Hub API documentation

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Purpose of this document

This document is intended to help external programs or services to interoperate with an existing Movework product data (such as « WorkinTime » or « DataForm »).

This document is dedicated to external developers to let them understand how Movework Hub works and how to use it properly.

First of all, you will need a specific account to be recognized as a member of Movework hub community. If you are not a member yet, please visit www.movework.fr and send us an email or contact us by phone.

Each member of Movework hub has a free access to the public API. Each member account is associated to a given type « Premium », « Gold » and « Platinium » that evolves depending on associated project (more detail on your existing account www.movework-connect.net where you should have granted access to app « Hub Manager »).

Movework « WorkinTIME» solution is a global solution (hardware + software) that track working time for employees that are working in several locations.

MoveWORK « DataFORM » solution is a global solutions to create and analyze any kind of surveys such as quality controls, customers satisfaction surveys, reports surveys on site, …

MoveWORK « CentralDESK » solution is a global solution to create and analyze any kind of scenarios, tickets, requests following any customized workflows or processes.

A common market place is cleaning companies, hostesses, security companies or facility management sectors that have employees working in external sites.

Vocabulary

Project

A *project* identify the context of an Hub use case. The couple ***developer key*** + ***project key*** is unique and identify a global context of interoperability between an external (not owned by Movework) program or service (developed and managed by the external developer) and a common client (Movework client and external developer common client).
For one developer account and one common client it could theorically exists several projects (even if in most of the time, it will exists only one project per client).
On all Hub API calls, you will have to use both ***developer key*** and ***project key***.

Customer

A *customer* is a client account that group several *activity locations*. Most of the time a *customer* is a company client of the « WorkinTIME» users.
(The related API 'customers' will be removed on next version, so this term won't be used anymore soon)

Employee

An *employee* is a person that will use « WorkinTIME» solutions. It's not supervisors that will use « WorkinTIME » data but it is the end user that will record working time.

Activity location

An *activity location* is a physical place where employee is working. An activity location could belongs to a *customer*. A *customer* could group several activity locations.

Event

An *event* is a schedule time. It could be of 3 types :

- employee attendance schedule called « intervention »,
- employee absence schedule called « absence »,
- activity location closing period schedule called « closure ».

Reporting

Reporting is global term used to indicate computed data. These data are (most of the time) related to *events* and are in read only mode.

Surveys

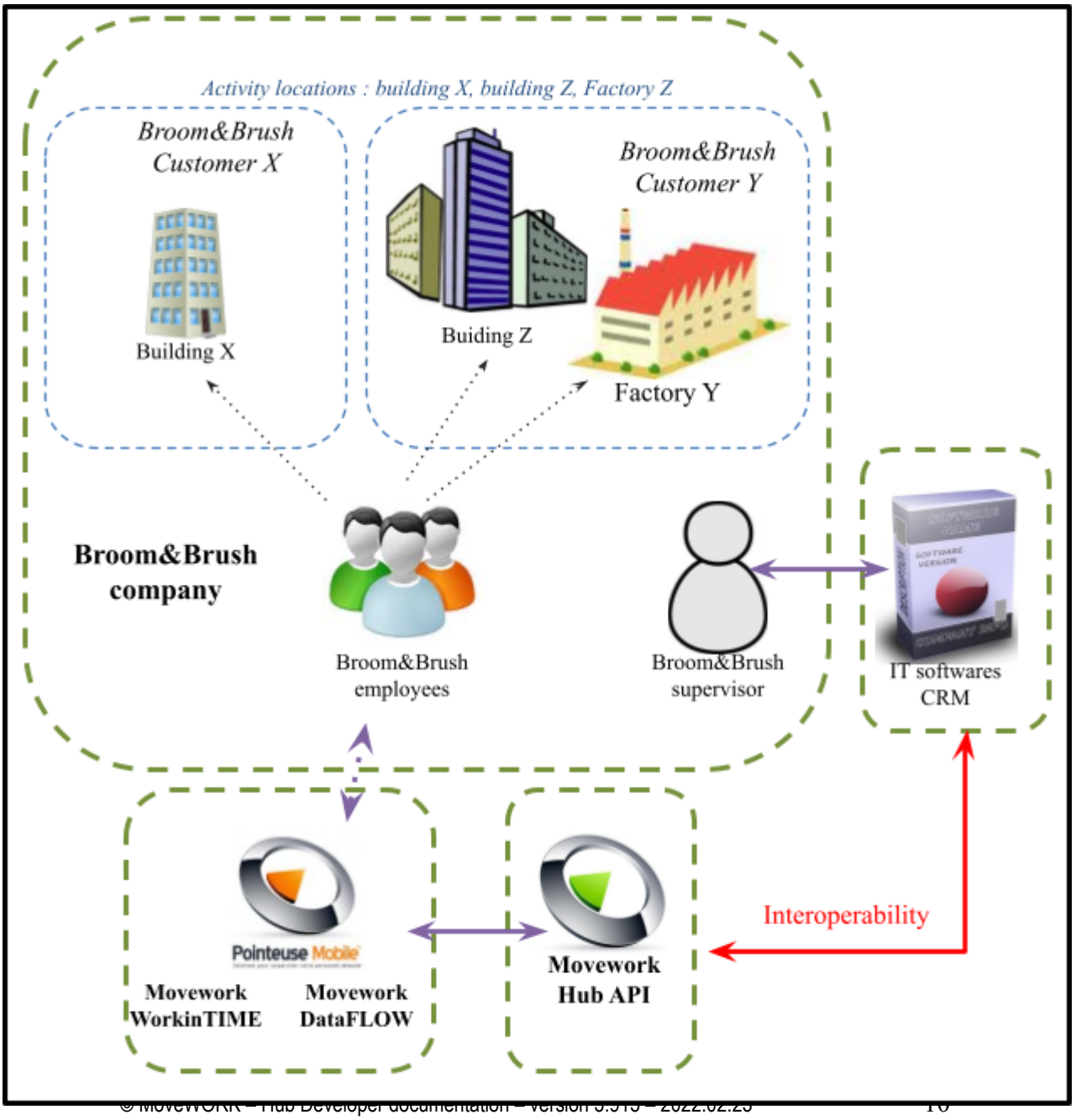
Surveys is a digital forms filled by a end user using MoveWORK hardware or software solutions (such as DataFORM, HappyOrNot buttons, android/iOS apps,…).

Scenarios

Scenarios is a digital request filled by a end user using MoveWORK hardware or software solutions (such as CentralDESK, android/iOS apps,…). It is defined by several steps to complete following a process/workflow customized.

Standard use case example

A common « fake » example to understand differents vocabulary terms used below is an external IT company called « IT softwares company » that has a client called « Broom&Brush ».
« IT sotwares company » has developed a specific CRM software to manage global accounting of this company.
« Broom&Brush » is using Movework « WorkinTIME » solution and would like to manage their ***employees*** from « IT softwares company » CRM only (instead of creating employees on both CRM and Movework back office ».
« IT softwares company » will develop a specific library (or will use one of Movework Hub integration example) to integrate Movework Hub API and let their end users (« broom&Brush ») be plenty satisfied.
« IT softwares company » is registered as a Movework hub member and has created a ***project*** for « Broom&Brush » client.
« Broom&Brush » ***employees*** are working in several location (***activity locations***) for several clients (***customers***). These employees interventions are ***events*** planned and their time could be tracked using several ***reporting*** computed data.



What is the Hub ? (quick overview)

The « Hub » stands for Movework solutions public API.
It's a Rest webservice (not in strict term) that allow external software to use MoveWORK solutions suchs as « WorkinTIME » or « DataFORM » recorded data in both read and write mode.

Its aim is to let common client (Movework client and external software client) use a single interface to manage their employees and group several data.
It also allows external software to use computed Movework « WorkinTIME » (or «data in other contexts.
The Hub will avoid synchronization process (import/export) and let several sotfwares communicate with Movework « WorkinTIME » solution.

Hub global conventions

This part is intented to describe all global conventions used in every Hub call.

Global HTTP/HTTPS syntax

To fit the need of every developers, all hub API could be called using HTTP or HTTPS using HTTP GET or HTTP POST methods.
For simplicity, this document will describe every API using HTTP GET but feel free to use the protocol that fit your needs.

About HTTPS and security

If you choose to use Hub with HTTPS, you might be afraid about HTTP GET uri parameters transmissions. HTTPS protocol (check related RFC) is encrypting HTTP Response but it is also encrypting uri parameters (both GET and POST). So even if a malicious user is trying to steal your http transaction (between your server and ours), he will only crawl encrypted data over HTTPS protocol.

Our SSL certificate is a wildcard *.movework.net which is always valid. Feel free to check it.

Base URL for Hub API call will be

- **http://api.hub.movework.net/** for HTTP
- **https://apihubssl.movework.net/** for HTTPS

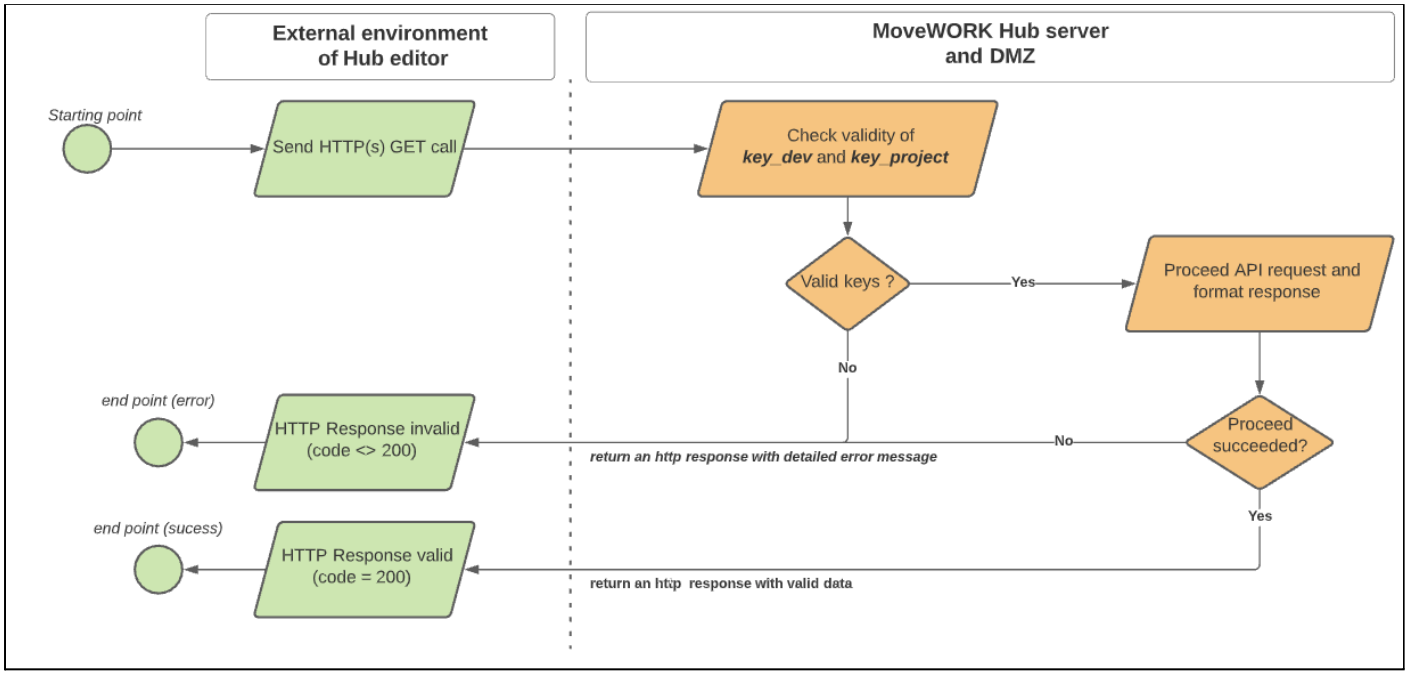
Caution : If your hub credentials have oAuthActivated

If your hub credentials (key_dev/key_project) have oAuthActivated=1, it means that you **have to** use oAuth as an extra security layer.
It also means you cannot use HTTP anymore and that you also **have to** use HTTP**S**.
Caution : if you use HTTP by error, your client_secret will be considered as exposed and not secure anymore and we will automatically revoke all your valid access_token and modify your client_secret. It is not a mistake you want to experiment as it will require MoveWORK team intervention to give you your new client_secret.
For more information about how to use oAuth in the Hub Api context, please refer to oAuth API part of this document.

Standard HTTP(S) flowchart and syntax

For all valid call, Movework Hub will always return an HTTP Header that will contain an HTTP Content Type describing the format used to display returned data (see format parameter for more details).

HTTP_CODE returned will be 200 for a valid call received. If there are error during the Movework Hub process or if syntax error are detected, HTTP_CODE won't be 200 (see error part below for more details).

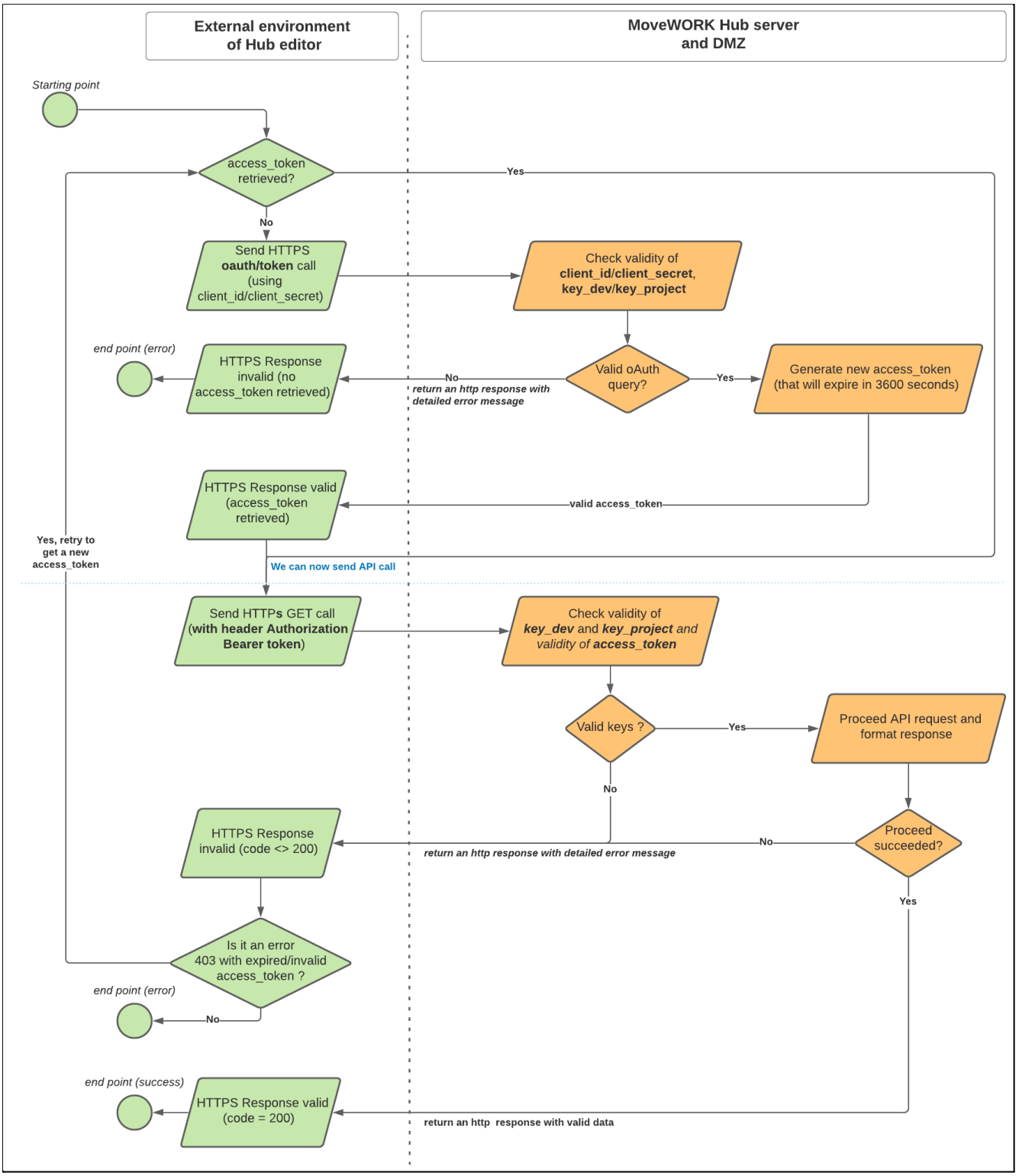


Global syntax will always be :
http://api.hub.movework.net/
KEY_DEV/KEY_PROJECT/API_NAME/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

For HTTPS it will be :
https://apihubssl.movework.net/
KEY_DEV/KEY_PROJECT/API_NAME/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

HTTPS flowchart when oAuth is activated

When oAuth is activated, HTTPS will be a **must use** for security reason :
https://apihubssl.movework.net/
KEY_DEV/KEY_PROJECT/API_NAME/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT



For more information about how to use oAuth in the Hub Api context, please refer to oAuth API part of this document.

KEY_DEV :

key_dev is a mandatory parameter that identify you as a Movework Hub member. There is one **key_dev** per developer account.

KEY_PROJECT :

key_project is a mandatory parameter that identify the project that you are trying to reach. The couple **key_dev** and **key_project** will identify the client and the external developer in charge of the integration.

API_NAME :

API_NAME is a mandatory parameter that identify the name of the API to use. For example « employees » is the name of the API that will let you manage employees.

METHOD_NAME:

METHOD_NAME is the method name related to the **API_NAME**. It's not a mandatory parameter.

QUERY_STRING:

QUERY_STRING is the part of your HTTP Url that depends on API Method used. It is specific to each API method (check related API documentation for more details).
QUERY_STRING (if used) are URL parameters such as ***?param1=val1&param2=val2***

auto optional url parameter

auto is an optional query string parameter that could be used in all ***update*** methods (for any API that has an update method).
Allowed auto values are :

0: It's the default value indicating that update has to match an existing row. If it's not the case an error 404 will be thrown.

1: If auto is 1, it's indicating that if ***update*** doesn't match any existing row, API call will act as if you called ***create***. Id est, row will be created instead of throwing error 404. We recommand to not use this shortcut because conceptually it's not respecting the separation of concerns but this shortcut could help those of you who don't care this conceptual rule (again, if you could, avoid this ugly shortcut).

format optional url parameter

format is an optional query string parameter that will force the HTTP Response format.
By default Movework Hub will always reply using **JSON** format but you could specify other formats to fit your needs.

Allowed formats are :

JSON

This is the default format used if you don't specify « ?format » query string parameter.
If you are using PHP, you can unserialize encoded json string using ***json_decode()*** PHP method.
The HTTP Response returned by Movework Hub after a valid call will use an HTTP Content Type '***application/json***'.

CSV

This is the format using UTF-8 characters and « ; » columns splitter. Line splitter is « \r\n ».
The first line will contains the columns name headers.
HTTP Response returned by Movework Hub after a valid call will use an HTTP Content Type '***text/plain***'.

SERIALIZE

This is the format obtained after serialization of data using PHP ***serialize()*** method. It could be unserialized using unserialize() PHP method or equivalent method for other languages (ask google for your specific case).
HTTP Response returned by Movework Hub after a valid call will use an HTTP Content Type '***text/plain***'.

HTML

This is the format using a simple <table> HTML element to display returned data. It doesn't include any <html><body> elements. It's only partial HTML to let you encapsulate it as you want.
HTTP Response returned by Movework Hub after a valid call will use an HTTP Content Type '***text/html***'.

XML

This is the format using XML format. Returned data are structured using a root node using the API_NAME in plural.
If there is multiple rows returned, each row will use the name API_NAME in singular.
Each row will then contains one sub node by data entity returned.
HTTP Response returned by Movework Hub after a valid call will use an HTTP Content Type '***application/xml***'.

Error handling

For all valid call, Movework Hub will always return an HTTP_Code 200.
If there are error during the Movework Hub process or if syntax error are detected, HTTP_CODE won't be 200.
You could detect error checking if HTTP_Code is not equals to 200. You could also detect error if returned string contains '**errcode'**.
In case of error, the string returned will be formated using '?format' parameter requested (or by default JSON format). It always has 2 parameters : errcode and message.

errcode

errcode will have the same value as HTTP_Code returned in HTTP Header response. It will be one of this integer :

errcode 400

Error 400 indicates an HTTP Request error. It is an error that is most of the time due to a syntax error (most of the time it's simply that you forgot to mention key_dev and key_project in your URL or that you use a wrong **API_NAME**.
Check the ***message*** parameter displayed to debug your source code.

errcode 403

Error 403 indicates an HTTP forbiden request. The sent HTTP Request has a valid syntax but you are not allowed to proceed it. Most of the time it's an access issue with your ***key_dev***, ***key_project*** couple keys.
Check the ***message*** parameter displayed and if it's not helping you, look at your Hub account page.

errcode 404

Error 404 indicates an HTTP request that use unknown parameters. Most of the time it's a call that use a mandatory field value that is unknown in database (example : calling employees/view for a keyemployee employee unknown).
Check the ***message*** parameter displayed and if it's not helping you, look at your Hub account page.

errcode 500

Error 500 indicates an internal error occured Movework Hub side. It is supposed to never happened but it could. If you detect this error and if it persists, please contact Movework team as soon as possible. Each time an Error 500 is returned, Movework Hub technical team will receive an alert and will treat it as a critical information (to fix it asap).

errcode 503

Error 503 indicates an interal error occured Movework Hub side. It's a temporarly error that is supposed to never happened but we all knows that hosting providers are never up 100% of the time. This Error 503 is used to manage the 0,001% of down time (dead of database server that is restarting, timeout occured during HTTP call, dead of apache server that is restarting,…).

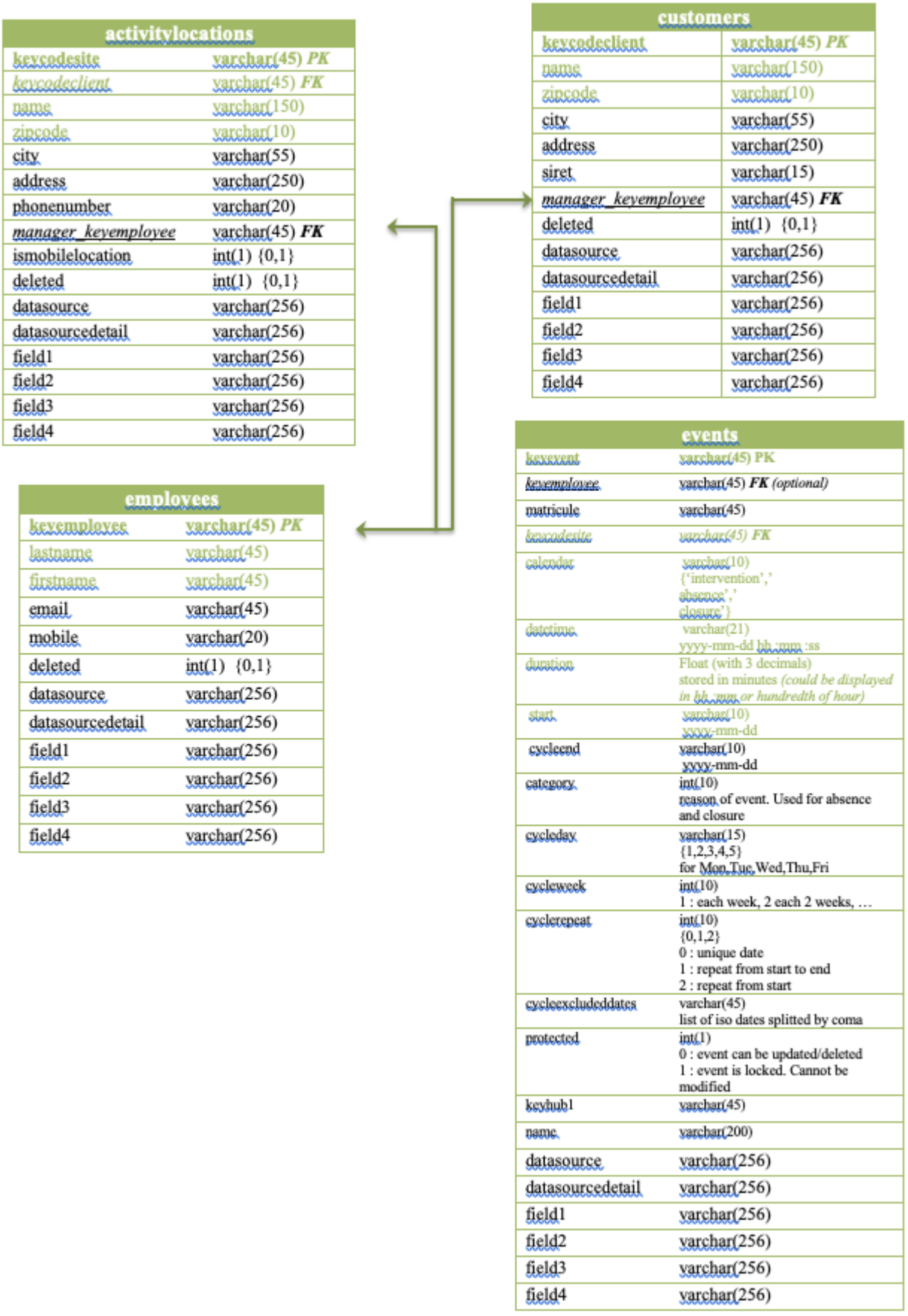
message

To help you understand why an error was returned by Movework Hub, the parameter ***message*** will return a developer friendly message written in english that will describe the error. It could be very handy to debug your application if you have 40* error (that indicates an error your side).

Data structure

To illustrate Movework data structure that are visible using Movewok Hub API, you can see a database schema below.

- Colum 1 describe table attribute name.
- Colum 2 describe attribute type and length limitation (take care of length limitation when creating or updating data. It could cause and error 400 if you reach length limit).
- PK stands for primary key.
- FK stands for foreign key.
- Row in green are mandatory fields.



activitylocations	
keycodesite	varchar(45) *PK*
keycodeclient	varchar(45) *FK*
name	varchar(150)
zipcode	varchar(10)
city	varchar(55)
address	varchar(250)
phonenumber	varchar(20)
manager_keyemployee	varchar(45) ***FK***
ismobilelocation	int(1) {0,1}
deleted	int(1) {0,1}
datasource	varchar(256)
datasourcedetail	varchar(256)
field1	varchar(256)
field2	varchar(256)
field3	varchar(256)
field4	varchar(256)

customers	
keycodeclient	varchar(45) *PK*
name	varchar(150)
zipcode	varchar(10)
city	varchar(55)
address	varchar(250)
siret	varchar(15)
manager_keyemployee	varchar(45) ***FK***
deleted	int(1) {0,1}
datasource	varchar(256)
datasourcedetail	varchar(256)
field1	varchar(256)
field2	varchar(256)
field3	varchar(256)
field4	varchar(256)

employees	
keyemployee	varchar(45) *PK*
lastname	varchar(45)
firstname	varchar(45)
email	varchar(45)
mobile	varchar(20)
deleted	int(1) {0,1}
datasource	varchar(256)
datasourcedetail	varchar(256)
field1	varchar(256)
field2	varchar(256)
field3	varchar(256)
field4	varchar(256)

events	
keyevent	varchar(45) PK
keyemployee	varchar(45) ***FK*** *(optional)*
matricule	varchar(45)
keycodesite	*varchar(45) FK*
calendar	varchar(10) {'intervention','absence','closure'}
datetime	varchar(21) yyyy-mm-dd hh:mm:ss
duration	Float (with 3 decimals) stored in minutes *(could be displayed in hh:mm or hundredth of hour)*
start	varchar(10) yyyy-mm-dd
cycleend	varchar(10) yyyy-mm-dd
category	int(10) reason of event. Used for absence and closure
cycleday	varchar(15) {1,2,3,4,5} for Mon,Tue,Wed,Thu,Fri
cycleweek	int(10) 1 : each week, 2 each 2 weeks, …
cyclerepeat	int(10) {0,1,2} 0 : unique date 1 : repeat from start to end 2 : repeat from start
cycleexcludeddates	varchar(45) list of iso dates splitted by coma
protected	int(1) 0 : event can be updated/deleted 1 : event is locked. Cannot be modified
keyhub1	varchar(45)
name	varchar(200)
datasource	varchar(256)
datasourcedetail	varchar(256)
field1	varchar(256)
field2	varchar(256)
field3	varchar(256)
field4	varchar(256)

Hub API features

Info API {info}

Info API will be used to retrieve global information about Hub account used.
This API is a read-only one.
This API will rarely (or never) use method query string.

Global syntax for info API will always be
http://api.hub.movework.net/
KEY_DEV/KEY_PROJECT/info/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

index (retrieve global account info)

index is the default method used in info API. This method has no parameter and is read-only.
It will show global information about Hub account :

- **key_dev** : the given key_dev sent with your HTTP_GET call
- **key_project** : the given key_project sent with your HTTP_GET call
- **mode**: the mode used by your hub account (SANDBOX or PRODUCTION)
- **agreement**: the agreement used by your hub account
- **projectname**: the project name related to the given key_project
- **editorname**: the editor name related to the given key_dev
- **hubversion** : the version of Hub API used.
- **mailnotification** : email that could be used internally by The Hub to send report email.
- **oAuthActivated**: 1/0 indicating if OAuth is activated (and has to be used. See oAuth API section on this documentation for more detail)

Particular use case if oAuth activated

If oAuthActivated=1 for your key_dev/key_project credentials, sending an API request will require an authorization bearer token (see oAuth API section on this documentation for more detail). In this case, /info/index call will return 2 additionals fields to let you know if your access_token is still valid :

- **oAuth_access_token** : your oAuth access_token (used in http header request)
- **oAuth_expires_in** : number of seconds available before your acess_token expires and will no longer be valid (after expiration, you will have to generate and use a new one from /oauth/token API call)

Syntax of **index** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/info/
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/info/index

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/info/) is :


```
{"key_dev":"KEY_DEV","key_project":"KEY_PROJECT","mode":"SANDBOX","agree
ment":"PREMIUM","projectname":"my project","editorname":"my dev
editor","hubversion":"2.3","mailnotification":"","oAuthActivated":"0"}
```


An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/info/) when oAuth is activated for your key_dev/key_project credential is :


```
{"key_dev":"KEY_DEV","key_project":"KEY_PROJECT","mode":"SANDBOX","agree
ment":"PREMIUM","projectname":"my project","editorname":"my dev
editor","hubversion":"2.3","mailnotification":"","oAuthActivated":"0","o
Auth_access_token":"XXXXXXXXXXXXX.YYYYY.ZZZZZ","oAuth_expires_in":"1204"
}
```

Oauth API {oauth}

Oauth API will be used to generate an access_token from you clientId and clientSecret.
This API is a read-only one.
This API will rarely (or never) use method query string.

Global syntax for Oauth API will always be
http://api.hub.movework.net/
KEY_DEV/KEY_PROJECT/oauth/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

token (generate an oAuth access_token)

token is the default method used in oAuth API. This method has no parameter and is read-only.
It will generate a new access_token after having checked that your given clientId and clientSecret are valid and matching given key_dev and key_project. Then it will return :

- **access_token**: the access_token to be used as a bearer token in all your future API call http header (authorization: Bearer XXX)
- **token_type**: Will be always “bearer”
- **expires_in**: number of seconds available before this access_token expired. Do not forget to regenerate a fresh one if expired
- **scope**: Will be always “hub”

As this module is intended to add an additional layer of security while using our API Hub, we have simplified the oAuth protocol, using only client_credentials grant_type and a body raw string (or as json encoded string) http request.

For security reason, this module will work ONLY in HTTP POST and HTTP**S**.

HTTP query url to use will be
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/oauth/token

You will have to specify your request parameters in request BODY as raw string like
client_id=XXX&client_secret=YY&grant_type=client_credentials or as json encoded string like
“client_id”:”XXX”,”client_secret”:”YY”,”grant_type”:”client_credentials”}

The HTTP request body to fill will be :

- **client_id** : your unique client ID
- **client_secret**: your unique client Secret (please never share it, ever !)
- **grant_type**: it has to be “client_credentials”.

“Scope” oAuth parameter is useless in our API, so you can skip this one.

Do not forget that HTTP **POST** is mandatory via HTTP**S**.
If you call this API using HTTP and not HTTPS, we will automatically change your **client_secret** as we will consider it has been exposed on the web and that this “secret” is not safe anymore. Caution with this mistake as it will revoke your credentials !

Access_token can be reused as often as you want before it expires (now+expires_in). Please try to not generate a new access_token for each new API call. We have put a limit between two calls to oauth/token to 5seconds which means you will receive an error 400 if you try to flood us. It will also help you avoid run curl calls inside a while(true).

An example of HTTP Response returned by Movework Hub (when you call https://apihubssl.movework.net/KEY_DEV/KEY_PROJECT/oauth/token) is :


```
{"access_token":"eyJhbGciOiJSUzI1NiIsImtpZCI6IkFUMjAxODA1MDkifQ.eyJybG0i
OiJjbGllbnQiLCJjZWkiOiI5NmM1MTkyNCIsInNjb3BlIjoiZnI6c2lsdmE6YWxsIiwiaXNz
IjoiaHR0cHM6XC9cL21hYW0tc3RnLmF4YS5jb21cL21hYW1cL3YyIiwiZXhwIjoxNjExNTY2
NjQxLCJpYXQiOjE2MTE1NjMwNDEsImp0aSI6ImQ1MjhiNmJjLTk2YWMtNDA3OC1hZDFmLTc2
ZDdlOTUyMTMzYSIsImNsaWVudF9pZCI6Imw3MzhjMDNhYTUxZDRjNDc5YWFiYmY1N2I0Mzc4
MmY0YWEifQ.arrnW2gSIPTJvOc9ar71rmZ7vReWGIBb7po3Vtx6dLQ706BjLnkNTSnMD2qcG
-TeJhtg_ZprwYpuKD8AzXkUX5M3uQc_FvDjQg7kTsIwfQ-OXoOOVylDiDGW6WwIWAVWf77GJ
VL5s_hq0yN073r5QVrSlr5lbJiRK002j6gbyJStkP9XbEY4moiwT-kHah7nsJcakglNbh0Fs
l7Jjx5L4FzGzSvK8-1a2uabmZpRZ1Ngj1-PDjD1XDeuwhfhrgBnIV09nza0nVeQF5sl41ND0
Buq8lVJ2rS2QoQBP-xELA7U8qKrk-RRYG8tvoDGJTop8iJNS6g-1LC-nWT5ufwOAA","expi
res_in":"3600","token_type":"bearer","scope":"hub"}
```


An example of failed HTTP Response returned by Movework Hub (when you call https://apihubssl.movework.net/KEY_DEV/KEY_PROJECT/oauth/token) with invalid credential or not matching client_id/client_secret with your KEY_DEV/KEY_PROJECT will be :

```
{"errorCode":400,"message":"given credentials are invalid. Do not forget
that we are expecting data to be sent in request body as raw string
(param1=val1&param2=val2…) or as json encoded string"}
```

An example of failed HTTP Response returned by Movework Hub (when you call https://apihubssl.movework.net/KEY_DEV/KEY_PROJECT/oauth/token) with valid credential that are matching client_id/client_secret with your KEY_DEV/KEY_PROJECT but using HTTP instead of HTTP**S** :

```
{"errorCode":400,"message":"given credentials were valid but you exposed
your client_secret to the internet using an insecure call. HTTPS is
required. Your client_secret has been changed for security reason.
Please ask your new client_secret to MoveWORK team."}
```

Employee API {employees}

Employee API will be used to manage employee. You will be able to list all employees (related to the given key_project), access to the detailed data of a specific employee, and create/update or delete an employee.
Global syntax for employee API will always be
http://api.hub.movework.net/
KEY_DEV/KEY_PROJECT/employees/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

An employee is defined by several attributes :

- **keyemployee** : [mandatory] Unique ID that identify an employee
- **firstname** : [not mandatory, can be empty] First name of an employee
- **lastname** : [mandatory] Last name of an employee
- **email** : [not mandatory, can be empty] Email of an employee
- **mobile**: [not mandatory, can be empty] Mobile phone number of an employee
- **address** : [not mandatory, can be empty] Address of an employee (for his postal address)
- **zipcode**: [not mandatory, can be empty] zipcode of an employee (for his postal address)
- **city** : [not mandatory, can be empty] city of an employee (for his postal address)
- **deleted**: [not mandatory, can be empty] Boolean (1 for TRUE, 0 for FALSE) that indicate if employee is active (0) or deleted (1).
- **Field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Non compliance from Hub 2.3 :

Caution, if you was using Hub2.3 version of API employees, you will have to replace *keymatricule* parameter by *keyemployee*. *keyunification* parameter was removed.

Changelogs between Hub2.3 and Hub 3.x:

In Hub 3.x, 4 new optional fields can be used : field1,field2,field3,field4.

Particular use case since August 2018 and RGPD :

Particular use case regarding RGPD data protection. Every piece of data is initially owned and controlled by the Hub editor through the API Hub calls. The end user is not allowed to modified these data on MoveWORK web pages (such as movework connect). But on some particular use cases, some records could be marked as « protected » outside of Hub editor scope.
In these cases, the API Hub will show the record with every column values filled with *****RBPD PROTECTION***,** meaning that data are owned and controlled by the end user movework side. Don't be afraid, in these cases you will receive http response 200 as if create/update or any other calls will succeeded even if in reality, we will not proceed it. We do not return failure neither 403 in this case to avoid regression on existing Hub integration.

index (list all employees)

index is the default method used in employee API. This method has an optional query string parameter « ***showall*** ».
By default ***index*** method will return the list of all active employees. (showall=0)
If you want to list all employees (active ones and deleted ones), you will have to use ***showall*** parameter with value 1.

Syntax of **index** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/index

If you want to list all employees (including deleted ones), use this call :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/?showall=1
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/index/?showall=0

Allowed values for parameter showall are
0 : only active employees will be displayed (it's the default parameter value.
1 : active and deleted employees will be displayed.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/) is :


```
[{"keyemployee":"25165","firstname":"John","lastname":"Doe","email":"j.doe@mydomain.com","mobile":"0102030405","deleted":"0"},{"keyemployee":"25573","firstname":"Jimmy","lastname":"John","email":"","mobile":"","deleted":"0"}]
```

create (add a new employee)

create is the method that will let you create a new employee.
This method has several query string parameters.
Mandatory parameters are ***keyemployee*** and ***lastname***.
Optional query string parameters are ***firstname***, ***email*** and ***mobile***.
keyemployee value has to be unique, that's why this value has to be unknown in database. If you try to create an employee with an existing keyemployee (duplicated keyemployee) an error 400 will be returned.

After a successfull call, Movework Hub will return the detail of created employee (same data as if you call **view** method).
When creating an employee, parameter ***deleted*** has not to be specified and will be created with value 0 (active employee)

Syntax of **create** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/create/?keyemployee=EMPLOYEE_KEYEMPLOYEE&firstname=EMPLOYEE_FIRST_NAME&lastname=EMPLOYEE_LAST_NAME&email=EMPLOYEE_EMAIL&mobile=EMPLOYEE_MOBILE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/create/?keyemployee=MyKeyEmp&firstname=Emile&lastname=Zola&email=e.zola@jaccuse.fr)

```
{"keyemployee":"myMatricule","firstname":"Emile","lastname":"Zola","email":"e.zola@jaccuse.fr","mobile":"","deleted":"0"}
```

If you send previous call twice, the second call will fails returning a 400 error because keyemployee is already used.

```
{"errorCode":400,"message":"keyemployee is already in use for an existing employee. You cannot create multiple employee with the same keyemployee."}
```

view (view detail for a specific employee)

view is the method that will let you see details of a specific employee.
This method has one mandatory query string parameter **keyemployee**
Value of this parameter has to be an existing keyemployee. If it's not the case, a 404 error will be returned.

Syntax of **view** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/view/?keyemployee=EMPLOYEE_KEYEMPLOYEE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/view/?keyemployee=25165)

```
{"keyemployee":"25165","firstname":"John","lastname":"Doe","email":"j.doe@mydomain.com","mobile":"0102030405","deleted":"0"}
```

If you try to call **view** method for an unknown keyemployee, 404 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/view/? keyemployee =myUnknownKeyEmp) :
{"keyemployee":"25165","firstname":"John","lastname":"Doe","email":"j.doe@mydomain.com","mobile":"0102030405","deleted":"0"}

```
{"errorCode":404,"message":"Trying to proceed an action on an employee that does not exist in the system. Given keyemployee is unknown"}
```

update (modify single employee data)

update is the method that will let you modify an existing employee.
This method has several query string parameters.
Mandatory parameter is ***keyemployee.***
Optional query string parameters are ***firstname***, ***lastname***, ***email***, **mobile** and ***deleted***.
keyemployee value has to match an existing keyemployee employee. If it's not the case, an error 400 will be returned.
All employee parameters not mentionned in your call won't be modifed.

After a successfull call, Movework Hub will return the detail of modified employee (same data as if you call **view** method).

Syntax of **update** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/update/?keyemployee=EMPLOYEE_KEYEMPLOYEE&firstname=EMPLOYEE_MODIFIED_FIRST_NAME&lastname=EMPLOYEE_MODIFIED_LAST_NAME&email=EMPLOYEE_MODIFIED_EMAIL&mobile=EMPLOYEE_MODIFIED_MOBILE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/update/?keyemployee=25165&firstname=Emile&lastname=Zola&email=e.zola@jaccuse.fr)

```
{"keyemployee":"25165","firstname":"Emile","lastname":"Eola","email":"e.zola@jaccuse.fr","mobile":"0102030405","deleted":"0"}
```

If you try to run **update** method using an unknown keyemployee, a 404 error will be returned.

```
{"errorCode":404,"message":"Trying to proceed an action on an employee that does not exist in the system. Given keyemployeeis unknown"}
```

A particular use case of **update** method is when you want to activate an employee that was previously deleted. If you want to do so, you will have to use **keyemployee**and **deleted** parameters (with **deleted** value 0).
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/update/?keyemployee=25165&deleted=0

delete (delete a specific employee)

delete is the method that will let you delete an employee.
This method has one mandatory query string parameter ***keyemployee***.
Value of this parameter has to be an existing keyemployee. If it's not the case, a 404 error will be returned.

Syntax of **delete** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/delete/?keyemployee=EMPLOYEE_KEYEMPLOYEE

If you prefer, you can delete an employee using **update** method using parameter ***deleted*** with value 1, but using **delete** method is pretty much simple.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/delete/?keyemployee=25165)


```
{"keyemployee":"25165","firstname":"John","lastname":"Doe","email":"j.doe@mydomain.com","mobile":"0102030405","deleted":"1"}
```


If you try to call **delete** method for an unknown keyemployee, 404 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/delete/?keyemployee=myUnknownKeyEmp) :


```
{"errorCode":404,"message":"Trying to proceed an action on an employee that does not exist in the system. Given keyemployee is unknown"}
```

creategroup (create group of employees)

creategroup is a method that will create a group of employees.
This method has several query string parameter :

- ***groupId*** (mandatory) : unique ID of the group. If matching an existing group of employees, it will be completely deleted before creating it again
- ***groupName*** (mandatory) : group name used in movework solutions. Be smart and not too long for UX purpose on web solutions
- ***keyemployee_list*** (optional) : json array listing all *keyemployee* of employee to add to this group. Each *keyemployee* must match an existing employee!
- ***field1 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field2 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field3 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field4 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Depending on the number of employees to add to the group, you could reach the maximum size of an http GET query string. Feel free to use an http POST call instead. Both GET or POST will be accepted for this API.

Syntax of **creategroup** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/creategroup/?groupId=GROUP_ID&groupName=GROUP_NAME&keyemployee_list=[EMP1, « EMP2 », « EMP3 »]&field1=FIELD_1&field2=FIELD_2&field3=FIELD_3&field4=FIELD_4

An example of HTTP Response returned by Movework Hub (when you call
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/creategroup/?groupId=myGroupId&groupName=my%20Group&keyemployees_list=["emp1","emp2","emp3"]

```
{"result":"ok","count":"3"}
```

If one of the listed keyemployee is filled with valid json but with some keyemployee unknown, a 400 http response will be returned

```
{"errorCode":400,"message":"keyemployee_list if filled, must be filled
ONLY with existing employees ! (one or several keyemployee is\/are
unknown."}
```

updategroupname (update group of employees)

updategroupname is a method that will update generic info regarding an existing group of employees.
This method has several query string parameter :

- ***groupId*** (mandatory) : unique ID of existing group.
- ***groupName*** (mandatory) : group name to potentially update
- ***field1 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field2 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

- ***field3 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field4 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Syntax of **updategroupname** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/updategroupname/?groupId=GROUP_ID&groupName=GROUP_NAME&field1=FIELD_1&field2=FIELD_2&field3=FIELD_3&field4=FIELD_4

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/updategroupname/?groupId=myGroupId&groupName=my%20NewGroup

```
{"result":"ok","count":"1"}
```

deletesinglegroup (delete group of employees)

deletesinglegroup is a method that will delete a single group of employees
This method has a unique mandatory query string parameter :

- ***groupId*** (mandatory) : unique ID of the **existing** group to delete.

Will return number of rows deleted (number of employees in this group +1).
If groupId is unknown a valid http response 200 will be returned with count=0

Syntax of **deletesinglegroup** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/deletesinglegroup/?groupId=GROUP_ID

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/deletesinglegroup/?groupId=myGroupId)

```
{"result":"ok","count":"6"}
```

viewgroup (view group of employees)

viewgroup is a method that will let you view all employees in a given group or all groups for a given employee depending on query string parameters you will filled.
This method has several query string parameter (at least one of them must be filled !) :

- ***groupId*** : unique ID of the **existing** group to view.
- ***keyemployee*** : unique ID of the **existing** employee.

If groupId or keyemployee is/are unknow, an empty valid response will be returned.

Syntax of **viewgroup** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/viewgroup/?keyemployee=KEY_EMPLOYEE&groupId=GROUP_ID

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/viewgroup/?keyemployee=emp1)


```
[{"groupId":"myGroupId","groupName":"my
group","keyemployee":"emp","name":"John
Doe","field1":null,"field2":null,"field3":null,"field4":null},{"groupId"
:"myGroupId2","groupName":"my group 2","keycodesite":"emp1","name":"John
Doe","field1":null,"field2":null,"field3":null,"field4":null}]
```


Another example : http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/viewgroup/?groupId=myGroupId)


```
[{"groupId":"myGroupId","groupName":"my
group","keyemployee":"site3","name":"John
Doe","field1":null,"field2":null,"field3":null,"field4":null},{"groupId"
:" myGroupId ","groupName":"my group","keyemployee":"site1","name":"John
Doe","field1":null,"field2":null,"field3":null,"field4":null},{"groupId"
:" myGroupId ","groupName":"my group","keyemployee":"site2","name":"John
Doe","field1":null,"field2":null,"field3":null,"field4":null}]
```

listAllGroups (list all group of employees)

listAllGroups is a method that will let you view all groups names with their creation datetime and lastupdate datetime..
This method has an empty query string

Syntax of **listAllGroups** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/listAllGroups/?keycodesite=ACTIVITYLOCATION_KEYCODESITE&groupId=GROUP_ID

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/listAllGroups)


```
[{"groupId":"myGroupId","groupName":"my
group","groupCreationDatetime":"2001-01-01
10:00:00","groupLastUpdateDatetime":"2001-01-01
10:00:00","field1":null,"field2":null,"field3":null,"field4":null},{"gro
upId":"myGroupId2","groupName":"my group
2","groupCreationDatetime":"2001-01-01
10:00:00","groupLastUpdateDatetime":"2001-01-01
10:00:00","field1":null,"field2":null,"field3":null,"field4":null}]
```

deleteallgroupsforsingleemployee(remove an employee from all groups)

deleteallgroupsforsingleemployee is a method that will delete all groups for a given employee.
This method has a unique mandatory query string parameter :

- ***keyemployee*** (mandatory) : unique ID of the **existing** employee.

Count is the number of groups where given site was removed.

Syntax of **deleteallgroupsforsingleemployee** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/deleteallgroupsforsingleemployee/?keyemployeee=KEY_EMPLOYEE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/deleteallgroupsforsingleemployee/?keyemployee=MyKeyEmployee)

```
{"result":"ok","count":"6"}
```

If employee is not in any group, a valid http response will be returned with count=0

```
{"result":"ok","count":"0"}
```

deletesingleemployeefromgroup(delete an employee from a group)

deletesingleemployeefromgroup is a method that will delete a employee from a single group.
This method has a unique mandatory query string parameter :

- ***groupId*** : unique ID of the **existing** group.
- ***keyemployee*** (mandatory) : unique ID of the **existing** employee

Syntax of **deletesingleemployeefromgroup** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/deletesingleemployeefromgroup/?keyemployee=KEY_EMPLOYEE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/deletesingleemployeefromgroup/?keyemployee=MyKeyEmployee)

```
{"result":"ok","count":"1"}
```

If employee is not in given group, a valid http response will be returned with count=0

```
{"result":"ok","count":"0"}
```

addsingleemployeetogroup(add an employee to a group)

addsingleemployeetogroup is a method that will add an employee from a single group.
This method has a unique mandatory query string parameter :

- ***groupId*** : unique ID of the **existing** group.
- ***keyemployee*** (mandatory) : unique ID of the **existing** employee.

Syntax of **addsingleemployeetogroup** method is

http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/addsingleemployeetogroup/?keyemployee=KEY_EMPLOYEE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/addsingleemployeetogroup/?keyemployee=MyKeyEmployee)

```
{"result":"ok","count":"1"}
```

If employee is already in given group, a valid http response will be returned with count=0

```
{"result":"ok","count":"0"}
```

Customer API {customers}

Customers API will be used to manage customers. You will be able to list all customers (related to the given key_project), access to the detailed data of a specific customer, and create/update or delete an existing customer.

Customer is now exclusively used to play with group of site MoveWork Connect side. The notion of « customers » is not visible anymore movework connect side.

Global syntax for customers API will always be
http://api.hub.movework.net/
KEY_DEV/KEY_PROJECT/customers/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

A customer is defined by several attributes :

- **keycodeclient** : [mandatory] Unique ID that identify a customer
- **name** : [mandatory] Customer name
- **zipcode** : [mandatory] Zipcode of the customer
- **city**: [not mandatory, can be empty] City of the customer
- **address** [not mandatory, can be empty] Address of the customer
- **siret**[not mandatory, can be empty] Siret number of the customer
- **manager_keyemployee**: [not mandatory, can be empty] If filled, it identifies the keyemployeeof the employee in charge of this customer (account manager).If filled, it has to match an existing employees.keyemployee
- **deleted**: [not mandatory, can be empty] Boolean (1 for TRUE, 0 for FALSE) that indicate if customer is active (0) or deleted (1).
- **Field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Non compliance from Hub 2.3 :

Caution, if you was using Hub2.3 version of API employees, you will have to replace manager_*keymatricule* parameter by manager_*keyemployee*.

Changelogs between Hub2.3 and Hub 3.x:

In Hub 3.x, 4 new optional fields can be used : field1,field2,field3,field4.

index (list all customers)

index is the default method used in customers API. This method has an optional query string parameter « ***showall*** ».
By default ***index*** method will return the list of all active customers. (showall=0)
If you want to list all customers (active ones and deleted ones), you will have to use ***showall*** parameter with value 1.

Syntax of **index** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/index

If you want to list all customers (including deleted ones), use this call :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/?showall=1
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/index/?showall=0

Allowed values for parameter showall are
0 : only active customers will be displayed (it's the default parameter value.
1 : active and deleted customers will be displayed.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/) is :


```
[{"keycodeclient":"757","name":"SNI Rive de
France","zipcode":"75013","city":"Paris XIII Arrdt","address":"100 -104
Avenue de
France","siret":"","manager_keyemployee":"25165","deleted":"0"},{"keycod
eclient":"826","name":"FIGA CC VILLE DU
BOIS","zipcode":"91620","city":"La Ville du Bois","address":"CENTRE CIAL
CARREFOUR LA VILLE DU
BOIS","siret":"","manager_keyemployee":"","deleted":"0"}]
```

create (add a new customer)

create is the method that will let you create a new customer.
This method has several query string parameters.
Mandatory parameters are ***keycodeclient***, ***name*** and ***zipcode***.
Optional query string parameters are ***city***, **address, siret** and ***manager_keyemployee***.
keycodeclient value has to be unique, that's why this value has to be unknown in database. If you try to create a customer with an existing keycodeclient (duplicated keycodeclient) an error 400 will be returned.
If filled, **manager_keyemployee**has to match an existing employee keyemployee. If you try to create a customer with an unknown manager_keyemployee, an error 400 wil be returned.

After a successfull call, Movework Hub will return the detail of created customer (same data as if you call **view** method).
When creating a customer, parameter ***deleted*** has not to be specified and will be created with value 0 (active customer)

Syntax of **create** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/create/?keycodeclient=CUSTOMER_KEYCODECLIENT&name=CUSTOMER_NAME&zipcode=CUSTOMER_ZIPCODE&city=CUSTOMER_CITY
&address=CUSTOMER_ADDRESS&siret=CUSTOMER_SIRET&manager_keyemployee=MANAGER_KEYEMPLOYEE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/create/?keycodeclient=myCodeC&name=My+client&zipcode=34000&city=Montpellier&address=1+rue+Jules+Ferry&manager_keyemployee=25165)


```
{"keycodeclient":"myCodeC","name":"My
client","zipcode":"34000","city":"Montpellier","address":"1 rue Jules
Ferry","siret":"","manager_keyemployee":"25165","deleted":"0"}
```


If you send previous call twice, the second call will fails returning a 400 error because keycodeclient is already used.


```
{"errorCode":400,"message":"keycodeclient is already in use for an
existing customer. You cannot create multiple customer with the same
keycodeclient."}
```

view (view detail for a specific customer)

view is the method that will let you see details of a specific customer.
This method has one mandatory query string parameter **keycodeclient**
Value of this parameter has to be an existing keycodeclient. If it's not the case, a 404 error will be returned.

Syntax of **view** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/view/?keycodeclient=CUSTOMER_KEYCODECLIENT

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/view/?keycodeclient=757)


```
{"keycodeclient":"757","name":"SNI Rive de
France","zipcode":"75013","city":"Paris XIII Arrdt","address":"100 -104
Avenue de France","siret":"","manager_keyemployee":"","deleted":"0"}
```


If you try to call **view** method for an unknown keycodeclient, 404 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/view/?keycodeclient=myUnknownKey) :


```
{"errorCode":404,"message":"Trying to proceed an action on a customer
that does not exist in the system. Given keycodeclient is unknown"}
```

update (modify single customer data)

CAUTION : This API is deprecated and will be removed with the next Hub API Version

update is the method that will let you modify an existing customer.
This method has several query string parameters.
Mandatory parameter is ***keycodeclient.***
Optional query string parameters are ***name***, ***zipcode***, ***city, address, siret*** and ***manager_keyemployee***.
Keycodeclient value has to match an existing customer keycodeclient. If it's not the case, an error 400 will be returned.
All customers parameters not mentionned in your call won't be modifed.

After a successfull call, Movework Hub will return the detail of modified customer (same data as if you call **view** method).

Syntax of **update** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/update/?keycodeclient=CUSTOMER_KEYCODECLIENT&name=CUSTOMER_NAME&zipcode=CUSTOMER_ZIPCODE&city=CUSTOMER_CITY&address=CUSTOMER_ADDRESS&siret=CUSTOMER_SIRET&manager_keyemployee=MANAGER_KEYEMPLOYEE&deleted=CUSTOMER_DELETED

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/update/?keycodeclient=757&name=my+new+name&zipcode=75000&city=Paris&address=1+rue+Eiffel&manager_keyemployee=25573&deleted=0)

```
{"keycodeclient":"757","name":"my new
name","zipcode":"75000","city":"Paris","address":"1 rue
Eiffel","siret":"","manager_keyemployee":"25573","deleted":"0"}
```

If you try to run **update** method using an unknown keycodeclient, a 404 error will be returned.

```
{"errorCode":404,"message":"Trying to proceed an action on a customer
that does not exist in the system. Given keycodeclient is unknown"}
```

A particular use case of **update** method is when you want to activate a customer that was previously deleted. If you want to do so, you will have to use **keycodeclient** and **deleted** parameters (with **deleted** value 0).
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/update/?keycodeclient=757&deleted=0

delete (delete a specific customer)

CAUTION : This API is deprecated and will be removed with the next Hub API Version

delete is the method that will let you delete a customer.
This method has one mandatory query string parameter ***keycodeclient***.
Value of this parameter has to be an existing keycodeclient. If it's not the case, a 404 error will be returned.

Syntax of **delete** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/delete/?keycodeclient=CUSTOMER_KEYCODECLIENT

If you prefer, you can delete a customer using **update** method using parameter ***deleted*** with value 1, but using **delete** method is pretty much simple.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/delete/?keycodeclient=757)


```
{"keycodeclient":"757","name":"my new
name","zipcode":"75000","city":"Paris","address":"1 rue
Eiffel","siret":"","manager_keyemployee":"25573","deleted":"1"}
```


If you try to call **delete** method for an unknown keyemployee, 404 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/delete/?keycodeclient=myUnknownKey) :


```
{"errorCode":404,"message":"Trying to proceed an action on a customer
that does not exist in the system. Given keycodeclient is unknown"}
```

Activity Location API {activitylocations}

Activity locations API will be used to manage activity locations (customer sites). You will be able to list all activity locations (related to the given key_project), access to the detailed data of a specific activity location, and create/update or delete an existing activity location.
Global syntax for activitylocations API will always be
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

An activit location is defined by several attributes :

- **keycodesite** : [mandatory] Unique ID that identify an activity location (varchar)
- **keycodeclient** : [not mandatory, can be empty] keycodeclient of the customer that manage this activity location. If filled it will automatically create a « group of sites » MoveWork Connect side. The group name will be the name of the associated customer. This concept of group is currently only used Movework Connect side.
- **name** : [mandatory] Activity location name
- **zipcode** : [mandatory if ismobilelocation !=1 explicitly] Zipcode of the Activity location
- **city**: [not mandatory, can be empty] City of the Activity location
- **address** [not mandatory, can be empty] Address of the Activity location
- **phonenumber** [not mandatory, can be empty] Main phone number of the Activity location
- **manager_keyemployee**: [not mandatory, can be empty] If filled, it identifies the keyemployeeof the employee in charge of this activity location (site manager).If filled, it has to match an existing employees.keyemployee. If filled it will automatically create a « group of sites » MoveWork Connect side. The group name will be the firstName+lastName of the associated employee. This concept of group is currently only used Movework Connect side.
- **ismobilelocation** : [not mandatory].Boolean (1 for TRUE, 0 for FALSE) that indicate if activity location is a mobile location or not. By default « 0 ». If « 1 », zipcode and address can be empty.
- **deleted**: [not mandatory, can be empty] Boolean (1 for TRUE, 0 for FALSE) that indicate if Activity location is active (0) or deleted (1).
- **Field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Non compliance from Hub 2.3 :

Caution, if you was using Hub2.3 version of API employees, you will have to replace manager_*keymatricule* parameter by manager_*keyemployee*.

Changelogs between Hub2.3 and Hub 3.x:

In Hub 3.x, 4 new optional fields can be used : field1,field2,field3,field4.

Particular use case since August 2018 and RGPD :

Particular use case regarding RGPD data protection. Every piece of data is initially owned and controlled by the Hub editor through the API Hub calls. The end user is not allowed to modified these data on MoveWORK web pages (such as movework connect). But on some particular use cases, some records could be marked as « protected » outside of Hub editor scope.

In these cases, the API Hub will show the record with every column values filled with *****RBPD PROTECTION***,** meaning that data are owned and controlled by the end user movework side. Don't be afraid, in these cases you will receive http response 200 as if create/update or any other calls will succeeded even if in reality, we will not proceed it. We do not return failure neither 403 in this case to avoid regression on existing Hub integration.

index (list all activity locations)

index is the default method used in activitylocations API.

This method has an optional query string parameter « ***showall*** ».
By default ***index*** method will return the list of all active Activity locations. (showall=0)
If you want to list all Activity locations (active ones and deleted ones), you will have to use ***showall*** parameter with value 1.

This method has an optional query string parameter "***show_workspacesLocations***".
By default ***index*** method will return the list of all Activity locations attached to the key_project movework account.. (show_workspacesLocations=0)
If you want to list all Activity locations (including the ones shared on other movework account from movework workspaces. Which means, activitylocations not attached to your key_project), you will have to use ***show_workspacesLocations*** parameter with value 1. Remember that "child" activitylocations are only in read only mode (cannot be modified).

Syntax of **index** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/index

If you want to list all activity locations (including deleted ones), use this call :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/?showall=1
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/index/?showall=0

If you want to list all activity locations (including child workspaces ones), use this call :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/?show_workspacesLocations=1

Allowed values for parameter ***showall*** are
0 : only active activitylocations will be displayed (it's the default parameter value).
1 : active and deleted activitylocations will be displayed.

Allowed values for parameter ***show_workspacesLocations*** are
0 : only activitylocations from the key_project account will be displayed (it's the default parameter value).
1 : activitylocations from the key_project accounts AND child activitylocations shared from existing movework workspaces (attached to current key_project) will be displayed.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/) is :


```
[{"keycodesite":"23","keycodeclient":"757","name":"Carrefour
trifontaine","zipcode":"34000","city":"Montpellier","address":"2 rue
JulesFerry","manager_keyemployee":null,"deleted":"0"},{"keycodesite":"25
","keycodeclient":"826","name":"Carrefour
trifontaine","zipcode":"34000","city":"Montpellier","address":"2 rue
Jules
Ferry","manager_keyemployee":24590,"ismobilelocation":"0","deleted":"0"}
]
```

create (add a new activitylocations)

create is the method that will let you create a new activity location.
This method has several query string parameters.
Mandatory parameters are ***keycodesite***, ***name*** and ***zipcode*** (only if ismobilelocation !=1).
Optional query string parameters are ***keycodeclient, city***, **address, ismobilelocation**, ***phonenumber*** and ***manager_keyemployee***.
keycodesite value has to be unique, that's why this value has to be unknown in database. If you try to create an activitylocation with an existing keycodesite(duplicated keycodesite) an error 400 will be returned.
keycodeclient value (if filled) has to match an existing customer keycodeclient. If you try to create an activitylocation with an unknown keycodeclient, an error 400 will be returned.
If filled, **manager_keyemployee**has to match an existing employee keyemployee. If you try to create an activitylocation with an unknown manager_keyemployee, an error 400 wil be returned.

After a successfull call, Movework Hub will return the detail of created activitylocation (same data as if you call **view** method).
When creating an activitylocation, parameter ***deleted*** has not to be specified and will be created with value 0 (active customer)

Syntax of **create** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/create/?keycodesite=ACTIVITYLOCATION_KEYCODESITE&keycodeclient=ACTIVITYLOCATION_KEYCODECLIENT&name=ACTIVITYLOCATION_NAME&zipcode=ACTIVITYLOCATION_ZIPCODE&city=ACTIVITYLOCATION_CITY&address=ACTIVITYLOCATION_ADDRESS&phonenumber=ACTIVITYLOCATION_PHONENUMBER&manager_keyemployee=MANAGER_KEYEMPLOYEE&ismobilelocation=ISMOBILELOCATION

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/create/?keycodesite=203&keycodeclient=myCodeC&name=My+Site&zipcode=69000&city=Lyon&address=Parc+Tete+Or&phonenumber=0102030405&manager_keyemployee=25165)

```
{"keycodesite":"203","keycodeclient":"myCodeC","name":"My
Site","zipcode":"69000","city":"Lyon","address":"Parc Tete
Or","phonenumber":"0102030405","manager_keyemployee":"25165","ismobilelo
cation":"0","deleted":"0"}
```

If you send previous call twice, the second call will fails returning a 400 error because keycodesite is already used.

```
{"errorCode":400,"message":"keycodesite is already in use for an
existing activitylocation. You cannot create multiple activitylocations
with the same keycodesite."}
```

If you try to create an activitylocation using a non integer keycodesite, an error 400 will be returned : http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/create/?keycodesite=notIntVal&keycodeclient=myCodeC&name=My+Site&zipcode=69000&city=Lyon&address=Parc+Tete+Or&manager_keyemployee=25165)

```
{"errorCode":400,"message":"keycodesite must be an integer value"}
```

If you try to create an activitylocation using an unknown keycodeclient, an error 400 will be returned

```
{"errorCode":400,"message":"keycodeclient is unknown as a customer
keycodeclient. If filled, this parameter has to match an existing
customer keycodeclient."}
```


view (view detail for a specific activitylocations)

view is the method that will let you see details of a specific activity location.
This method has one mandatory query string parameter **keycodesite**
Value of this parameter has to be an existing keycodesite. If it's not the case, a 404 error will be returned.

This method has an optional query string parameter "***show_workspacesLocations***".
By default ***view*** method will return a single Activity location attached to the key_project movework account.. (show_workspacesLocations=0)
If you want to list a given Activity location (potentially shared on other movework account from movework workspaces. Which means, activitylocation not attached to your key_project), you will have to use ***show_workspacesLocations*** parameter with value 1. Remember that "child" activitylocations are only in read only mode (cannot be modified).

Syntax of **view** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/view/?keycodesite=ACTIVITYLOCATION_KEYCODESITE

Allowed values for parameter ***show_workspacesLocations*** are
0 : only activitylocation from the key_project account will be displayed (it's the default parameter value).
1 : activitylocation from the key_project account OR child activitylocations shared from existing movework workspaces (attached to current key_project) will be displayed.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/view/?keycodesite=23)


```
{"keycodesite":"23","keycodeclient":"757","name":"My test
site","zipcode":"34000","city":"Montpellier","address":"1 rue Jules
Ferry","phonenumber":"0102030405","manager_keyemployee":null,"ismobilelo
cation":"0","deleted":"0"}
```


If you try to call **view** method for an unknown keycodesite, 404 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ activitylocations /view/?keycodesite =999) :


```
{"errorCode":404,"message":"Trying to proceed an action on an
activitylocation that does not exist in the system. Given keycodesite is
unknown. Remember that it must be an integer value"}
```


If you try to call **view** method for not int keycodesite, 400 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ activitylocations /view/?keycodesite =notInt) :


```
{"errorCode":400,"message":"keycodesite must be an integer value"}
```

update (modify single activitylocations data)

update is the method that will let you modify an existing activity location.
This method has several query string parameters.
Mandatory parameter is ***keycodesite.***
Optional query string parameters are ***keycodeclient***, ***name***, ***zipcode***, ***city, address,*** **ismobilelocation, phonenumber** and ***manager_keyemployee***.
keycodesite value has to match an existing activity location keycodesite. If it's not the case, an error 400 will be returned.
All activity locations parameters not mentionned in your call won't be modifed.

After a successfull call, Movework Hub will return the detail of modified activity location (same data as if you call **view** method).

Syntax of **update** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/update/?keycodesite=ACTIVITYLOCATION_KEYCODESITE&keycodeclient=ACTIVITYLOCATION_KEYCODECLIENT&name=ACTIVITYLOCATION_NAME&zipcode=ACTIVITYLOCATION_ZIPCODE&city=ACTIVITYLOCATION_CITY&address=ACTIVITYLOCATION_ADDRESS&phonenumber=ACTIVITYLOCATION_PHONENUMBER&manager_keyemployee=MANAGER_KEYEMPLOYEE&ismobilelocation=ISMOBILELOCATION&deleted=ACTIVITYLOCATION_DELETED

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/update/?keycodesite=23&keycodeclient=757&name=new+Name&zipcode=75000&city=Paris&address=1+rue+Eiffel&phonenumber=0102030405&manager_keyemployee=25573&deleted=0**)**


```
{"keycodesite":"23","keycodeclient":"757","name":"new
Name","zipcode":"75000","city":"Paris","address":"1 rue
Eiffel","phonenumber":"0102030405","manager_keyemployee":"25573","ismobi
lelocation":"0","deleted":"0"}
```


If you try to run **update** method using an unknown keycodesite, a 404 error will be returned.


```
{"errorCode":404,"message":"Trying to proceed an action on an
activitylocation that does not exist in the system. Given keycodesite is
unknown. Remember that it must be an integer value"}
```


If you try to call **update** method for not int keycodesite, 400 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ activitylocations/update/?keycodesite=notInt&name=NewName) :


```
{"errorCode":400,"message":"keycodesite must be an integer value"}
```


A particular use case of **update** method is when you want to activate an activitylocation that was previously deleted. If you want to do so, you will have to use **keycodesite** and **deleted** parameters (with **deleted** value 0).
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/update/?keycodeclient=757&deleted=0

delete (delete a specific activitylocations)

delete is the method that will let you delete a activitylocation.
This method has one mandatory query string parameter ***keycodesite***.
Value of this parameter has to be an existing keycodesite. If it's not the case, a 404 error will be returned.

Syntax of **delete** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/delete/?keycodesite=ACTIVITYLOCATION_KEYCODESITE

If you prefer, you can delete an activitylocation using **update** method using parameter ***deleted*** with value 1, but using **delete** method is pretty much simple.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/delete/?keycodesite=23)


```
{"keycodesite":"23","keycodeclient":"757","name":"new
Name","zipcode":"75000","city":"Paris","address":"1 rue
Eiffel","phonenumber":"0102030405","manager_keyemployee":"25573","ismobi
lelocation":"0","deleted":"1"}
```


If you try to call **delete** method for an unknown keycodesite, 404 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/delete/?keycodesite=999) :


```
{"errorCode":404,"message":"Trying to proceed an action on an
activitylocation that does not exist in the system. Given keycodesite is
unknown. Remember that it must be an integer value"}
```

creategroup (create group of sites)

creategroup is a method that will create a group of sites.
This method has several query string parameter :

- ***groupId*** (mandatory) : unique ID of the group. If matching an existing group of site, it will be completely deleted before creating it again
- ***groupName*** (mandatory) : group name used in movework solutions. Be smart and not too long for UX purpose on web solutions
- ***keycodesite_list*** (optional) : json array listing all keycodesite of activitylocations to add to this group. Each keycodesite must match an existing activitylocation !
- ***field1 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field2 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field3 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field4 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Depending on the number of activitylocations to add to the group, you could reach the maximum size of an http GET query string. Feel free to use an http POST call instead. Both GET or POST will be accepted for this API.

Syntax of **creategroup** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/creategroup/?groupId=GROUP_ID&groupName=GROUP_NAME&keycodesite_list=[« SITE1 », « SITE2 », « SITE3 »]&field1=FIELD_1&field2=FIELD_2&field3=FIELD_3&field4=FIELD_4

An example of HTTP Response returned by Movework Hub (when you call
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/creategroup/?groupId=myGroupId&groupName=my%20Group&keycodesite_list=["site1","site2","site3"]

```
{"result":"ok","count":"3"}
```

If one of the listed keycodesite is filled with valid json but with some keycodesite unknown, a 400 http response will be returned

```
{"errorCode":400,"message":"keycodesite_list if filled, must be filled
ONLY with existing activitylocations ! (one or several keycodesite
is\/are unknown."}
```

updategroupname (update group of sites)

updategroupname is a method that will update generic info regarding an existing group of sites.
This method has several query string parameter :

- ***groupId*** (mandatory) : unique ID of existing group.
- ***groupName*** (mandatory) : group name to potentially update
- ***field1 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field2 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

- ***field3 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- ***field4 (optional) :*** Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Syntax of **updategroupname** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/updategroupname/?groupId=GROUP_ID&groupName=GROUP_NAME&field1=FIELD_1&field2=FIELD_2&field3=FIELD_3&field4=FIELD_4

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/updategroupname/?groupId=myGroupId&groupName=my%20NewGroup

```
{"result":"ok","count":"1"}
```

deletesinglegroup (delete group of sites)

deletesinglegroup is a method that will delete a single group of sites.
This method has a unique mandatory query string parameter :

- ***groupId*** (mandatory) : unique ID of the **existing** group to delete.

Will return number of rows deleted (number of sites in this group +1).
If groupId is unknown a valid http response 200 will be returned with count=0

Syntax of **deletesinglegroup** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/deletesinglegroup/?groupId=GROUP_ID

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/deletesinglegroup/?groupId=myGroupId)

```
{"result":"ok","count":"6"}
```

viewgroup (view group of sites)

viewgroup is a method that will let you view all sites in a given group or all groups for a given sites depending on query string parameters you will filled.
This method has several query string parameter (at least one of them must be filled !) :

- ***groupId*** : unique ID of the **existing** group to view.
- ***keycodesite*** : unique ID of the **existing** activity location.

If groupId or keycodesite is/are unknow, an empty valid response will be returned.

Syntax of **viewgroup** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/viewgroup/?keycodesite=ACTIVITYLOCATION_KEYCODESITE&groupId=GROUP_ID

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/viewgroup/?keycodesite=site1)


```
[{"groupId":"myGroupId","groupName":"my
group","keycodesite":"site1","name":"Balvenie
Paris","field1":null,"field2":null,"field3":null,"field4":null},{"groupI
d":"myGroupId2","groupName":"my group
2","keycodesite":"site1","name":"Balvenie
Paris","field1":null,"field2":null,"field3":null,"field4":null}]
```


Another example : http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/viewgroup/?groupId=myGroupId)


```
[{"groupId":"myGroupId","groupName":"my
group","keycodesite":"site3","name":"Balvenie
Toulouse","field1":null,"field2":null,"field3":null,"field4":null},{"gro
upId":" myGroupId ","groupName":"my
group","keycodesite":"site1","name":"Balvenie
Paris","field1":null,"field2":null,"field3":null,"field4":null},{"groupI
d":" myGroupId ","groupName":"my
group","keycodesite":"site2","name":"Balvenie
Lille","field1":null,"field2":null,"field3":null,"field4":null}]
```

listAllGroups (list all group of sites)

listAllGroups is a method that will let you view all groups names with their creation datetime and lastupdate datetime..
This method has an empty query string

Syntax of **listAllGroups** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/listAllGroups/?keycodesite=ACTIVITYLOCATION_KEYCODESITE&groupId=GROUP_ID

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/listAllGroups)


```
[{"groupId":"myGroupId","groupName":"my
group","groupCreationDatetime":"2001-01-01
10:00:00","groupLastUpdateDatetime":"2001-01-01
10:00:00","field1":null,"field2":null,"field3":null,"field4":null},{"gro
upId":"myGroupId2","groupName":"my group
2","groupCreationDatetime":"2001-01-01
10:00:00","groupLastUpdateDatetime":"2001-01-01
10:00:00","field1":null,"field2":null,"field3":null,"field4":null}]
```

deleteallgroupsforsinglesite(remove a site from all groups)

deleteallgroupsforsinglesite is a method that will delete all groups for a given site.
This method has a unique mandatory query string parameter :

- ***keycodesite*** (mandatory) : unique ID of the **existing** activity location.

Count is the number of groups where given site was removed.

Syntax of **deleteallgroupsforsinglesite** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/deleteallgroupsforsinglesite/?keycodesite=ACTIVITYLOCATION_KEYCODESITE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/deleteallgroupsforsinglesite/?keycodesite=MyKeyCodeSite)

```
{"result":"ok","count":"6"}
```

If activity location is not in anu group, a valid http response will be returned with count=0

```
{"result":"ok","count":"0"}
```

deletesinglesitefromgroup(delete a site from a group)

deletesinglesitefromgroup is a method that will delete a site from a single group.
This method has a unique mandatory query string parameter :

- ***groupId*** : unique ID of the **existing** group.
- ***keycodesite*** (mandatory) : unique ID of the **existing** activity location.

Syntax of **deletesinglesitefromgroup** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/deletesinglesitefromgroup/?keycodesite=ACTIVITYLOCATION_KEYCODESITE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/deletesinglesitefromgroup/?keycodesite=MyKeyCodeSite)

```
{"result":"ok","count":"1"}
```

If activity location is not in given group, a valid http response will be returned with count=0

```
{"result":"ok","count":"0"}
```

addsinglesitetogroup(add a site to a group)

addsinglesitetogroup is a method that will add a site from a single group.
This method has a unique mandatory query string parameter :

- ***groupId*** : unique ID of the **existing** group.
- ***keycodesite*** (mandatory) : unique ID of the **existing** activity location.

Syntax of **addsinglesitetogroup** method is

http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/addsinglesitetogroup/?keycodesite=ACTIVITYLOCATION_KEYCODESITE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/addsinglesitetogroup/?keycodesite=MyKeyCodeSite)

```
{"result":"ok","count":"1"}
```

If activity location is already in given group, a valid http response will be returned with count=0

```
{"result":"ok","count":"0"}
```

Events API {events}

Events API will be used to manage events (schedule for intervention, employee absence, activity location closure).
To clarify contents and avoid mistake, each event types are splitted in a sub API.

- Interventions will be reachable through events/intervention
- Employee absence will be reachable through events/absence
- Activity location closure will be reachable through events/closure

You won't be able to list all events or sub events except interventions. To do so you will have to use reporting API instead, that is read only and dedicated to computed events data.

Events durationformat parameter

All events are quoted for a given duration. By default duration are explained in minutes but you could specify other formats with optional parameter **durationformat**. (float value to let you be really precise. Rounded with 3 decimals)
Allowed formats are :

- **1** : duration will be explained in minutes (float.Rounded with 3 decimals)
- **2** : duration will be explained in hundredth of hours.(float using decimal separator « point ». Example 0.25 = 15 minutes. Do not use « 0,25 », it will throws an error owing to wrong decimal separator)
- **3 :** duration will be explained using a string **hh:mm:ss** (without white space between « : »).

Sub API intervention {events/intervention}

Events intervention API will be used to manage intervention schedule for a given activity location and a specific period (could be recurring period).

It's the only API that will let you list all interventions events.

Global syntax for events intervention API will always be
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

An intervention is defined by several attributes :

- **keyevent**: [mandatory] Unique ID that identify an intervention (it's a **varchar**)
- **keycodesite** : [mandatory] Unique ID that identify activity location related to this intervention (varchar)
- **keyemployee**: [not mandatory] keyemployee of the employee that is concerned by this intervention.
- **matricule** : [not mandatory] Matricule used sometimes to identify the contract number attached to the event (Hub editor side).
- **datetime**: [mandatory] Scheduled start date time of the intervention using ISO format YYYY-MM-DD hh:mm:ss (without space between « : »)
- **duration**: [mandatory] Scheduled duration of the intervention. By default duration are in minutes (float Rounded with 3 decimals) but you could use different format using optional **durationformat** parameter in your API method.
- **cycle** [not mandatory] Integer indicating if intervention is recurring or not. Allowed values are :
    - **0** : not recurring intervention. Only **datetime** is required. (if datetime=cycleendate, cycle will be forced with value 0 automatically by the system).
    - **1** : recurring intervention from **datetime** to **cycleenddate**.
    - **2** : recurring intervention from **datetime**. No enddate are filled (kind of infinite interventions).
- **dailyperiod** [mandatory if **cycle** not equals to 0] Parameter used for recurring intervention. Indicate days of cycle repetition. It could be a single integer or a list of integers splitted b coma For example « 1 » means « each Monday », « 1,3,5 » means « each Monday,Wednesday and Friday ». Allowed values are :
    - **1 :** Monday
    - **2 :** Tuesday
    - **3 :** Wednesday
    - **4 :** Thursday
    - **5 :** Friday
    - **6 :** Saturday
    - **7 :** Sunday
- **weeklyperiod**:[mandatory if cycle not equals to 0] Parameter used for recurring intervention. Indicate weeks of cycle repetition. For example « each week », « each 2 weeks ». It has to be a single integer (not a list of integer like dailyperiod parameter). Allowed values are :
    - **1 :** each week
    - **2 :** twice a month (each 2 weeks)
    - **3 :** each 3 weeks
    - **4 :** once a month (each 4 weeks)

- **cycleenddate**: [mandatory if cycle equals to 1] Parameter used for limited recurring intervention. Indicate the end date time of a recurring intervention. It has to be an iso date time YYYY-MM-DD (without hours, minutes and seconds). If cycleendate is equals to datetime, cycle will be forced with value '0' by the system. Cycleenddate has to be before datetime ☺
- **cycleexcludeddates**:[not mandatory] List of dates that have to be excluded from recurring intervention. It's a usefull parameter for recuring intervention when we want to exclude day off, or special exclusion. This parameter has to be a list of iso dates splitted by a single coma. Hours, minutes and seconds have to not be mentioned. Example : 2012-10-01,2012-10-14,2012-12-25. Don't forget that each excluded dates has to be inside recuring period (after **datetime** and before **cycleenddate** if filled)
- **protected** : Boolean indicating if current row is protected. It will concern only rows that haven't been created using the Hub. If value is 0, row is not protected and can be updated/deleted. Else, if value is 1, row is protected and cannot be updated neither deleted. To « unlock » protection, you will have to use PT Mobile interface (only Movework client can access to this interface). This field avoid modifications on events that haven't been created by the Hub.
- **keyhub1** : [not mandatory] Optional field that let you insert data when creating an intervention. It could be usefull to add external business logic and apply filter later. Feel free to use this field (it's a **varchar**).
- **name** : [not mandatory] Optional field that let you add a label to an intervention. (it's a **varchar**).
- **Field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Non compliance from Hub 2.3 :

Caution, if you was using Hub2.3 version of API employees, you will have to replace *keymatricule* parameter by *keyemployee*. A new *matricule* field has been added.

Changelogs between Hub2.3 and Hub 3.x:

In Hub 3.x, 4 new optional fields can be used : matricule, field1,field2,field3,field4.

create (add a new intervention event)

create is the method that will let you create a new intervention for a given activity location.
This method has several query string parameters.
Mandatory parameters are **keyevent,** ***keycodesite***, ***datetime*** *and* ***duration.***
[use case of infinite recuring intervention] If cycle is filled and not equals to 0, **dailyperiod** and **weeklyperiod** are mandatory too.
[use case of limited recuring intervention] If cycle is filled and equals to 1, **dailyperiod, weeklyperiod** and **cyclendate** are mandatory too.

Optional query string parameters are ***keyemployee, matricule***, **cycleexcludeddates,keyhub1,name, field1,field2,field3,field4**.

Keyevent value has to be unique, that's why this value has to be unknown in database. If you try to create an intervention with an existing keyevent(duplicated keyevent from events you have previously created or from events that was already created before you became a Hub member) an error 400 will be returned.
Keycodesite value has to match an existing activitylocation keycodesite. If you try to create an intervention with an unknown keycodesite, an error 400 will be returned.
If filled, **keyemployee** has to match an existing employee keyemployee. If you try to create an intervention with an unknown keyemployee, an error 400 wil be returned.

Don't forget that you can specify a **durationformat** to change duration value interpretation. See previous chapter dealing with this parameter

After a successfull call, Movework Hub will return the detail of created intervention (same data as if you call **view** method).

Syntax of **create** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/create/?keyevent=EVENT_KEYEVENT&keycodesite=EVENT_KEYCODESITE&keyemployee=EVENT_KEYEMPLOYEE&matricule=EVENT_MATRICULE&datetime=EVENT_DATETIME&duration=EVENT_DURATION&cycle=EVENT_CYCLE&dailyperiod=EVENT_DAILYPERIOD&weeklyperiod=EVENT_WEEKLYPERIOD&cycleenddate=EVENT_CYCLEENDDATE&cycleexcludeddates=EVENT_CYCLEEXCLUDEDDATES&keyhub1=EVENT_KEYHUB1&name=EVENT_NAME

An example of HTTP Response returned by Movework Hub (when you call
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/create/?keyevent=mykeyeventtest&keycodesite=203&keyemployee=25165&matricule=myMat
&datetime=2012-10-14 10:00:00&duration=180&cycle=1&dailyperiod=1,3,5&weeklyperiod=2
&cycleenddate=2012-12-26&cycleexcludeddates=2012-11-11,2012-12-25


```
{"keyevent":"mykeyeventtest","keycodesite":"203","keyemployee":"25165","matricule":"MyMat","datetime":"2012-10-14 10:00:00","duration":180,"cycle":"1","dailyperiod":"1,3,5","weeklyperiod":"2","cycleenddate":"2012-12-26 00:00:00","cycleexcludeddates":"2012-11-11,2012-12-25","protected":"0","name":"","keyhub1":""}
```


If you send previous call twice, the second call will fails returning a 400 error because keyevent is already used.

```
{"errorCode":400,"message":"keyevent is already in use for an existing
intervention. You cannot create multiple interventions with the same
keyevent."}
```

If you try to create an intervention using an unknown keycodeclient, an error 400 will be returned

```
{"errorCode":400,"message":"keycodesite is unknown as an activity
locationkeycodesite. This parameter has to match an existing customer
keycodesite."}
```

view (view detail for a specific intervention)

view is the method that will let you see details of a specific intervention
This method has one mandatory query string parameter **keyevent**
Value of this parameter has to be an existing keyevent. If it's not the case, a 404 error will be returned.
This method has optional parameters **keyemployee**and **keycodesite**.
If filled, **keyemployee** has to be an existing *employee*. If it's not the case, a 400 error will be returned.
If filled, **keycodesite** has to be an existing *activitylocation*. If it's not the case, a 400 error will be returned.

Syntax of **view** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/view/?keyevent=EVENT_KEYEVENT&keyemployee=EVENT_KEYEMPLOYEE&keycodesite=EVENT_KEYCODESITE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/view/?keyevent=mykeyeventtest&keyemployee=25165)


```
{"keyevent":"mykeyeventtest","keycodesite":"203","keyemployee":"25165","datetime":"2012-10-14
10:00:00","duration":180,"cycle":"1","dailyperiod":"1,3,5","weeklyperiod":"2","cycleenddate":"2012-12-26
00:00:00","cycleexcludeddates":"2012-11-11,2012-12-25","protected":"0","keyhub1":""}
```


If you try to call **view** method for an unknown keyevent, 404 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ events/intervention/view/?keyevent =999) :


```
{"errorCode":404,"message":"Trying to proceed an action on an event intervention that does not exist in the system. Given keyevent is unknown."}
```

index (list all interventions events)

index is the default method used in events/intervention API.
This method has to use at least one of the parameters below :

- **keyemployee**: list all interventions for a given keyemployee.
- **keycodesite** : list all interventions for a given keycodesite
- **keyhub1** : list all interventions for a given keyhub1 (will proceed an equalsTo and not a « like »)
- **name** : list all interventions for a given name (will proceed an equalsTo and not a « like »)
- **duration** : list all interventions with a given duration (you can use durationformat)
- **from** : list all interventions that start after given datetime
- **to** : list all interventions that start before given datetime.

If you specifiy multiple parameters, it will be cumulative (In other words : « AND » in SQL, and not « OR »).

Syntax of **index** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/?keyemployee=EVENTS_KEYEMPLOYEE&keycodesite=EVENTS_KEYCODESITE&from=FROM&to=TO&duration=EVENTS_DURATION&keyhub1=EVENTS_KEYHUB1&name=EVENTS_NAME

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.move”keyemployee”:work.net/KEY_DEV/KEY_PROJECT/events/intervention/?keyemployee=myMat) is :


```
[{"keyevent":"m213ykeyeventtest","keycodesite":"000059","keyemployee":"myMat","datetime":"2012-10-14
10:00:00","duration":"180","cycle":"1","dailyperiod":"1,3,5","weeklyperiod":"2","cycleenddate":"2012-12-28","cycleexcludeddates":"2012-11-10,2012-12-25","protected":"0","name":"","keyhub1":"myKeyHub1"},{"keyevent":"m2ykeyeventtest","keycodesite":"000059",”keyemployee”:"myMat","datetime":"2012-10-14
10:00:00","duration":"180.024","cycle":"1","dailyperiod":"1,3,5","weeklyperiod":"2","cycleenddate":"2012-12-26","cycleexcludeddates":"2012-11-11,2012-12-25","protected":"0","name":"","keyhub1":"myKeyHub1"},{keyevent":"2mykeyeventtest","keycodesite":"000059",”keyemployee”:"myMat","datetime":"2012-10-14
10:00:00","duration":"180","cycle":"1","dailyperiod":"1,3,5","weeklyperiod":"2","cycleenddate":"2012-12-26","cycleexcludeddates":"2012-11-11,2012-12-25","protected":"0","name":"","keyhub1":null}]
```

update (modify single event intervention data)

update is the method that will let you modify an existing event intervention(that is not locked. Must be protected=0).
This method has several query string parameters.
Mandatory parameter is ***keyevent.***
Optional query string parameters are ***keycodesite,***
keyemployee,matricule,datetime,duration,durationformat,cycle,dailyperiod,weeklyperiod,cycleenddate,cycleexcludeddates,keyhub1,name,field1,field2,field3,field4.
Keyevent value has to match an existing event intervention. If it's not the case, an error 400 will be returned.
All event intervention parameters not mentionned in your call won't be modifed.
Particular case with parameter **cycleexcludeddates**. If filled, all previously excluded dates will be removed and then new excluded dates will be added. So, **manipulate this parameter with caution**.

After a successfull call, Movework Hub will return the detail of modified activity location (same data as if you call **view** method).

Syntax of **update** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/update/?keyevent=EVENT_KEYEVENT&keycodesite=EVENT_KEYCODESITE&keyemployee=EVENT_KEYEMPLOYEE&datetime=EVENT_DATETIME&duration=EVENT_DURATION&cycle=EVENT_CYCLE&dailyperiod=EVENT_DAILYPERIOD&weeklyperiod=EVENT_WEEKLYPERIOD&cycleenddate=EVENT_CYCLEENDDATE&cycleexcludeddates=EVENT_CYCLEEXCLUDEDDATES&keyhub1=EVENT_KEYHUB1&name=EVENTS_NAME

An example of HTTP Response returned by Movework Hub (when you call
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/update/?keyevent=mykeyeventtest&keycodesite=204&keyemployee=25166
&datetime=2012-10-15 10:00:00&duration=190&cycle=1&dailyperiod=1,4,6&weeklyperiod=1
&cycleenddate=2012-12-28&cycleexcludeddates=2012-10-11,2012-12-25


```
{"keyevent":"mykeyeventtest","keycodesite":"204","keyemployee":"25166","datetime":"2012-10-15
10:00:00","duration":190,"cycle":"1","dailyperiod":"1,4,6","weeklyperiod":"1","cycleenddate":"2012-12-28
00:00:00","cycleexcludeddates":"2012-10-11,2012-12-25","protected":"0","name":"","keyhub1":""}
```


If you try to run **update** method using an unknown keycodesite, a 404 error will be.


```
{"errorCode":404,"message":"Trying to proceed an action on an event intervention that does not exist in the system. Given keyevent is unknown."}
```


If you try to run **update** method on a locked event (protected=1), a 400 error will be returned.


```
{"errorCode":400,"message":" Cannot update intervention if it is a protected one. Protected data has to be unlocked PT-Mobile side. Check documentation for more information."}
```

delete (delete a specific event intervention)

delete is the method that will let you delete an event intervention (that is not locked. Must be protected=0).
This method has one mandatory query string parameter ***keyevent***.
Value of this parameter has to be an existing keyevent. If it's not the case, a 404 error will be returned.

Syntax of **delete** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/delete/?keyevent=EVENT_KEYEVENT

Be careful, deletion of an event is PERMANENT. You won't be able to revert it !

Because deletion is permanent, after a successfull delete, we cannot redirect to view display. Instead, we simply return « result :ok » with number or row deleted (trivial for a single delete) as you can see in example below.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/delete/?keyevent=mykeyeventtest)

```
{"result":"ok","count":"1"}
```

If you try to call **delete** method for an unknown keyevent, 404 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/delete/?keyevent=999) :

```
{"errorCode":404, "message":"Trying to proceed an action on an event intervention that does not exist in the system. Given keyevent is unknown."}
```

If you try to run **delete** method on a locked event (protected=1), a 400 error will be returned.

```
{"errorCode":400,"message":" Cannot delete intervention if it is a protected one. Protected data has to be unlocked PT-Mobile side. Check documentation for more information."}
```

deleteall (delete several event intervention)

deleteall is the method that will let you delete a bunch of event interventions (that are not locked. Must be protected=0).
This method has 2 parameters, with at least one mandatory :

- ***keyemployee*** : keyemployeeof the employee. If filled, has to match an existing employee.
- ***keycodesite*** : keycodesite of the activity location. If filled, has to match and existing activity location.

Will let you delete all interventions events related to a given employee and/or activity location. Will only delete « non protected » rows (protected=0)

Syntax of **deleteall** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/deleteall/?keyemployee=EVENT_KEYEMPLOYEE&keycodesite=EVENT_KEYCODESITE

Be careful, deletion of events is PERMANENT. You won't be able to revert it !

Because deletion is permanent, after a successfull deleteall, we cannot redirect to view display. Instead, we simply return « result :ok » with number or row deleted as you can see in example below.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/deleteall/?keyemployee=3106)

```
{"result":"ok","count":"6"}
```

If you try to call **deleteall** method for an unknown keycodesite and/or keyemployee, 4009 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/deleteall/?keyemployee=999) :

```
{"errorCode":400, "message":" Given keyemployee is unknown as an
employee keyemployee. If this parameter is filled, it has to match an
existing employee keyemployee. "}
```

deletealldangerous(delete several event intervention)

deletealldangerous is the method that will let you delete a bunch of event interventions (that are not locked. Must be protected=0).

Will let you delete all interventions events without no filters on employee neither on activity location. Use this method with EXTREME CAUTION !

Syntax of **deletealldangerous** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/ deletealldangerous

Be careful, deletion of events is PERMANENT. You won't be able to revert it !

Because deletion is permanent, after a successfull deletealldangerous, we cannot redirect to view display. Instead, we simply return « result :ok » with number or row deleted as you can see in example below.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/intervention/ deletealldangerous)

```
{"result":"ok","count":"666"}
```

Sub API Absence (events/absence)

Events absence API will be used to manage employee absence schedule (could be recurring period or a single piece of day absence).

As for global events API you won't be able to list all absence events. You will have to use timeactivity API instead that is dedicated to computed events data.
You won't be able to view/update single absence either.

Regarding the reason of the employee absence, you will have 2 choices :

- use the category parameter as an integer between 0 and 7.
- Use the categorystring parameter as a string that will match list of reason for given account. **Caution :** this list is potentially customized MoveWORK side for this client (key_project), so don't forget to look at the method *getAbsencesCategoryStringAvailable*

Global syntax for events absence API will always be
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

An absence is defined by several attributes :

- **keyemployee**: [mandatory] keyemployee of the employee that is concerned by this absence.
- **datetime**: [mandatory] Scheduled start date time of the absence using ISO format YYYY-MM-DD HH:MM:SS (with time and without space betwen semi colon)
- **duration**: [mandatory] Scheduled duration of the event. By default duration are in minutes (float) but you could use different format using optional **durationformat** parameter in your API method. **Be careful** : You can use duration OR enddatetime, but your cannot use both. If you use datetime+duration, The Hub will calcultate the enddatetime ; else if you use datetime+enddatetime, The Hub will calculate duration.

- **enddatetime**: [mandatory] Scheduled end date time of the absence using ISO format YYYY-MM-DD HH:MM:SS (with time and without space betwen semi colon).
  Be careful : You can use duration **OR** enddatetime, but **you cannot use both**. If you use datetime+duration, The Hub will calcultate the enddatetime ; else if you use datetime+enddatetime, The Hub will calculate duration.

- **category** [mandatory if categorystring is not filled] Integer indicating the reason of the employee absence. Allowed values are :
  - **0** : paid leave. (congés payés)
  - **1** : sick. (arrêt malaide)
  - **2** : « RTT ». (RTT
  - **3** : work accident (accident de travail)
  - **4** : unjustified absence (absence non justifiée)
  - **5** : maternity leave (congés maternité)
  - **6 :** parental leave (congés parental)
  - **7 :** justified absence (absence justifiée)
- **categorystring** [mandatory if *category* is not filled]. String indicating the reason of the employee absence. Allowed values are listed in method *getAbsencesCategoryStringAvailable*
- **cycleenddate**: [not mandatory] Parameter used for limited recurring absence. Indicate the end date of a recurring intervention. It has to be an iso date time YYYY-MM-DD (without hours, minutes and

seconds). If cycleendate is equals to datetime, cycle will be forced with value '0' by the system. Cycleenddate has to be **after** datetime ☺

- **Field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Keyevent** [not mandatory] Optional field that could serve as a primary key for this absence or can be shared among various absences. (no unicity constraint). It could be use later on /deleteall or /deletebykeyevent API call to delete specific absences.

Non compliance from Hub 2.3 :

Caution, if you was using Hub2.3 version of API employees, you will have to replace *keymatricule* parameter by *keyemployee*. A new *matricule* field has been added.

Changelogs between Hub2.3 and Hub 3.x:

In Hub 3.x, 5 new optional fields can be used : matricule,categorystring field1,field2,field3,field4,keyevent.
In Hub 3.x, you can choose to use category (int) or categorystring (string).
In Hub 3.X, keyevent can be used for deleteall method (and new deletebykeyevent method)

getAbsencesCategoryStringAvailable *(list available absence reasons)*

getAbsencesCategoryStringAvailable is the method that will list all available absences reasons for given client (key_project). Caution : it could be different for another key_project (in case you are managin more than one key_project).

This method has to be used with /absence/create if you want to use customized (string) categories.
This method doesn't have any query string parameters.

Syntax of **getAbsencesCategoryStringAvailable** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/
getAbsencesCategoryStringAvailable

An example of HTTP Response returned by Movework Hub (when you call
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/ getAbsencesCategoryStringAvailable


```
[{"code":"AA","label":"Absence autoris\u00e9e
pay\u00e9e"},{"code":"AI","label":"Absence
injustifi\u00e9e"},{"code":"AJ","label":"Accident de
trajet"},{"code":"AN","label":"Absence autoris\u00e9e non
pay\u00e9e"},{"code":"ANA","label":"Absence non
autoris\u00e9e"},{"code":"AT","label":"Accident du
Travail"},{"code":"BB","label":"Cong\u00e9 maternit\u00e9"}]
```


Create (create a specific event absence)

create is the method that will let you create a new employee absence for a given single date or period.
This method has several query string parameters.
Mandatory parameters are **keyemployee**, **category**, ***datetime*** *and* ***duration.***

Optional query string parameter is ***cycleenddate*** (for recurring absence from a given start date to a given end date).
Optional query string parameter ***keyevent*** can be used to identify absence to create as an external primary key (or can be even shared among several absences depending on your own business logic).

Key employeehas to match an existing employee keyemployee. If you try to create an absence with an unknown keyemployee, an error 400 wil be returned.

Regarding the reason of the employee absence, you will have 2 choices :

- use the category parameter as an integer between 0 and 7.
- Use the categorystring parameter as a string that will match list of reason for given account. **Caution :** this list is potentially customized MoveWORK side for this client (key_project), so don't forget to look at the method *getAbsencesCategoryStringAvailable*

Don't forget that you can specify a **durationformat** to change duration value interpretation. See previous chapter dealing with this parameter.

After a successfull call, Movework Hub won't return the detail of created absence as for other API. It's due to the fact that reading absence data is dedicated to timeactivity API. Instead, you will have a sum up of result creation. Nb of row impacted (trivial for creation, it's always 1 on success).

Syntax of **create** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/create/?keyemployee=EVENT_KEYEMPLOYEE&keyevent=EVENT_KEYEVENT&category=EVENT_CATEGORY&datetime=EVENT_DATETIME&duration=EVENT_DURATION&cycleenddate=EVENT_CYCLEENDDATE

An example of HTTP Response returned by Movework Hub (when you call
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/create/?keyemployee=25165&datetime=2012-10-14 10:00:00&duration=180&cycleenddate=2012-12-26&keyevent=MyPK

```
{"result":"ok","count":"1"}
```

If you try to create an absence using an unknown keyemployee, an error 400 will be returned

```
{"errorCode":400,"message":"keyemployee is unknown as an employee keyemployee. It has to match an existing employee keyemployee."}
```

deleteall [delete a bunch of absences for a given employee]

deleteall is the method that will let you delete a bunch of event absences (that are not locked. Must be protected=0).
This method has 1 mandatory parameter :

- ***keyemployee***: keyemployee of the employee. It has to match an existing employee.

You can add up to 2 optional parameters to not delete all absences for this employee :

- ***matricule*** matricule of given absence used on /absence/create method
- ***keyevent*** optional keyevent of given absence(s) used on /absence/create method

Will let you delete all absences events related to a given employee. Will only delete « non protected » rows (protected=0)

Syntax of **deleteall** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/deleteall/?keyemployee=EVENT_KEYEMPLOYEE&matricule=EVENT_MATRICULE&keyevent=EVENT_KEYEVENT

Be careful, deletion of events is PERMANENT. You won't be able to revert it !

Because deletion is permanent, after a successfull deleteall, we cannot redirect to view display. Instead, we simply return « result :ok » with number or row deleted as you can see in example below.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/deleteall/?keyemployee=3106)

```
{"result":"ok","count":"6"}
```

If you try to call **deleteall** method for an unknown keyemployee, 400 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/deleteall/?keyemployee=999) :

```
{"errorCode":400, "message":" Given keyemployee is unknown as an
employee keyemployee. It has to match an existing employee keyemployee.
"}
```

deletebykeyevent (delete a bunch of absences for given events)

deletebykeyevent is the method that will let you delete a bunch of event absences (that are not locked. Must be protected=0).
This method has 1 mandatory parameter :

- ***keyevent*** keyevent of given absence(s) used on /absence/create method.

You can add up to 2 optional parameters to not delete all absences for this keyevent :

- ***matricule*** matricule of given absence used on /absence/create method
- ***keyemployee***: keyemployee of the employee. If filled it has to match an existing employee.

Will let you delete all absences events related to a given keyevent. Will only delete « non protected » rows (protected=0)

Syntax of **deletebykeyevent** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/deletebykeyevent?keyevent=EVENT_KEYEVENT&matricule=EVENT_MATRICULE&keyemployee=EVENT_KEYEMPLOYEE

Be careful, deletion of events is PERMANENT. You won't be able to revert it !

Because deletion is permanent, after a successfull deleteall, we cannot redirect to view display. Instead, we simply return « result :ok » with number or row deleted as you can see in example below.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/deletebykeyevent/?keyevent=myPK)

```
{"result":"ok","count":"2"}
```

If you try to call **deletebykeyevent** method with a filled parameter keyemployee for an unknown keyemployee, 400 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/deletebykeyevent/?keyevent=myPK&keyemployee=999) :

```
{"errorCode":400, "message":" Given keyemployee is unknown as an
employee keyemployee. It has to match an existing employee keyemployee.
"}
```

deletealldangerous (delete a bunch of absences)

deletealldangerous is the method that will let you delete a bunch of event absences without no filter on employees.

Will let you delete all absences events without no filters on employee.
Use this method with EXTREME CAUTION !

Will only delete « non protected » rows (protected=0)

Syntax of **deletealldangerous** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/deletealldangerous

Be careful, deletion of events is PERMANENT. You won't be able to revert it !

Because deletion is permanent, after a successfull deletealldangerous, we cannot redirect to view display. Instead, we simply return « result :ok » with number or row deleted as you can see in example below.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/absence/deletealldangerous

```
{"result":"ok","count":"666"}
```

Sub API Closure (events/closure)

Events closure API will be used to manage activity location closure schedule (could be recurring period or a single or several closure days).

As for global events API you won't be able to list all closure events. You will have to use timeactivity API instead that is dedicated to computed events data.
You won't be able to view/update single closure either.

Global syntax for events closure API will always be
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/closure/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

A closure is defined by several attributes :

- **keycodesite**: [mandatory] keycodesite of the activitylocation that is concerned by this closure.
- **datetime**: [mandatory] Scheduled start date time of the closure using ISO format YYYY-MM-DD (**be carefull :** without time. Closure is always for an entire day at least)
- **category** [mandatory] Integer indicating the reason of the activity location closure. Allowed values are :
    - **0** : closure (fermeture)
    - **1** : cancellation (annulée)
    - **2** : reported (reportée)
    - **3** : other cancellation (annuler autre)
- **cycleenddate**: [not mandatory] Parameter used for limited recurring closure. Indicate the end date of a recurring intervention. It has to be an iso date time YYYY-MM-DD (without hours, minutes and seconds). Cycleenddate has to be before datetime ☺
- **Field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **Field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

Non compliance from Hub 2.3 :

Caution, if you was using Hub2.3 version of API employees, you will have to replace *keymatricule* parameter by *keyemployee*. A new *matricule* field has been added.

Changelogs between Hub2.3 and Hub 3.x:

In Hub 3.x, 4 new optional fields can be used : matricule, field1,field2,field3,field4.

Create (create a specific event closure)

create is the method that will let you create a new activity location closure for a given single date or period. This method has several query string parameters.
Mandatory parameters are **keycodesite**, **category**, ***datetime*** *and* ***duration.***

Optional query string parameter is ***cycleenddate*** (for recurring absence from a given start date to a given end date).

keycodesite has to match an existing activity location keycodesite. If you try to create a closure with an unknown keycodesite, an error 400 wil be returned.

After a successfull call, Movework Hub won't return the detail of created closure as for other API. It's due to the fact that reading closure data is dedicated to timeactivity API. Instead, you will have a sum up of result creation. Nb of rows impacted (trivial for creation, it's always 1 on success).

Syntax of **create** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/closure/create/?keycodesite=EVENT_KEYCODESITE&category=EVENT_CATEGORY&datetime=EVENT_DATETIME&cycleenddate=EVENT_CYCLEENDDATE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/closure/create/?keycodesite=25165&datetime=2012-10-14 10:00:00&cycleenddate=2012-12-26

```
{"result":"ok","count":"1"}
```

If you try to create a closure using an unknown keycodesite, an error 400 will be returned

```
{"errorCode":400,"message":"keycodesite is unknown as an activity location keycodesite. It has to match an existing activity location keycodesite."}
```

Deleteall (delete a bunch of closure)

deleteall is the method that will let you delete a bunch of event closure (that are not locked. Must be protected=0).
This method has 1 parameter :

- ***keycodesite***: keycodesite of the activity location. It has to match an existing activity location.

Will let you delete all closures events related to a given activity location. Will only delete « non protected » rows (protected=0)

Syntax of **deleteall** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/closure/deleteall/?keycodesite=EVENT_KEYCODESITE

Be careful, deletion of events is PERMANENT. You won't be able to revert it !

Because deletion is permanent, after a successfull deleteall, we cannot redirect to view display. Instead, we simply return « result :ok » with number or row deleted as you can see in example below.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/closure/deleteall/? keycodesite =3106)

```
{"result":"ok","count":"6"}
```


If you try to call **deleteall** method for an unknown keycodesite, 400 error will be returned (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/events/closure/deleteall/? keycodesite =999) :


```
{"errorCode":400, "message":" Given keycodesite is unknown as an
activity location keycodesite. It has to match an existing activity
location keycodesite. "}
```

Time Activity API {timeactivity}

Timeactivity API will be used to build reports on employee time activity and trace anomalies.
Global syntax for timeactivity API will always be
http://api.hub.movework.net/
KEY_DEV/KEY_PROJECT/timeactivity/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

Time Activity durationformat parameter

As for events API, for all methods of timeactivity that deal with calculated durations, you will be able to specify a duration format that will be used for output data. By default all calculated durations are explained in minutes but you could specify other formats with optional parameter **durationformat**. (integer value)
Allowed formats are :

- **1** : duration will be explained in minutes (float. Rounded with 3 decimals)
- **2** : duration will be explained in hundredth of hours.(float using decimal separator « point ». Example 0.25 = 15 minutes. Do not use « 0,25 », it will throws an error owing to wrong decimal separator)
- **3 :** duration will be explained using a string **hh:mm:ss** (without white space between « : »).

Non compliance from Hub 2.3 :

Caution, if you was using Hub2.3 version of API employees, you will have to replace *keymatricule* parameter by *keyemployee*.

Changelogs between Hub2.3 and Hub 3.x:

In Hub 3.x, 4 new optional fields can be used : employee_field1, employee_field2, employee_field3, employee_field4, activitylocation_field1, activitylocation_field2, activitylocation_field3, activitylocation_field4, eventintervention_field1, eventintervention_field2, eventintervention_field3, employee_field4.

index (list time activity reports)

By default, returned activities will be validated one. It means a real « WorkinTIME » user will have to validate each activity on « WorkinTIME-DataClean » before the API Hub timeactivity can display it.

index is the method that will build time activity reports for a given period (between 2 datetimes).
This method has several query string parameters.
Mandatory parameters are ***from***, ***to***.
Optional query string parameters are keyemployee, **keycodesite, keycodeclient, keyevent, showOnlyValidatedActivities, diffaccuracy, modestrict, groupby, groupbyemployee, groupbysite** and ***groupbycustomer***.

keyemployee has to match an existing employee keyemployee if filled.
keycodesite has to match an existing activity location keycodesite if filled.
keycodeclient has to match an existing customer keycodeclient if filled.
keyevent has to match an existing event if filled.

Definitions of all allowed GET attributes are listed below :

- **from** [mandatory] Start date time which limit the time activity period. ISO format YYYY-MM-DD HH:MM:SS (with time and without space betwen semi colon)
- **to** [mandatory] End date time which limit the time activity period. ISO format YYYY-MM-DD HH:MM:SS (with time and without space betwen semi colon)
- **keyemployee**[optional] keyemployee of the employee related to this time activity. Used if you want to filter on a single employee.
- **keycodesite** [optional] keyemployee of the employee related to this time activity. Used if you want to filter on a single employee.
- **keycodeclient** [optional] keyemployee of the employee related to this time activity. Used if you want to filter on a single employee.
- **keyevent** [optional] keyemployee of the employee related to this time activity. Used if you want to filter on a single employee.
- showOnlyValidatedActivities [optional]. Boolean (by default 1) indicating if returned activities must be previously validated by the end user (user of WorkinTIME, using DataClean MoveWORK app). ***If 0, all activities will be returned. If validated, data should have been modified by the end user (start date, end date, duration). So if you grab raw data, be sure that you update it when you grab it later in a « validated » state.***
- **diffaccuracy** [optional] Integer used if modestrict is activated. Will specify time difference allowed between worked time and planned time. By default, 0 minutes are allowed if modestrict is activated.
- **modestrict** [optional] 3 modes allowed :
    - **0** : All records are returned
    - **1** : Only records attached to a planning (planned interventions) with a time difference less or equals to **diffaccuracy** are returned.
    - **2** : Only records attached to a planning (planned interventions) are returned.
- **groupby** [optional] 4 groupby allowed. By default no groupby are applied (value ***none***)
    - **none :** All records are returned. One record per employee trace (in/out couple or absence)
    - **day :** All records are grouped by day. You could use ***groupbyemployee***,***groupbysite***,***groupbycustomer*** to complete groupby and returned data. When group by day, you will have only one record per day. Only days attached to at least one employee trace (or absence) will be returned. ***groupby*** output data will be a date in ISO format YYYY-MM-DD.

    - **month :** All records are grouped by month. You could use ***groupbyemployee***,***groupbysite***,***groupbycustomer*** to complete groupby and returned data. When group by day, you will have only one record per month. Only months attached to at least one employee trace (or absence) will be returned. ***groupby*** output data will be a piece of date YYYY-MM. Prefixing by year let you differenciate records when your period includes 2 years (between december and january for example).
    - **week :** All records are grouped by day. You could use ***groupbyemployee***,***groupbysite***,***groupbycustomer*** to complete groupby and returned data. When group by day, you will have only one record per week. Only weeks attached to at least one employee trace (or absence) will be returned. ***groupby*** output data will be YYYY#WEEK_NUMBER. Prefixing by year let you differenciate records when your period includes 2 years (between december and january for example).
- **groupbyemployee** [optional] Optional boolean that let you combinate **groupby** with **groupbyemployee**. Value could be 0 or 1. By default 0. If this value is 1, returned data will be grouped by date (depending on ***groupby*** value) and keyemployee. It let you differenciate time activity for several keyemployee.
- **groupbysite** [optional] Optional boolean that let you combinate **groupby** with **groupbysite**. Value could be 0 or 1. By default 0. If this value is 1, returned data will be grouped by date (depending on ***groupby*** value) and **keycodesite**. It let you differenciate time activity for several activity locations.
- **groupbycustomer** [optional] Optional boolean that let you combinate **groupby** with **groupbycustomer**. Value could be 0 or 1. By default 0. If this value is 1, returned data will be grouped by date (depending on ***groupby*** value) and **keycodeclient**. It let you differenciate time activity for several customers.

After a successfull call, Movework Hub will return the timeactivity report for requested data.
Returned attributes depends on **groupby** HTTP_GET value.
If **groupby** is not filled or filled with « **none** » value, the Hub will return these attributes :

- **keyemployee** keyemployee of the employee related to this record (always filled)
- **keycodesite** keycodesite of the activity location related to this record (always filled)
- **keycodeclient** keycodeclient of the customer related to this record (always filled)
- **keyevent** keyevent of the planning intervention (or planning absence) related to this record (can be empty)
- **from** Trace start date in ISO format YYYY-MM-DD HH :MM :SS
- **to** Trace end date in ISO format YYYY-MM-DD HH :MM :SS (could be empty in case of anomaly, see anomaly method name)
- **fromPlanned** Trace start date planned in ISO format YYYY-MM-DD HH :MM :SS (could be empty if not attached to any planning)
- **toPlanned** Trace end date planned in ISO format YYYY-MM-DD HH :MM :SS (could be empty if not attached to any planning)
- **durationworked** Indicating total worked duration for this record. Duration format could be specified to use another duration format. If record is an absence, value will be negative.
- **durationplanned** Indicating total planned duration for this grouped records. Duration format could be specified to use another duration format. If record is an absence, value will be negative.
- **difference** Float indicating difference between worked duration and planned duration. Could be negative if planned duration is greater than worked duration
- **anomaly** 0 if everything is ok with this record, else 1. Supervision will be required WorkinTIME side.
- **absencereason** -1 if no reason (or not an absence), else will return event absence integer (see event absence API documentation for more details about definition of these integers)
- **certified** 0/1 Indicate if current row is certified or not. If certified, it means it was not modified by a human afterward (using for example WorkinTime or Dataclean solution from MoveWORK Connect)

- **parentkeyevent** : Filled if current row is a replacement presence. This parentkeyevent link to the original keyevent (supposed in absence) from which the replacement occured

Else, if groupby is filled with a value different than « none », the Hub will return these attributes :

- **groupby** (groupby value. Day, month or week details)
- **keyemployee** (only displayed if groupbyemployee 1 was specified)
- **keycodesite** (only displayed if groupbysite 1 was specified)
- **keycodeclient** (only displayed if groupbycustomer 1 was specified)
- **durationworked** Indicating total worked duration for this grouped records. Duration format could be specified to use another duration format. If record is an absence, value will be negative.
- **durationplanned** Indicating total planned duration for this grouped records. Duration format could be specified to use another duration format. If record is an absence, value will be negative.
- **difference** Float indicating difference between worked duration and planned duration. Could be negative if planned duration is greater than worked duration

Syntax of **index** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/timeactivity/index/?from=TIMEACTIVITY_FROM&to=TIMEACTIVITY_TO &keycodesite= TIMEACTIVITY _KEYCODESITE&keycodeclient= TIMEACTIVITY _KEYCODECLIENT &keyemployee=TIMEACTIVITY _KEYEMPLOYEE&diffaccuracy= TIMEACTIVITY _DIFFACCURACY &modestrick=TIMEACTIVITY_MODESTRICT&groupby=TIMEACTIVITY_GROUPBY &groupbyemployee= TIMEACTIVITY_GROUPBY_EMPLOYEE &groupbysite= TIMEACTIVITY_GROUPBY_SITE &groupbycustomer=TIMEACTIVITY_GROUPBY_CUSTOMER

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/timeactivity/?from=2012-06-01 00:00:00&to=2012-06-08 00:00:00&keyemployee=31667)


```
[{"keycodeclient":"826","keycodesite":"0",”keyemployee”:"31667","keyeven
t":"wiy201227144753rno","from":"2012-06-01 05:05:00","to":"2012-06-01
11:05:00","durationworked":360,"durationplanned":361,"difference":-1,"an
omaly":"0","absencereason":"-1","certified":"1","parentkeyevent":""},{"k
eycodeclient":"826","keycodesite":"0",”keyemployee”:"31667","keyevent":"
wiy201227144753rno","from":"2012-06-02 05:09:00","to":"2012-06-02
11:05:00","durationworked":356,"durationplanned":361,"difference":-5,"an
omaly":"0","absencereason":"-1","certified":"1","parentkeyevent":""},{"k
eycodeclient":"826","keycodesite":"0",”keyemployee”:"31667","keyevent":"
wiy201227144753rno","from":"2012-06-04 05:32:00","to":"2012-06-04
06:30:00","durationworked":58,"durationplanned":361,"difference":-303,"a
nomaly":"0","absencereason":"-1","certified":"1","parentkeyevent":""},{"
keycodeclient":"826","keycodesite":"0",”keyemployee”:"31667","keyevent":
"wiy201227144753rno","from":"2012-06-05 05:05:00","to":"2012-06-05
11:06:00","durationworked":361,"durationplanned":361,"difference":0,"ano
maly":"0","absencereason":"-1","certified":"1","parentkeyevent":""},{"ke
ycodeclient":"826","keycodesite":"0",”keyemployee”:"31667","keyevent":"w
iy201227144753rno","from":"2012-06-06 05:05:00","to":"2012-06-06
11:05:00","durationworked":360,"durationplanned":361,"difference":-1,"an
omaly":"0","absencereason":"-1","certified":"1","parentkeyevent":""},{"k
eycodeclient":"826","keycodesite":"0",”keyemployee”:"31667","keyevent":"
wiy201227144753rno","from":"2012-06-07 05:31:00","to":"2012-06-07
```

```
11:04:00","durationworked":333,"durationplanned":361,"difference":-28,"a
nomaly":"0","absencereason":"-1","certified":"1","parentkeyevent":""}]
```


If you send previous call with « to » value that create a period greater than allowed,the call will fails returning a 400 error.


```
{"errorCode":400,"message":"Fields [from] and [to] must constitue a
period duration less or equals to 30 days. Build timeactivity reports
could return a lot of data. We do not want to crash your source code
parser :) .Check document for more informations."}
```


Another example with a groupby :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/timeactivity/?from=2012-06-01 00:00:00&to=2012-06-08 00:00:00&groupby=day)


```
[{"groupby":"2012-06-01","durationworked":30198,"durationplanned":31832,
"difference":-1634},{"groupby":"2012-06-02","durationworked":11791,"dura
tionplanned":12318,"difference":-527},{"groupby":"2012-06-03","durationw
orked":533,"durationplanned":251,"difference":282},{"groupby":"2012-06-0
4","durationworked":29342,"durationplanned":30562,"difference":-1220},{"
groupby":"2012-06-05","durationworked":28931,"durationplanned":29727,"di
fference":-796},{"groupby":"2012-06-06","durationworked":28768,"duration
planned":29517,"difference":-749},{"groupby":"2012-06-07","durationworke
d":26561,"durationplanned":26605,"difference":-44}]
```

anomalies (list number of anomalies in employee traces)

anomalies is the method that will let you check if there is employee traces anomalies (such as in trace withtou out trace).
This method has several query string parameters.
Mandatory parameters are ***from***, ***to***.
Optional query string parameter is keyemployee.

keymployee has to match an existing employee keyemployee if filled.

Definitions of all allowed GET attributes are listed below :

- **from** [mandatory] Start date time which limit the time activity period. ISO format YYYY-MM-DD HH:MM:SS (with time and without space betwen semi colon)
- **to** [mandatory] End date time which limit the time activity period. ISO format YYYY-MM-DD HH:MM:SS (with time and without space betwen semi colon)
- **keyemployee**[optional] keyemployee of the employee related to this time activity. Used if you want to filter on a single employee.

The Hub will return 2 integers :

- **critical** : Number of critical anomalies. A critical anomaly is an employee trace without EndDate.
- **Medium** : Number of medium anomalies. A medium anomaly is an employee trace that is not linked to any event. Someone who work outside of a planned period.

When you found anomalies, end user will have to supervise traces using WorkinTIME interfaces.
Hub side, it help you highlight periods and/or employees that are attached to one or several anomalies.
We highly recommend you to check if there is no anomaly before using timeactivity/index method. This way, you ensure that computed reports deals only with relevant data.

Syntax of **anomalies** method is
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/timeactivity/anomalies/?from=TIMEACTIVITY_FROM&to=TIMEACTIVITY_TO&keyemployee=TIMEACTIVITY _KEYEMPLOYEE

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/timeactivity/anomalies/?from=2012-06-01 00:00:00&to=2012-06-08 00:00:00)

```
{"critical":"0","medium":"27"}
```

Surveys API {surveys}

Surveys API will be used to retrieve MoveWORK DataFORM surveys informations.
Global syntax for surveys API will always be
http://api.hub.movework.net/
KEY_DEV/KEY_PROJECT/surveys/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

Currently, surveys API will deal with control Quality. It will not be possible (yet) to deal with satisfaction survey or global forms. If you are interested in playing with these kind of surveys, please contact MoveWORK technical team with your use case.

Index {surveys/index} List all surveys structures

index is the default method used in surveys API.
It is used to list surveys global definition informations such as title and questions structures.

This method has several optional query string parameter such as « ***showall*** ».
By default ***index*** method will return the list of all active surveys. (showall=0)
If you want to list all surveys (active ones and deleted ones), you will have to use ***showall*** parameter with value 1.

Syntax of **index** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/surveys/
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ surveys /index

If you want to list all surveys (including deleted ones), use this call :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ surveys /?showall=1
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ surveys /index/?showall=0

Allowed values for parameter showall are
0 : only active surveys will be displayed (it's the default parameter value.
1 : active and deleted surveys will be displayed.

Other optional query string parameters are :

- **keysurvey** : You can enter a specific keysurvey to display structure only for this survey.
- **keycodesite** : You can enter a keycodesite identifying an existing activity locations (see related API in this documentation). If filled, only surveys restricted to this activity location or one of the group of locations (that contain this activity location) will be returned.
- **leveldepth** : By default -1 (for all), this parameter let you simplify the questions structure returned. If you want only to display questions based on level1 and 2 of all existing level, simply indicate 2 for this parameter. Root level start with value 1 (not 0)

One row will be returned for each survey matching your query string parameter. Each row will be structured with these columns :

- **keysurvey** : Unique identifier of a survey.
- **surveytitle** : Survey title
- **jsonSurveyQuestions** : A json encoded array describing the questions structure. Each question is a row in this array and each row is a hashmap with these columns :
    - **questionLevelIds** : An array listing ID of each level for given question. For Example [1,1-1,1-1]. The last column is the current question level.
    - **questionLevelLabels** : An array listing label of each level for given questions. Each index of this table is matching **questionlevelids** parameters of course
    - **questionLevelRatios** : An array listing ratio of each level for given questions. Each index of this table is matching **questionlevelids** parameters of course. Each question is weighted by his level ratio. If current question is level 3 (depth), with these ration : [1,2,5], the current question ratio is 10 (1x2x5) (which will stored in parameter **questionTotalRatio**.
    - **questionTotalRatio** : Total ratio for current question.
    - **questionLabel** : Label of the current question
    - **questionIsMandatory** : boolean indicating if answering this question if mandatory in the current survey.
    - **questionJsonAllowedAnswersDetails** : An array detailing structure of allowed answers (multiple choice one). Could have multiple rows with this syntax :
        - **name** : ID of the answer choice
        - **value** : Value of the answer choice. (only this one should interresting you)
        - **label** : Label of the answer choice.
- **Deleted** Boolean indicating if current survey is deleted or not.
- **field1** Optional field that could came from external datasource (than MoveWORK) and store additional info related to the current survey.
- **field2** Optional field that could came from external datasource (than MoveWORK) and store additional info related to the current survey.
- **field3** Optional field that could came from external datasource (than MoveWORK) and store additional info related to the current survey.
- **field4** Optional field that could came from external datasource (than MoveWORK) and store additional info related to the current survey.
- **datasource** : DataSource key indicating from which source the current survey was created.If empty, it is MoveWORK side
- **datasourcedetail** Optional detail information on datasource (string)

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/surveys/) is :


```
[{"keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
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Answers {surveys/answers} List all answers for a given survey

This method is used to list all answers to a given survey for a given time frame.
If you are just looking to grab global weighted scores, please jump to next method weightedscores.

This method (***answers/***) is more intented to list raw answers and let you import it in your own environment or BI tools.

To retrieve these answers, you can use these query string parameters :

- **keysurvey** [mandatory] : Indicate the survey you are interested by. This is a mandatory parameter.
- **from** [mandatory] : DateTime (YYYY-MM-DD HH :II :SS) from which retrieving answers. Each answer is attached to a datetime.
- **to** [mandatory] : DateTime (YYYY-MM-DD HH :II :SS) up to which retrieving answers. Each answer is attached to a datetime. The difference between **from** and **to** must be less or equals to 15 days. If you want to retrieve answers for a larger period, you simply have to send more http request by bunch of 15 days.
- **keycodesite** : Optional parameter to filter on answers recorded for a given activity location.
- **hidejsoncolumns** : Optional parameter used to hide JSON formated columns in results (**questionLevelIds , questionLevelLabels, questionLevelRatios**). By default it is set to false. But use it with value « true » if you are interrested by the CSV format. It will avoid some difficulties your side when parsing CSV.
- **Showall** : Optional parameter to retrieve answers from deleted surveys. By default will be showall=0 which mean only answers related to active survey.

http response will be formatted with these columns :

- **answerDate** : answer datetime (YYYY-MM-DD HH :II :SS)
- **answerKeyCodeSite** If current answered survey was made for a given known activity location, this column will fill keycodesite info.
- **answerSiteName** If current answered survey was made for a given known activity location, this column will fill activity location name info.
- **answerSiteCategoryName** : activitylocation category name (used if ratio are override for specific survey level(s)
- **surveyAnswersId** Unique ID that identify survey answer (wich mean bunch of answers given within a single survey reply)
- **answerId** Unique ID for a single question answered. Single answer ID
- **answerLabel** Label of the selected answer
- **answerValue** Non weighted answer value
- **answerTotalRatio** Total answer ratio
- **answerWeightedValue** Weighted answer value (float with 2 decimal)
- **keysurvey** unique survey identifier
- **surveytitle** survey title
- **questionLevelIds** : An array listing ID of each level for given question. For Example [1,1-1,1-1]. The last column is the current question level.
- **questionLevelLabels** : An array listing label of each level for given questions. Each index of this table is matching **questionlevelids** parameters of course
- **questionLevelRatios** : An array listing ratio of each level for given questions. Each index of this table is matching **questionlevelids** parameters of course. Each question is weighted by his level ratio. If current question is level 3 (depth), with these ration : [1,2,5], the current question ratio is 10 (1x2x5) (which will stored in parameter **questionTotalRatio**.
- **questionTotalRatio** : Total ratio for current question.
- **questionId** question unique ID for within survey

- **questionModelId** Question model ID. One question is repeated among all levels. ***questionId*** will be unique while ***questionModelId*** will help you identify these repeated questions.
- **questionLabel** : Label of the current question
- **Deleted** Boolean indicating if current survey is deleted or not.
- **field1** Optional field that could came from external datasource (than MoveWORK) and store additional info related to the current survey.
- **field2** Optional field that could came from external datasource (than MoveWORK) and store additional info related to the current survey.
- **field3** Optional field that could came from external datasource (than MoveWORK) and store additional info related to the current survey.
- **field4** Optional field that could came from external datasource (than MoveWORK) and store additional info related to the current survey.
- **activitylocation_field1** If current answered survey was made for a given known activity location, this column will fill field1 from activitylocation info.
- **activitylocation_field2** If current answered survey was made for a given known activity location, this column will fill field2 from activitylocation info.
- **activitylocation_field3** If current answered survey was made for a given known activity location, this column will fill field3 from activitylocation info.
- **activitylocation_field4** If current answered survey was made for a given known activity location, this column will fill field4 from activitylocation info.
- **datasource** : DataSource key indicating from which source the current survey was created.If empty, it is MoveWORK side
- **datasourcedetail** Optional detail information on datasource (string)

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/surveys/answers/?keysurvey=MYKEYSURVEY&from=2018-08-16 00 :00 :00&to=2018-08-30 23 :59 :59) is :


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qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","questionLevelIds":"[\"7\",\"7-4\"]","questionLeve
lLabels":"[\"Divers : Pi\\u00e8tements, plinthes, radiateurs, rebords
fen\\u00eatres, d\\u00e9tecteurs d'intrusion...\",\"Pr\\u00e9sence de
```

```
Salissures
adh\\u00e9rentes\"]","questionLevelRatios":"[\"1\",\"1\"]","questionTota
lRatio":1,"questionId":"7-4-ui-id-416","questionModelId":"ui-id-416","qu
estionLabel":"Constat","deleted":"0","field1":null,"field2":null,"field3
":null,"field4":null,"activitylocation_field1":null,"activitylocation_fi
eld2":null,"activitylocation_field3":null,"activitylocation_field4":null
,"datasource":null,"datasourcedetail":null},{"answerDate":"2018-08-16
17:37:53","answerKeyCodeSite":"MYKEYCODESITE","answerSiteName":"Etage
bureaux commerciaux -
Bureaux","surveyAnswersId":"199360","answerId":"674971","answerLabel":"O
ui","answerValue":"1","answerTotalRatio":1,"answerWeightedValue":1,"keys
urvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","questionLevelIds":"[\"8\",\"8-1\"]","questionLeve
lLabels":"[\"Vitrerie\",\"Pr\\u00e9sence de traces et\\\/ou de
r\\u00e9sidus de
produit\"]","questionLevelRatios":"[\"1\",\"1\"]","questionTotalRatio":1
,"questionId":"8-1-ui-id-416","questionModelId":"ui-id-416","questionLab
el":"Constat","deleted":"0","field1":null,"field2":null,"field3":null,"f
ield4":null,"activitylocation_field1":null,"activitylocation_field2":nul
l,"activitylocation_field3":null,"activitylocation_field4":null,"datasou
rce":null,"datasourcedetail":null},{"answerDate":"2018-08-16
17:37:53","answerKeyCodeSite":"MYKEYCODESITE","answerSiteName":"Etage
bureaux commerciaux -
Bureaux","surveyAnswersId":"199360","answerId":"674974","answerLabel":"O
ui","answerValue":"1","answerTotalRatio":1,"answerWeightedValue":1,"keys
urvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","questionLevelIds":"[\"8\",\"8-2\"]","questionLeve
lLabels":"[\"Vitrerie\",\"Pr\\u00e9sence de
t\\u00e2ches\"]","questionLevelRatios":"[\"1\",\"1\"]","questionTotalRat
io":1,"questionId":"8-2-ui-id-416","questionModelId":"ui-id-416","questi
onLabel":"Constat","deleted":"0","field1":null,"field2":null,"field3":nu
ll,"field4":null,"activitylocation_field1":null,"activitylocation_field2
":null,"activitylocation_field3":null,"activitylocation_field4":null,"da
tasource":null,"datasourcedetail":null}]
```

Weightedscores {surveys/weightedscores} List weighted scores for a given survey

Method used to synthetize the weighted scores based on a given survey bunch of answers.
Answers will be limited to a 15 days time frame. You can send multiple requests to retrieved weighted scores for several 15days interval and rebuilt your side a month of weighted score for example.
We have limited to 15 days to maintain a good time response and limit our computation ressources server side.

To get weighted scores, you have to use these query string parameters :

- **keysurvey** [mandatory] : Indicate the survey you are interested by. This is a mandatory parameter.
- **from** [mandatory] : DateTime (YYYY-MM-DD HH :II :SS) from which retrieving answers.
- **to** [mandatory] : DateTime (YYYY-MM-DD HH :II :SS) up to which retrieving answers. The difference between **from** and **to** must be less or equals to 15 days. If you want to retrieve answers for a larger period, you simply have to send more http request by bunch of 15 days.
- **keycodesite** : Optional parameter to filter on answers recorded for a given activity location.
- **groupbylevel**: Optional parameter (1/0) to group results by level. It means we will return one row per existing level.
- **groupbysite** : Optional parameter(1/0) to group results by known keycodesite (from actvitylocation). It means we will return one row per existing activity location. If you group results both by level and site, we will return one row per combination of level-site.
- **leveldepth** : Optional parameter used only if groupebylevel=1. It will return one row per level limited to given level depth. Root level start with value 1 (not 0)

http response will be formatted in ‘ differents structure depending on if you group of not results.

WeightedScores not grouped

grouplevel=0 and **groupsite**=0 (or not mentioned). In this scenario we will return only 1 row standing for the global weighted score for given survey and given period.
Result will have this syntax :

- **keysurvey** unique survey identifier
- **surveytitle** survey title
- **from** : remind the given from input parameter in YYYY-MM-DD HH :II :SS format.
- **to** : remind the given from input parameter in YYYY-MM-DD HH :II :SS format.
- **weightedscore** : Return the total weighted score for a total rank of 10. Format will be X/10 (for example 3/10 or 2.05/10) with 2 decimails digit.
- **surveyAnswersCount** : number of survey filled (bunch of answers). Really important to take it into account on your side. 2 answers wit ha bad weighted scores is not a confident score where 300 answers will.
- **answersCount** : Number of single answers (meaning point of controls).
- **datetimeOldestAnswer** : datetime of the oldest answer (in the from-to time range). YYYY-MM-DD HH :II :SS format.
- **datetimeLastestAnswer** : datetime of the latest answer (in the from-to time range). YYYY-MM-DD HH :II :SS format.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/surveys/weightedscores/?keysurvey=MYKEYSURVEY&from=2018-08-16 00 :00 :00&to=2018-08-30 23 :59 :59) is :


```
[{"keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-30
23:59:59","weightedscore":"6.53\/10","surveyAnswersCount":10,"answersCou
nt":210,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-22 11:40:14"}]
```

WeightedScores grouped by level

grouplevel=1 and **groupsite**=0.In this scenario we will return 1 row per level (eventually restricted to **leveldepth** if you fill this parameter too) for given survey and given period.

Each returned row (level) will have this syntax :

- **groupId** ID of the current row (level)
- **questionLevelLabels** : An array listing label of each level up to current grouped level. The current weightedscore computed is the one of the last index of this array
- **keysurvey** unique survey identifier
- **surveytitle** survey title
- **from** : remind the given from input parameter in YYYY-MM-DD HH :II :SS format.
- **to** : remind the given from input parameter in YYYY-MM-DD HH :II :SS format.
- **weightedscore** : Return the total weighted score for a total rank of 10. Format will be X/10 (for example 3/10 or 2.05/10) with 2 decimails digit.
- **surveyAnswersCount** : number of survey filled (bunch of answers). Really important to take it into account on your side. 2 answers wit ha bad weighted scores is not a confident score where 300 answers will.
- **answersCount** : Number of single answers (meaning point of controls).
- **datetimeOldestAnswer** : datetime of the oldest answer (in the from-to time range). YYYY-MM-DD HH :II :SS format.
- **datetimeLastestAnswer** : datetime of the latest answer (in the from-to time range). YYYY-MM-DD HH :II :SS format.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/surveys/weightedscores/?keysurvey=MYKEYSURVEY&from=2018-08-16 00 :00 :00&to=2018-08-30 23 :59 :59&groupbylevel=1) is :


```
[{"groupId":1,"questionLevelLabels":"[\"Sol\"]","keysurvey":"MYKEYSURVEY
","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":1,"answersCount"
:5,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"1-1","questionLevelLabels":"[\"Sol\",\"Pr\\u00e9s
ence de poussi\\u00e8re
visible\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":1,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"1-2","questionLevelLabels":"[\"Sol\",\"Pr\\u00e9s
ence de
D\\u00e9chets\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u
00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"1-3","questionLevelLabels":"[\"Sol\",\"Pr\\u00e9s
```

```
ence
d'Encrassement\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\
u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"1-4","questionLevelLabels":"[\"Sol\",\"Pr\\u00e9s
ence de Salissures
adh\\u00e9rentes\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c
3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"1-5","questionLevelLabels":"[\"Sol\",\"Trace de
lavage\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":2,"questionLevelLabels":"[\"Manuport\\u00e9 :
interrupteurs, poign\\u00e9es,
rambardes\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4
le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:3,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"2-1","questionLevelLabels":"[\"Manuport\\u00e9 :
interrupteurs, poign\\u00e9es, rambardes\",\"Pr\\u00e9sence de
poussi\\u00e8re
visibles\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4l
e qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"2-2","questionLevelLabels":"[\"Manuport\\u00e9 :
interrupteurs, poign\\u00e9es, rambardes\",\"Pr\\u00e9sence
d'Encrassement\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\
u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"2-3","questionLevelLabels":"[\"Manuport\\u00e9 :
interrupteurs, poign\\u00e9es, rambardes\",\"Pr\\u00e9sence de
Salissures
adh\\u00e9rentes\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c
3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat
```

```
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":3,"questionLevelLabels":"[\"Poubelles\"]","keysurv
ey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9
: Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:3,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"3-1","questionLevelLabels":"[\"Poubelles\",\"Pr\\
u00e9sence de D\\u00e9chets \\u00e0
l'int\\u00e9rieur\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00
c3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"3-2","questionLevelLabels":"[\"Poubelles\",\"Abse
nce de sac
poubelle\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4l
e qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"3-3","questionLevelLabels":"[\"Poubelles\",\"Pr\\
u00e9sence de Salissures
adh\\u00e9rentes\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c
3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":4,"questionLevelLabels":"[\"Mobilier\"]","keysurve
y":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 :
Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:5,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"4-1","questionLevelLabels":"[\"Mobilier\",\"Pr\\u
00e9sence de poussi\\u00e8re
visible\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"4-2","questionLevelLabels":"[\"Mobilier\",\"Pr\\u
00e9sence de
```

```
D\\u00e9chets\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u
00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"4-3","questionLevelLabels":"[\"Mobilier\",\"Pr\\u
00e9sence de traces de
doigts\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"4-4","questionLevelLabels":"[\"Mobilier\",\"Pr\\u
00e9sence de Salissures
adh\\u00e9rentes\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c
3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"4-5","questionLevelLabels":"[\"Mobilier\",\"Trace
de
lavage\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":7,"questionLevelLabels":"[\"Divers :
Pi\\u00e8tements, plinthes, radiateurs, rebords fen\\u00eatres,
d\\u00e9tecteurs
d'intrusion...\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\
u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:4,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"7-1","questionLevelLabels":"[\"Divers :
Pi\\u00e8tements, plinthes, radiateurs, rebords fen\\u00eatres,
d\\u00e9tecteurs d'intrusion...\",\"Pr\\u00e9sence de poussi\\u00e8re
visibles\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4l
e qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"7-2","questionLevelLabels":"[\"Divers :
Pi\\u00e8tements, plinthes, radiateurs, rebords fen\\u00eatres,
d\\u00e9tecteurs d'intrusion...\",\"Pr\\u00e9sence de toiles
d'araign\\u00e9es\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00
```

```
c3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"7-3","questionLevelLabels":"[\"Divers :
Pi\\u00e8tements, plinthes, radiateurs, rebords fen\\u00eatres,
d\\u00e9tecteurs d'intrusion...\",\"Pr\\u00e9sence
d'Encrassement\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\
u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"7-4","questionLevelLabels":"[\"Divers :
Pi\\u00e8tements, plinthes, radiateurs, rebords fen\\u00eatres,
d\\u00e9tecteurs d'intrusion...\",\"Pr\\u00e9sence de Salissures
adh\\u00e9rentes\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c
3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":8,"questionLevelLabels":"[\"Vitrerie\"]","keysurve
y":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 :
Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:2,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"8-1","questionLevelLabels":"[\"Vitrerie\",\"Pr\\u
00e9sence de traces et\\\/ou de r\\u00e9sidus de
produit\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le
qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"8-2","questionLevelLabels":"[\"Vitrerie\",\"Pr\\u
00e9sence de
t\\u00e2ches\"]","keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u0
0b4le qualit\u00c3\u00a9 : Site Poujoulat
consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16 17:37:53"}]
```

WeightedScores grouped by site

grouplevel=0 and **groupsite**=0 In this scenario we will return only 1 row per known activity location for given survey and given period.

Each returned row (keycodesite) will have this syntax :

- **groupId** ID of the current row (keycodesite)
- **answerKeyCodeSite :** keycodesite of given weighted score row
- **answerSiteName** : activitylocation name
- **answerSiteCategoryName** : activitylocation category name (used if ratio are override for specific survey level(s)
- **activitylocation_field1** this column will fill field1 from activitylocation info.
- **activitylocation_field2** this column will fill field2 from activitylocation info.
- **activitylocation_field3** this column will fill field3 from activitylocation info.
- **activitylocation_field4** this column will fill field4 from activitylocation info.
- **keysurvey** unique survey identifier
- **surveytitle** survey title
- **from** : remind the given from input parameter in YYYY-MM-DD HH :II :SS format.
- **to** : remind the given from input parameter in YYYY-MM-DD HH :II :SS format.
- **weightedscore** : Return the total weighted score for a total rank of 10. Format will be X/10 (for example 3/10 or 2.05/10) with 2 decimails digit.
- **surveyAnswersCount** : number of survey filled (bunch of answers). Really important to take it into account on your side. 2 answers wit ha bad weighted scores is not a confident score where 300 answers will.
- **answersCount** : Number of single answers (meaning point of controls).
- **datetimeOldestAnswer** : datetime of the oldest answer (in the from-to time range). YYYY-MM-DD HH :II :SS format.
- **datetimeLastestAnswer** : datetime of the latest answer (in the from-to time range). YYYY-MM-DD HH :II :SS format.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/surveys/weightedscores/?keysurvey=MYKEYSURVEY&from=2018-08-16 00 :00 :00&to=2018-08-30 23 :59 :59&groupbysite=1) is :


```
[{"groupId":MYKEYCODESITE,"answerKeyCodeSite":"MYKEYCODESITE","answerSiteName":"Etage bureaux commerciaux - Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"activitylocation_field3":null,"activitylocation_field4":null,"keysurvey":"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 : Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16 00:00:00","to":"2018-08-16 17:59:59","weightedscore":"10\/10","surveyAnswersCount":1,"answersCount":22,"datetimeOldestAnswer":"2018-08-16 17:37:53","datetimeLastestAnswer":"2018-08-16 17:37:53"}]
```

WeightedScores grouped both by level and site

grouplevel=1 and **groupsite**=1. In this scenario we will return 1 row per level/site couple (eventually restricted to **leveldepth** if you fill this parameter too) for given survey and given period.

Each returned row (level-keycodesite couple) will have this syntax :

- **groupId** ID of the current row (level-keycodesite)
- **answerFinalLevel :** Level ID of given weighted score row
- **answerKeyCodeSite :** keycodesite of given weighted score row
- **questionLevelLabels** : An array listing label of each level up to current grouped level. The current weightedscore computed is the one of the last index of this array
- **answerSiteName** : activitylocation name
- **answerSiteCategoryName** : activitylocation category name (used if ratio are override for specific survey level(s)
- **activitylocation_field1** this column will fill field1 from activitylocation info.
- **activitylocation_field2** this column will fill field2 from activitylocation info.
- **activitylocation_field3** this column will fill field3 from activitylocation info.
- **activitylocation_field4** this column will fill field4 from activitylocation info.
- **keysurvey** unique survey identifier
- **surveytitle** survey title
- **from** : remind the given from input parameter in YYYY-MM-DD HH :II :SS format.
- **to** : remind the given from input parameter in YYYY-MM-DD HH :II :SS format.
- **weightedscore** : Return the total weighted score for a total rank of 10. Format will be X/10 (for example 3/10 or 2.05/10) with 2 decimails digit.
- **surveyAnswersCount** : number of survey filled (bunch of answers). Really important to take it into account on your side. 2 answers wit ha bad weighted scores is not a confident score where 300 answers will.
- **answersCount** : Number of single answers (meaning point of controls).
- **datetimeOldestAnswer** : datetime of the oldest answer (in the from-to time range). YYYY-MM-DD HH :II :SS format.
- **datetimeLastestAnswer** : datetime of the latest answer (in the from-to time range). YYYY-MM-DD HH :II :SS format.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/surveys/weightedscores/?keysurvey=MYKEYSURVEY&from=2018-08-16 00 :00 :00&to=2018-08-30 23 :59 :59&groupbylevel=1&groupbysite=1) is :


```
[{"groupId":"1-MYKEYCODESITE","answerFinalLevel":"1","answerKeyCodeSite"
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ge bureaux commerciaux -
Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"
activitylocation_field3":null,"activitylocation_field4":null,"keysurvey"
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Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":1,"answersCount"
:5,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"1-1-MYKEYCODESITE","answerFinalLevel":"1-1","answ
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e9sence de poussi\\u00e8re visible\"]","answerSiteName":"Etage bureaux
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e9sence de D\\u00e9chets\"]","answerSiteName":"Etage bureaux commerciaux
-
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erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Sol\",\"Pr\\u00
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yCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Manuport\\u00e9 :
interrupteurs, poign\\u00e9es, rambardes\"]","answerSiteName":"Etage
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Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"
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17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
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17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"2-1-MYKEYCODESITE","answerFinalLevel":"2-1","answ
erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Manuport\\u00e9
: interrupteurs, poign\\u00e9es, rambardes\",\"Pr\\u00e9sence de
poussi\\u00e8re visibles\"]","answerSiteName":"Etage bureaux commerciaux
-
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erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Manuport\\u00e9
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d'Encrassement\"]","answerSiteName":"Etage bureaux commerciaux -
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erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Manuport\\u00e9
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rSiteName":"Etage bureaux commerciaux -
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erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Mobilier\",\"Pr
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erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Mobilier\",\"Pr
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Pi\\u00e8tements, plinthes, radiateurs, rebords fen\\u00eatres,
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17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
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17:37:53"},{"groupId":"7-2-MYKEYCODESITE","answerFinalLevel":"7-2","answ
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Pi\\u00e8tements, plinthes, radiateurs, rebords fen\\u00eatres,
d\\u00e9tecteurs d'intrusion...\",\"Pr\\u00e9sence de toiles
d'araign\\u00e9es\"]","answerSiteName":"Etage bureaux commerciaux -
Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"
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d'Encrassement\"]","answerSiteName":"Etage bureaux commerciaux -
Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"
activitylocation_field3":null,"activitylocation_field4":null,"keysurvey"
:"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 :
Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"7-4-MYKEYCODESITE","answerFinalLevel":"7-4","answ
erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Divers :
Pi\\u00e8tements, plinthes, radiateurs, rebords fen\\u00eatres,
d\\u00e9tecteurs d'intrusion...\",\"Pr\\u00e9sence de Salissures
adh\\u00e9rentes\"]","answerSiteName":"Etage bureaux commerciaux -
Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"
activitylocation_field3":null,"activitylocation_field4":null,"keysurvey"
:"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 :
Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"8-MYKEYCODESITE","answerFinalLevel":"8","answerKe
yCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Vitrerie\"]","answe
rSiteName":"Etage bureaux commerciaux -
Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"
activitylocation_field3":null,"activitylocation_field4":null,"keysurvey"
:"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 :
Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:2,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"8-1-MYKEYCODESITE","answerFinalLevel":"8-1","answ
erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Vitrerie\",\"Pr
\\u00e9sence de traces et\\\/ou de r\\u00e9sidus de
produit\"]","answerSiteName":"Etage bureaux commerciaux -
Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"
activitylocation_field3":null,"activitylocation_field4":null,"keysurvey"
:"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 :
Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16
17:37:53"},{"groupId":"8-2-MYKEYCODESITE","answerFinalLevel":"8-2","answ
```

```
erKeyCodeSite":"MYKEYCODESITE","questionLevelLabels":"[\"Vitrerie\",\"Pr
\\u00e9sence de t\\u00e2ches\"]","answerSiteName":"Etage bureaux
commerciaux -
Bureaux","activitylocation_field1":null,"activitylocation_field2":null,"
activitylocation_field3":null,"activitylocation_field4":null,"keysurvey"
:"MYKEYSURVEY","surveytitle":"Contr\u00c3\u00b4le qualit\u00c3\u00a9 :
Site Poujoulat consolid\u00c3\u00a9","from":"2018-08-16
00:00:00","to":"2018-08-16
17:59:59","weightedscore":"10\/10","surveyAnswersCount":0,"answersCount"
:1,"datetimeOldestAnswer":"2018-08-16
17:37:53","datetimeLastestAnswer":"2018-08-16 17:37:53"}]
```

Scenarios API {scenarios}

Scenarios API will be used to retrieve MoveWORK CentralDESK scenarios informations.
Global syntax for scenarios API will always be
http://api.hub.movework.net/
KEY_DEV/KEY_PROJECT/scenarios/METHOD_NAME/QUERY_STRING?format=OUTPUT_FORMAT

- A scenario instance is an opened or archived workflows that could have several phases (new,running,closed,canceled) and several customized steps (for example : new request received,validated request,planned,pending,completed,quality control pending,closed). It is digitalizing a company process.
- Each scenario has one definition (scenario Definition) that defines SLAs, default stakeholders,…
- Each scenario definition has 1 or several customized steps (each step fit to one existing phase)
- For each scenario instance it is possible to get all comments or add one comment.

Index {scenarios/index} List all scenarios instances

index is the default method used in scenarios API.
It is used to list scenarios instances.

This method has several optional query string parameter such as « ***showall*** ».
By default ***index*** method will return the list of « active » scenarios which means CLOSED and CANCELED scenarios won't be included by default. (showall=0).
If you want to list all scenarios instances (active ones and closed/canceled ones), you will have to use ***showall*** parameter with value 1.

Syntax of **index** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/scenarios/
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ scenarios /index

If you want to list all scenarios (including closed/canceled ones), use this call :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ scenarios /?showall=1
or
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ scenarios /index/?showall=0

Allowed values for parameter showall are
0 : only active scenarios will be displayed (it's the default parameter value).
1 : active and closed/canceleds scenarios will be displayed.

Other optional query string parameters are :

- **from** : If entered, it will display only scenarios instances created from this datetime. Format will be YYYY-MM-DD HH:II:SS. If not filled and if you asked for all scenarios (showall=1), it will use as a default value D-30 from now (or from parameter « to » if you fil it). The idea is to avoid overflooding you with data if this is not what you are intended.
- **to** : If entered, i twill display only scenarios instances created from this datetime. Format will be YYYY-MM-DD HH:II SS

- **keydefinition** : unique key idenfying the definition attached to instances to list. (see */getdefinitions* method to grab all existing scenario definitions). It will defined what are the available scenarios steps and so on (see also */getdefinitionsteps*)
- **priority_eisenhower** : Einsenhower priority value.
    - -1 stands for « not important and not urgent »
    - 0 stands for « not prioritized »
    - 10 stands for « not important and urgent »
    - 100 stands for « important and not urgent »
    - 1000 stands for « important and urgent »
- **step_phase** : Generic phase of instance.
    - **NEW :** new instance
    - **RUNNING :** running instance, « pending » mode
    - **CLOSED :** closed instance (done and archived)
    - **CANCELED :** canceled instance (not done and archived)
- **keystep** :filter on current scenario step key. See */getdefinitionsteps* method for more details.
- **step_name** :filter on current scenario step name. It will have to be an exact match
- **keycodesite** : activitylocations unique key attached to scenarios instances
- **field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **showStepFormAsRawPdf**: [not mandatory]. By default 0. If 1, and if given scenario instance row is attached to a MoveWORK form (form or quality control), the related filled form will be returned as a raw pdf file content base64 encoded for the sake of json format **(do not forget to base64 decode to have it in binary pdf)**. CAUTION :it can increase dramatically the size of the http response and the duration of the query execution. If set to 1, **keyinstance** parameter is mandatory for request loading reason.
- **keyinstance** : [not mandatory]. Filtered scenario instance. This parameter is mandatory if **showStepFormAsRawPdf** is 1.

One row will be returned for each scenario instance matching your query string parameter. Each row will be structured with these columns :

- **keyinstance :** unique key identifying the scenario instance.
- **keydefinition** : unique key idenfying the definition attached to instance. (see */getdefinitions* method to grab all existing scenario definitions). It will defined what are the available scenarios steps and so on (see also */getdefinitionsteps*)
- **scenarioname** : scenario display name.
- **sla_scenario_inmin** : if defined, SLA of the scenario instance in minutes.
- **sla_step_inmin** : if defined, SLA of the current step
- **priority_eisenhower** : Einsenhower priority value.
    - -1 stands for « not important and not urgent »
    - 0 stands for « not prioritized »
    - 10 stands for « not important and urgent »
    - 100 stands for « important and not urgent »
    - 1000 stands for « important and urgent »
- **subject :** subject of the scenario instance. Filled when creating the instance
- **description :** description of the scenario instance. Filled when creating the instance
- **keystep** : current scenario step key. See */getdefinitionsteps* method for more details.
- **step_phase** : Generic phase of instance.
    - **NEW :** new instance
    - **RUNNING :** running instance, « pending » mode
    - **CLOSED :** closed instance (done and archived)
    - **CANCELED :** canceled instance (not done and archived)
- **step_name** : current scenario step name.
- **creator_name :** name of the creator of the instance. Could be a person, a movework account name or some automations names.
- **creator_email :** if relevant, email address of the creator
- **stakeholder_name :** name of the stakeholder of current step.
- **keycodesite** : activitylocations unique key attached to scenario instance
- **activitylocation_name :** name of the activitylocation attached to scenario instance
- **zipcode :** zipcode of the activitylocation attached to scenario instance
- **city :** city of the activitylocation attached to scenario instance
- **datetime_creation :** date time YYYY-MM-DD HH:II:SS when instance was created
- **datetime_opened :** date time YYYY-MM-DD HH:II:SS when instance was opened (reaching 1st RUNNING step for the 1st time)
- **datetime_closed :** date time YYYY-MM-DD HH:II:SS when instance was closed (or canceled)
- **datetime_deadline:** date time YYYY-MM-DD HH:II:SS of humans estimated duedate
- **datetime_predictive_deadline :** date time YYYY-MM-DD HH:II:SS of predictive enddate (based on SLA and some MoveWORK AI)
- **predictive_delay_inmin :** predictive delay in minutes based on SLA and some MoveWORK AI .
- **field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

- **stepformAsRawPdf** : only filled if **showStepFormAsRawPdf** query parameter was set to 1. Will be the raw binary pdf content base64 encoded for the sake of json format **(do not forget to base64 decode to have it in binary pdf)**

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/scenarios/) is :


```
[{"keyinstance":19639,"keydefinition":2272,"scenarioname":"cleaning
hotel
room","sla_scenario_inmin":90,"sla_step_inmin":10,"priority_eisenhower":
10,"subject":"Clean room 102","description":"Please clean up the room
before entrance of next
customer","keystep":226,"step_phase":"CLOSED","step_name":"Cleaned","cre
ator_name":"John Doe","creator_email":null,"stakeholder_name":"Mickael
Jordan","keycodesite":1234,"activitylocation_name":”Room
102”,"zipcode":75000,"city":”Paris”,"datetime_creation":"2020-03-03
11:37:00","datetime_opened":"2020-03-03
12:06:05","datetime_closed":"2020-03-06
10:38:20","datetime_deadline":null,"datetime_predictive_deadline":null,"
predictive_delay_inmin":null,"field1":null,"field2":null,"field3":null,"
field4":null},{"keyinstance":19639,"keydefinition":2272,"scenarioname":"
cleaning hotel
room","sla_scenario_inmin":90,"sla_step_inmin":10,"priority_eisenhower":
10,"subject":"Clean room 103","description":"Please clean up the room
103 before entrance of next
customer","keystep":226,"step_phase":"CLOSED","step_name":"Cleaned","cre
ator_name":"John Doe","creator_email":null,"stakeholder_name":"Mickael
Jordan","keycodesite":1235,"activitylocation_name":”Room
103”,"zipcode":75000,"city":”Paris”,"datetime_creation":"2020-03-03
11:37:00","datetime_opened":"2020-03-03
12:06:05","datetime_closed":"2020-03-06
10:38:20","datetime_deadline":null,"datetime_predictive_deadline":null,"
predictive_delay_inmin":null,"field1":null,"field2":null,"field3":null,"
field4":null}]
```


Caution, if you enter a bad *step_phase* filter or a bad *priority_eisenhower* you will generate an **error 400**


```
{"errorCode":400,"message":"If  filled, field step_phase must be a known
value. Unknown value given [myBadVal]"}
```



```
{"errorCode":400,"message":"If  filled, field priority_eisenhower must
be a known value. Unknown value given [myBadVal]"}
```


Trying to filter with *showStepFormAsRawPdf*=1 but without *keyinstance* :


```
{"errorCode":400,"message":"When showStepFormAsRawPdf field is set to 1,
keyinstance has to be filled too !"}
```

Getdefinitions {scenarios/getdefinitions} List all scenarios definitions

The */getdefinitions* method list all existing scenario definitions for your MoveWORK Hub account.
Each scenario instance will have none or one scenarioDefinition ***keydefinition***.

You won't be able to create no redit scenario definition using the Hub. You will only have access to this in readonly mode as these data is highly related to the business logics and business rules of MoveWORK products.

No http get filters nor parameters will be allowed. You will have access to the exhaustive list of scenario definitions.

One row will be returned for each scenario definitions. Each row will be structured with these columns :

- **keyinstance :** unique key identifying the scenario instance.
- **keydefinition** : unique key idenfying the definition attached to instance. (see */getdefinitions* method to grab all existing scenario definitions). It will defined what are the available scenarios steps and so on (see also */getdefinitionsteps*)
- **scenarioname** : scenario display name.
- **sla_scenario_inmin** : if defined, SLA of the scenario instance in minutes.
- **sla_step_inmin** : if defined, SLA of the current step
- **priority_eisenhower** : Einsenhower priority value.
    - -1 stands for « not important and not urgent »
    - 0 stands for « not prioritized »
    - 10 stands for « not important and urgent »
    - 100 stands for « important and not urgent »
    - 1000 stands for « important and urgent »
- **subject :** subject of the scenario instance. Filled when creating the instance
- **description :** description of the scenario instance. Filled when creating the instance
- **keystep** : current scenario step key. See */getdefinitionsteps* method for more details.
- **step_phase** : Generic phase of instance.
    - **NEW :** new instance
    - **RUNNING :** running instance, « pending » mode
    - **CLOSED :** closed instance (done and archived)
    - **CANCELED :** canceled instance (not done and archived)
- **step_name** : current scenario step name.
- **step_forks_allowed** : 1/0 : 1 if current step allows forks. It means from this step we can move to any other steps (if current step is not in « closed » nor « canceled » phase)
- **creator_name :** name of the creator of the instance. Could be a person, a movework account name or some automations names.
- **creator_email :** if relevant, email address of the creator
- **stakeholder_name :** name of the stakeholder of current step.
- **keycodesite** : activitylocations unique key attached to scenario instance
- **activitylocation_name :** name of the activitylocation attached to scenario instance
- **zipcode :** zipcode of the activitylocation attached to scenario instance
- **city :** city of the activitylocation attached to scenario instance
- **datetime_creation :** date time YYYY-MM-DD HH:II:SS when instance was created
- **datetime_opened :** date time YYYY-MM-DD HH:II:SS when instance was opened (reaching 1st RUNNING step for the 1st time)
- **datetime_closed :** date time YYYY-MM-DD HH:II:SS when instance was closed (or canceled)
- **datetime_deadline:** date time YYYY-MM-DD HH:II:SS of humans estimated duedate

- **datetime_predictive_deadline :** date time YYYY-MM-DD HH:II:SS of predictive enddate (based on SLA and some MoveWORK AI)
- **predictive_delay_inmin :** predictive delay in minutes based on SLA and some MoveWORK AI .
- **field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/scenarios/getdefinitions) is :


```
[{"keyinstance":19639,"keydefinition":2272,"scenarioname":"cleaning
hotel
room","sla_scenario_inmin":90,"sla_step_inmin":10,"priority_eisenhower":
10,"subject":"Clean room 102","description":"Please clean up the room
before entrance of next
customer","keystep":226,"step_phase":"CLOSED","step_name":"Cleaned","ste
p_forks_allowed":0,"creator_name":"John
Doe","creator_email":null,"stakeholder_name":"Mickael
Jordan","keycodesite":1234,"activitylocation_name":"Room
102","zipcode":75000,"city":"Paris","datetime_creation":"2020-03-03
11:37:00","datetime_opened":"2020-03-03
12:06:05","datetime_closed":"2020-03-06
10:38:20","datetime_deadline":null,"datetime_predictive_deadline":null,"
predictive_delay_inmin":null,"field1":null,"field2":null,"field3":null,"
field4":null},{"keyinstance":19639,"keydefinition":2272,"scenarioname":"
cleaning hotel
room","sla_scenario_inmin":90,"sla_step_inmin":10,"priority_eisenhower":
10,"subject":"Clean room 103","description":"Please clean up the room
103 before entrance of next
customer","keystep":226,"step_phase":"CLOSED","step_name":"Cleaned","ste
p_forks_allowed":0,"creator_name":"John
Doe","creator_email":null,"stakeholder_name":"Mickael
Jordan","keycodesite":1235,"activitylocation_name":"Room
103","zipcode":75000,"city":"Paris","datetime_creation":"2020-03-03
11:37:00","datetime_opened":"2020-03-03
12:06:05","datetime_closed":"2020-03-06
10:38:20","datetime_deadline":null,"datetime_predictive_deadline":null,"
predictive_delay_inmin":null,"field1":null,"field2":null,"field3":null,"
field4":null}]
```

Getdefinitionsteps {scenarios/getdefinitionsteps} List all allowed steps for a given scenario definition

The */getdefinitionsteps* method list all existing scenario steps for a given scenario definition (or a given scenario instance).
Each scenario instance (and each scenario definition) will have at least 3 steps attached to existing phase (new,running,closed) and can have unlimited numbers of customized steps.

- **New** steps can be multiple but for a given scenario instance we will be able to go though only 1 new step and then continue to running steps (or closed/canceled ones).
- **Running** steps will be linears and end user will go though them like trains wagons (and will be able to jump some steps).
- **Closed** steps can be multiple but for a given scenario instance, when moved to one of the closed steps, scenario instance won't be able to change step anymore.
- **Canceled** steps can be multiple but for a given scenario instance, when moved to one of the closed steps, scenario instance won't be able to change step anymore.

Caution : this method is not listing all historical steps but the process definitions. It means, all steps « to follow » or that can be use within a given scenario definition.

One row will be returned for each step definition of given scenario definition. Each row will be structured with these columns :

- **keystep** : current scenario step key. See */getdefinitionsteps* method for more details.
- **step_phase** : Generic phase of instance.
  - **NEW :** new instance
  - **RUNNING :** running instance, « pending » mode
  - **CLOSED :** closed instance (done and archived)
  - **CANCELED :** canceled instance (not done and archived)
- **step_phaseorder** : (int) order of the given step in the global scenario definition process. If « step_forks_allowed » is 0, next step will be the one with phaseorder+1 (or one of the closed/canceled step).
- **step_name** : current scenario step name.
- **step_forks_allowed** : 1/0 : 1 if current step allows forks. It means from this step we can move to any other steps (if current step is not in « closed » nor « canceled » phase)
- **step_description :** description of given scenario step definition
- **step_icon**: current scenario step icon (font awesome icon name without extension)
- **sla_step_inmin** : current scenario step SLA in minutes.
- **stakeholder_name :** name of the stakeholder for this step.
- **keydefinition** : unique key idenfying the definition attached to instance. (see */getdefinitions* method to grab all existing scenario definitions). It will defined what are the available scenarios steps and so on (see also */getdefinitionsteps*)
- **scenarioname** : scenario display name.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/scenarios/getdefinitionsteps?keydefinition=2417) if missing parameter is :


```
[{"keystep":1261,"step_phase":"NEW","step_phaseorder":1,"step_name":"Bug
remont\u00e9 par
l'utilisateur","step_forks_allowed":0,"step_description":"","step_icon":
```

```
null,"sla_step_inmin":0,"stakeholder_name":null,"keydefinition":2417,"sc
enarioname":"R\u00e9solution de
bug"},{"keystep":1264,"step_phase":"NEW","step_phaseorder":2,"step_name"
:"Bug remont\u00e9 par le
support","step_forks_allowed":1,"step_description":"","step_icon":null,"
sla_step_inmin":0,"stakeholder_name":null,"keydefinition":2417,"scenario
name":"R\u00e9solution de
bug"},{"keystep":1263,"step_phase":"CLOSED","step_phaseorder":1,"step_na
me":"Bug
trait\u00e9","step_forks_allowed":0,"step_description":"","step_icon":nu
ll,"sla_step_inmin":0,"stakeholder_name":null,"keydefinition":2417,"scen
arioname":"R\u00e9solution de
bug"},{"keystep":1265,"step_phase":"CLOSED","step_phaseorder":2,"step_na
me":"Bug corrig\u00e9 avec rapport
d'information","step_forks_allowed":0,"step_description":"","step_icon":
null,"sla_step_inmin":0,"stakeholder_name":null,"keydefinition":2417,"sc
enarioname":"R\u00e9solution de
bug"},{"keystep":1266,"step_phase":"RUNNING","step_phaseorder":1,"step_n
ame":"Caract\u00e9risation du
bug","step_forks_allowed":0,"step_description":"","step_icon":null,"sla_
step_inmin":0,"stakeholder_name":null,"keydefinition":2417,"scenarioname
":"R\u00e9solution de
bug"},{"keystep":1267,"step_phase":"RUNNING","step_phaseorder":2,"step_n
ame":"Correction du
bug","step_forks_allowed":0,"step_description":"","step_icon":null,"sla_
step_inmin":0,"stakeholder_name":null,"keydefinition":2417,"scenarioname
":"R\u00e9solution de
bug"},{"keystep":1262,"step_phase":"CANCELED","step_phaseorder":1,"step_
name":"Demande
incompl\u00e8te","step_forks_allowed":0,"step_description":"","step_icon
":null,"sla_step_inmin":0,"stakeholder_name":null,"keydefinition":2417,"
scenarioname":"R\u00e9solution de bug"}]
```


You won't be able to create nor edit scenario steps definition using the Hub. You will only have access to this in readonly mode as these data is highly related to the business logics and business rules of MoveWORK products.

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/scenarios/getdefinitionsteps) if missing parameter is :


```
{"errorCode":400,"message":"One of these 2 parameters are mandatory !
keydefinition OR keyinstance."}
```

Gethistoricaldata{scenarios/gethistoricaldata} List all historical data for one or several scenario instances

The */gethistoricaldata* method list all existing scenario « scenario_event_type » that occurs :

- **STEP_CHANGE** events rely to events when a scenario is created or step is changed.
- **COMMENT** events rely to any human coments added to a given scenario instance and also system comments.

Using this method you can gather all data collected for all scenarios or filter data using parameters. Only « from » and/or « to » parameters are mandatory.

As a reminder, each step used for a given scenario will have a given phase (new,running,closed, canceled) and can have unlimited numbers of customized steps. Step phases are listed here :

- **New** steps can be multiple but for a given scenario instance we will be able to go though only 1 new step and then continue to running steps (or closed/canceled ones).
- **Running** steps will be linears and end user will go though them like trains wagons (and will be able to jump some steps).
- **Closed** steps can be multiple but for a given scenario instance, when moved to one of the closed steps, scenario instance won't be able to change step anymore.
- **Canceled** steps can be multiple but for a given scenario instance, when moved to one of the closed steps, scenario instance won't be able to change step anymore.

This */gethistoricaldata* method has several optional query string parameter.

Syntax of **gethistoricaldata** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ gethistoricaldata /QUERY_STRING

Mandatory parameters are (at least 1 of them) :

- **from** : If entered, it will display only scenarios instances created from this datetime. Format will be YYYY-MM-DD HH:II:SS. If not filled and if you asked for all scenarios (showall=1), it will use as a default value D-30 from now (or from parameter « to » if you fil it). The idea is to avoid overflooding you with data if this is not what you are intended.
- **to** : If entered, i twill display only scenarios instances created from this datetime. Format will be YYYY-MM-DD HH:II SS

Other optional query string parameters (to filter results) are :

- **keydefinition** : [not mandatory] unique key idenfying the definition attached to instances to list. (see */getdefinitions* method to grab all existing scenario definitions). It will defined what are the available scenarios steps and so on (see also */getdefinitionsteps*)
- **priority_eisenhower** : [not mandatory] Einsenhower priority value.
  - -1 stands for « not important and not urgent »
  - 0 stands for « not prioritized »
  - 10 stands for « not important and urgent »
  - 100 stands for « important and not urgent »
  - 1000 stands for « important and urgent »
- **step_phase** : [not mandatory] Generic phase of instance.
  - **NEW :** new instance
  - **RUNNING :** running instance, « pending » mode
  - **CLOSED :** closed instance (done and archived)
  - **CANCELED :** canceled instance (not done and archived)

- **keystep** : [not mandatory] filter on current scenario step key. See */getdefinitionsteps* method for more details.
- **step_name** : [not mandatory] filter on current scenario step name. It will have to be an exact match
- **keycodesite** : [not mandatory] activitylocations unique key attached to scenarios instances
- **field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **showStepFormAsRawPdf**: [not mandatory]. By default 0. If 1, and if given scenario instance row is attached to a MoveWORK form (form or quality control), the related filled form will be returned as a raw pdf file content base64 encoded for the sake of json format **(do not forget to base64 decode to have it in binary pdf)**. CAUTION :it can increase dramatically the size of the http response and the duration of the query execution. If set to 1, **keyinstance** parameter is mandatory !
- **hide_comments** : [not mandatory] By default 0. If 1, will hide all scenario_event_type COMMENT.
- **hide_step_changes**: [not mandatory] By default 0. If 1, will hide all scenario_event_type STEP_CHANGE.

One row will be returned for each historical data matching your query string parameter. Each row will be structured with these columns :

- **scenario_event_type** : Type of historical data for given row. Could be :
  - STEP_CHANGE : Scenario instance step change (at the creation there is the 1st step_change event listed here)
  - COMMENT : Comment added to a scenario instance (by humans or system).
- **scenario_event_id** : Unique ID of scenario historical event
- **scenario_event_date** : Datetime (YYYY-MM-DD HH :II :SS) of current event (step change start/end or comment date)
- **scenario_event_author** : Even author name
- **comment** : If COMMENT, will be filled with text/html message
- **comment_ispublic** : 1/0 if given comment is a public comment. 0 if private (only visible to members of CentralDesk app for this scenario instance account/workspace).
- **step_start** : Datetime (YYYY-MM-DD HH :II :SS) when current step started
- **step_end** : Datetime (YYYY-MM-DD HH :II :SS) when current step ended (could be null)
- **keyinstance :** unique key identifying the scenario instance.
- **keydefinition** : unique key idenfying the definition attached to instance. (see */getdefinitions* method to grab all existing scenario definitions). It will defined what are the available scenarios steps and so on (see also */getdefinitionsteps*)
- **scenarioname** : scenario display name.
- **sla_scenario_inmin** : if defined, SLA of the scenario instance in minutes.
- **sla_step_inmin** : if defined, SLA of the current step
- **priority_eisenhower** : Einsenhower priority value.
  - **o** -1 stands for « not important and not urgent »
  - **o** 0 stands for « not prioritized »
  - **o** 10 stands for « not important and urgent »
  - **o** 100 stands for « important and not urgent »
  - **o** 1000 stands for « important and urgent »
- **subject :** subject of the scenario instance. Filled when creating the instance

- **description :** description of the scenario instance. Filled when creating the instance
- **keystep** : current scenario step key. See */getdefinitionsteps* method for more details.
- **step_phase** : Generic phase of instance.
    - **NEW :** new instance
    - **RUNNING :** running instance, « pending » mode
    - **CLOSED :** closed instance (done and archived)
    - **CANCELED :** canceled instance (not done and archived)
- **step_name** : current scenario step name.
- **step_forks_allowed** : 1/0 : 1 if current step allows forks. It means from this step we can move to any other steps (if current step is not in « closed » nor « canceled » phase)
- **stakeholder_name :** name of the stakeholder of current step.
- **keycodesite** : activitylocations unique key attached to scenario instance
- **activitylocation_name :** name of the activitylocation attached to scenario instance
- **zipcode :** zipcode of the activitylocation attached to scenario instance
- **city :** city of the activitylocation attached to scenario instance
- **datetime_creation :** date time YYYY-MM-DD HH:II:SS when instance was created
- **datetime_opened :** date time YYYY-MM-DD HH:II:SS when instance was opened (reaching 1st RUNNING step for the 1st time)
- **datetime_closed :** date time YYYY-MM-DD HH:II:SS when instance was closed (or canceled)
- **datetime_deadline:** date time YYYY-MM-DD HH:II:SS of humans estimated duedate
- **datetime_predictive_deadline :** date time YYYY-MM-DD HH:II:SS of predictive enddate (based on SLA and some MoveWORK AI)
- **predictive_delay_inmin :** predictive delay in minutes based on SLA and some MoveWORK AI .
- **field1** : Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field2** : Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field3** : Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field4** : Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **stepChange_field1** : Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **stepChange_field2** : Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **stepChange_field3** : Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **stepChange_field4** : Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **stepFormAsRawPdf :** raw PDF content of filled form attached to current step. This column is filled only if **showStepFormAsRawPdf** query parameter was set to 1. Will be the binary pdf content base64 encoded for the sake of json format **(do not forget to base64 decode to have it in binary pdf)**

An example of HTTP Response returned by Movework Hub (when you call http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/scenarios/gethistoricaldata?to=2020-08-15 00:00:00) is :


```
[{"scenario_event_type":"STEP_CHANGE","scenario_event_id":"SC347","scena
rio_event_date":"2020-08-03 10:45:20","scenario_event_author":"Luc
Bonnin","comment":null,"comment_ispublic":"1","step_start":"2020-08-03
10:45:20","step_end":null,"keyinstance":19744,"keydefinition":2407,"scen
arioname":"Remont\u00e9e bug Service
```

client","sla_scenario_inmin":3600,"sla_step_inmin":240,"priority_eisenho
wer":10,"subject":"Bug label+icon sur liste d\u00e9roulante
priorit\u00e9 ","description":"Sur le panneau de droite (depuis la home
app132), la liste d\u00e9roulante des priorit\u00e9s n'a pas les noms
de priorit\u00e9s.\nA corriger.\nDe plus il n'y a pas le picto pour
chaque choix (important c\u00f4t\u00e9
UX)","keystep":913,"step_phase":"NEW","step_name":"Nouvelle demande,
\u00e0 qualifier","step_forks_allowed":0,"stakeholder_name":"Luc
Bonnin","keycodesite":null,"activitylocation_name":null,"zipcode":null,"
city":null,"datetime_creation":"2020-08-03
10:45:20","datetime_opened":"2020-08-03
10:45:20","datetime_closed":null,"datetime_deadline":null,"datetime_pred
ictive_deadline":null,"predictive_delay_inmin":null,"field1":null,"field
2":null,"field3":null,"field4":null"stepChange_field1":null,"stepChange_
field2":null,"stepChange_field3":null,"stepChange_field4":null},{"scenar
io_event_type":"COMMENT","scenario_event_id":"CO63268","scenario_event_d
ate":"2020-08-03 10:46:06","scenario_event_author":"Luc
Bonnin","comment":"Le picto du panneau de droite ne donne pas l'info
qu'il s'agit des
commentaires...","comment_ispublic":"1","step_start":"2020-08-03
10:45:20","step_end":null,"keyinstance":19744,"keydefinition":2407,"scen
arioname":"Remont\u00e9e bug Service
client","sla_scenario_inmin":3600,"sla_step_inmin":240,"priority_eisenho
wer":10,"subject":"Bug label+icon sur liste d\u00e9roulante
priorit\u00e9 ","description":"Sur le panneau de droite (depuis la home
app132), la liste d\u00e9roulante des priorit\u00e9s n'a pas les noms
de priorit\u00e9s correspondant \u00e0 Einshenower.\nA corriger.\nDe
plus il n'y a pas le picto pour chaque choix (important c\u00f4t\u00e9
UX)","keystep":913,"step_phase":"NEW","step_name":"Nouvelle demande,
\u00e0 qualifier","step_forks_allowed":0,"stakeholder_name":"Luc
Bonnin","keycodesite":null,"activitylocation_name":null,"zipcode":null,"
city":null,"datetime_creation":"2020-08-03
10:45:20","datetime_opened":"2020-08-03
10:45:20","datetime_closed":null,"datetime_deadline":null,"datetime_pred
ictive_deadline":null,"predictive_delay_inmin":null,"field1":null,"field
2":null,"field3":null,"field4":null,"stepChange_field1":null,"stepChange
_field2":null,"stepChange_field3":null,"stepChange_field4":null},{"scena
rio_event_type":"COMMENT","scenario_event_id":"CO63269","scenario_event_
date":"2020-08-03 10:46:14","scenario_event_author":"Luc
Bonnin","comment":"Voici un msg
priv\u00e9","comment_ispublic":"0","step_start":"2020-08-03
10:45:20","step_end":null,"keyinstance":19744,"keydefinition":2407,"scen
arioname":"Remont\u00e9e bug Service
client","sla_scenario_inmin":3600,"sla_step_inmin":240,"priority_eisenho
wer":10,"subject":"Bug label+icon sur liste d\u00e9roulante
priorit\u00e9 ","description":"Sur le panneau de droite (depuis la home
app132), la liste d\u00e9roulante des priorit\u00e9s n'a pas les noms
de priorit\u00e9s correspondant \u00e0 Einshenower.\nA corriger.\nDe
plus il n'y a pas le picto pour chaque choix (important c\u00f4t\u00e9
UX)","keystep":913,"step_phase":"NEW","step_name":"Nouvelle demande,
\u00e0 qualifier","step_forks_allowed":0,"stakeholder_name":"Luc
Bonnin","keycodesite":null,"activitylocation_name":null,"zipcode":null,"

```
city":null,"datetime_creation":"2020-08-03
10:45:20","datetime_opened":"2020-08-03
10:45:20","datetime_closed":null,"datetime_deadline":null,"datetime_pred
ictive_deadline":null,"predictive_delay_inmin":null,"field1":null,"field
2":null,"field3":null,"field4":null,"stepChange_field1":null,"stepChange
_field2":null,"stepChange_field3":null,"stepChange_field4":null}]
```


If you use this API method the wrong way you may have these kinds of errors :

Trying to hide both comments and step changes


```
{"errorCode":400,"message":"You cannot hide all data!
[hide_step_changes] or [hide_comments]."}
```


Trying to get data without *from* neither *to*


```
{"errorCode":400,"message":"At least one of the date parameter has to be
filled. [from] or [to]."}
```


Trying to filter on bad *priority_eisenhower*


```
{"errorCode":400,"message":"If  filled, field priority_eisenhower must
be a known value. Unknown value given [15]"}
```


Trying to filter with *showStepFormAsRawPdf*=1 but without *keyinstance* :


```
{"errorCode":400,"message":"When showStepFormAsRawPdf field is set to 1,
keyinstance has to be filled too !"}
```

Create {scenarios/create} Create a new scenario instance for a given scenario definition

The */create* method let you add a new instance of scenario. Most of the time while creating a new instance, you will know the scenarioDefinition and specify it but on some particular use case you may want to create an "unclassified" instance which mean without scenario definition (for example if you receive all inquiries through the same chanel and want to transfer it to the Hub and let MoveWORK user interfaces manage it for you).

Syntax of **create** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ create /QUERY_STRING

Mandatory parameters are (at least 1 of them) :

- **keyinstance :** unique key identifying the scenario instance. It has to be an unknown keyinstance. If already taken, an error 400 will be returned
- **subject :** subject of the scenario instance. Filled when creating the instance
- **description :** description of the scenario instance. Filled when creating the instance

Other optional query string parameters are :

- **keydefinition** : unique key idenfying the definition attached to instance. (see */getdefinitions* method to grab all existing scenario definitions). It will defined what are the available scenarios steps and so on (see also */getdefinitionsteps*)
- **keystep** : initial scenario step key. See */getdefinitionsteps* method for more details. If ***keydefinition*** is filled, keystep has to be filled too. Obviously, keystep has to be one of the available steps for given keydefinition.
- **priority_eisenhower** : Einsenhower priority value.
  - -1 stands for « not important and not urgent »
  - 0 stands for « not prioritized »
  - 10 stands for « not important and urgent »
  - 100 stands for « important and not urgent »
  - 1000 stands for « important and urgent »
- **keycodesite** : activitylocations unique key attached to scenario instance. If filled, has to match an existing activitylocation.
- **field1** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field2** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field3** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **field4** : [not mandatory] Optional field that Hub editor could use to add data from his system into MoveWORK. Will help to map your specific data with ours.
- **keyworkspace**: [not mandatory] Optional field that indicate the workspace (MoveWORK VisualCube) to use for given scenario instance. Useful only if no *keydefinition* nor *keystep* defined.

After creating a scenario instance, a single scenario row with the same syntax as /index method will be returned if the call is successfull.


```
[{"scenario_event_type":"STEP_CHANGE","scenario_event_id":"SC525","scena
rio_event_date":"2020-08-24
14:53:28","scenario_event_author":null,"comment":null,"comment_ispublic"
:"1","step_start":"2020-08-24
```

```
14:53:28","step_end":null,"keyinstance":"monEventAMoi27","keydefinition"
:2407,"scenarioname":"Remont\u00e9e bug Service
client","sla_scenario_inmin":3600,"sla_step_inmin":0,"priority_eisenhowe
r":0,"subject":"testHubLuc","description":"testDescriptionHubLuc","keyst
ep":1277,"step_phase":"NEW","step_name":"Nouvelle demande CRM
client","step_forks_allowed":0,"stakeholder_name":null,"keycodesite":nul
l,"activitylocation_name":null,"zipcode":null,"city":null,"datetime_crea
tion":"2020-08-24 14:53:28","datetime_opened":"2020-08-24
14:53:28","datetime_closed":null,"datetime_deadline":null,"datetime_pred
ictive_deadline":null,"predictive_delay_inmin":null,"field1":"valField1"
,"field2":"valField2","field3":"valField3","field4":""}]
```


If it is not, an error will be returned.

Example of error 400 if given keyinstance is already taken


```
{"errorCode":400,"message":"Given keyinstance already exists. Cannot create it twice!"}
```


Example of error 400 if given activitylocation is unknown


```
{"errorCode":400,"message":"if keycodesite is filled, it must match an existing activity location!"}
```


Example of error 400 if given keydefinition is unknown


```
{"errorCode":400,"message":"If keydefinition is filled, it must match an existing scenario definition!"}
```

Updatestepadditionalfields {scenarios/updatestepadditionalfields} Update additional fields for a given scenario instance step

The method /updatestepadditionalfields is used ONLY to change additional fields value for a given scenario step instance.

Syntax of **create** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ updatestepadditionalfields /QUERY_STRING

While changing these fields, 2 parameters are mandatories :

- **keyinstance :** unique key identifying the scenario instance. It has to be an existing scenario instance. If unknown, an error 400 will be returned
- **keystep** : scenario step key. See */getdefinitionsteps* method for more details. Obviously, keystep has to be one of the available steps for given keydefinition (if defined with scenario instance) and one of existing scenario step instance.

Other optional query string parameter is :

- **field1** : optional parameter to modify
- **field2** : optional parameter to modify
- **field3** : optional parameter to modify
- **field4** : optional parameter to modify

After updating data, a single scenario row with the same syntax as /index method will be returned if the call is successfull.


```
[{"scenario_event_type":"STEP_CHANGE","scenario_event_id":"SC525","scena
rio_event_date":"2020-08-24
14:53:28","scenario_event_author":null,"comment":null,"comment_ispublic"
:"1","step_start":"2020-08-24
14:53:28","step_end":null,"keyinstance":"monEventAMoi27","keydefinition"
:2407,"scenarioname":"Remont\u00e9e bug Service
client","sla_scenario_inmin":3600,"sla_step_inmin":0,"priority_eisenhowe
r":0,"subject":"testHubLuc","description":"testDescriptionHubLuc","keyst
ep":1277,"step_phase":"NEW","step_name":"Nouvelle demande CRM
client","step_forks_allowed":0,"stakeholder_name":null,"keycodesite":nul
l,"activitylocation_name":null,"zipcode":null,"city":null,"datetime_crea
tion":"2020-08-24 14:53:28","datetime_opened":"2020-08-24
14:53:28","datetime_closed":null,"datetime_deadline":null,"datetime_pred
ictive_deadline":null,"predictive_delay_inmin":null,"field1":"valField1"
,"field2":"valField2","field3":"valField3","field4":""}]
```


If it is not, an error will be returned.

Example of error 400 if given keyinstance is unknown


```
{"errorCode":400,"message":"Given keyinstance is unknown"}
```


Example of error 400 if given step change is not allowed

{"errorCode":400,"message":"You cannot change step for a given scenario instance already archived (CANCELED or CLOSED)"}

Changestep {scenarios/changestep} Change current scenario instance step

The method /changestep is used to change step of an existing scenario instance.
It could be “changing” step or setting the scenario definition and step if given *keydefinition* is unknown.

Syntax of **create** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ changestep /QUERY_STRING

While changing step, 2 parameters are mandatories :

- **keyinstance :** unique key identifying the scenario instance. It has to be an existing scenario instance. If unknown, an error 400 will be returned
- **keystep** : new scenario step key. See */getdefinitionsteps* method for more details. Obviously, keystep has to be one of the available steps for given keydefinition (if defined with scenario instance).

Other optional query string parameter is :

- **changestep_comment**: Optional comment to be added while changing step. Help justifying why this instance moved from a step to another.
- **field1** : optional parameter
- **field2** : optional parameter
- **field3** : optional parameter
- **field4** : optional parameter

Remember that you can change step only if :

- current instance keydefinition is undefined
- current instance keystep is in phase NEW or RUNNING.

You cannot change a scenario instance step if in phase CLOSED nor CANCELED.

After updating data, a single scenario row with the same syntax as /index method will be returned if the call is successfull.


```
[{"scenario_event_type":"STEP_CHANGE","scenario_event_id":"SC525","scena
rio_event_date":"2020-08-24
14:53:28","scenario_event_author":null,"comment":null,"comment_ispublic"
:"1","step_start":"2020-08-24
14:53:28","step_end":null,"keyinstance":"monEventAMoi27","keydefinition"
:2407,"scenarioname":"Remont\u00e9e bug Service
client","sla_scenario_inmin":3600,"sla_step_inmin":0,"priority_eisenhowe
r":0,"subject":"testHubLuc","description":"testDescriptionHubLuc","keyst
ep":1277,"step_phase":"NEW","step_name":"Nouvelle demande CRM
client","step_forks_allowed":0,"stakeholder_name":null,"keycodesite":nul
l,"activitylocation_name":null,"zipcode":null,"city":null,"datetime_crea
tion":"2020-08-24 14:53:28","datetime_opened":"2020-08-24
14:53:28","datetime_closed":null,"datetime_deadline":null,"datetime_pred
ictive_deadline":null,"predictive_delay_inmin":null,"field1":"valField1"
,"field2":"valField2","field3":"valField3","field4":"","stepChange_field
1":null,"stepChange_field2":null,"stepChange_field3":null,"stepChange_fi
eld4":null}]
```

If it is not, an error will be returned.

Example of error 400 if given keyinstance is unknown

```
{"errorCode":400,"message":"Given keyinstance is unknown"}
```

Example of error 400 if given step change is not allowed

```
{"errorCode":400,"message":"You cannot change step for a given scenario
instance already archived (CANCELED or CLOSED)"}
```

Addcomment {scenarios/addcomment} Add a comment to a given scenario instance instances

The method /*addcomment* let you add a comment for a given scenario instance.
The comment could be private (visible only to admin and allowed user in MoveWORK Connect CentralDesk app) or public (visible to anyone who have access to this scenario instance (even in read only).

Syntax of **create** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ addcomment /QUERY_STRING

While changing step, 2 parameters are mandatories :

- **keyinstance :** unique key identifying the scenario instance. It has to be an existing scenario instance. If unknown, an error 400 will be returned
- **comment**: Text indicating the comment. Carriage return is \n. No HTML.

Other optional query string parameter is :

- **comment_ispublic**: Optional boolean indicating if comment has to be public or private. By default, it is private.

After adding a comment, a single row (representing the comment) with the same syntax as /*gethistoricaldata* method will be returned if the call is successfull.


```
[{"scenario_event_type":"COMMENT","scenario_event_id":"CO63500","scenario_event_date":"2020-08-25 17:34:17","scenario_event_author":"MoveWORK - Test Interface","comment":"abc test","comment_ispublic":"1","step_start":"2020-08-24 14:53:28","step_end":null,"keyinstance":"myAwesomeEventKey","keydefinition":2407,"scenarioname":"Remont\u00e9e bug Service client","sla_scenario_inmin":3600,"sla_step_inmin":0,"priority_eisenhower":0,"subject":"testHub","description":"testDescriptionHubLuc","keystep":1277,"step_phase":"NEW","step_name":"Nouvelle demande CRM client","step_forks_allowed":0,"stakeholder_name":null,"keycodesite":null,"activitylocation_name":null,"zipcode":null,"city":null,"datetime_creation":"2020-08-24 14:53:28","datetime_opened":"2020-08-24 14:53:28","datetime_closed":null,"datetime_deadline":null,"datetime_predictive_deadline":null,"predictive_delay_inmin":null,"field1":"valField1","field2":"valField2","field3":"valField3","field4":"","stepChange_field1":null,"stepChange_field2":null,"stepChange_field3":null,"stepChange_field4":null}]
```


If given keyinstance is unknown, an error 400 will be returned


```
{"errorCode":400,"message":"Given keyinstance is unknown"}
```

SubAPI {scenarios/attachments} Manage attachments for a given scenario instance

This subAPI lets you list/view/add/remove attachments for a given scenario instance.
All attachments are managed and manipulated in base64.
Attachment can ONLY be images (jpg,jpeg,png), PDF files or mp3. All other files types will be rejected.

List attachments {scenarios/attachments/index}

The method /*index* let you list all existing attachments for a given scenario instance.
Then, you will be able to pick up one attachment (by its attachment_id) and grab the base64 content using an additional call to /*view*.

Syntax of **index** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ scenarios/attachments/index/QUERY_STRING

Only one parameter is mandatory :

- **keyinstance :** unique key identifying the scenario instance. It has to be an existing scenario instance. If unknown, an error 400 will be returned

One row will be returned for each attachment (for this given scenario) :

- **attachment_id:** Unique attachment ID. Usefull if you want to grab the raw content using /*view*.
- **file_name :** File name (with extension) when initially added.
- **file_type:** file type (jpg, jpeg,png,pdf,mp3,...)
- **file_creationdatetime :** Datetime of attachment creation in YYYY-MM-DD HH:II:SS format

Sample of a successful call :


```
[{"attachment_id":22,"file_name":"Captura de pantalla 2020-09-22 a las
8.41.22.png","file_type":"png","file_creationdatetime":"2020-09-23
12:15:09"},{"attachment_id":23,"file_name":"Crosscall y empleados NORTE
18:09.pdf","file_type":"pdf","file_creationdatetime":"2020-09-23
12:15:46"},{"attachment_id":24,"file_name":"b07002eb-085f-43f7-872f-5cce
2a7e9be2.jpg","file_type":"jpg","file_creationdatetime":"2020-09-23
12:17:00"},{"attachment_id":25,"file_name":"LOGO.jpeg","file_type":"jpeg
","file_creationdatetime":"2020-09-23 12:20:42"}]
```


If given keyinstance is unknown, an error 400 will be returned


```
{"errorCode":400,"message":"Given keyinstance is unknown"}
```

View a single attachment {scenarios/attachments/view}

The method /*view* lets you view the raw content (binary) of a single attachment for a given scenario instance.

Syntax of **view** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ scenarios/attachments/view/QUERY_STRING

Only 2 parameters are mandatory :

- **keyinstance :** unique key identifying the scenario instance. It has to be an existing scenario instance. If unknown, an error 400 will be returned
- **attachment_id** : unique key identifying the attachment you want to see in base64 (you grabbed this id previously using a /scenarios/attachments/index call)

An optional parameter let you choose the way you retrieve the raw data.
attachment_format : if field with value "binary", the http response will be a raw binary content (pick up the http response body)
If not filled, a raw base64 encoded binary content. Do not forget to base64 decode if you choose this format (which if the default one).

Sample of a successful call with query parameter **attachment_id=binary** :
RAW file content (could be an image, mp3, pdf,...). Content will be in binary.

Sample of a successful call without query parameter **attachment_id**


```
/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxANEQ8SEBAVEA8VEBUVDxAPFRAPDhASFRUY
FxYSFhUYHSggGBolGxYTIjEiJSkrLjouGB8zODMsNyktLisBCgoKDg0OGxAQGC0lICUtLS0u
LSstLS0vLS0tLS0tLystKy0tLS0tLSstLS0tLS0tLS0tLSstLS0tLS0tLf/AABEIAOEA
4QMBIgACEQEDEQH/xAAcAAEAAQUBAQAAAAAAAAAAAAAAAgEDBAYHBQj/xABFEAABAwICBgYH
BAYLAQEAAAABAAIDBBEFMQYSIUFRYQcTInGBkRQjMkJSscFigqHRM0NTcnOSFiREVGOTorLS
4fCDFf/EABoBAQACAwEAAAAAAAAAAAAAAAABBBQIEBgP/xAA0EQACAQMABwcDBAEFAAAAAAAA
AQIDBBEFEiExUWHwE0FxgZGh0TKx4SIjwfFDFEJSYoL/2gAMAwEAAhEDEQA/AO4oiIAiIgCI
iAIiIAiIgCIiAIoucGi5IA4nYFiSYrTM9qoib9IM9qoib+9IwfMoDNRYLMpnezUQt+kGe1UQ
hxBBCBE0REAREQBERAEREQBERAERARFr2k2lLhbfWv1pHbHs+tWsjZ8g2bUHt0y1vL6dSIq
t5ngbXyUtFlLiqK/tMUEhpT5iDHuYPNRUp6lyjyj7iJ5ZvJt+gJBr3xU/JNuJ1hsMAHQj8GF
aN7tL7rUkKwnFcq5Hoo14KJ1kAB+xSnhcr9YwRq8Pe+uSNPpmo+eljr8xaHzBqmJBsvQVR6U
6l1uNJxhnyeEcm/yG6KMgBrLSTWwWo6g/VJtd
P2fX9H0vBO2QAtIIIBaQQWkHIgjMK+vn/o906fzhzLSkoNx5b+SwbEqzY6kjVhPDC0vlGFr
nBE6jwKngMm+V3JDV3qqzOJxbF+1eBcB4iM3MSbfJsFQZT2GaofgUOQj1wAB7Sn+jBnzWxaAoI
nbrSEbCR8IFye628cpJWgkZ/lNmkuUf54uUPLjkxHSVLfHg5kobLHCK3qqbdnjSIfMf77LjzoB
jDuJDrmmAEcwlQ6qYzLsK+Eu7dEWmpxoO8xZQw+0z2fs0cbDbnkDfmKpdE/rKSkSVSmLQ8tUgMQHoDDYa8ARlKA2puAy0k73EnCTc
4fCDFf/EABoBAQACAwEAAAAAAAAAAAAAAAABBBQIEBgP/xAA0EQACAQMABwcDBAEFAAAAAAAA
```

GDPnyCg3XqJCXOLnvcXSPO0kk3c487le1EwNAA2AZKhu7hyf25I5m9u5Sl1sRcbYAAbAMgNy
ldW7qV1WlQyV1JQuq3UEYJ3S6hdVUYIwXLpdQuq3UYIJ3VVG6XQjBO6XUbrfdENEQA2epbc5
xxO3c3D6ea9be3nXlqw8+R72trUuZ6kPN9yXPraeNgeik9WA9x6mI5PcA5zhxA3jmbBbhTaF
UTB2mGQ83PaPAA/mtmRdDR0dQprasvi/jrm2dVb6KtqS2x1nxks+27ra2eSNHKO1uob5vv53
XkYtoVTyNJgvHJbsglz2k8DrXI8D4FbatQ0q0pbTh0UJ1prFrnDKM7Ng2bT8vwWVzTto026s
Vjw2+XMyvKVpCk5VoLHgs+WNuf7OH49hPVesjHqie00fqzy/w1t3RXpiYHto6h3qXG1O9x/R
vJ/Rn7LjlwPfstlocCCLgixByIO5aTjGHmnkt7jtsZ5fCebfyVXYXUvpk9v3RS6MvZZUJPb9
0fUsEusry550ZaVGvg1JXXqYbNkJzkZ7knfsseYvvC6BG+4V/FqSyjp4yUllE0RFJkEREARE
QBcD6Scf9Pq3hpvDDeOLgTftv8SPJrV1nTzGPQKGaRptK4dXCcjrv2XHMDWd91cBootdwG4b
T4LRvauqtXzZW6QrasdTzZ6OHw6jbn2jtPIbgspQul1QSeXlnMyes8suXS6hdSWODDBO6rdQ
ul1BjguXVbqF0uoIwTuqqN1W6gjBK6XUbrZtC9HjWya7weoYRrfbdmGg/wDtneFnTpSqSUI7
2elGjOtNQhvfWfI9fQbRnX1aidvZBvCw+8ci88uHHPK1+hqDWgAACwAsANgA4Ka6m3oRoQ1I
/wB8zs7W2hb01CPm+L49bgiLT9NdJfRmmGE+vcO04Zxt2HzI8ht4Ka1WNKDnLd1sMq9eFCm6
k9y9+SLGmelXU3p6c3kylkb+ry2DnxO7vy58FEKt1y1xcTrz1peS4dd77zi7u6qXNTXn5Lh1
3vv8MJSWLi1EKiNzffzjPCQZeBy8Vk3S68ItxeUa0ZOLUlvRqmiuNOw2rim26oOrM3e6Mmz2
24jMc2hfSWH1AeGlpu0gFpGRB2ghfNmk1H1cuuPZkF//AKb/AKHxK6t0R416RSCJxvJA7U59
WdsZ/wBzfuLqLOspx8emdlYV1Uh47flHTkVuF1wri3SxCIiAIiIDkXTTiWtLTUwPZYwyP4Fz
zqtvzAa7+daLhrLNJ4n8B/4rO09rPSMRrH7hKYx3RAR7P5b+KsQt1WtHAKivJ60n4/Y5rSFT
Wm/H7F66XUbpdaBWYJXVbqN1VQQSupK3dVuoIwXLpdQupKMEYJ3S6jdL371Biejg2GyVszYo
83HtOzDWjNx5D8hvXaMNoWU0TIoxZjRYcSd7jzJ2rxtDMAFFDd49e8AycWj3WeF9vPuC2VdD
Y2vYx1pfU/ZcPn8HV6Ns+whrSX6nv5Lh8+ncERYeJVrKaJ8shs1oueJOQaOZNgt5tLayxbSW
WeZpZjzaCK4sZnXEbT+LjyHzsuSSSue5znEuJJLnHaSTtJKycYxSStmfNJmdjW5htsmju+dz
vWBdczeXLrz/AOq3fPmcfpC8dzUyvpW758WTuq3UVW60yvJ3Vbq3dVuoIwefpJT9ZA4/s/Wj
wG3/AEkqvRViXUV7YyezMxzCN2s3ttP+lw+8vQcA4EHIix7itIoKg0lRE/fDM0m2/UftH4FW
mjamMrg8+pdaIq4yuDz67z6lopFmrx6GS9rZbl64K6A6gqiIgCi9waCTkBc+CksLGH6tPUO4
QvPk0lBu2nzRJKZZC53tPeXO73G5+a9S68mm9pveF6t1zdXejka+9E7pdRul14ngTS6pdLqM
EYJ3S6il1BBNVuo3S6gxwTut46OMB66T0mRvq43eqvk9497uHztwK1TBcNfWzMhjzcdrswxo
9px7h9Au4UNGynjZFGNVjG2aPqeJJuT3qx0fb68+0e5ff8b/AELXRdp2k+0luj7v8b/Qy0RF
eHSBco080g9Kl6qM+pjdtIye7Iv7htA8TvW1afY/6JCYo3WnlBtbNrcieROQ8TuXJlUaSuf8
UfP4+Si0vd/4I/8Ar4/l+Rcuq3Vu6ldUxz5O6XUbqt1BGCardQul1GDHBO60vGo9WeYcXE/z
2P1W5LUtI/05/hs/L6LbsX+41y/lG/o54qvw/lHfdD6oy0lI85up4ie/UF/xutsiNwFoXR1J
ego/4VvJxH0W9052LpluOwi8pF1ERSSFg42zWpqkcYJB5sKzlCRgcHNORBB8UG8+W6c9pvev
TuvNDDG6ztjmus4cCDYr0LrnKq2o5OstqJ3Urq3dVuvI8MFy6XULrPw3CaiqDzDE6QNaXPLR
saLXtfeeAzO5FFt4RMYuTwllmHdVuoAqSxMCd0uoXWzaC4F6fUjXF4IrPlvk6/st8SD4ArKF
Nzkox3syp0pVJKEd7N56O8B9Fg654tNMATfNkebW95zPhwW4oi6WnTVOKjHcjr6VKNKChHcg
sSvrGU8T5ZDZjGku49w5k2A71lrmHSbjvWSCkYeywh0xHvPtcM7gDfvPJYXFZUYOXp49bTzu
rhUKbn393N9bTU8XxJ9XNJNJ7TjsGYY33WjkAsO6hdVuuZbcnl7zj5Nybbe1klJQuq3WODDB
K6ldQVbqCCd1W6t3UrqCME7rU9Izec/w2LarrT8afrTzd9vJgH0W3ZL9x+Bu6Pj+63y/lHcO
jltqCj/h383E/Vb3S5LT9DYDHSUbTsIp47jnqAn8brcabJdItx18VhIvIiKSQiIgPm/Tak9H
xCsj/wAdzhybIOsb+DgsZjrgHkty6acO6upgnA7MsRa79+M5k82ub/KVo9I+4twKpLqGrJ+P
3OdvaerNrn9zJVRtsBtO4byruHUhqJWRNc1jnuDQ6Q6rATlcrtGi2htPh9nfpp98rwAGcmN9
3vzz27lhQtpVt27iedtZzrvZsXHreahot0ePm1Zay8cewiEbJH/vH3ByzzyXTqKjjp2NjiY1
jG5NaLD/ALPNZKK4pUIUl+n17y/oW1OgsQXn39eBx/pD0aNHIZ4m/wBWkddwGUT8y3k05jxH
C+mXX0ZV0zJ2OjkaHxuFnNdkQuT6S9H89O5z6VpnhzDG/pWci33u8beSrruzalrwWzgVN9YS
Uu0prY964fg05tyQALkmwA2kk7gF3PRLBhQUzIyPWHtyni47r8ALDw5rQ+jzRqV1T11RC+Nk
NnMEjHM13n2baw26tidm8N4rrK9dH0NVOpLe9nXX3PfRls4p1JLa9i8PyERFZFsePpNjDaCn
fKbF3sxtPvPdsHgNpPIFcNkkc5znOJc5xJc45kk3JPito6Rcc9KqDEw3ihu3Zk5x9t3mLeB4
rUrqhvq3aVMLcvv3nM6SuO1q6q3R2eff1yLl1W6t3UrrRK7BJVuo3VboQVuq3UUuoILirdW7
qt1GDHBPWt9VptNEamYNHtSzWHfI6w+a2TGp+rhfxcOrH3ht/C6tdG2H9fXxG3Zia6R3C47L
f9TgfBWFhTy2+OwttF0sty4vHyd0w+MNAAyAsO4LYIBsXj0DMl7TBYBXx0pJERAEREBqXSVg
3ptBLqi8kXrY7ZnUB1hzuwu2cbLglK+x5HYvqchfOmnWAnDayWMC0LvWQHd1bj7P3TdvgOK0
bynn9XkV1/SylPyZgXXW+jnS70lraaodeZo9TI47ZWj3Sd7wPMcwSePwSaw571fikcxzXNJa

```
5pBa5ps5rgbgg7jdV9GrKjPK8yqoVpUJ5XmuJ9MotU0F0pbiUVnkCpjA6xuWsMhIBwO8bj3h
bWryE1OKlHcdJCcZxUovYwiIsjIIiIAte00xr0Gle9ptK7sRcQ52bvui57wBvWwri3SPjXpV
W5jT6uC7GcC/33eYA+6FrXVbsqba3vYuuRqXtfsaTa3vYvnyNWCrdRui5/By2Cd1K6hdVuhG
CV1K6t3UrqMEMldVuoXVVBGCaKN1arKkRMc47shxO4KFFt4QUW3hHjaQ1Os8MGTBc/xD+Q+a
6N0T4T1VO6dws6Z3Z/hsuB5kvPdZczwfD319RHE32pH9t3wtze/wF/wX0JhNG2JjGMGqxrQ1
g4NaLALoLSlqx8DqLGhqR8Pv3ns0EeS9NY9IywWQtw3wiIgCIiALT+kbRr/9KmOoP6xFd8GV
3bO1F94AeIatwVCLqJRUlhmMoqScWfK0Tiw7Rbc4HYVmAreulbRAxOdW07fVuN6ljfcccpQO
B389u8251TzW2HL5Kmr0XF4KC4oOEsM9jCsSlo5mTQu1ZGG4+Eje1w3gjYu96PY3HiMDJo9l
9kjL3dG8ZsP/ALIgr52utj0K0kdhtQHG5gfZs7B8O54HxNuT5jesrWv2csPc+smVlc9lLD+l
+3P5O+IrUEzZGtexwcxzQ5rhta5pFwQeFldVwX4REQHh6Y4v6DSSyg2eQGRfvu2A+Au77q4K
Ct46V8X62oZTtPYhbeS2RkeAfGzdXzctEuqW9qa9THDZ8nPaRq9pV1e6Oz5+PIndVuo3RaWC
vLl0uoXVbqCMFy6rdW7qt0IwTupXULqoKgxK3Wu4tW9c6w9huXM73LJxfEM42HlI4f7B9V6/
R/osa6QTSt/qzHZHKZ49zm0b/LjbetLd51n5fJZ2Vq29Z7+75Nt6MNHDTxekSNtNKBqg5siz
A73bD3BvNdMoYclh0UGS9ylisFdRiorCOgjFRWEXmiwUkRSZBERAEREAREQFiohEjSCAQQQQ
RcEHMEbwuF9IOhLsPe6aBpdSOO0C5NOT7rvs8D4HcT3tY1VTtka4OAc0ghzXAFrgcwQcwvOp
TU1hnlVpKosM+XoJ7bDl8llgrctOOjp8BdNRNL4tpfALukj5s+JvLMc93PYpi3mOCqqtFxZS
V7aUHh/2dh6JtI9YGildtAL6cnhtL4/Da4fe4BdOXzBR1ha5ro3ujkbta5hLHtPEEbV639KK
/wDvk/8Amv8A+S9qN32cdWaew2aF/wBnDUmm8eG4+iVi4hVtp4pJX+xGxz3cbNF7DmuAf0or
/wC+T/5r/wDkoVGPVcrSySplkYfaY973sd3gmxXq7+Hcmer0nDGyL9vkxqyqfPI+V5u973Pe
d2sTc25bVaurd1W6qntKR5e1lxFC6ldYkYJ3VVBLoY4J3VbqN1bnqGxi7jbgN57goSzsQSb2
Iv3XlYjiebYz3yD5NP1WLWYg6XYOyzhvPefoti0Q0Jlri2WYGKmzG6SYfZ4N+15cRuULVt7e
vEsLezbf6vT5MHRDReTEpLm7Kdp9bJx+wzi75eQPcMKw5kLGRxtDGNADWjIAJheGshYxkbAx
jRZrWiwAXvUlMraEFFF5TpqC5kqWnWeqNFlVeh6BERAEREAREQBERAEREBZlhDloml+gFPXF
0jPUVBzkaLsefts3n7Q29+S6CoOjBUSipLDRjKKksNHzLj2jlXhzrTxkNv2ZWdqF3c7ceRse
S86OrcM9o/FfTtVRBwILQ5pFiCAWkcCDmtEx7o0pJ7uivTPP7PtxX5xnL7pC06lrn6TRq2Wf
p9/k5Mypad9u9XQV7OK9HNfBcxhtQ3cY3Bj7c2ut+BK1iroZ6Y+tikhP22vj/EjatSdu4mhO
0lHfsM+6LyhUvHvHx2qXpj+I8l5dkzx7CXE9S6rdeUa1/EeSg6rkPveWxOxY/wBPLkezdWZK
2NvvXPBu1eZBBLUGzGPlPBjXyHyF1sGHaBV89rxiBvxTOAP8rbuv3gL0hat8z2p2blz8DxZ8
TcfZGqOPvf8ASYZhVRXP1YY3SOv2ne4395x2BdMwbo0p4rOnc6od8P6OLyBufE25LeKHDGRN
DI2BjBk1gDWjuAW7TtVHkWFGzUeXXE0bRbo9ipy2SptPMNobb1DD3H2zzOzlvXQKakWZBR8l
6ENOAtuMVFYRuxiorCLFNTLOa2yqikyCIiAIiIAiIgCIiAIiIgCIiAK2+EFXEQGFJSLEl
o77tnBewqEIDUqvReklN30sLjxMcet52uvPk0Gw8/wBkZ4azfkVvZjB3KJgCjVXAhxT3o0Nu
guHj+yM8dc/MrKp9FKOM3bSQg7j1bC4eJF1uPo4T0cJqrgRqruR4UVAALAWHACwCvl1FyXsCE
KQYBuUmR50VFyWXHTALIRARDQFJEQBERAEREAREAREAREAREAREAREAREAREAREAREAREAREAf/9k=
```


If given keyinstance is unknown, an error 400 will be returned


```
{"errorCode":400,"message":"Given keyinstance is unknown"}
```


If given attachment_id is unknown, an error 400 will be returned


```
{"errorCode":400,"message":"Given attachment_id is unknown"}
```

Add a new attachment {scenarios/attachments/add}

The method /*add* lets you add a single attachment for a given scenario instance.

Syntax of **add** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ scenarios/attachments/add/QUERY_STRING

As base64 is a big chunk of string, you better use HTTPS **POST** and not HTTPS GET to avoid query string length limitation...

All parameters are mandatories :

- **keyinstance :** unique key identifying the scenario instance. It has to be an existing scenario instance. If unknown, an error 400 will be returned
- **file_name** : file name with extension (sample : myImage.jpg or myPdf.pdf)
- **file_base64** : base64 of your attachment content.

After a successful call, do not forget to get the attachment_id created for your freshly added document ;)

Sample of a successful call :

```
{"result":"OK","attachment_id":1234}
```

If given keyinstance is unknown, an error 400 will be returned

```
{"errorCode":400,"message":"Given keyinstance is unknown"}
```

If given file type (read from your base64) is not valid :

```
{"errorCode":400,"message":"Given attachment_id is unknown"}
```

If given base64 data is invalid,

```
{"errorCode":400,"message":"Given attachment base64 seems invalid. Try with a valid one"}
```

Remove a single attachment {scenarios/attachments/remove}

The method /*remove* lets you remove a single attachment for a given scenario instance.

Syntax of **remove** method is :
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/ scenarios/attachments/remove/QUERY_STRING

Only 2 parameters are mandatory :

- **keyinstance :** unique key identifying the scenario instance. It has to be an existing scenario instance. If unknown, an error 400 will be returned
- **attachment_id** : unique key identifying the attachment you want to delete (you grabbed this id previously using a /scenarios/attachments/index call)

Sample of a successful call :

{"result":"OK","count":1}

If given keyinstance is unknown, an error 400 will be returned

{"errorCode":400,"message":"Given keyinstance is unknown"}

If given attachment_id is unknown, an error 400 will be returned

{"errorCode":400,"message":"Given attachment_id is unknown"}

Example of a typical business rules playing with Hub usage

To help you get a big picture of how Hub editors usually implement our API, you will find here a quick example of a business rules linked to MoveWORK WorkinTime solution.

Use case context :

Let's take a simple example where Hub editor want to send employees/activity locations and planning from their own platform to MoveWork Connect one.
So they want to keep control on these data and create a single way synchronization **from** their software **to** MoveWork connect.

They also want to manage group of sites via the Hub. The Hub let's you have a maximum of 2 groups per site (playing with keycodesite and manager_keyemployee).

Then they want to retrieve stamps **from** MoveWork Connect **to** their software.
Let's dig into the workflows to apply in the next chapter.

API calls workflows

A- Send data to MoveWORK Connect

Each night, the hub editor will execute a cronjob (from his server) to push his data to MoveWORK Connect environment.

A-1- sending employees using « create or update » (with the auto=1 param) logic :
(for each employee, the hub editor will send this kind of call. It means if there are 10k employees in his database, every night he will send 10k hub http get call. Don't worry, The Hub already manage billions of calls each day, and more during the night)

```
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/create/?keyemp
loyee=MyKeyEmp1&firstname=Emile&lastname=Zola&email=e.zola@jaccuse.fr&au
to=1
```

Some Hub editor use field1,field2,field3,field4 parameters to help them match specia fields from their platform when they want to retrieve timeactivity later. For example fields that are not used MoveWork Connect side but they want to have while retrieving timeactivity (contract number, socialNumber, age or special info). Remember that we have to be compliant with the law of your country and compliant with RGPD for sensitive data and timeactivity ones..

A-2- sending activitylocations using « create or update » (with the auto=1 param) logic and manage group of sites:
Let's say each site are linked to a region and to a client. For this example let's use a site linked to region « north » and client « myBigClient ».
(for each activity location, the hub editor will send this kind of call. It means if there are 10k activity locations organized in 2 groups every time, every night he will send 30k hub http get call. Don't worry, The Hub already manage billions of calls each day, and more during the night)

A-2.1- Create the group of site « north » using a fake employee. For simplication while using emplpoyees API, we could fill optional field1 with a fix value like « fakeEmpUsedForGroupOfSite » or whatever value you want.

```
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/employees/create/?keyemp
loyee=groupSiteNorth&lastname=North&auto=1&field1=fakeEmpUsedForGroupOfS
ite
```

A-2.2- Create the group of site « myBigClient» using a customer. For simplication while using emplpoyees API, we could fill optional field1 with a fix value like « fakeEmpUsedForGroupOfSite » or whatever value you want.

```
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/customers/create/?keycod
eclient=myBigClient &name=Name of My Big Client
```

A-2.3- Create the activitylocation using « create or update » (with the auto=1 param) logic.

```
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/activitylocations/create
/?keycodesite=myKeySite1 &keycodeclient=myBigClient&name=
My wonderful site name
&manager_keyemployee=groupSiteNorth
```

Here we will be able to see the site on MoveWORK Connect and the 2 associated group of sites « North » and « Name of My Big Client ».

Both activity locations and group of sites will be synchronized every night with this methodology. Take in consideration that group of sites are create if you have at least 3 activity locations in it. So don't be afraid if empty or too small groups are removed Movework Connect side.

B- Retrieve time activity data from MoveWORK Connect

Each night, the hub editor will execute a cronjob (from his server) to retrieve time activity data from MoveWORK Connect environment.
Let's say today is 2018-11-23 for the purpose of this example. We will retrieve data for current day.

```
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/timeactivity/?from=2018-11-23 00:00:00&to=2018-11-23 23:59:59
```

For security purpose (in case the previous cron fails or if the hub editor server crash), he planned to make a weekly import (Sunday night) and of course manage the different entries using *keyevent+from+to+keyemployee+keycodesite* as a unique key in his source code)

```
http://api.hub.movework.net/KEY_DEV/KEY_PROJECT/timeactivity/?from=2018-11-19 00:00:00&to=2018-11-25 23:59:59
```

This is not a « must » follow process but only an existing business logics used by several of our hub editor client. Feel free to adapt it to your requirements or reinvent yours.

Change logs from previous major Hub versions

This part of the document will list all change logs between major Hub versions to let developper that was using old version to upgrade successfully, version after version.

Changelog from 2.3 to 3.x

- Globally we have remove *keymatricule* and replaced it by *keyemployee* attribute key.
- We have modified *manager*_keymatricule by *manager_keyemployee*
- We have added 4 optional fields on every API *field1*/*field2*/*field3*/*field4* to let hub editor map a bit of their data into our system and retrieve them from ***timeactivity***/ API for example.
- We have crated a new API method ***/absence/deletebykeyevent*** and added a querystring parameter ***keyevent*** for existing method ***/absence/deleteall.***

- We have created a new API ***surveys***/

- We have created a new API ***scenarios***/
- We have created a new API ***scenarios/attachments***

- We have created a new API ***oauth***/ to let you add an additional layer of security by using access_token as request header authorization Bearer token.

Change logs history

This part of the document will list all change logs history date by date so that you can know what have been changed, updated, fixed depending on the API version you implemented.

2021-08.26: ChangeLog on API {scenario} and {activitylocations}

- Hub API documentation updated to v3.912
- API /scenario was updated
    - when using a keycodesite linked to a workspace and a child account (not the main account of the hub connector key_project), the site is allowed

- API /activitylocations was updated
    - new parameter for /view and /index : show_workspacesLocations (by default 0). If 1, will retrieve data from child account linked to an allowed workspace (attached to the main account of the hub connector key_project)

2021-04.28: ChangeLog on API {oauth}

- Hub API documentation updated to v3.909
- API /scenarios was updated :
    - /scenarios/attachments/list added. Let you list all attachments for a given scenario instance
    - /scenarios/attachments/add added. Let you add a single attachment
    - /scenarios/attachments/remove added. Let you remove a single attachment
    - /index : add optional parameter showStepFormAsRawPdf. By default 0. Can be set to 1.
    - /gethistoricaldata : add optional parameter showStepFormAsRawPdf. By default 0. Can be set to 1.

2021-01.27: ChangeLog on API {oauth}

- Hub API documentation updated to v3.908
- API info was updated for Hub 2.3 and 3.0
    - add oAuthActivated parameter 1/0.
    - add oAuthActioAuth_access_token if oAuth mode is activated
    - add oAuth_expires_in parameter if oAuth mode is activated
- API oAuth was created for Hub 2.3 and 3.0
    - oauth/token let you add an additional layer of security by using access_token as request header authorization Bearer token.
- Global change for Hub 2.3 and 3.0
    - if oAuthActivated=1 (from info/), using access_token (from oAuth) is mandatory on ALL calls (using http header authorization bearer token)
    - if oAuthActivated=1, HTTPS is mandatory !

2020-10.12: ChangeLog on API {scenarios}

- API scenario for Hub 3.0 only
    - add method scenarios/updatestepadditionalfields to allow update on additional fields only for a given scenario step instance

2020-08.27: ChangeLog on API {scenarios}

- API scenario for Hub 3.0 only
    - add method scenarios/index to list all existing scenarios instances
    - add method scenarios/getdefinitions to list all existing scenarios definitions for given Hub account
    - add method scenarios/getdefinitionsteps to list all existing steps definition for a given scenario definition
    - add method scenarios/gethistoricaldata to list all historical changes for a given scenario instance, date range, or based on other filters
    - add method scenarios/create to create a new intance of scenario
    - add method scenarios/changestep to change step of a given "opened" scenario instance
    - add method scenarios/addcomment to add a single comment to a given scenario instance

2020-04-24: ChangeLog on API events/absence/deleteall and /deletebykeyevent

- API events/absences for Hub 3.0 only
    - add method absences/deletebykeyevent that allow deletion of one to many absences from keyevent parameter (matricule and keyemployee are optional)
    - add option parameter keyevent to method /absences/deleteall
    - in short both methods could do the same. Only mandatory parameter differ.

2019-01-21: ChangeLog on API activitylocations and employees

- API employees/ for Hub 3.0 only
    - Allow to show employee pin code using optional query parameter showPwd=1. Could be used on index/, view/, update/
- API activitylocations/ for Hub 3.0 only
    - add method creategroup/ that let you create a group of sites (GET or POST depending on the quantity of sites to create)
    - add method viewgroup/ to view group of sites or groups for a single site
    - add method deletesinglegroup/ to delete a single group of sites
    - add method deleteallgroupsforsinglesite/ to delete all groups for a single site
    - add method deletesinglesitefromgroup to delete a single row site/group
    - method activitylocations/addphonenumber is now public
    - method activitylocations/updatephonenumber is now public
    - method activitylocations/deleteallphonenumber is now public
    - method activitylocations/deletephonenumber is now public
    - method activitylocations/listphonenumbers is now public
- API info/ changed for Hub 3.0 only
    - display info regarding access rights READ/WRITE depending on APIs

2018-11-28: ChangeLog on API timeactivity

- API timeactivity/ for Hub 3.0
    - Add 1 new column : certified to results

2018-10-26: ChangeLog on API timeactivity

- API timeactivity/ for Hub 3.0
    - Add 2 new columns : fromPlanned and toPlanned to results

2018-09-17: ChangeLog on format

- new format allowed
    - Add format CSV allowed for exporting resuts. Columns plitted by ; and line by \r\n
- changes on API {surveys/answers} Hub 3.0
    - add optional parameter hidejsoncolumns to be used for example for csv format or simply to reduce http response size

2018-08-08: ChangeLog on employees and activitylocations

- changes on API {employees/} Hub 2.3 and 3.0
    - if keyEmployee/keyMatricule is matching an existing protected employee, this record will be returned without failure neither column real values. Instead ***RGPD PROTECTION*** will be displayed for each column. This "protected" record will be controlled/owned movework-connect side by the end user and not by the Hub editor/developer.

- changes on API {activitylocations/} Hub 2.3 and 3.0
    - if keyCodeSite is matching an existing protected employee, this record will be returned without failure neither column real values. Instead ***RGPD PROTECTION*** will be displayed for each column. This "protected" record will be controlled/owned movework-connect side by the end user and not by the Hub editor/developer.

2017-12-06: ChangeLog on employees

- changes on API {employees/} Hub 2.3 and 3.0
    - modify call to create/ method and update/method adding 3 optional fields :
        address
        zipcode
        city
    - update /view call adding address,zipcode,city values

2017-06-20: ChangeLog on activitylocations

- changes on API {activitylocations/} Hub 3.0 only
    - Hub 30 : add call to grab all group of sites /getallactivitylocationsgroups

2016-02-23: ChangeLog on activitylocations and timeactivity

- changes on API {activitylocations/}
    - add optional parameter ismobilelocation. if 1, zipcode is no more required. By default, ismobilelocation=0
- changes on API {timeactivity/}
    - Hub 2.3 : display only validated activities.
    - Hub 3.0 : by default display only validated activities. But you can display all activities with new parameter showOnlyValidatedActivities=1

2014-11-20: ChangeLog The Hub 3.0 release.

- changes on API {activitylocations/}
    - add new parameter "phonenumber" that is the main phone number for the site (update/create)

2014-05-06: ChangeLog The Hub from v2.1.3RC to 2.3 : This is the first stable public and complete release

- changes on API {info/}
    - add parameter hubversion indicating the version of Hub API related to the key_dev/key_proj couple. Usefull to avoid existing integration to be broken by improvement of Hub API server side. While your hubversion is not updated manually, Hub API server side won't change (and you won't have access to new features too).
    - add parameter mailnotification indicating the email that could be used for notifications (managed internally Movework side)
- changes on API {employees}
    - firstname is no longer mandatory
- changes on API {activitylocations}
    - keycodeclient is no longer mandatory. If filled it still has to match an existing customers !

2013-03-18: ChangeLog The Hub from v2.1.2RC to 2.1.3RC

- changes on API {events/interventions} :
    - Add new optional field "name" to methods
        [events/intervention/create]
        [events/intervention/update]
        [events/intervention/index].

- changes on API {customers/}
    - field "zipcode" is no longer required. Could be empty

2013-03-12: ChangeLog The Hub from v2.1RC to 2.1.2RC

- changes on API {events/interventions} :
    - Add new method events/interventions/index. Check documentation for more informations.

2013-03-08: ChangeLog The Hub from v1.0 to 2.1RC

- Tests to proceed (at least) to check Hub integration compliance editor side (from v1.0 to v2.1) :
    - Check that your wrapper for API {info} manage correctly new fields
    - Check that your wrapper for API {customer} doesn't break because of new field "siret" returned on customer/view.
    - Check that your wrapper for APIs events/* doesn't break because of the modification of type for returned field "duration" (from integer to float)
    - Check that your wrapper for API events/interventions doesn't break because of the new field "keyhub1" returned on events/interventions/view.
    - Check that your wrapper for API employees doesn't break because of the new field "keyunification" returned one employees/*.
- updates documentations & tools
    - Update technical documentation
    - Update hub-lib PHP
    - Update code sample query-builder
- changes on API {info} API.
    - Add 2 new fields in {info} API :
        [projectname] : name of the project related to given key_project
        [editorname] : name of the project related to given key_developper
- changes on API {customers}
    - Add new optional field "siret" (varchar[15]) for both method
        [customers/index]
        [customers/create]
        [customers/update]
        [customers/view]
- changes on API {events/*} :
    - Type of field "duration" is modified from int to float. It let you manage more precise interventions.
      No limitation on decimal counts. Methods affected by this modification:
        [events/intervention/create]
        [events/intervention/update]
        [events/intervention/index]
        [events/absence/create]
        [events/closure/create]
- changes on API {events/interventions} :
    - Add a new field called "keyHub1" (varchar[45]) that could be used when creating a new intervention.
      Could be usefull for particular use cases when hub editor want to add external business logic on event interventions (such as types, explanation, tags...).
      It's an optional field. Methods affected by this modification:
        [events/intervention/create]
        [events/intervention/update]
        [events/intervention/view]
    - Add 2 new optional parameters for [events/interventions/view] to filter on "keymatricule" and/or "keycodesite"
- changes on API {employees} :
    - New field "keyunification" is added to the definition of an employee.
      We strongly recommand to not use it as it is only used for particular (weird) use cases when employees have several keymatricule.
      Methods affected by this modification :
        Index, create,update,delete