f854c6ad,dc=synergysky",  
  "Description": "John Doe",  
  "Email": "johndoe@synergysky.com",  
  "TypeId": 1,  
  "Type": "User",  
  "ExternalCalendarReference": null,  
  "IsSuperUser": true,  
  "SuperUserEntryPointUUID": "7ae63dd1-863f-4dfe-a200-7ee0da58c6c3",  
  "IsAdministrator": true  
}
```

5.2 Meeting

A meeting refers to a booking with subject, details etc and of course participants.

5.2.1 Reference

Field	Type
Id	UUID
CreatedById	UUID
CreatedByEmailAddress	string
LastUpdatedBy	UUID
LastUpdatedByEmailAddress	string
DeletedBy	UUID

DeletedByEmailAddress	string
OrganiserId	UUID
OrganiserDescription	string
OrganiserEmailAddress	string
SchedulingTemplateId	integer
ActivityCode	string
BillingCode	string
ReservationOnly	boolean
Subject	string
Description	string
StartTime	DateTime
EndTime	DateTime
RecurrenceTypeId	integer
RecurrenceEndDate	DateTime
RecurrenceIntervalMetric	integer
RecurrenceIntervalInfo	string
MeetingEndEmailRequired	boolean
MeetingIsExtendable	boolean
VMRTypeId	integer
VMRType	string
UriWithDomain	string
UriWithDomain2	string
CallIdHost	long
CallIdGuest	long
UriWithoutDomain	string
HostPin	long
GuestPin	long
MeetingEntities	List<MeetingEntity>

5.2.2 Example

```
{
  "Id": "4e44dd36-73e7-4d7d-b684-f70409e84f56",
  "CreatedBy": "a820bbe2-82e7-45f1-bf66-4799f594e2e9",
  "CreatedByEmail": "johndoe@synergysky.com",
  "LastUpdated": "04233245-8dfb-42af-a7dd-2edc7517dbe4",
  "LastUpdatedByEmail": "johndoe@synergysky.com",
  "DeletedBy": "33d34b1f-56f6-4c35-a697-dc07befe34ad",
  "DeletedByEmail": "johndoe@synergysky.com",
  "OrganiserId": "38b9e43e-619b-4150-9fe6-a85973483d24",
  "OrganiserDescription": "John Doe",
  "OrganiserEmail": "johndoe@synergysky.com",
  "SchedulingTemplateId": 2,
  "ActivityCode": "SALES001",
  "BillingCode": "SALESBILL001",
  "ReservationOnly": false,
  "Subject": "Weekly sales meeting",
  "Description": "Go through recent sales activity and prospects",
  "StartTime": "2017-06-23T09:00:00",
  "EndTime": "2017-06-23T10:00:00",
  "RecurrenceTypeId": 1,
  "RecurrenceEndDate": "2018-06-23",
  "RecurrenceIntervalMetric": 2,
  "RecurrenceIntervalInfo": "",
  "MeetingEndEmailRequired": true,
  "MeetingIsExtendable": true,
  "VMRTypeId": 1,
  "VMRType": "Dynamic",
  "UriWithDomain": "acch.5865@alpha.syco.no",
  "UriWithDomain2": "accg.5865@alpha.syco.no",
  "CallIdHost": 3775,
  "CallIdGuest": 3569,
  "UriWithoutDomain": "5865",
  "HostPin": 1234,
  "GuestPin": 2345,
  "MeetingEntities": [
    {
      "Id": "92da83ff-1a01-427d-9d5e-0210c9aedb04",
      "MeetingId": "6dcbb448-ed6c-45b4-82fe-34a06374869c",
    }
  ]
}
```



```

    "EntityId": "e4facd15-dbda-43d1-87b1-522aac5273ee",
    "EntityType": "User",
    "EmailAddress": "johndoe@synergysky.com",
    "Description": "John Doe",
    "IsOrganiser": true
  },
  {
    "Id": "eb94f065-5e02-451f-921e-24403936fba5",
    "MeetingId": "a0dfc85-9b7f-44c2-bc7b-349cd61f324d",
    "EntityId": "00000000-0000-0000-0000-000000000000",
    "EntityType": "Guest",
    "EmailAddress": "bill.gates@hotmail.com",
    "Description": "Bill Gates",
    "IsOrganiser": false,
    "DialOutUri": "bill@microsoft.com"
  },
  {
    "Id": "5e6ada51-953e-4059-b997-e9db7c45e044",
    "MeetingId": "44802feb-4e24-4694-a9e7-298a251699e7",
    "EntityId": "22b877c0-c2d7-4720-9efd-7d91b6f21b98",
    "EntityType": "Meeting Room",
    "EmailAddress": "boardroom@synergysky.com",
    "Description": "Boardroom",
    "IsOrganiser": false,
  }
]
}

```

5.3 Meeting Entity

A meeting entity is an entity, meeting room, or guest who has been invited to a meeting

5.3.1 Reference

Field	Type
Id	UUID
MeetingId	UUID
EntityId	UUID
EntityTypeId	integer
EntityType	string
EmailAddress	string
Description	string
IsOrganiser	boolean
DialOutUri	boolean

5.3.2 Example

```

{
  "Id": "35003d29-e288-479d-aad8-4b68ec8cd979",
  "MeetingId": "757922f4-2770-4968-92da-3a9ddc1fdafc",
  "EntityId": "56d39816-6c31-44ae-8e68-1b34655ff6ad",
  "EntityType": "User",
  "EmailAddress": "johndoe@synergysky.com",
  "Description": "John Doe",
  "IsOrganiser": false,
  "DialOutUri": "bill@microsoft.com"
}

```

5.4 Scheduling Template

A scheduling template describes the rules that will be used to create meetings for entities.

5.4.1 Reference

Field	Type
Id	integer
ContainerId	UUID
DynamicVMRCarrierId	UUID
VMRTypeId	integer
UriPrefix	string
UriDomain	string
UriPrefix2	string
UriNumberRangeLow	long
UriNumberRangeHigh	long
HostPinRequired	boolean
HostPinRangeLow	long
HostPinRangeHigh	long
KeepHostPin	boolean
GuestPinRequired	boolean
GuestPinRangeLow	long
GuestPinRangeHigh	long
CreateVMRBeforeMeetingMinutes	integer
MeetingEndEmailMinutes	integer
EmailIntegrationTypeId	integer
MeetingEndEmailAvailable	boolean
MeetingCanBeExtended	boolean
ActivityCodeRequired	boolean
BillingCodeRequired	boolean

5.4.2 Example

```
{  
  "Id": 2,  
  "ContainerId": "56b8f435-9111-4ba8-9b27-3ac59c5506e4",  
  "DynamicVMRCarrierId": "bfa08d3b-c267-43d5-9a22-ea8c444f7ba3",  
  "VMRTypeId": 1,  
  "UriPrefix": "sales.",  
  "UriDomain": "synergysky.com",  
  "UriPrefix2": "sales2.",  
  "UriNumberRangeLow": 1000,  
  "UriNumberRangeHigh": 5000,  
  "HostPinRequired": true,  
  "HostPinRangeLow": 6000,  
  "HostPinRangeHigh": 9000,  
  "KeepHostPin": false,  
  "GuestPinRequired": true,  
  "GuestPinRangeLow": 1000,  
  "GuestPinRangeHigh": 2000,  
  "CreateVMRBeforeMeetingMinutes": 5,  
  "MeetingEndEmailMinutes": 5,  
  "EmailIntegrationTypeId": 1,  
  "MeetingEndEmailAvailable": true,  
  "MeetingCanBeExtended": true,  
  "ActivityCodeRequired": true,  
  "BillingCodeRequired": true  
}
```

5.5 Appointment

This is used to describe other bookings/meetings that an entity may have. This only applies to meeting room entities

5.5.1 Reference

Field	Type
From	DateTime
To	DateTime

Title	string
AvailabilityType	integer
ResourceId	"boardroom@synergysky.com"

5.5.2 Example

```
{
  "From": "2017-06-23T07:00:00",
  "To": "2017-06-23T08:00:00",
  "Title": "Sales meeting",
  "AvailabilityType": 1,
  "ResourceId": "boardroom@synergysky.com"
}
```

5.6 Meeting Create Result

This is the response after a request has been made to create a meeting.

5.6.1 Reference

Field	Type
CreateResult	integer
CreateMessage	string
Meeting	Meeting

5.6.2 Example

```
{
  "CreateResult": 1,
  "CreateMessage": "",
  "Meeting": {
    "Id": "f9134d59-e439-474a-9909-271be9fd27f5",
    "CreatedBy": "ae1210e9-9d95-4b40-a990-72d773d4797a",
    "CreatedByEmail": "johndoe@synergysky.com",
    "LastUpdatedBy": "ef163876-d5aa-4fcd-bf51-18c821a79755",
    "LastUpdatedByEmail": "johndoe@synergysky.com",
    "DeletedBy": "6cf171b3-260c-461d-b8c4-44d1a99c8dda",
    "DeletedByEmail": "johndoe@synergysky.com",
    "Organiser": "2cff6a83-eef3-416c-9116-706118c3ee70",
    "OrganiserDescription": "John Doe",
    "OrganiserEmail": "johndoe@synergysky.com",
    "SchedulingTemplate": 2,
    "ActivityCode": "SALES001",
    "BillingCode": "SALESBILL001",
    "ReservationOnly": false,
    "Subject": "Weekly sales meeting",
    "Description": "Go through recent sales activity and prospects",
    "StartTime": "2017-06-23T09:00:00",
    "EndTime": "2017-06-23T10:00:00",
    "RecurrenceType": "1",
    "RecurrenceEndDate": "2018-06-23",
    "RecurrenceIntervalMetric": 2,
    "RecurrenceIntervalInfo": "",
    "MeetingEndEmailRequired": true,
    "MeetingIsExtendable": true,
    "VMRType": 1,
    "VMRType": "Dynamic",
    "UriWithDomain": "acch.5865@alpha.syco.no",
    "UriWithDomain2": "accg.5865@alpha.syco.no",
    "CallIdHost": 3775,
    "CallIdGuest": 3569,
    "UriWithoutDomain": "5865",
    "HostPin": 1234,
    "GuestPin": 2345,
    "MeetingEntities": [
      {
        "Id": "9f3875d2-521f-45ec-b101-7fd0bb26dcfa",
        "MeetingId": "9e60d322-3b06-44af-bdc5-8054f427bf31",

```

```

    "EntityId": "a033c157-f23a-4f0d-98de-f34957ba4755",
    "EntityType": "User",
    "EmailAddress": "johndoe@synergysky.com",
    "Description": "John Doe",
    "IsOrganiser": true
  },
  {
    "Id": "9cb92e28-6442-44b7-ab47-027de4176499",
    "MeetingId": "9ddc08a4-19e6-46ac-b3a7-a3b9fa790796",
    "EntityId": "00000000-0000-0000-0000-000000000000",
    "EntityType": "Guest",
    "EmailAddress": "bill.gates@hotmail.com",
    "Description": "Bill Gates",
    "IsOrganiser": false
  },
  {
    "Id": "c44d2354-fc72-4f6b-b47f-9843cdd615da",
    "MeetingId": "e49d63b7-9963-4b4c-9d3b-a0b3a19a6c18",
    "EntityId": "cb51e44b-6794-4aac-b529-497c899483ec",
    "EntityType": "Meeting Room",
    "EmailAddress": "boardroom@synergysky.com",
    "Description": "Boardroom",
    "IsOrganiser": false
  }
]
}

```

```

}

```

5.7 Meeting Update Result

This is the response after a request has been made to update a meeting.

5.7.1 Reference

Field	Type
UpdateResult	integer
UpdateMessage	string
Meeting	Meeting

5.7.2 Example

```

{
  "UpdateResult": 1,
  "UpdateMessage": "",
  "Meeting": {
    "Id": "2bb0f812-ce70-4205-babb-bde773afab1b",
    "CreatedBy": "cedb126f-7789-474b-b63b-7cc502090553",
    "CreatedByEmailAddress": "johndoe@synergysky.com",
    "LastUpdatedBy": "6297c571-dc0a-4ec3-93a6-050670532a3a",
    "LastUpdatedByEmailAddress": "johndoe@synergysky.com",
    "DeletedBy": "e96554e1-0e40-4c10-afcc-b0795b1302cc",
    "DeletedByEmailAddress": "johndoe@synergysky.com",
    "OrganiserId": "b0902ca5-24b2-4282-b880-7289d975e9bc",
    "OrganiserDescription": "John Doe",
    "OrganiserEmailAddress": "johndoe@synergysky.com",
    "SchedulingTemplateId": 2,
    "ActivityCode": "SALES001",
    "BillingCode": "SALESBILL001",
    "ReservationOnly": false,
    "Subject": "Weekly sales meeting",
    "Description": "Go through recent sales activity and prospects",
    "StartTime": "2017-06-23T09:00:00",
    "EndTime": "2017-06-23T10:00:00",
    "RecurrenceTypeId": "1",
    "RecurrenceEndDate": "2018-06-23",
    "RecurrenceIntervalMetric": 2,
    "RecurrenceIntervalInfo": "",
    "MeetingEndEmailRequired": true,
    "MeetingIsExtendable": true,
  }
}

```

```

"VMRTypeId": 1,
"VMRType": "Dynamic",
"UriWithDomain": "acch.5865@alpha.syco.no",
"UriWithDomain2": "accg.5865@alpha.syco.no",
"CallIdHost": 3775,
"CallIdGuest": 3569,
"UriWithoutDomain": "5865",
"HostPin": 1234,
"GuestPin": 2345,
"MeetingEntities": [
  {
    "Id": "92b36df2-a84c-448d-919d-fb3ba564031e",
    "MeetingId": "24b97b2b-8885-460f-964e-99a504866cd7",
    "EntityId": "92f51f32-a687-4173-a06a-83489c3d50a7",
    "EntityTypeId": 1,
    "EntityType": "User",
    "EmailAddress": "johndoe@synergysky.com",
    "Description": "John Doe",
    "IsOrganiser": true
  },
  {
    "Id": "8f8aa972-962c-4560-af25-6ae86db2e66a",
    "MeetingId": "5a3a1392-0186-4089-86dd-3defe080d0fd",
    "EntityId": "00000000-0000-0000-0000-000000000000",
    "EntityTypeId": 0,
    "EntityType": "Guest",
    "EmailAddress": "bill.gates@hotmail.com",
    "Description": "Bill Gates",
    "IsOrganiser": false
  },
  {
    "Id": "a35eb1d5-d822-473d-8b05-41564ff1f565",
    "MeetingId": "7cfc78fa-963a-4d8a-bc5f-265d8ce314e8",
    "EntityId": "806300b0-cc38-42a9-b0be-823ed7c8e8fe",
    "EntityTypeId": 2,
    "EntityType": "Meeting Room",
    "EmailAddress": "boardroom@synergysky.com",
    "Description": "Boardroom",
    "IsOrganiser": false
  }
]
}

```

```

}
```

5.8 Meeting Delete Result

This is the response after a request has been made to delete a meeting.

5.8.1 Reference

Field	Type
DeleteResult	integer
DeleteMessage	string

5.8.2 Example

```

{
  "DeleteResult": 1,
  "DeleteMessage": ""
}

```

6 Accessing the API

Calls to the API are grouped into logical areas of functionality. This sections describes those groups and the methods available in each.

6.1 Entity Manager

Service path: [/entitymanager/find](#)

This method is used to identify an entity by it's email address.

HTTP Method accepted: [GET]

6.1.1 Request

Parameter name	Parameter type	Description
email	string	

6.1.2 Response

Name	Type	Description
entity id	UUID	

Service path: [/entitymanager/search](#)

This method is used to search for entities.

HTTP Method accepted: [GET]

6.1.3 Request

Parameter name	Parameter type	Description
containerid	UUID	
entitytypeid	int	
filter	string	

6.1.4 Response

Name	Type	Description
entities	List<Entity>	

6.2 Entity

Service path: [/entity/UUID](#)

This method is used to get details of a specific entity.

HTTP Method accepted: [GET]

6.2.1 Request

Parameter name	Parameter type	Description
UUID	UUID	

6.2.2 Response

Name	Type	Description
entity	Entity	

Service path: [/entity/UUID/meetings](#)

This method is used to get the meetings of an entity.

HTTP Method accepted: [GET]

6.2.3 Request

Parameter name	Parameter type	Description
UUID	UUID	
from	DateTime	
to	DateTime	
filter	string	

6.2.4 Response

Name	Type	Description
meetings	List<Meeting>	

Service path: [/entity/UUID/meetingsforentityandcontainer](#)

This method is used to get the meetings of an entity and those for entities in a specified container.

HTTP Method accepted: [GET]

6.2.5 Request

Parameter name	Parameter type	Description
UUID	UUID	
containerid	UUID	
from	DateTime	
to	DateTime	
filter	string	

6.2.6 Response

Name	Type	Description
meetings	List<Meeting>	

Service path: [/entity/UUID/appointments](#)

This method is used to get the appointments of an entity. It only applies to entities of type Meeting Room.

HTTP Method accepted: [GET]

6.2.7 Request

Parameter name	Parameter type	Description
UUID	UUID	
from	DateTime	
to	DateTime	
filter	string	

6.2.8 Response

Name	Type	Description
appointments	List<Appointment>	

Service path: [/entity/UUID/schedulingtemplate](#)

This gets you the scheduling template that applies to this entity.

HTTP Method accepted: [GET]

6.2.9 Request

Parameter name	Parameter type	Description
UUID	UUID	

6.2.10 Response

Name	Type	Description
template	SchedulingTemplate	

6.3 Meeting

6.3.1 GET

Service path: [/meeting/UUID](#)

This method is used to get the details of a meeting.

HTTP Method accepted: [GET]

6.3.1.1 Request

Parameter name	Parameter type	Description
UUID	UUID	

6.3.1.2 Response

Name	Type	Description
meeting	Meeting	

6.3.2 PUT

Service path: [/meeting/UUID](#)

This method is used to update the details of a meeting.

HTTP Method accepted: [PUT]

6.3.2.1 Request

Parameter name	Parameter type	Description
UUID	UUID	
meeting	Meeting	This must be passed in the body of the request

6.3.2.2 Response

Name	Type	Description
result	UpdateMeetingResult	

6.3.3 DELETE

Service path: [/meeting/UUID](#)

This method is used to delete a meeting.

HTTP Method accepted: [DELETE]

6.3.3.1 Request

Parameter name	Parameter type	Description
UUID	UUID	
meeting	Meeting	This must be passed in the body of the request

6.3.3.2 Response

Name	Type	Description
result	DeleteMeetingResult	

Service path: [/meeting](#)

This method is used to create a meeting.

HTTP Method accepted: [POST]

6.3.3.3 Request

Parameter name	Parameter type	Description
meeting	Meeting	This must be passed in the body of the request

6.3.3.4 Response

Name	Type	Description
result	CreateMeetingResult	

6.4 Types

Included in the API are some examples of the types used to give easy access to the format etc

```
meeting_portal_api.com/types/entity
meeting_portal_api.com/types/meeting
meeting_portal_api.com/types/meetingentity
meeting_portal_api.com/types/schedulingtemplate
meeting_portal_api.com/types/appointment
meeting_portal_api.com/types/meetingcreatorresult
meeting_portal_api.com/types/meetingupdaterresult
meeting_portal_api.com/types/meetingdeleterresult
```

7 References

1. ↑ <http://en.wikipedia.org/wiki/REST>
2. ↑ [http://en.wikipedia.org/wiki/Basic_access_authentication\]](http://en.wikipedia.org/wiki/Basic_access_authentication)
3. ↑ http://en.wikipedia.org/wiki/Basic_access_authentication

Categories: Internal | API