



WeBeHome Open App API (2018-11-23)



WeBeHome

OpenAPI

API for App developers



Contents

| | |
|--|----|
| 1. Introduction..... | 6 |
| 2. Nomenclature and definitions..... | 6 |
| 3. Calling the OPEN API Service | 9 |
| 4. Contents of the JWT..... | 9 |
| 5. Examples..... | 11 |
| 5.1. Example 1, Create Web Tokens from a Login to enable use of the API sending arguments in the URL | 11 |
| 5.1. Example 2, JWT flow | 12 |
| 5.2. Example 2, Get a list of all devices using JWT in header and argument in payload | 13 |
| 5.1. Example 3, Get Terms of Service using both Arguments and JWT in URL..... | 14 |
| 6. OAuth2 | 15 |
| 7. ConnectionInfo2 | 16 |
| 8. ForgotPassword | 17 |
| 9. CreateWebTokens | 17 |
| 9.1. CreateWebTokens/CreateDevice..... | 18 |
| 9.2. CreateWebTokens/CheckLoginName | 18 |
| 9.3. CreateWebTokens/LoginAccountUser | 18 |
| 9.4. CreateWebTokens/NewCustomer..... | 19 |
| 9.1. CreateWebTokens/LogoutUser..... | 19 |
| 9.2. CreateWebTokens/Delete | 20 |
| 10. Location | 21 |
| 10.1. Location/ConnectionInfo..... | 21 |
| 10.2. Location/PairGateway | 23 |
| 10.3. Location/RegisterWebHook..... | 24 |
| 10.4. Location/GetStatus3 | 26 |
| 10.5. Location/GetDevices | 32 |
| 10.1. Location/GetDeviceList2..... | 33 |
| 10.2. Location/SaveDeviceList2 | 35 |
| 10.3. Location/Load | 35 |
| 10.4. Location/Save | 36 |
| 10.5. Location/RequestPermission (deprecated) | 37 |
| 10.6. Location/GetEvents | 38 |
| 10.7. Location/Clear..... | 39 |
| 10.8. Location/ArmAway..... | 39 |
| 10.9. Location/ArmHome | 39 |
| 10.10. Location/Disarm..... | 39 |
| 11. Device..... | 40 |
| 11.1. Device/Add | 40 |
| 11.2. Device/Remove | 41 |
| 11.3. Device/AddCancel | 42 |



- 11.4. Device/RemoveCancel 42
- 11.5. Device/LoadAdvanced (deprecated) 43
- 11.1. Device/SaveAdvanced (deprecated) 46
- 11.1. Device/SaveRelations 46
- 11.2. Device/ChangeStatus 47
- 11.3. Device/SetValue 47
- 11.4. Device/SaveFavorite (deprecated) 48
- 11.5. Device/SaveShowInMain 48
- 11.6. Device/<command> 49
- 11.7. Device/AddEvent 50
- 12. Group 51
 - 12.1. Group/Load 51
 - 12.2. Group/Save 52
 - 12.3. Remove 53
 - 12.4. Group/List 53
 - 12.5. Group/ChangeStatus 54
- 13. User 55
 - 13.1. User/Load 55
 - 13.2. User/Save 55
 - 13.1. User/ChangeEmailAndPassword (deprecated) 56
 - 13.2. User/List 57
 - 13.3. User/Invite 58
 - 13.1. User/LoadTermsOfService 59
 - 13.1. User/AcceptTermsOfService 59
 - 13.2. User/Messages 60
 - 13.3. User/MessageDismiss 60
 - 13.4. User/Delete (ready for test) 60
 - 13.5. User/Revoke 61
 - 13.1. User/GetRoles 61
 - 13.1. User/GetNotificationList 62
 - 13.2. User/SetNotification 62
- 14. UserDevice 62
 - 14.1. UserDevice/Save 63
 - 14.2. UserDevice/Delete 63
- 15. ActionSet 64
 - 15.1. ActionSet/List2 (deprecated) 64
 - 15.2. ActionSet/Load2 (deprecated) 66
 - 15.3. ActionSet/Save2 (deprecated) 67
 - 15.4. ActionSet/Remove 68
 - 15.5. ActionSet/GetDeviceList (deprecated) 69
 - 15.6. ActionSet/GetDeviceListLightSensor (deprecated) 69



- 15.7. ActionSet/GetDeviceListAutosun (deprecated) 69
- 15.8. ActionSet/GetDeviceListThermostat (deprecated) 70
- 15.9. ActionSet/GetHeatingZoneRelatedDoorWindows (deprecated) 70
- 15.10. ActionSet/SaveHeatingZoneRelatedDoorWindows (deprecated) 71
- 15.11. ActionSet/StartScene..... 72
- 15.12. ActionSet/SaveShowInMain 72
- 15.13. ActionSet Example contents..... 72
- 16. Action (deprecated) 73
 - 16.1. Action/Load (deprecated) 73
 - 16.1. Action Example content..... 74
 - 16.2. Action/Save (deprecated) 76
 - 16.3. Action/Remove (deprecated) 76
 - 16.4. Description of content..... 78
 - 16.4.1. ActionType..... 78
 - 16.4.2. ActionSubType 79
- 17. Data 84
 - 17.1. Data/CountryList..... 84
 - 17.2. Data/TimeZoneList 84
 - 17.3. Data/GeoNameList 84
 - 17.4. Data/LoadTermsOfService 85
- 18. FAQ (deprecated) 86
 - 18.1. FAQ/GetCategoryTree 87
 - 18.2. FAQ/GetArticle..... 88
- 19. Contact 89
 - 19.1. Contact/Request..... 89
- 20. Analytics (deprecated) 90
 - 20.1. Analytics/Track 90
- 21. Doc 91
 - 21.1. Doc/GetAddDeviceList 91
 - 21.2. Doc/GetAddContent 92
 - 21.3. Doc/GetRemoveContent 93
- 22. VideoSupport (deprecated)..... 94
 - 22.1. VideoSupport/InitSession 94
 - 22.1. VideoSupport/PollForOtherPart..... 94
- 23. Appendix 1 – Example flow - Starting an App 96
 - 23.1. ConnectionInfo2..... 96
 - 23.2. Data/LoadTermsOfService 96
 - 23.3. CreateWebTokens/CreateDevice..... 97
- 24. Appendix 2 – Example flow – Create new account 98
 - 24.1. CreateWebTokens/CheckLoginName 98
 - 24.2. CreateWebTokens/NewCustomer..... 98



- 24.3. Location/Load 99
- 24.4. Location/Save 100
- 24.5. Location/GetStatus3 100
- 24.6. User/LoadTermsOfService 101
- 24.7. User/AcceptTermsOfService 101
- 24.8. Location/GetStatus3 102
- 24.9. Location/GetStatus3 102
- 25. Appendix 3 – Example flow – User login 104
 - 25.1. CreateWebTokens/LoginAccountUser 104
 - 25.2. Location/GetStatus3 104
 - 25.3. User/Save 105
 - 25.4. Location/GetStatus3 105
 - 25.1. Location/GetStatus3 106
- 26. Appendix 4 – Example of Reponse from Location/GetStatus3 107
 - 26.1. Minimum content of ActiveLocation..... 118
- 27. Appendix 5 – Example of App Add device flow 120
 - 27.1. Doc/GetAddDeviceList 120
 - 27.2. Doc/GetAddContent 122
 - 27.3. Device/Add 122
 - 27.1. Device/LoadAdvanced..... 122
 - 27.1. Device/SaveAdvanced 124



1. Introduction

The Open API service is made both for our own software, user and 3:rd party suppliers.

2. Nomenclature and definitions

Generic Default JWT Token, used to call functions that do not require a user JWT token:

```
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJXQkgiLCJpYXQiOiJlMzkyNDA2NDMsImNsdxN0Z  
XJpZCI6MCwianRpIjowLCJ1aWQiOiJAsInV0eXB1IjoiUyIsImFwcCI6OSwiYXBwdHlwZSI6OSwidmVyIjoxMH0  
.qNe7ztFI3dhuQjJtOughEaxZHTW2kgwe6QpqworSK6s
```

ArtAndersen Default JWT Token

```
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJXQkgiLCJpYXQiOiJlMzkyNDA2NDMsImNsdxN0Z  
XJpZCI6MCwianRpIjowLCJ1aWQiOiJAsInV0eXB1IjoiUyIsImFwcCI6OSwiYXBwdHlwZSI6OSwidmVyIjoxMH0  
.ZRFpbPOusxRMevgwYXYu32LN16HEyjRZtfBnDEjg-vQ
```

| | |
|-------------|---|
| BaseUnit | Internal name for Location |
| SubUnit | Internal name for a device/component |
| DeviceUser | A user without a user account, instead the Device (=smart phone) itself is the same as the user |
| AccountUser | A user with a registered user account . The UserAccount is connected to one or more Devices (=smart phones) |
| UserID | UserID, a unique ID for a user within a Cluster |
| ClusterID | ClusterID, which Cluster are the devices and user connected to |
| BaseUnitID | Unique ID of the Location within a Cluster |
| App | Which type of App that is calling the API 1 = from other API 3 = IOS App 4 = Android App 5 = Web App 9 = Undefined |



WeBeHome Open App API (2018-11-23)

AppType

- 1 = WeBeHome standard app
- 2 = Moove branded app
- 3 = Hemmafönster
- 4 = JNa
- 5 = Tiivi
- 6 = Elitfönster
- 7 = KPK
- 8 = Outline

DeviceStatus
(UserDevice)

- 1= Enabled + Push enabled
- 10= Enabled + Push disabled
- 12 =Enabled but Push disabled since by system,
- 14= Enabled but Push disabled when user logged in
from other device and revokes all other pushes
- 20 = Disabled, both Login and Push

LanguageID

- 1 Svenska
- 2 English
- 3 Thai
- 5 Spanish
- 6 German
- 7 Portuguese
- 8 Greek
- 9 Dutch
- 10 French
- 11 Norska
- 12 Finnish
- 14 Danish



DisplayType

DisplayType Descr

| | |
|-----|---|
| 100 | On/off switch |
| 200 | Dimmer |
| 210 | Shade, no position, no end point |
| 230 | Shade, position + end point |
| 240 | Shade, position + end point (with tilt) |
| 241 | Shade, tilt (related to 240) |
| 250 | Copenhagen Blind position (NEW) |
| 251 | Copenhagen Blind tilt (NEW) |
| 300 | Open/closed status |
| 310 | Triggered |
| 320 | Motion/no motion |
| 330 | Alarm triggered/stopped (fire sensor etc) |
| 340 | Light sensor |
| 400 | Reading/measurement |
| 410 | Thermostat Setpoint |
| 420 | Thermostat Setmode |
| 500 | Key pad/remote control/siren etc |
| 510 | Copenhagen Blind Wall Controller |
| 600 | Camera |
| 800 | Unknown general |
| 810 | Unknow Z-Wave (On/off/Last signal like a 100) |
| 820 | Home Gateway |
| 830 | Alarm Baseunit |
| 920 | Group |
| 930 | Group with operation status |
| 950 | Favorite scenario |
| 992 | HTML text info |

Dash screen components

| | |
|------|------------------------------------|
| 1001 | Arm/home/disarm/clear btns |
| 1002 | WBH Shortcuts |
| 1010 | Top info (used both for HF and AA) |

HTTP Status codes

| | |
|-----|--|
| 200 | Request ok |
| 400 | Bad request = something is not ok with the request |
| 401 | Unauthorized = User or device has no access at all |
| 403 | Forbidden = user has access but not to this Location or from this device |



3. Calling the OPEN API Service

<https://webehome.com/API/OpenAPIService.svc/<function>?arg=yyy>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- HTTP POST where the content is the JSON object

Available methods to include the JWT

- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

Returns codes that are standard for most API calls when call is not successful. It then returns ReturnCode + ReturnMessage with http status 400

Some common returns codes are:

| | |
|-----|---|
| 216 | E-mail/Username already in use (when create new user) |
| 236 | User have no permission to this function |
| 274 | No Location selected |
| 512 | User don't have access to any location |

4. Contents of the JWT

Part 1: Header
Part 2: Payload
Part 3: Signature

The header, json object with:

| | |
|-----|-------|
| typ | JWT |
| alg | HS256 |

Payload, json object with:

| | |
|-----------|--|
| iss | WBH |
| iat | created date time, no of seconds since 1970-01-01 in UTC time |
| clusterid | which cluster the user device and user belongs to |
| jti | unique id for the device (DeviceID) within the cluster |
| uid | unique user id within the cluster |
| utype | UserType, Y=Account User, U=Device User, S=System user, Z=device only (no user) |
| app | Which type of App is the jwt used for Se chapter "Nomenclature and definitions" |



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| | |
|---------|---|
| apptype | Which type of AppType is the jwt used for See chapter "Nomenclature and definitions" |
| ver | Version of the payload content |



5. Examples

5.1. Example 1, Create Web Tokens from a Login to enable use of the API sending arguments in the URL

Before using the functions in the OpenAPI a device unique Json Web Tokens (JWT) is needed. This is done by calling some of the functions in the CreateWebTokens function. Only exception is the CreateWebTokens and ConnectionInfo which don't require a device unique JWT.

Step 1: Create a json argument for CreateWebTokens/LoginAccountUser

Example:

```
{
  "Created": "1435696282",
  "AppVersion": "400",
  "AppType": "2",
  "App": "3",
  "DeviceName": "WeBeHome iPad",
  "LoginName": "info@webehome.com",
  "Password": "password"
}
```

Step 2: Base64 encode the argument

Example:

```
ew0KIkNyZWFOZWQioilxNDM1Njk2MjgyliwgdQoiQXBwVmVyc2lvdil6ljQwMCIsDQoiQXBwVHlwZSI64oCdMiIsDQoiQXBwIjoiMyIsDQoiRGV2aWNITmFtZSI6IldlQmVlb21lIGlQYWQoLA0KIkxvZ2luTmFtZSI6ImluZm9Ad2ViZWVhbnVUuY29tliwgdQoiUGFzc3dvcmlQOiJwYXNzd29yZCINCn0=
```

Step 3: Call the Open API Service

<https://webehome.com/API/OpenAPIService.svc/CreateWebTokens/LoginAccountUser?arg=ew0KIkNyZWFOZWQioilxNDM1Njk2MjgyliwgdQoiQXBwVmVyc2lvdil6ljQwMCIsDQoiQXBwVHlwZSI64oCdMiIsDQoiQXBwIjoiMyIsDQoiRGV2aWNITmFtZSI6IldlQmVlb21lIGlQYWQoLA0KIkxvZ2luTmFtZSI6ImluZm9Ad2ViZWVhbnVUuY29tliwgdQoiUGFzc3dvcmlQOiJwYXNzd29yZCINCn0=>

Step 4: Take care of the return value

Example of return info (the jwt value is not a real jwt)

```
{
  "Created": "1435740272",
  "jwt": "ew0KInR5cCI6ICJKV1QiLA0KImFsZyI6ICJlUzI1NiINCn0=.ew0KImldhCI6IjE0MzU2OTYyODIiLCANCiJqdGkiOiI5MjUyIiwgdQoiRnVuY3Rpb24iOiJHZXRRCYXNlVW5pdFN0YXR1cyIsIA0KIkNsdXN0ZXJJRCI6IjEiLA0KIIVzZXJJROKAnTrigJ0gNTQzMTDigJ0sDQoiQmFzZVVuaXRJRCI6IjQ1MjEiLA0KIkFwcFR5cGUoIiwuNCiJFZGI0TW9kZSI6ImlIcyIsDQoiUmV0dXJuVHlwZSI6IkkFMTClSdQoiTGZzdEldGNoRGF0ZSI6IjIwMDAtMDEtMDEiDQo9DQo=.TJVA95OrM7E2cBab30RMHrHDcEfxjoYZgeFONFh7HgQ"
}
```

The jwt should be stored as safe as possible and used when calling other functions in the Open API Service. When Logout, the CreateWebTokens/Delete should be called to remove the device entry.



5.1. Example 2, JWT flow

App is starting

When the app is started it will register the device for push notifications at PushWoosh. The return value is a DeviceToken

No jwt → CreateWebTokens/CreateDevice

If there is no jwt then this is the first time the app is started. Then a device jwt should be created to enable sending push to the device even if no user is logged in. Create the jwt by calling CreateWebTokens/CreateDevice

If jwt → UserDevice/Save

If there is a jwt and a DeviceToken is received, then use the function UserDevice/Save to update the DeviceToken since it might have changed when if operating system is updated or it might have failed to register if app was started first time without internet connection

Login → CreateWebTokens/LoginAccountUser

When the user is logging in (jwt.utype = UserType = Y) , then call the CreateWebTokens/LoginAccountUser using the current jwt (which should be the one created with CreateWebTokens/CreateDevice). A new jwt is returned.

New installation → CreateWebTokens/NewCustomer

If a new installation (=new location + new customer + new user) is created, then call the CreateWebTokens/NewCustomer using the current jwt (which should be the one created with CreateWebTokens/CreateDevice). A new jwt is returned.

Logout → CreateWebTokens/LogoutUser

When user logout, the current jwt will be obsolete and a new jwt will be returned. The new jwt is return is without connection to a user and is the same that is return from the function CreateWebTokens/CreateDevice

This jwt should be stored and used in the app until the user log in or create a new customer which will return a new jwt



5.2.Example 2, Get a list of all devices using JWT in header and argument in payload

The list of devices, their status and a lot more information about a Location is returned by the function Location/GetDevices

Step 1: Create a JSON formatted argument for Location/GetDevices

Create a json object with the arguments like:

```
{
  "Created":"1435696282",
  "AppVersion":"400",
  "BaseUnitID":"4521",
  "ClusterID":1,
}
```

Step 2: Call the Open API service

Make a HTTP GET to

<https://webhome.com/API/OpenAPIService.svc/Location/GetDevices>

The payload should be the json object above

The Response header should include an Authorization string like:

Authorization:Bearer <jwt token>

Step 4: Take care of the json return object



6. OAuth2

OAuth2 can be used to get a Location unique JWT (AccessToken) which is used for all other calls to the OpenAPI. (The other method to get a JWT is to use CreateWebTokens function.

Authroize URL

`https://webehome.com/OAuth/Authorize?client_id=<client_id>&redirect_uri=<redirect_uri>&scope=accessory&response_type=code&state=<unique_state_id>`

This call returns the access key
The access key is then used to the next call

Token URL

`https://webehome.com/OAuth/Token?code=<access_key>&state=<unique_state_id>`

This call returns an AccessToken (= JWT) that should be used for all other calls to WeBeHome

Arguments

| | |
|--------------------------------------|---|
| <code><client_id></code> | Is the client id of the requesting system. |
| <code><unique_state_id></code> | A unique id that is created for the Authorize call and reused in the Token call |
| <code><access_key></code> | Is returned from the Authorize call |

Clients

Only approved and registered clients can call this function. Apply for a `<client_id>` to support@webehome.com together with information about the client and the redirect uri
If request is approved, WeBeHome will supply a client id together with a secret.



7. ConnectionInfo2

Check if there is an installation from the same public IP to guide user to create new installation or login. This function should be called with the "Default JWT Token" for Authorization.

<https://webhome.com/API/OpenAPIService.svc/ConnectionInfo2?arg=<argument>>

Arguments

| | |
|-----------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppType | 1=WeBeHome (default), 2=Moove, 3=Hemmafönster |
| Latitude | If not given, then cloud make a lookup on public IP |
| Longitude | If not given, then cloud make a lookup on public IP |

RETURNS a json object with

| | |
|--------------------|--|
| Created | When created in UTC seconds |
| ConnectionInfo | 0=No new gateway (=uninstalled) or alarm box found 1=Installed (paired) gateway found that user has access to 5=More than one Gateway found (paired or unpaired) |
| CountryCode | Country code, make a lookup of country based on the Public IP from the user |
| CountryPhonePrefix | Returns phone prefix |
| DefaultLanguageID | Default Language ID |

When ConnectionInfo = 1 or 5 then make Login as default
Otherwise make Create new installation as default



8. ForgotPassword

User enters the phone no and then the cloud sends a one time PIN code to the phone. When user enters the PIN code, it makes a CreateWebToken using the LoginName and the PIN code.

The function requires use of the Default JWT token.

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| Phone | Mobile phone no or email to the user |
| LanguageID | Optional |

RETURNS a json object

| | |
|-----------|---------------------------------------|
| Created | |
| LoginName | If a user is found, return login name |

Possible return codes

9. CreateWebTokens

Creates a device and user unique json web token object that should used in all other API calls except ConnectionInfo and CreateWebTokens

This function should be called with the **users existing JWT** OR a default JWT token for Authorization

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

Default JWT token is:

eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJXQkgiLCJpYXQiOiJE0MzkyNDA2NDMsImNsdxN0ZlXJpZCI6MCwianRpIjowLCJ1aWQiOiJAsInV0eXB1IjoiiUyIsImFwcCI6OSwiYXBwdHlwZSI6OSwidmVlIjoxiMH0.qNe7ztFI3dhuQjJtOughEaxZHTW2kgwe6QpqworSK6s

<https://webhome.com/API/OpenAPIService.svc/CreateWebTokens/<function>?arg=<argument>>

| | |
|------------|---|
| <function> | CreateDeviceUser (req. BaseUnitGUID) |
| | UpgradeToAccountUser (req. existing device user with its JWT) |
| | CreateNewCustomerUser |
| | LoginAccountUser |
| | DeleteDevice |



9.1.CreateWebTokens/CreateDevice

To be used for before a user login to enable sending push notifications to devices even if user has not logged in.

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| AppType | 1 = WeBeHome standard app 2 = Moove branded app |
| App | Se chapter "Nomenclature and definitions" |
| DeviceName | |
| LanguageID | |

Returns a json object with

| | |
|----------|---------------------------------|
| Created | When created in UTC seconds |
| jwt | jwt token |
| UserType | Z (Zero = no user, only device) |

9.2.CreateWebTokens/CheckLoginName

This function should be called with the default JWT token for Authorization or the UserDevice token created in function 9.1 (with UserType = Z)

| | |
|------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| AppType | 1 = WeBeHome standard app (default) 2 = Moove branded app 3 = Hemmafönster |
| App | Se chapter "Nomenclature and definitions" |
| LoginName | For Moove and Hemmafönster this is the Email |

Returns a json object with

| | |
|-----------|--|
| Created | When created in UTC seconds |
| Available | 0=login name is already in use – ask user to login instead 1=login name is valid to use (=don't exists) |

9.3.CreateWebTokens/LoginAccountUser

This function should be called with the default JWT token for Authorization or the UserDevice token created in function 9.1 (with UserType = Z)

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| AppType | 1 = WeBeHome standard app (default) 2 = Moove branded app |
| App | Se chapter "Nomenclature and definitions" |
| DeviceName | Name of device, like "Johns iphone" |
| LoginName | |
| Password | |



Returns a json object with

| | |
|------------|---|
| Created | When created in UTC seconds |
| jwt | jwt token |
| UserType | UserType, Y=Account User, U=Device User, S=System user |
| BaseUnitID | If set, then this Location should be used after login |
| ClusterID | This is the ClusterID to where the Location exits on |

Possible returns codes

| | |
|-----|---------------------------------|
| 138 | User name or password incorrect |
|-----|---------------------------------|

9.4.CreateWebTokens/NewCustomer

This function should be called with the default JWT token for Authorization or the UserDevice token created in function 9.1 (with UserType = Z)

It creates:

- A new Customer
- A new User
- A new UserDevice
- A new Location

And returns a JWT token for the user and a LocationID for the new Location

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| AppType | 1 = WeBeHome standard app 2 = Moove branded app 3 = Hemmafönster |
| App | Se chapter "Nomenclature and definitions" |
| DeviceName | Name of device, like "Johns iphone" |
| Email | = Login name |
| FirstName | |
| LastName | |
| Phone | Starting with +46 etc |
| LanguageID | If not set, then it takes LanguageID from Country and Country by look up Latitude and Longitude |
| Latitude | |
| Longitude | |

Returns a json object with

| | |
|------------|---|
| Created | When created in UTC seconds |
| jwt | jwt token |
| UserType | UserType, Y=Account User, U=Device User, S=System user |
| BaseUnitID | This is the Location that the new user is related to |
| ClusterID | This is the ClusterID to where the Location exits on |

9.1.CreateWebTokens/LogoutUser

This should be called with a real jwt

The return value is a new jwt that should be used in the app.

The returning jwt has no connection to the user (only to the device)



WeBeHome Open App API (2018-11-23)

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| AppType | 1 = WeBeHome standard app 2 = Moove branded app |
| App | Se chapter "Nomenclature and definitions" |
| DeviceName | |
| LanguageID | |

Returns a json object with

| | |
|----------|---------------------------------|
| Created | When created in UTC seconds |
| jwt | jwt token |
| UserType | Z (Zero = no user, only device) |

9.2.CreateWebTokens/Delete

This should be called with a real jwt which is the one that will be deleted

| | |
|-------------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |

Returns a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|



10. Location

<https://webehome.com/API/OpenAPIService.svc/Location/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- HTTP POST where the content is the JSON object except those functions with list argument
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

Information on Location controls

- Name of location
- Location of location (Country; City, Longitude, Latitude)
- TimeZone of location (based on country)

10.1. Location/ConnectionInfo

Check status of possible connected gateway

Arguments

| | |
|------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppType | 1=WeBeHome (default), 2=Moove, 3=Hemmafönster |
| ClusterID | |
| BaseUnitID | |
| LANMAC | Enter LAN MAC address of the Gateway to be added. Optional to use if no match or many matches is found using the clients IP |

RETURNS a json object with

| | |
|----------------|---|
| Created | When created in UTC seconds |
| ConnectionInfo | 0=No new (unpaired) gateway or alarm box found 1=Gateway found (paired) which user have access to and it is the Selected Location 2=Unpaired Location (=alarm box) found 3=Unpaired gateway found, connected 4=Unpaired gateway found, working with downloading first time firmware 5=More than one Location found (paired or unpaired) 6=More than one unpaired gateway found 7=Unpaired gateway found, connected and working or paired gateway by user which is working 9 = Gateway found at a Location to which user have access to but it is a different location than what is selected now 10 = Location has already a gateway, not possible to add one more. |
| ClusterID | Used when ConnectionInfo = 9 |
| BaseUnitID | Used when ConnectionInfo = 9 |



WeBeHome Open App API (2018-11-23)

Action based on ConnectionInfo

- 0 show nice message "No new Home Gateway found, use manual installation if the front light flash rapidly. If the cloud LED lights the it is already installed and you need to be invited to it by some of the user that have access to it"
- 1 go to Main page in app
- 2, 3 go to Pair Gateway using return BaseUnitBoxGUID
- 4, 7 show wait message like "Home Gateway is updating it software, please wait and don't turn off the power" until ConnectionInfo changes
- 5 show nice message "More than one new or existing installation found, please use manual installation if new home gateway should be connect or if you want access to existing installation, ask to be invited to the installation by a user that already have access to it.
- 6 show message "More than one new Home Gateway found, please use manual installation to select which one to install"
- 9 Show nice message that the Gateway belongs to the "Location XXXX" which the user have access to. Change to this location Yes or No.
- 10 Show nice message that "This Location has already one gateway, it is not possible to add one more"



10.2. Location/PairGateway

Pair a gateway to a Location that don't already have a Paired Gateway

Arguments

| | |
|-----------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | To which location the Gateway should be connected |
| ClusterID | Cluster of the Location to which it should be connected |
| BaseUnitBoxGUID | Reference to the Gateway that should be paired |

If BaseUnitGUID and ClusterID is not supplied, it takes the ClusterID from the first Location to which the User have access to.

WHEN successful paired RETURNS a json object with

| | |
|---------------|---|
| Created | When created in UTC seconds |
| BaseUnitBoxID | For info, to know it was added successfully |
| LANMAC | Lan mac for the paired GW |

When NOT successful, it returns ReturnCode + ReturnMessage with http status 400

Possible returns codes

| | |
|-----|---|
| 401 | Connection/pairing of Home Gateway did <u>not</u> succeed |
| 404 | No Home Gateway found |
| 405 | Home Gateway already paired |
| 512 | User has no access to Location |



10.3. Location/RegisterWebHook

Register a web hook for the Location. A web hook is a function that calls the given URL using the given Token when defined events is triggered (=which Type of WebHook).

Arguments in JSON Object

| | |
|------------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | <i>Optionally</i> , Default is 400 = Version 4.0.0 |
| BaseUnitID | <i>Optionally</i> , Default it takes the first that the user have access to |
| ClusterID | <i>Optionally</i> , when BaseUnitID is given then ClusterID should be supplied |
| ClientID | Defintion of the ClientID |
| ExternalSystemID | <i>Optionally</i> , ID of Location in the external system |
| Descr | A user defined name of the webhook |
| URL | URL to be called, example "https://<server>/registerevent.aspx |
| Token | Auth Token that should be used when calling the web hook |
| Option | <i>Optionally</i> : Type of web hook, see list below, default "StatusEvent" |

Option (the valid Type's are):

| | |
|--------------|--|
| StatusEvents | Events that change status and/or values of accessories |
| Remove | Remove the WebHook (match on token) |

Json Return Value

| | |
|---------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
|---------|---|

When getting HTTP error 400, the JSON objects that is returns looks like:

| | |
|---------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| ReturnCode | Numeric error code |
| ReturnMessage | Clear text description of error |

Possible ReturnCode's:

xxx User has no permission for this operation
xxx

WebHook callback

When events should be sent, WeBeHome will call the URL with:

- Make a http POST to the given URL
- Include the Token in the header as Authorization : Bearer <token>
- Have a JSON object in the content with the following design

Example for EventID 20019 (Open)

```
{
  "Created": 1435740272,
  "BaseUnitID":5555,
  "SubUnitID":12345,
  "EventID":20019,
  "OperationStatus":255
}
```

Example for EventID 20013 (Reading)

```
{
  "Created": 1435740272,
```




```
"BaseUnitID":5555,  
"SubUnitID":12345,  
"EventID":20019,  
"DataValue": 21.4  
}
```

Possible EventID's for the "StatusEvent" option are:

| | | |
|-------|-------------------------|---|
| 20019 | Open/Motion started | OperationStatus = 255 |
| 20020 | Close/Motion stopped | OperationStatus = 0 |
| 20013 | Reading updated | DataValue = <the reading, like temp etc> |
| 30034 | Swich/dimmer turned off | OperationStatus = 0 |
| 30035 | Swich/dimmer turned on | OperationStatus = 99 or 255 |
| 30036 | Dimmer dimmed | OperationStatus between 0 and 99, 0=off, 99=100% on |

WebHook error handling

If a POST to a URL does not return 200 (OK) it wait for 5 minute and then try again

If it has failed for 10 times the WebHook is disabled.

Events that is older than 1 hour are ignored.



10.4. Location/GetStatus3

Get all information about a Location and its devices.

Blue fields are not in use by Inwido

<https://webehome.com/API/OpenAPIService.svc/Location/GetStatus3?arg=<argument>>

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | If 0 then it takes the first that the user have access to |
| ClusterID | When BaseUnitID not given, then no ClusterID should be supplied |
| SubUnitID | Optional, get info for only 1 accessory, Hash is not used (NEW) |
| Hash | Last Hash from return value, empty if non received |

Reponse

See a full example of JSON return object in Appendix 4.

Root object

| | |
|-----------------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| Hash | Hash value of contents |
| LatestAppVersion | The latest AppVersion, used to check that the App is the latest version |
| ShowInMain | 0=has no items to show in main (=Favorites) 1=has items to show in main (=Has Favorites) |
| MenuSetting | See below (string) |
| Status | See below (Int16) |
| User | User object |
| Customer | Customer object |
| ActiveLocation | ActiveLocation object |
| Locations | List of Location objects |
| Types | List of ActionSet Types that can be added |
| ActionSets | List of ActionSets (automations) |

MenuSetting (pos 1 = first position), Value per position: 0=Show as normal, 1=Disable, 2=Hide

| | |
|--------|--------------------|
| Pos 1: | Add devices |
| Pos 2: | Config devices |
| Pos 3: | Cameras |
| Pos 4: | Chart |
| Pos 5: | Overview |
| Pos 6: | Invite user |
| Pos 7: | Pending requests |
| Pos 8: | Request permission |
| Pos 9: | Online store |

Status

| | |
|-----|-------------------|
| 1 | = No GW installed |
| 3 | = GW is offline |
| x | = others... |
| 100 | = All is ok |



User object

| | |
|---------------------|---|
| UserID | ID of the user |
| Phone1 | Mobile phone to enable SMS, should start with +XX (country code) |
| Email1 | |
| FirstName | |
| LastName | |
| NoUnreadNofications | Number of unread notifications for the user |
| DeviceName | Name of the device that the user currently use |
| ApproveTerms | 0=no (already approved), 1=yes (needs to be approved) |
| UserStatus | See below |
| PushStatus | 1=Enabled for this device, >9 = Disabled (11=disabled from App) (AbellUserDevice.DeviceStatus) |
| LanguageID | 1=Swedish, 2=English etc |
| DeviceToken | The PushWoosh Device token for the users device(phone) |

User Status (AbellUser.UserStatus)

Pos 1: C = Created but not logged in yet
 Y = Account user (user with account)
 U = Device user

Pos 9 = Type of Icons for change status.

0=Not defined for user, use Customer default instead
 1=House in, house out etc + shortcuts
 2=Lock, unlock, sleep + shortcuts
 3=House in, house out + hide shortcuts

Customer object

| | |
|--------------|------------------|
| CustomerName | Name of customer |
| Settings | |

Settings

Pos 9 = Type of Icon for change status:
 0=Not defined for customer, use from BaseUnit instead
 1=House in, house out etc (alarm)+ shortcuts
 2=Lock, unlock, sleep (smart home)+ shortcuts
 3=House in, house out (alarm)+ hide shortcuts
 4=Lock, unlock, sleep (smart home)+ hide shortcuts
 9=Hide status + hide shortcuts

ActiveLocation object

| | |
|-----------------------------------|--|
| BaseUnitID | ID of the Location |
| ClusterID | Which Cluster the Location belongs to |
| Descr | Name of location |
| NoOfImportantEventsSinceLastClear | No of important events since last clear |
| OperationStatus | Se below |
| OperationStatusInfo | Operation status/mode descry incl. who changed it and when (in text) |
| Status | Permission string |
| StructureChecksum | changes if structure changes of Active Location This is used to know if the App has to redraw all contents or pages or just update the value of each component. |

Tabs

HasGateway 0=no, 1=yes



OperationStatus: 4 positions, text field

Position 1

| Code | Old def | Alarm def | Smart home def |
|--------------|---------------|------------|----------------|
| 0 Disarm | Disarmed Home | Home day | |
| 1 Armed Home | Armed Night | Home night | |
| 2 Armed Away | Armed Away | Away | |
| 8 Monitor | Monitor | Monitor | |

Position 2

- 0 = online
- 1 = partly offline
- 9 = offline

Position 3

- 1 = Alarm connected
- 2 = No alarm connection (smart home solution)

Position 4 = Default type of icons for change status.

- 1=House in, house out etc + shortcuts when alarm is connected
- 2=Lock, unlock, sleep + shortcuts + when no alarm is connected

Tab object

| <i>Pages</i> | List of Page objects |
|--------------|----------------------|
| Descr | Name of the tab |

There are currently 3 tabs and they are in the following order:

| | |
|-------------|--|
| Status | Status tab in the App, has DisplayType 1010 and then componentes |
| Accessories | Has all the accessories |
| Automation | Has all automations and the types of automation |

Page Object

| | |
|-------------------|--|
| CountComponents | Total no of components for the page |
| Components | List of Components objects that does not belong to a Group |
| Groups | List of Group objects |

Group Object

| | |
|---------------------|---|
| CountComponents | Total no of components for the group |
| GroupNo | Identification of group |
| Descr | Descr of group |
| DisplayType | 920 = Normal group, 930 = Group with own operation status |
| Status | 0=Show group in same page, 1=Group on new page, 9=hidden |
| GroupProperties | Not used at the moment |
| OperationStatus | When DisplayType 930, then OperationStatus like pos 1 on Location |
| OperationStatusInfo | When DisplayType 930, OperationStatus in text |
| Components | List of Components objects |

Component object

| | |
|------------------|--|
| DisplayType | Define how data should be displayed/used |
| SubUnitTypeDescr | Descr of the type of device |
| SubUnitID | ID of the device |
| MasterSubUnitID | Reference to the master device (when properties) |
| SubUnitUniqueID | Unique ID for the device |



| | |
|------------------------|--|
| UnitNo | Sort order for the device |
| DataValue | Readings, like temperature, voltage etc, decimal sign = “.” |
| OperationStatus | Status about magnetic contacts, dimmers etc |
| LastDataEvent | Description of last event that affected OperationStatus/DataValue |
| ReadingUpdated | When OperationStatus / DataValue was changed |
| LastSignal | Descr of last IMPORANT signal/event, cleared on Clear |
| LastSignalDT | When last IMPORANT signal/event was received, cleared on Clear |
| Status | See below |
| Descr | Description of device |
| Unit | Unit for meausrements in DataValue, for example %, W, etc |
| ShowInMain | Show device in main Dashboard = Favorite device |
| Decimals | No of decimals to use when show DataValue |
| Setting | See below |
| LowBattery | True or False |
| BatteryLevel | 0 to 100, 255=no battery |
| LostConnection | 0, 1 or 9 (0=no, 1=yes, 9=unkown) |
| MT | Mounting type, 0=none, 10=Window, 20=Windowdoor, 30=Door |
| SensorType | Type of sensor, se below |
| AlertTime | 0=no alert time on this accessory, >0 alert time in minutes Used for example for Long Time Open alerts on doors/windows |
| ReadingAlertTimer | 0=no active alert, >0 no of minutes since alert timer started When AlertTime>0 and ReadingAlertTimer <AlertTime → no alert yet When AlertTime>0 and ReadingAlertTimer >AlertTime → alert |
| SubComponents | List of sub Components objects (only used for special DisplayTypes) |
| IncludedInAutoSunShade | >0 = is included in at least on Auto Sun Shade Action Set |
| HeatingZoneDescr | If value, then this Thermostat is part of a HeatingZone |
| HeatingZoneOpen | If value and >0, then HeatingZone has open Door/Window |

Setting: Defines which actions are allowed on the device

- 0=Show, Edit, Remove
- 1=Hide
- 2= Show, Remove
- 3=Show, Edit
- 4=Show (no edit or remove)

When DisplayType = 1010 = General Status info or 1020 Status info Favorites

- Descr = Header text
- LastDataEvent = Info text
- Status = which icon to show
 - 0 = No icon
 - 10 = OK icon
 - 20 = Exclamation icon
 - 30 = Info icon
- GroupNo = FAQ CategoryID
- UnitNo = FAQ SectionID
- OperationStatus = Which button to show, se below
- DataValue = internal ID for message to be shown

OperationStatus (for DisplayType = 1010) contains info on what a button should do

- 0 = No button
- 1 = Add gateway → go to Add gateway guide
- 2 = Add device → go to Add device page
- 3 = Help → go to Help using GroupNo=FAQ CategoryID and UnitNo = FAQ SectionID
- 4 = Add favorites → go to edit favorites
- 5 = Update App version, go to iTunes or Google play to get new version
- 6 = Update SmartBox version, send command Device/UPDATEPACKAGEWBH



Location object – which locations the user has access to

BaseUnitID
 ClusterID
 Descr Descr/name of the location

The Type object – which types of ActionsSet is possible to add

Type 0 = Event (not used in App)
 1 = Schedule
 2 = Scenario
 3 = Alarm (not used in App yet)
 4 = Auto Light Control
 5 = Heating Zone
 TriggerID If specific Trigger ID
 Descr Description of the ActionType

When Type = 4 (Auto Light Control)

DefaultAction1Value1 Position when below TriggerValue1
 DefaultAction1Value2 Tilt
 DefaultAction2Value1 Position when between TriggerValue1 and 2
 DefaultAction2Value2 Tilt
 DefaultAction3Value1 Position when higher than TriggerValue2
 DefaultAction3Value2 Tilt
 DefaultTimespan1 How long time in sec before go from lower to higher Action
 DefaultTimespan2 How long time in sec before go from higher to lower Action

The ActionSet object – which ActionSets are used in the Location

ActionSetID Is 0 when the ActionSet is an empty template
 MasterActionSetID Reference to Master if a child ActionSet
 Type type of ActionSet, see ActionSet/List (internal ActionType)
 Disabled **0**=No (=Active), **1**=Yes (=Disabled),
 2=Completed (=Disabled and completed),
 3=Not active (in multi selection choice, this choice is not the active one)
 10 =Paused, **11**=Incomplete (Disabled and missing info)
 Descr
 RelatedToGroupNo SCENARIO: 0=don't show, show Scenario at GroupNo
 ShowInMain SCENARIO: 0=no, 1=yes show in dashboard/mainpage
 TemplateActionSetID Keep track if an ActionSet is based on a Template.
 Should be saved as it was loaded with no change.
Conditions A list of Condition (currently only 1 condition)

Conditions, a list of Condition's for the ActionSet

TriggerID EVENT+ALARM: Trigger of the ActionSet
 TriggerDescr
 SubUnitID EVENT+ALARM: SubUnitID related to Trigger
 SubUnitDescr
 SubUnitTypeDescr
 GroupNo EVENT+ALARM: GroupNo related to Trigger
 ValidWeekdays char 7 pos, 1st pos = Monday,
 0=not active, 1=active (OBS lower case d in days)
 ValidFromTimeString Start time of day when it should be active,
 in format HHMM, default 0000 (not used by Scenario)
 ValidToTimeString Stop time of day when it should be active,
 in format HHMM, default 2359 (not used by Scenario)



WeBeHome Open App API (2018-11-23)

| | |
|----------------------|---|
| ValidOperationMode | 0=disarmed, 1=Home, 2=Away, 9=all modes, 10=home & away (not used by Scenario) |
| ReccuringType | SCHEDULE:0=run only once, 6=selected weekdays EVENT+ALARM: 0=default, 16=selected weekdays |
| ReccuringFreq | SCHEDULE: when ReccuringType between 1 and 5 |
| RandomTime | SCHEDULE: +/- random minutes add |
| SunRelated | SCHEDULE:, 0=on time, 1=sunrise, 2=sunset |
| SunRelatedAdjustment | +/- minutes to add to sun related time |
| NextDT | SCHEDULE: when it will run next time |
| NextDTnoRandom | SCHEDULE, time without RandomTime |
| TriggerValue1 | Break (low) point 1 when TriggerID 80 or 81 |
| TriggerValue2 | Break (high) point 2 when TriggerID = 81 |
| Action1_Value1 | Position when below TriggerValue1 |
| Action1_Value2 | Tilt |
| Action2_Value1 | Position when between TriggerValue1 and 2 |
| Action2_Value2 | Tilt |
| Action3_Value1 | Position when higher than TriggerValue2 |
| Action3_Value2 | Tilt |
| Timespan1 | How long time in sec before go from lower to higher Action |
| Timespan2 | How long time in sec before go from higher to lower Action |



10.5. Location/GetDevices

Get a plain list of devices(=accessories) that the partner supports.
Used to get a simple list of all devices that the user se in the app (=filtered list).

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | Optionally, default = "400" = Version 4.0.0 |
| BaseUnitID | Optionally, Default it takes the first that the user have access to |
| ClusterID | Optionally, needed when BaseUnitID is supplied |

RETURNS a json object with a "flat" list of Components

The return object is a Page json object that only contains Components. Also Groups are shown as Componentents (DisplayType = 920 or 930)

Component object

| | |
|------------------------|--|
| DisplayType | Define how data should be displayed/used |
| SubUnitTypeDescr | Descr of the type of device |
| SubUnitID | ID of the device |
| MasterSubUnitID | Reference to the master device (when properties) |
| SubUnitUniqueID | Unique ID for the device |
| UnitNo | Sort order for the device |
| OperationStatus | Status about magnetic contacts, dimmers etc |
| DataValue | Readings, like temperature, voltage etc, decimal sign = "." |
| Unit | Unit for meausrements in DataValue, for example %, W, etc |
| DataValue2 | Used for measurements devices to show measurement 2 in master |
| Unit2 | Unit for DataValue2 (from AppVer 429) |
| LastDataEvent | Description of last event that affected OperationStatus/DataValue |
| ReadingUpdated | When OperationStatus / DataValue was changed |
| LastSignal | Descr of last IMPORANT signal/event, cleared on Clear |
| LastSignalDT | When last IMPORANT signal/event was received, cleared on Clear |
| Status | See below |
| LowBattery | true or false |
| BatteryLevel | between 0 and 99, 255 = no value/no battery |
| LostConnection | 0=no, 1=yes connection is lost, 2, gateway lost connection, 9=unkown |
| Descr | Descr of device |
| ShowInMain | Show device in main Dashboard = Favorite device |
| Decimals | No of decimals to use when show DataValue |
| Setting | Se below |
| NDF | New device flag, 0=not a new device, 1=new device |
| MT | Mounting type, 0=none, 10=Window, 20=Windowdoor, 30=Door |
| SensorType | Type of sensor, se below |
| AlertTime | 0=no alert time on this accessory, >0 alert time in minutes |
| ReadingAlertTimer | Used for example for Long Time Open alerts on doors/windows |
| | 0=no active alert, >0 no of minutes since alert timer started |
| | When AlertTime>0 and ReadingAlertTimer <AlertTime → no alert yet |
| | When AlertTime>0 and ReadingAlertTimer >AlertTime → alert |
| SubComponents | List of sub Components objects (only used for special DisplayTypes) |
| IncludedInAutoSunShade | >0 = is included in at least on Auto Sun Shade Action Set |



10.1. Location/GetDeviceList2

Get a list of of devices and groups regardless if they are supported in the app or not. To be used when show devices in edit mode.

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | Option, Default it takes the first that the user have access to |
| ClusterID | When BaseUnitID not given, then no ClusterID should be supplied |

RETURNS same as Location/GetDevices

Example response:

```
{
  "CountComponents": 0,
  "BaseUnitID": 12639,
  "ClusterID": 1,
  "Components": [
    {
      "DisplayType": "820",
      "SubUnitTypeDescr": "Home Gateway HG2",
      "MasterSubUnitID": "122810",
      "SubUnitID": "122810",
      "SubUnitUniqueID": "ZW0D9D93FCC-001",
      "UnitNo": "1",
      "DataValue": "",
      "OperationStatus": "0",
      "Status": "001000101",
      "Descr": "Home Gateway HG2",
      "ShowInMain": 0,
      "Setting": "3",
      "MT": 0,
      "SensorType": "",
      "HeatingZoneOpen": 0,
      "HeatingZoneActionSetID": 0,
      "AlertTime": 0,
      "ReadingAlertTimer": 0,
      "LowBattery": false,
      "BatteryLevel": 0,
      "LostConnection": 0
    },
    {
      "DisplayType": "100",
      "SubUnitTypeDescr": "Switch",
      "MasterSubUnitID": "127621",
      "SubUnitID": "127621",
      "SubUnitUniqueID": "ZW0D9D93FCC-011",
      "UnitNo": "2",
      "DataValue": "",
      "OperationStatus": "255",
      "ReadingUpdated": "Jan 4, 20:25",
      "Status": "001000111",
      "Descr": "Test plug2",
      "LastDataEvent": "Switch turned on",
      "ShowInMain": 0,
      "Setting": "0",
    }
  ]
}
```



```
"MT": 0,
"SensorType": "25",
"HeatingZoneOpen": 0,
"HeatingZoneActionSetID": 0,
"AlertTime": 0,
"ReadingAlertTimer": 0,
"LowBattery": false,
"BatteryLevel": 0,
"LostConnection": 0
},
{
  "DisplayType": "920",
  "GroupNo": "1",
  "Unit": "0000000000",
  "Status": "0",
  "Descr": "Livingroom",
  "ShowInMain": 0,
  "Setting": "0",
  "MT": 0,
  "HeatingZoneOpen": 0,
  "HeatingZoneActionSetID": 0,
  "AlertTime": 0,
  "ReadingAlertTimer": 0,
  "LowBattery": false,
  "BatteryLevel": 0,
  "LostConnection": 0
},
{
  "DisplayType": "250",
  "SubUnitTypeDescr": "Copenhagen Blind",
  "MasterSubUnitID": "123236",
  "SubUnitID": "123236",
  "SubUnitUniqueID": "ZW0D9D93FCC-009",
  "UnitNo": "1",
  "DataValue": "",
  "OperationStatus": "0",
  "ReadingUpdated": "06:30",
  "Status": "001000101",
  "Descr": "Blind - Sydlig vindue",
  "LastDataEvent": "Switch dimmed",
  "ShowInMain": 0,
  "Setting": "0",
  "MT": 0,
  "SensorType": "26",
  "HeatingZoneOpen": 0,
  "HeatingZoneActionSetID": 0,
  "AlertTime": 0,
  "ReadingAlertTimer": 0,
  "LowBattery": false,
  "BatteryLevel": 0,
  "LostConnection": 0
},
]
}
```

→ this is the group name



10.2. Location/SaveDeviceList2

Used when devices and groups should be reordered.

Argument (arg=) like

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | Option, Default it takes the first that the user have access to |
| ClusterID | When BaseUnitID not given, then no ClusterID should be supplied |

List argument (list=) with list of components and groups

The contents should be the same as the return result from GetDeviceList but in a new order. GroupNo should be kept as they are and the backend will assign new GroupNo and UnitNo

Example of list content

```
[
  {
    "UnitNo": "1",
    "SubUnitID": "122810",
    "DisplayType": "820"
  },
  {
    "UnitNo": "2",
    "SubUnitID": "127621",
    "DisplayType": "100"
  },
  {
    "GroupNo": "1",
    "DisplayType": "920"
  },
  {
    "UnitNo": "1",
    "SubUnitID": "123236",
    "DisplayType": "250"
  }
]
```

→ First device, does not belong to a group

→ Second device, does not belong to a group

→ GroupNo 1

→ Third device, belongs to group no 1

RETURNS same result as Location/GetDeviceList2 with the new GroupNo/UnitNo

10.3. Location/Load

Only users with role SuperUser have access to this function

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |

RETURNS a json object



| | |
|----------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| BaseUnitID | |
| ClusterID | |
| Descr | Name of the location |
| Longitude | |
| Latitude | |
| GeoNameID | GeoNameID of city → used to lookup City |
| GeoName | City |
| CountryCode | Code of country → used to lookup Country |
| CountryName | |
| TimeZone_Code | ID of time zone → used to lookup TimeZone |
| TimeZone_Name | Name of time zone |
| CurrentLocalDT | Local date/time using the returned TimeZone in sec since 1970-01-01 |
| Street | |
| COaddress | |
| City | |
| ZipCode | |

10.4. Location/Save

First make Load of the Location object, then update values and finally call Save
Only users with role SuperUser have access to this function

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| Descr | Name of the location |
| ID | = GeoNameID (used to find Country and City) |
| Code | = TimeZone_Code |
| Longitude | |
| Latitude | |
| Street | |
| COaddress | |
| City | |
| ZipCode | |

If no GeoNameID is not given, then it takes the one that is closest based on Longitude and Latitude
If Longitude and Latitude is not given, then it takes Longitude and Latitude from the GeoName.

RETURNS a json object

Created



10.5. Location/RequestPermission (deprecated)

Request permissions to a Location. Can be used for two purposes:

- 1) When a user starts the App and a paired gateway is found. Then this function can be used to request permission to it. Then UserID field should not be used
- 2) When a SuperUser wants to Grant users access that it owned by the same Customer as the Location

Argument

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The Location |
| ClusterID | Cluster of the Location |
| Password | Optional Password, used to get access to Locations with BaseUnitAuthLevel = PASSWORD |
| UserID | Optional, The UserID who request permission If no user is give, then the current logged in used is used. The user has to belong to the same Customer as the Location. |
| ID | Optional: RoleID for user (optional) |

ID (RoleID) list:

1=SuperUser, 2=User, 3=Viewer, 4=Employee, 5=Neighbor, 6 = Support user, 7=Child

Default Role for RequestPermission for own user to new site SuperUser

Default Role for RequestPermission for other user is User

RETURNS a json object with

| | |
|------------------|---|
| Created | When created in UTC seconds |
| PermissionStatus | 0 = Permission is now granted 2 = Request is sent to master user |

When NOT successful, it returns ReturnCode + ReturnMessage with http status 400

Possible returns codes

274 No Location selected

Xxx Location requires that user have an account and are logged in to request permission



10.6. Location/GetEvents

Get a list of events for the Location

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The Location |
| ClusterID | Cluster of the Location |
| SubUnitID | Optional, to limit event for a specified SubUnit |
| GroupNo | Optional, to get events for a specified GroupNo |
| LanguageID | |
| Severity | 0 = all 108 = alarm and important events, 10 = only alarm |
| Count | Optional, max no of records to return, default is 25 |
| DT | Optional, From Date, not given = from last ClearDate |
| DT2 | Optional, To Date, not given = until current date/time |

RETURNS a json object with a list of events

| | |
|--------|--|
| DataID | |
| DT | When it happened, date in string format |
| Row1 | Info about SubUnit (SensorType + Description) |
| Row2 | Info about Event (EventDescr + DataValue + Unit + UserName + RSSI) |

Example response:

```
{
  "BaseUnitID": 10784,
  "ClusterID": 1,
  "Data": [
    {
      "DataID": 885665390,
      "DT": "04:55",
      "Severity": 0,
      "Row1": "",
      "Row2": "Switch turned off "
    },
    {
      "DataID": 884087136,
      "DT": "Jan 4, 21:18",
      "Severity": 0,
      "Row1": "",
      "Row2": "Switch turned off "
    }
  ]
}
```



10.7. Location/Clear

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The Location |
| ClusterID | Cluster of the Location |

Clears all events (is set ClearDT to current date/time) and clear events in Alarm base unit if that is connected.

RETURNS a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|

10.8. Location/ArmAway

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The Location |
| ClusterID | Cluster of the Location |
| GroupNo | 0=Main zone (groupno 0 to 79) 91 to 99 = Partial Zone |

10.9. Location/ArmHome

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The Location |
| ClusterID | Cluster of the Location |
| GroupNo | 0=Main zone (groupno 0 to 79) 91 to 99 = Partial Zone |

10.10. Location/Disarm

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The Location |
| ClusterID | Cluster of the Location |
| GroupNo | 0=Main zone (groupno 0 to 79) 91 to 99 = Partial Zone |



11. Device

Example with HTTP GET

<https://webehome.com/API/OpenAPIservice.svc/Device/<function>?arg=<argument>>

Example with HTTP GET with list1 and list2

<https://webehome.com/API/OpenAPIservice.svc/Device/<function>?arg=<argument>&list=<list>&list2=<list2>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- HTTP POST where the content is the JSON object except those functions with list argument
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

11.1. Device/Add

| | |
|----------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | |
| BaseUnitID | |
| ClusterID | |
| DocID | Reference to which device to add, 0=any Z-Wave Slave device |
| SendID | 0 or not sent when call first time, subsequent call, use return value |
| DT | 0 or not sent when call first time, subsequent call, use return value |
| Status | Empty(="") or not included when called first time subsequent call, use return value |

RETURNS a json object

| | | |
|-----------------|--|---|
| Status | #starting | Command sent to gateway |
| | #waiting | Gateway is waiting for device to be included |
| | #working-Found slave | Slave device found |
| | #working-Found controller | Controller found |
| | #ok | Device added and interview process starts |
| | #sync | Waiting for data to be synchronized with cloud |
| | #ready | Device added and SubUnitID is returned |
| StatusDescr | #error | Add device failed |
| | #cancel | Add devices cancelled, either by timeout or by user |
| StatusDescr | User description of status | |
| SendID | ID of the command that was sent | |
| DT | UTC Date and time when command was started | |
| SubUnitID | when >0 it contains ID of the added device | |
| | When returned, the function is ready | |
| DisplayType | when SubUnitID>0 | |
| SubUnitTypeID | when SubUnitID>0 | |
| HideCancel | when =1, then Hide Cancel | |
| Descr | when SubUnitID>0, Descr of device type (SubUnitTypeDescr) | |
| DocID | when SubUnitID>0, then ID to documentation | |
| ManufactureInfo | when device has been added, it returns "yes" if manufacture info has been received and "no" if not. If not, then the recommendation is to remove and add device again since we don't know what device it is. | |



POSSIBLE ERRORS

- 212 No contact with a new device, no new device added!
- 236 User have no permission for this operation
- 302 Device not found
- 306 No response from or contact with Home Gateway → TEST
- 406 More than one Gateway connected to this Location, not possible to add/remove devices using the App
- 407 No Gateway connected that can add/remove this type of device
- 408 Gateway is offline, not possible to do the requested action!
- 505 No more devices can are allowed to be added with the current subscription

11.2. Device/Remove

If SubUnitID contains the Z-Wave Gateway, then it makes a “Remove any” device.

| | |
|----------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | |
| BaseUnitID | |
| ClusterID | |
| SubUnitID | Which device to remove |
| SendID | 0 or not sent when call first time, subsequent call, use return value |
| DT | 0 or not sent when call first time, subsequent call, use return value |
| Status | Empty(="") or not included when called first time subsequent call, use return value |

RETURNS a json object

| | | |
|---------------|---|---|
| Status | #starting | Command sent to gateway |
| | #waiting | Gateway is waiting for device to be included |
| | #ok | Device added and interview process starts |
| | #sync | Waiting for data to be synchronized with cloud |
| | #ready | Device removed and SubUnitID is returned If SubUnitID is missing or 0 then “No revice is removed or an unkown device is removed” |
| | #error | Add device failed |
| | #cancel | Add devices cancelled, either by timeout or by user |
| StatusDescr | User description of status | |
| SendID | ID of the command that was sent | |
| DT | UTC Date and time when command was started | |
| SubUnitID | ID of removed device | |
| DisplayType | DisplayType of removed device | |
| SubUnitTypeID | Type of removed device | |
| Descr | Description of removed device, used to show to user | |
| HideCancel | when =1, then Hide Cancel | |

Possible errors

- 236 User have no permission for this operation
- 302 Device not found
- 306 No response from or contact with Home Gateway → TEST



- 406 More than one Gateway connected to this Location, not possible to add/remove devices using the App
- 407 No Gateway connected that can add/remove this type of device
- 408 Gateway is offline, not possible to do the requested action!

11.3. Device/AddCancel

Adding of Z-Wave devices can be cancel.

| | |
|----------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | |
| BaseUnitID | |
| ClusterID | |
| DocID | Reference to which device to add, 0=any Z-Wave Slave device |
| SendID | Same SendID as was returned from Add function |
| DT | 0 or not sent when call Device/Add or Device/Remove, subsequent call, use return value |
| Status | Empty or not included when called first time Subsequent call, use return value |

RETURNS a json object

| | | |
|---------------|--|--|
| Status | #starting #waiting #ok #ready | Command sent to gateway Waiting to cancel to execute Waiting to sync with cloud Cancel ready, possible SubUnitID returned |
| StatusDescr | User description of status | |
| SubUnitID | when >0 it contains ID of the added device When returned, the function is ready | |
| SubUnitID | ID of removed device | |
| DisplayType | DisplayType of removed device | |
| SubUnitTypeID | Type of removed device | |
| Descr | Description of removed device, used to show to user | |

POSSIBLE ERRORS

- 306 No response from or contact with Home Gateway → TEST
- XXX Cancel only possible when adding Z-Wave devices → ADD
- 408 Gateway is offline, not possible to do the requested action!

11.4. Device/RemoveCancel

Same arguments as Device/AddCancel



11.5. Device/LoadAdvanced (deprecated)

Returns info about the device when in edit mode

| | |
|--------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | |
| BaseUnitID | |
| SubUnitID | |
| ClusterID | |
| Option | Clear “new device flag”, empty = no, CLEARNDF =clear flag APPEDIT = from edit device GUIDE = from add device guide |
| MountingType | Is used when Option = GUIDE to know which default values should be returned. |
| TriggerID | OPTION. Used only when a device is loaded in the Auto Sun Shade Action Set to defined which default TriggerValues to return. TriggerID 80 = Simple Auto Sun Shade and TriggerID 81 = Advanced Auto Sun Shade. |

RETURNS a json list object

Root contains values + a list of Fields

| | |
|---------------|-------------------|
| Created | |
| SubUnitID | |
| DisplayType | |
| Fields | A list of Field's |

Field

| | |
|--------------------|--|
| Code | See list below |
| Property | 1=Read only, 2=Edit, 9=Hidden |
| Descr | Description of the setting |
| Info | More text info about the control |
| Type | See list below |
| Title1 | Contains text if Value1 needs a title |
| Value1 | |
| Title2 | |
| Value2 | |
| Title2 | |
| Value3 | |
| Decimals | |
| Unit | Possible Unit of the value (like degree etc) |
| Min | Min value |
| Max | Max value |
| Step | Step value |
| PendingValue | |
| ProposedValue | |
| FactoryValue | |
| OptionList1 | A list of Option's for Value1 |
| OptionList2 | |
| OptionList3 | |
| DeviceRelationList | A list of DeviceRelation |

Option



OptionValue Value of the option
OptionDescr Description of the value

DeviceRelation

object, of related and possible related devices for Moove Remote only
SubUnitTypeDescr Descr of the type of devices
Descr Descr of group/device
ID ID to device when DisplayType is 100 to 899
GroupNo Group no
RelationType 0=No relation, 1=Moove Remote to Moove blind

Data fields (view or edit):

| ID | Name | Value's content | Type |
|-----|------------------|---|---------------------------|
| F01 | Type of device | SubUnitTypeID | 3 or 4 (90 when 1 option) |
| F03 | Description | Description | 3 |
| F04 | GroupNo | GroupNo | 4 |
| F0I | Upper limits | LowLimit & HighLimit | 7 |
| F0P | Lower Limits | LowLimitTrigger, HighLimitTrigger | 7 |
| F21 | Device category | | 4 |
| F22 | MountingType | | 4 |
| F5B | Controlled blind | use DeviceRelationList | 9 |
| F5C | AlertTime | Time in minutes Descr = Descr when value1 = 0 (function = Off) Info = Descr when value1 > 0 (function = On) Value2 = default time (when change from Off to On) | 10 |
| F5E | DataValue | Current value of device | 2 |

Information fields (no edit):

| ID | Name | Value's content | Type |
|-----|--|-----------------|----------|
| FAA | Gateway SW version (Descr = header, info=text) | | 90 |
| FAB | Gateway Firmware (Descr = header, info=text) | | 90 |
| FS5 | General accessory status info, HTML text Descr = header, Info = text Value1 = optional FAQ Category ID, Value2 = optional FAQ Section ID Value3 = optional Icon, 1=OK, 2=Alert, 3=Lost contact, 4=Low bat, 5=Lost contact + Low battery | | 91 (new) |
| FS6 | Is accessory property information, HTML text Descr = header, Info = text, Value1=SubUnitID of Actual device | | 90 (new) |
| FS7 | MinMaxTriggerValues (commonly Property=9=Hidden) Value1 = MinTriggerValue, Value2=MaxTriggerValue Taken from device definition | | 2 |
| FS8 | DefaultTriggerValues (commonly Property=9=Hidden) Value1 = LowValue, Value2=HighValue Taken from device definition | | 2 |

Button fields

| | | |
|-----|--|----|
| FX1 | BTN: Save button | 18 |
| FX3 | BTN: Remove button | 18 |
| FX6 | BTN: Remove failed button (works same as Remove Btn) | 18 |



| | | |
|-------------------|---|----|
| FX7 | BTN: Update Z-Wave network (REQNETWORKUPD) | 8 |
| FX8 | BTN: Remove any Z-Wave device | 8 |
| FX9 | BTN: Reboot and upgrade HG2 (REBOOT) | 8 |
| FXA | BTN: Reset Z-Wave network (with Are you sure?) (SETDEFAULT) | 18 |
| Until version 423 | | |
| FXB | BTN: Force communication (FORCENOP) | 18 |
| After version 423 | | |
| FXB | Link button, go to Force comm page with info and START btn | 19 |

Definition of Type

- 1 Input field: Integer
- 2 Input field: Numeric value with decimals
- 3 Input field: Text
- 4 Input field: Drop down, list of values in OptionList
- 5 Input field: Date & time
- 6 Input field: Checkbox, 0=not checked, 1=checked
- 7
- 8 Button, Descr = text on btn,
- 9 DeviceList, select one or many

- 10 Integer value with Toggle field on/off and default value in Value2, Empty = No value
- 11 Upper limit, Value1 = Upper limit, Value2 = Restore value (Value1>=Value2)
- 12 Lower limit, Value 1 = Lower limit, Value2 = Restore value (Value1<=Value2)
- 13 Value1+Value2, Value1 has to be same or lower than Value 2 (used to show info)
- 18 Btn with Are You Sure question
- 19 Link button

- 90 Pure HTML text, Descr=header, Info=text (from ver 404)
- 91 Top info, Descr = Header, Info = Text (from ver 404)
Value 1 = optional FAQ Category ID, Value 2 = optional FAQ Section ID
- 99 Hidden, only to be use to get data from in special cases



11.1. Device/SaveAdvanced (deprecated)

Corresponds to Device/LoadAdvanced

Argument (arg=) like:

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | |
| BaseUnitID | |
| SubUnitID | |
| ClusterID | |
| Option | Clear "new device flag", empty = no, CLEARNDF =clear flag |

List argument (list=)

| | |
|--------|---------------------------------|
| Code | See list in Device/LoadAdvanced |
| Value1 | |
| Value2 | |
| Value3 | |

DeviceRelationList (list2=) 2nd list, for example list of devices controller by Moove Wall Controller
 ID ID of devices controlled by the Moove Wall Controller

11.1. Device/SaveRelations

Save relations to a Device(accessory). For example relation between a Art Andersen Wall Controller and the Blinds it control.

Option to use SaveAdvanced with Code= F5B (related blind to a Wall Controller)

Argument (arg=) like:

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | |
| BaseUnitID | |
| SubUnitID | For example, the ID of a Wall Controller |
| ClusterID | |

List argument (list=)

| | |
|-----------|---|
| Code | RelationType, 1=Moove master blind, 2=Moove slave blind |
| SubUnitID | TargetSubUnitID = ID of the blind (position) |

To delete all relations, send a list with RelationType=1 and SubUnitID=0

Example:

Code=1, SubUnitID=0



11.2. Device/ChangeStatus

Change status of a switch, dimmer and shade

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| SubUnitID | ID of the device to change status for |
| Value | New status of the device 0=Off, 99 and 255=On, 1-98 = Dim, 256 = Stop move 261 = Change to Favorite value |
| SubUnitID2 | ID of second (for Moove shades tilting) device to change |
| Value2 | Value of second device to change |

RETURNS a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|

11.3. Device/SetValue

Set value of for example an Thermostat
This function does not wait for the device to reply

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| SubUnitID | ID of the device to change status for |
| DataValue | For thermostat, this is the Setpoint value |

RETURNS a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|



11.4. Device/SaveFavorite (deprecated)

Save favorite value/status of a device

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| SubUnitID | ID of the device to change status for |
| Value | New status of the device 0=Off, 99 and 255=On, 1-98 = Dim |
| SubUnitID2 | ID of second (for Moove shades tilting) device to change |
| Value2 | Value of second device to change |

RETURNS a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|

11.5. Device/SaveShowInMain

Change if a device should be shown in Main/Dashboard or not (named Favorites tab in new Inwido Apps)

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| SubUnitID | ID of the device to change status for |
| Value | 0=Don't show in Main/Dashboard, 1=Show in Main/Dashboard |

RETURNS a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|



11.6. Device/<command>

Send a command to the device

Created Created date time, no of seconds since 1970-01-01 in UTC time
AppVersion
BaseUnitID
SubUnitID
ClusterID

Commands when a Home Gateway HG2 Z-Wave controller:

- SETDEFAULT ZwaveReset
- REQNETWORKUPD ZwaveUpdateNetwork
- REBOOT Reboot home gateway
- FORCENOP Force communication to accessory
- ~~- CLOUD-CPH-DEMO-ON Add Copenhagen blind demo mode~~
- ~~- CLOUD-CPH-DEMO-OFF Remove Copenhagen blind demo mode~~
- UPDATEPACKAGEWBH Update WBH gateway software if new updates available



11.7. Device/AddEvent

Add an event to the given device(accessory)

Arguments

| | |
|------------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | <i>Optionally</i> , default = 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| SubUnitID | ID of the device to add event to (integer) |
| ExternalDeviceID | <i>Optionally</i> , ID of device in external system (string) If supplied, the SubUnitID is not necessary to supply |
| EventID | See list below |
| DataValue | See below |

RETURNS a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|

EventID

When an accessory/device/sensors value is updated, like a Temperature or Watt

| | | |
|-------|-----------------|---------------------|
| 20013 | Reading updated | DataValue = reading |
|-------|-----------------|---------------------|

When an magnetic contact or motion detector change status

| | | |
|-------|-----------------------|---------------|
| 20019 | Open/Motion started. | DataValue=255 |
| 20020 | Closed/Motion stopped | DataValue=0 |

When a switch, dimmer or blind is changed

| | | |
|-------|-------------------|---------------------------------------|
| 30034 | Switch turned off | DataValue=0 |
| 30035 | Swich turned on | DataValue=99 |
| 30036 | Dim | DataValue between 0 to 99 (dim level) |



12. Group

<https://webhome.com/API/OpenAPIService.svc/Group/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

<function> Load
 Save
 Remove
 List
 ChangeStatus

12.1. Group/Load

Loads information about a Group

It also includes an array of Devices assign to the Group and devices that is not assigned to any Group.

Created Created date time, no of seconds since 1970-01-01 in UTC time

AppVersion

BaseUnitID

ClusterID

GroupNo

RETURNS a json object

Created

GroupNo 1 to 99

Descr

GroupType 0=show group on same column, 1 = new column, 9=hidden group

GroupRelationList

object, of related and possible related devices for Moove Remote only

SubUnitTypeDescr Descr of the type of devices

Descr Descr of group/device



| | |
|--------------|---|
| ID | ID to device when |
| GroupNo | Group no, the own GroupNo or 0 for no group |
| EditDisabled | 0=no (default), 1=yes, not possible to change group |
| DisplayType | |

12.2. Group/Save

Save has arg= as mandatory argument and list= is optional argument

The "list=" argument assigns Devices to the Group.

If "list" argument is not supplied, the no changes is done of which devices that are included in the Group. If the "list" argument is supplied with an empty array, then all devices in the Group are removed from the Group.

If the GroupNo don't exists, then it is created. Saving with GroupNo=0 creates a new group

Argument (arg=) like

| | |
|----------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | |
| BaseUnitID | |
| ClusterID | |
| GroupNo | 1 to 99, 80 to 99 special handling for Alarm solution 0 = create new group |
| Descr | |
| GroupType | 0=show group on same column, 1 = new column, 9=hidden group |

List argument (list=) of the devices that should be included in the group

| | |
|-------------|---|
| ID | ID of devices/scenarios that is included in the group |
| DisplayType | |

RETURNS a json object

Created

GroupNo Used to know which GroupNo was created when saved with GroupNo=0

POSSIBLE ERRORS



517 Not possible to add more groups (max is 79 standard groups)

12.3. Remove

Created Created date time, no of seconds since 1970-01-01 in UTC time
AppVersion
BaseUnitID
ClusterID
GroupNo 1 to 99

RETURNS a json object

Created

POSSIBLE ERRORS

516 Not possible to delete group when it contains alarm devices

12.4. Group/List

Get a list of the groups

Created Created date time, no of seconds since 1970-01-01 in UTC time
AppVersion
BaseUnitID
ClusterID
Option default = "", "HIDDEN" = add "Hidden" group

RETURNS a json array with

GroupNo
GroupDescr
GroupType



12.5. Group/ChangeStatus

Change status of a group of switches, dimmer or shades

Arguments

| | |
|------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| GroupNo | |
| Type | Which DisplayType to control: 100 = Change all On/Off switches in the group 200 = Change all Dimmers + On/Off switches 210 = Change all shades with no position (up/down) 230 = Change all shades with position 240 = Change all shades with position + position and tilt 250 = Change all Moove shades, position + tilt |
| Value | New status of the device 0=Off, 99 and 255=On, 1-98 = Dim, 256 = Stop move 261 = Change to Favorite status |
| Value2 | For shade with tilt, this is the tilt level |

RETURNS a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|



13. User

<https://webehome.com/API/OpenAPIservice.svc/User/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

Default Language is taken from Customer

13.1. User/Load

Load a user and the users permission for the selected Location (BaseUnitID)

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | Get the users permission to this Location |
| ClusterID | The ClusterID for the BaseUnit |
| UserID | The UserID of the user to be loaded |

RETURNS a json object

| | |
|------------|--|
| Created | |
| UserID | |
| Loginname | Usually the email address, but can be different |
| Phone | |
| Email | This is also the Loginname (unless changed in the Web) |
| FirstName | |
| LastName | |
| LanguageID | |
| RoleID | Which Role do the user have to this Location |
| RoleDescr | Description of the Role |

13.2. User/Save

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The Location of which the Role/Permission affect |
| ClusterID | The ClusterID for the BaseUnit |
| UserID | |
| Phone | Starts with country code +46 |
| FirstName | |
| LastName | |
| LanguageID | |

RETURNS a json object

Created
UserID



13.1. User/ChangeEmailAndPassword (deprecated)

This function has possibility to change both email (=login) and password.

In the OpenAPI the Loginname is handled as the Email.

Even if it is possible to have a different Loginname than Email in WeBeHome, is not possible using the API since it should be the same in the App.

If a user have a different Loginname than the Email, then the Loginname is changed to the Email after using this function.

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | Get the users permission to this Location |
| ClusterID | The ClusterID for the BaseUnit |
| Password | The current password |
| Email | New email, if not changed, then supply same as the current |
| NewPassword | New password, if not changed, then supply same as the current |

RETURNS a json object

| | |
|------------|---|
| Created | |
| UserID | |
| Loginname | Usually the email address, but can be different |
| Phone | |
| Email | = Loginname |
| FirstName | |
| LastName | |
| LanguageID | |
| RoleID | Which Role do the user have to this Location |
| RoleDescr | Description of the Role |

POSSIBLE ERRORS

| | |
|-----|---|
| 216 | Email already used for another user |
| 220 | Password needs to be at least 6 characters |
| 265 | Current password is not correct |
| 277 | Both current and new password needs to be entered |
| 310 | Not a valid email |



13.2. User/List

Get a list users (and their devices = UserDevice) that have access to the selected Location

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| UserID | Optional, selection of a specific User |

RETURNS a json list

Root (object)

BaseUnitID
ClusterID

Users

List of User objects

Object User

| | |
|--------------|---|
| UserID | |
| ClusterID | |
| LoginName | |
| FirstName | |
| LastName | |
| Phone | |
| Mail | |
| MasterUser | Y=yes, N=no → MasterUser = the owner/purchase of system |
| PermissonID | ID to permission to Location |
| Role | If user has permission to Location, which Role |
| UserHandling | Se spec below |
| SortOrder | 0= own user 1= account users that belongs to Locations customer 2= device users that belongs to Locations customer 3=account users that belongs to other customer = Guest 9=other users, should be device guest users |
| CreatedDT | When user (or device for device users) was created |

Fields that area used when DeviceUser (User = Device)

| | |
|--------------------|-----------------------|
| UserDeviceID | |
| App | iPhone, Android etc |
| AppType | WeBeHome or Moove |
| DeviceStatus | Content, se Chapter 2 |
| UserDeviceHandling | Se spec below |

UserDevices (list of objects) for AccountUsers

| | |
|--------------------|-----------------------|
| UserDeviceID | |
| DeviceName | |
| CreatedDT | |
| App | iPhone, Android etc |
| AppType | WeBeHome or Moove |
| DeviceStatus | Content, se Chapter 2 |
| UserDeviceHandling | Se spec below |



UserHandling

| | |
|----------------------|---|
| Pos 0, user type | Se Chapter 4 for definitions |
| Pos 1, guest user | 0=user belongs to same customer 1=guest user (user belongs to other user) |
| Pos 2, edit | 0=current user is not allowed to edit this user 1= edit is ok, both of user and device |
| Pos 3, delete/revoke | 0=no delete or revoke 1= Delete button (delete user) 2 = Revoke button (revoke permission to this location) |
| Pos 4, grant | 0 = No grant button 1 = Grant button (possible to grant permission to this location) |

UserDeviceHandlig (string)

| | |
|----------------------|--|
| Pos 0, push possible | 0 = Push is not possible to activate on this device 1 = Push is possible to enable |
| Pos 1, delete | 0 = Not possible to delete (for example own device) 1 = Possible to Remove (show Remove button) |

13.3. User/Invite

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The location that the user should get access to |
| ClusterID | |
| Email | email to the user that is invited |
| ID | RoleID (optional), default =2 = User |

ID (RoleID) list:

1=SuperUser, 2=User, 3=Viewer, 4=Employee, 5=Neighbor, 6 = Support user, 7=Child

RETURNS a json object

| | |
|---------|--|
| Created | |
| Status | Information that should be shown to user |



13.1. User/LoadTermsOfService

Loads current (=latest) terms of service.

To get TermsOfService for non users, see Data/LoadTermsOfService

BaseUnitID and Cluster ID is used to check permission to a Location. It is not direct related to the Terms

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |

RETURNS a json object

| | |
|------------|-----------------------------|
| Created | |
| Version | |
| LanguageID | |
| Terms | HTML coded terms of service |

13.1. User/AcceptTermsOfService

BaseUnitID and Cluster ID is used to check permission to a Location. It is not direct related to the Terms

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |

RETURNS a json object

| | |
|---------|--|
| Created | |
|---------|--|



13.2. User/Messages

Get a list of the own users messages

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |

RETURNS a json object with a list if the users messages

AbellUserMessageID
BaseUnitID
ActionID
MessageDT
MessageStatus
MessageHeader
MessageContent
MessageType

MessageType:

1=SMS
2=Push
3=Email (currently not stored per user)
4 = Alarm message (push+sms)

MessageStatus:

```
public const Int16 MESSAGESTATUS_PUSH_SENT_10 = 10;  
public const Int16 MESSAGESTATUS_PUSH_ERROR_11 = 11;  
public const Int16 MESSAGESTATUS_PUSH_RESEND_18 = 18;  
public const Int16 MESSAGESTATUS_PUSH_NOSEND_19 = 19;  
public const Int16 MESSAGESTATUS_SMS_SENT_20 = 20;  
public const Int16 MESSAGESTATUS_SMS_ERROR_21 = 21;  
public const Int16 MESSAGESTATUS_EMAIL_SEND_30 = 30;  
public const Int16 MESSAGESTATUS_EMAIL_ERROR_31 = 31;  
public const Int16 MESSAGESTATUS_PUSH_READ_110 = 110;  
public const Int16 MESSAGESTATUS_SMS_READ_120 = 120;  
public const Int16 MESSAGESTATUS_EMAIL_READ_130 = 130;
```

13.3. User/MessageDismiss

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| UserID | The ID of the message When ID=0, then dismiss all |

13.4. User/Delete (ready for test)

Arguments

| | |
|---------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
|---------|---|



| | |
|------------|----------------------|
| AppVersion | 400 = Version 4.0.0 |
| UserID | ID of the User |
| BaseUnitID | The current Location |
| ClusterID | |

RETURNS a json object

Created

13.5. User/Revoke

Arguments

| | |
|------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The Location to which permission should be revoked |
| ClusterID | |
| UserID | UserID to the user which permission should be revoked from this location |

RETURNS a json object

Created

13.1. User/GetRoles

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | Current BaseUnitID |
| ClusterID | |

RETURNS a json object

Return a Root json object

Created

Roles A list of the Roles that can be used for the AppType

Roles object

| | |
|-----------|--|
| RoleID | ID of role (string value with numeric content for WBH) |
| RoleDescr | Description of role |
| Default | 0=No, 1=Yes |



13.1. User/GetNotificationList

Get a list of the Recipe and Notifications

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | Get the users permission to this Location |
| ClusterID | The ClusterID for the BaseUnit |

RETURNS a json object

Root object

| | |
|---------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| Types | A list of Notification types |

Type object

| | |
|---------------|--|
| Descr | Description/header for the Notification type |
| Notifications | A list of Notification |

Notification object

| | |
|--------------|---|
| SettingID | ID (Settings) that is used when callback to enable/disable it |
| BaseUnitID | 0=for user types notications, >0 for user/location type notifications |
| SettingName | Header/description |
| SettingDescr | More detailed description |
| Status | 1 = On, 2=Off |

13.2. User/SetNotification

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| ID | The ID from the GetNotificationList function |
| Status | 0=off, 1=on |
| BaseUnitID | Current Location |
| ClusterID | The ClusterID for the BaseUnit |

14. UserDevice

List of UserDevices including all necessary information are included in **User/List**
No separate function for UserDevice/Load or UserDevice/List

<https://webehome.com/API/OpenAPIService.svc/UserDevice/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >



- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

14.1. UserDevice/Save

Saves a users UserDevice and enable/disable push

Arguments

| | |
|-------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The selected Location, need for check of permission |
| ClusterID | ClusterID of the selected Location |
| ID | UserDeviceID, if not given (=0) then it use the users current UserDeviceID |
| Status | DeviceStatus, se definitions in Chapter 2 100 = Auto set device status based on DeviceToken and new/existing device. |
| DeviceName | ** Name of device. If not supplied it does not change existing value |
| DeviceToken | ** The PushWoosh device token Should only be supplied for own device and when it should be changed/ updated. If not supplied, then it does not change existing value |

** If no values supplied (="") then old values are kept.

RETURNS a json object

Created

14.2. UserDevice/Delete

A super use can remove any UserDevice. Other users can remove their own.
The UserDevice that the user use has to be deleted by doing a Logout instead.

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | The selected Location, need for check of permission |
| ClusterID | ClusterID of the selected Location |
| ID | UserDeviceID of device |

RETURNS a json object

Created



15. ActionSet

<https://webehome.com/API/OpenAPIService.svc/ActionSet/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

15.1. ActionSet/List2 (deprecated)

Get information about selected ActionSets (without their Actions)

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | For example 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| Type | 0=Event 1=Schedule 2=Scenario 3=Alarm 4=Light control 5=Heating Zone 900 = Schedule + Scenario 999 = All types |
| SubUnitID | Optional filter on individual Accessory |
| Option | 0 = Only include Locations own ActionSets 1 = Include Template ActionSets Default value if argument not included = 0 |

Returns a JSON object with:

| | |
|-------------------|--|
| BaseUnitID | Which Location it belongs to |
| ClusterID | |
| Types | A list of which ActionSetTypes that can be added |
| ActionSets | A list of ActionSet's |

The Types list contains (added 2017-03-20 with hardcoded English info)

| | |
|-------------------------------------|--|
| Type | 0=Event (not used in App) 1=Schedule 2=Scenario 3=Alarm (not used in App yet) |
| TriggerID | If specific Trigger ID |
| Descr | |
| When Type=0 and TriggerID=80 or 81: | |
| DefaultAction1Value1 | Position when below TriggerValue1 |
| DefaultAction1Value2 | Tilt |
| DefaultAction2Value1 | Position when between TriggerValue1 and 2 |
| DefaultAction2Value2 | Tilt |
| DefaultAction3Value1 | Position when higher than TriggerValue2 |
| DefaultAction3Value2 | Tilt |
| DefaultTimespan1 | How long time in sec before go from lower to higher Action |



DefaultTimespan2 How long time in sec before go from higher to lower Action

The ActionSets list contains

ActionSetID Is 0 when the ActionSet is an empty template
MasterActionSetID Reference to Master if a child ActionSet
Type type of ActionSet, see ActionSet/List (internal ActionType)
Disabled **0**=No (=Active), **1**=Yes (=Disabled),
2=Completed (=Disabled and completed),
3=Not active (in multi selection choice, this choice is not the active one)
10 =Paused, **11**=Incomplete (Disabled and missing info)
Descr
RelatedToGroupNo SCENARIO: 0=don't show, show Scenario at GroupNo
ShowInMain SCENARIO: 0=no, 1=yes show in dashboard/mainpage
TemplateActionSetID Keep track if an ActionSet is based on a Template.
Should be saved as it was loaded with no change.
Conditions A list of Condition (currently only 1)
Actions A list of Actions for the ActionSet

Conditions, a list of Condition's for the ActionSet

TriggerID EVENT+ALARM: Trigger of the ActionSet
TriggerDescr
SubUnitID EVENT+ALARM: SubUnitID related to Trigger
SubUnitDescr
SubUnitTypeDescr
GroupNo EVENT+ALARM: GroupNo related to Trigger
ValidWeekdays char 7 pos, 1st pos = Monday,
0=not active, 1=active (OBS lower case d in days)
ValidFromTimeString EVENT+ALARM: Start time of day when it should be active,
in format HHMM, default 0000
ValidToTimeString EVENT+ALARM: Stop time of day when it should be active,
in format HHMM, default 2359
ValidOperationMode EVENT+ALARM+SCHEDULE:
0=disarmed, 1=Home, 2=Away, 9=all modes, 10=home & away
RecurringType SCHEDULE:0=run only once, 6=selected weekdays
EVENT+ALARM: 0=default, 16=selected weekdays
RecurringFreq SCHEDULE: when ReccuringType between 1 and 5
RandomTime SCHEDULE: +/- random minutes add
SunRelated SCHEDULE:, 0=on time, 1=sunrise, 2=sunset
SunRelatedAdjustment +/- minutes to add to sun related time
NextDT SCHEDULE: when it will run next time
NextDTnoRandom SCHEDULE, time without RandomTime
TriggerValue1 Break (low) point 1 when TriggerID 80 or 81
TriggerValue2 Break (high) point 2 when TriggerID = 81
Action1_Value1 Position when below TriggerValue1
Action1_Value2 Tilt
Action2_Value1 Position when between TriggerValue1 and 2
Action2_Value2 Tilt
Action3_Value1 Position when higher than TriggerValue2
Action3_Value2 Tilt
Timespan1 How long time in sec before go from lower to higher Action
Timespan2 How long time in sec before go from higher to lower Action



Actions, a list of Action's for the ActionSet

See Action/Load for content

15.2. ActionSet/Load2 (deprecated)

Load a single ActionSet

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | ID of the ActionSet (internal ActionID) |

Returns same data and structure as ActionSet/List2 but only for one ActionSet

Example or data used for a Schedule (Type=1)

```

{
  "SortOrder": 3,
  "ActionSetID": 25461,
  "Disabled": 0,
  "Type": 1,
  "Descr": "Godmorgen",
  "TemplateActionSetID": 0,
  "Conditions": [
    {
      "NextDT": 23400,
      "NextDTnoRandom": 23400,
      "ValidWeekdays": "0000011",
      "ValidFromTimeString": "0900",
      "ValidToTimeString": "1700"
    }
  ]
},

```

→ 23400 sec = 06.30

Example or data used for a Scenario (Type=2)

```

{
  "SortOrder": 1,
  "ActionSetID": 0,
  "Disabled": 0,
  "Type": 2,
  "Descr": "TV Time",
  "TemplateActionSetID": 23689,
  "Conditions": [
    {
    }
  ]
},

```

→ 0 = this is a Template and does not exists on location

Example or data used for a Light Control (Type=4)

```

{

```



```

"SortOrder": 9,
"ActionSetID": 25076,
"Disabled": 0,
"Type": 4,
"Descr": "Living room auto light controlx",
"TemplateActionSetID": 0,
"Conditions": [
  {
    "SubUnitID": "123155",           → relation to Light Sesor
    "SubUnitDescr": "0401 Lys Sensor",
    "SubUnitTypeDescr": "Multi Sensor - Light",
    "ValidWeekdays": "0001000",
    "ValidFromTimeString": "0900",
    "ValidToTimeString": "1700",
    "TriggerValue1": 1000,         → trigger point 1
    "TriggerValue2": 6000,        → trigger point 2
    "Action1_Value1": 0,           → pos when below trigger point 1 (always 0)
    "Action1_Value2": 50,         → tilt when below trigger point 1
    "Action2_Value1": 0,           → pos when between trigger point 1 and 2 (always 0)
    "Action2_Value2": 75,         → tilt when between trigger point 1 and 2
    "Action3_Value1": 0,           → pos when above trigger point 2 (always 0)
    "Action3_Value2": 99,         → tilt when above trigger point 2
    "Timespan1": 600,             → delay in seconds when increase trigger area
    "Timespan2": 1200            → delay in seconds when decrease trigger area
  }
]
}

```

Example or data used for a Heating Zone (Type=5)

```

{
  "SortOrder": 4,
  "ActionSetID": 25217,
  "Disabled": 0,           → 0=enabled
  "Type": 5,
  "Descr": "Living room Heating Zone",
  "TemplateActionSetID": 0, → if created from Template
  "Conditions": [
    {
      "Action1_Value1": 21,     → Setpoint
      "Action1_Value2": -120,   → Setback
      "Action2_Value1": 1       → Is door/window open, 0=no, 1=yes
    }
  ]
}

```

15.3. ActionSet/Save2 (deprecated)

Arguments

- Created Created date time, no of seconds since 1970-01-01 in UTC time
- AppVersion 400 = Version 4.0.0
- ActionSets** A list (with 1 object) with same contet as ActionSet/Load2 returned

When doing a SAVE, NextDTnoRandom can have two formats:



- Only time of day in seconds. When saved it adds the date to it will be the next time. For example. Saved with 14.00 at 2015-12-09 10:30 will be stored as 2015-12-09 14.00. Saved with 14.00 at 2015-12-09 15:20 will be stored as 2015-12-10 14:00
- Date and time in seconds since 1970-01-01
- When delete an Action, then set ActionType = 0

Returns a JSON object with:

Created
ActionSetID

15.4. ActionSet/Remove

Arguments

Created Created date time, no of seconds since 1970-01-01 in UTC time
AppVersion 400 = Version 4.0.0
BaseUnitID
ClusterID
ActionSetID
TemplateActionSetID OPTION. Used only when a TemplateActionSet is removed.

Returns a JSON object with:

Created



15.5. ActionSet/GetDeviceList (deprecated)

Get a reduced GetStatus information that only contains devices and groups that can be used for control by ActionSet in the specific Apps

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| Type | Type of ActionSet, |

RETURNS a json object with a “flat” list of Components (se content for Location/GetStatus)

The return object is a Page json object that only contains Components. Even Groups are shown as Components but have DisplayType = 920 or 930.

From AppVersion 404 it also returns Scenario as DisplayType 960 when Type<>2 (Scenario)

| | |
|-------|--|
| Type: | 0 = Event based (old alarm + event before version 3.0) |
| | 1 = Schedule based |
| | 2 = Scenario based |
| | 3 = Alarm event based |

15.6. ActionSet/GetDeviceListLightSensor (deprecated)

Get a list of Light Sensors.

Same response as ActionSet/GetDeviceList

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| TriggerID | 80 = Simple (with 1 TriggerValue), 81=Advanced(with 2 TriggerValue) |

15.7. ActionSet/GetDeviceListAutosun (deprecated)

Get a list of blinds that can be controlled by the Auto Sun logic.

Same response as ActionSet/GetDeviceList

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| TriggerID | 80 = Simple (with 1 TriggerValue), 81=Advanced(with 2 TriggerValue) |



15.8. ActionSet/GetDeviceListThermostat (deprecated)

Get a list of Thermostat that can be controlled by the Auto Sun logic.
Same response as ActionSet/GetDeviceList

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | |
| SubUnitID | ID of a Thermostat that should be forced to be included and selected even if it does not belong to the Heating Zone yet. This is used when moving a Thermostat to a new Heating Zone When list is saved, it will then remove the Thermostat from the previous Heating Zone. |

15.9. ActionSet/GetHeatingZoneRelatedDoorWindows (deprecated)

Returns a list of Open/Closed sensor and those who are related to the ActionSetID has a RelationType set.

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | 0=new ActionSet which have not been saved yet |

RETURNS a json object with

| | |
|------------------|-----------------------------|
| Created | When created in UTC seconds |
| ActionSetID | |
| Relations | A list, see below |

DeviceRelation - A list of accessories that are or could be related

| | |
|------------------|---|
| SubUnitTypeDescr | Descr of the type of devices |
| Descr | Descr of group/device |
| ID | When >0, then SubUnitID (ID to accessory) |
| GroupNo | Group no |
| RelationType | 0 = not related, 3=Heating Zone |

0 or not included if it is for a new ActionSet (which don't have a ActionSetID)



15.10. ActionSet/SaveHeatingZoneRelatedDoorWindows (deprecated)

Save information of related Door/Windows

| | |
|------------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | 0=new ActionSet which have not been saved yet |
| Relations | A list of relation, same as returned from the Get function |



15.11. ActionSet/StartScene

Start a Scene Action Set

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | The ActionSetID of the Scene (Action.ActionID) |

15.12. ActionSet/SaveShowInMain

Change if a Scencario should be shown in Main/Dashboard or not (named Favorites tab in new Inwido Apps)

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | ID of the Scenario ActionSet to change status for |
| Value | 0=Don't show in Main/Dashboard, 1=Show in Main/Dashboard |

RETURNS a json object with

| | |
|---------|-----------------------------|
| Created | When created in UTC seconds |
|---------|-----------------------------|

15.13. ActionSet Example contents

Scenario

| | |
|-------------|--|
| ActionSetID | Is 0 when the ActionSet is an empty template |
| Type | 2 |
| Descr | |

Auto Sun Light

| | |
|----------|-------------------------|
| Type | 4 |
| Disabled | 0=No, 1=Yes or 4=Paused |
| Descr | |

Condition

| | |
|---------------|--|
| TriggerID | 80 = Auto Sun Shade Standard 81 = Auto Sun Shade Advanced |
| TriggerValue1 | Break point 1 when TriggerID=80 and 81 |



| | |
|---------------------|---|
| TriggerValue2 | Break point 2 when TriggerID = 81 |
| Action1Value1 | Position when below TriggerValue1 |
| Action1Value2 | Tilt |
| Action2Value1 | Position when between TriggerValue1 and 2 |
| Action2Value2 | Tilt |
| Action3Value1 | Position when higher than TriggerValue2 |
| Action3Value2 | Tilt |
| Timespan1 | How long time in sec before go from lower to higher Action |
| Timespan2 | How long time in sec before go from higher to lower Action |
| SubUnitID | Reference to the Light Sensor |
| GroupNo | 0 |
| ValidWeekdays | char 7 pos, 1st pos = Monday, 0=not active, 1=active Capital D in days |
| ValidOperationMode | 9=all modes |
| ValidFromTimeString | Start time of day when it should be active, in format HHMM |
| ValidToTimeString | Stop time of day when it should be active, in format HHMM |

Heating Zone

| | |
|----------|------------------|
| Type | 5 = Heating Zone |
| Disabled | 0=No, 1=Yes |
| Descr | |

Condition

| | |
|---------------|--|
| TriggerID | 0 = Not temperature sensor controlled (default) 61 = Value updated (from Temp Sensor) |
| Action1Value1 | Temperature Setpoint |
| Action1Value2 | Temperature Setback (not visible for user) |
| Action2Value1 | 0 = all windows/doors closed, >0 at least one Window/door open |
| SubUnitID | Reference an optional Temperature Sensor (otherwise SubUnitID=0) |

16. Action (deprecated)

<https://webehome.com/API/OpenAPIService.svc/Action/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

Each ActionSet can contain 0 to many Actions

If it has no Actions, nothing will be done when the ActionSet executes

What the Actions should do is defined by the ActionType and ActionSubType

16.1. Action/Load (deprecated)

Arguments



| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | ID of the ActionSet (internal ActionID) |
| ActionID | ID of the Action (internal MessageDetailID) |

RETURNS a json object:

| | |
|---------------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| ActionSetID | |
| ActionID | |
| ActionType | See explanation below |
| ActionSubType | See explanation below |
| Step | Which step it belongs to, default value = 0 |
| MinutesAfterTrigger | How many minutes it should be executed after start |
| Value | ChangeToValue, see description of ActionSubType, 2147483647=not set 0=closed/off, 99 and 255 = open/on |
| Value2 | See description of ActionSubType |
| Target | See description of ActionSubType |
| TargetUserID | Target for SMS, Push etc if not RoleID is set, 0=not used |
| TargetRoleID | Target for SMS, Push, etc if not UserID is set, 999999=not used |
| TargetBaseUnitID | See description of ActionSubType, 0=not set |
| TargetSubUnitID | See description of ActionSubType, 0=not set |
| TargetGroupNo | See description of ActionSubType, 0=not set |
| TargetActionSetID | See description of ActionSubType, 0=not set |
| CheckBehavior | 0=normal, always do (no check) 1=Do message if all checks YES 2=Do message if all checks NO 3=Do message if at least one YES 4=Do message if at least one NO |
| StateNotChanged | 0 = normal, always do 1 = Do action if state has not changed 2 = Do action if state has changed |
| Descr | Txt, see description of ActionSubType |
| MemVar | See description of ActionSubType |
| Checks | >0 when the ActionSet on the same MinutesAfterTrigger and Step contains Questions. Only used when loading a single Action |

```

GroupDescr = (string)reader["GroupDescr"];
MessageTypeText = (string)reader["MessageTypeText"];
MessageSubTypeText = (string)reader["MessageSubTypeText"];
UserTarget = (string)reader["UserTarget"];
RoleTarget = (string)reader["RoleTarget"];
SubUnitDescr = (string)reader["SubUnitDescr"];
TargetActionDesc = (string)reader["TargetActionDesc"];
Unit = (string)reader["Unit"];
SensorDescr = (string)reader["SensorDescr"];

```

16.1. Action Example content

Auto Sun Light

Shades that should be controlled by the Auto Sun Shade logic



WeBeHome Open App API (2018-11-23)

| | |
|-----------------|------------------------------|
| ActionType | X = Auto Sun Shade logic |
| ActionSubType | Y = Auto sun shade logic |
| TargetSubUnitID | Reference to the shade/blind |



16.2. Action/Save (deprecated)

Arguments

| | |
|---------------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | ID of the ActionSet (internal ActionID) |
| ActionID | ID of the Action (internal MessageDetailID) |
| Type | ActionType, see explanation below (internal MessageType) |
| SubType | ActionSubType, see explanation below (internal MessageSubType) |
| Step | Which step it belongs to, default value = 0 (internal MessageLevel) |
| MinutesAfterTrigger | How many minutes it should be executed after start |
| Value | ChangeToValue, see description of ActionSubType, 2147483647=not set 0=closed/off, 99 and 255 = open/on |
| Value2 | See description of ActionSubType |
| Target | See description of ActionSubType |
| TargetUserID | UserID, Target for SMS, Push etc if not RoleID is set, 0=not used |
| TargetRoleID | RoleID, Target for SMS, Push, etc if not UserID is set, 999999=not used |
| TargetBaseUnitID | See description of ActionSubType, 0=not set |
| TargetSubUnitID | See description of ActionSubType, 0=not set |
| TargetGroupNo | See description of ActionSubType, 0=not set |
| TargetActionSetID | See description of ActionSubType, 0=not set |
| CheckBehavior | 0=normal, always do (no check) 1=Do message if all checks YES 2=Do message if all checks NO 3=Do message if at least one YES 4=Do message if at least one NO |
| StateNotChanged | 0 = normal, always do 1 = Do action if state has not changed 2 = Do action if state has changed |
| Descr | Txt, See description of ActionSubType |
| MemVar | See description of ActionSubType |

Returns a JSON object with:

Created
ActionID

16.3. Action/Remove (deprecated)

Arguments

| | |
|-------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| ActionSetID | ID of the ActionSet (internal ActionID) |
| ActionID | ID of the Action (internal MessageDetailID) |
| Function | “RemoveActionSet” = default if not given, remove ActionSet if there are no Actions after this remove “KeepActionSet” = keep ActionSet even if no Actions left |

Returns a JSON object with:

Created



WeBeHome Open App API (2018-11-23)

16.4. Description of content

16.4.1. ActionType

| OpenAPI name: ActionType, Internal name: MessageType | | | |
|--|--|----------|--|
| OpenAPI: ActionType | InternalDescr | Priority | TypeMatrix 1 pos = Event 2 pos = Schedule 3 pos = Scenario 4 pos = Alarm |
| Internal: MessageType | | | |
| 1 | Send SMS | 112 | 1111 |
| 2 | Send Push (new/changed 2013-03-28) | 110 | 1111 |
| 3 | Send E-mail | 118 | 1111 |
| 4 | Send Alarm Msg | 100 | 0001 |
| 5 | X.10/XRM – not in use | 134 | Removed |
| 6 | ContactID – not in use | 102 | Not in use |
| 7 | Securitas Sweden – not in use | 104 | Not in use |
| 8 | Include content | 99 | 1111 |
| 9 | Question | 50 | 1111 |
| 10 | Base Unit Command | 122 | 1111 |
| 11 | Falck Sweden | 106 | 0001 |
| 12 | ActionSets/Actions MessagesDetail. TargetActionID | 180 | 1111 |
| 14 | Change value on device | 140 | 1111 |
| 15 | Switch | 130 | 1111 |
| 16 | Scenario → moved to 12 | 120 | Removed |
| 17 | Dimmer Värde = ChangeToValue | 132 | 1111 |
| 18 | User – not in use yet | 184 | Not in use |
| 19 | Device – not in use yet | 186 | Not in use |
| 20 | Action → moved to 12 | 182 | Removed |
| 21 | Cam recording | 10 | 1111 |
| 22 | Shade control (new 2013-02-05) % nivå = ChangeToValue(100 = closed, 199=open), Value2 = no of pulses, < 0 → pulses to close, > 0 → pulses to open | 134 | 1111 |
| 23 | CALCULATE | 54 | 1111 |
| 24 | FLOW CONTROL | 200 | 1111 |
| 25 | Text | 1 | 1111 |
| 26 | Thermostat | 133 | Not in use |



16.4.2. ActionSubType

| Open API name: ActionSubType, Internal name: MessageSubType | | | |
|---|------------|--|-----------------|
| SubType | Type | InternalDescr | SQL implemented |
| 1000 | 10 | Clearstatus | ok |
| 1001 | 10 | Siren/Relay test/beep | ok |
| | | | |
| 1011 | 9 | Is Favorite Active? TargetActionID = ActionID to check | ok |
| 1020 | 24 | GoTo MessageLevel (within samel minutes) ChangeToValue = MessageLevel Min = is own +1 Max = 999 | ok |
| 1021 | 24 | Skip (within this time) (Same as GoTo 32767) ChangeToValue = 32767 | ok |
| 1022 | 24 | End Task Execution ChangeToValue = 32767 | |
| 1023 | 24 | Cancel Execution of Remaing Actions ActionID=Task that should be stopped | |
| 1030 | PROPOSAL 9 | Time is more than XX:XX | |
| 1031 | PROPOSAL 9 | Time is less than XX:XX | |
| 1032 | 9 | Is sun up? | Ok |
| 1033 | 9 | Is sun down? | Ok |
| | | | |
| 1100 | 11 | Send message to Falck Sweden No additional info | |
| | | | |
| 1200 | 25 | Show/include Text information Stored in Txt | Ok |
| | | | |
| 2000 | 9 | Is it armed away? Target = Zone, 0 or 91 to 99 | Ok |
| 2001 | 9 | Is it armed home? Same variables as 2000 | Ok |
| 2002 | 9 | Is it disarmed? Same variables as 2000 | Ok |
| 2003 | 10 | Arm Away Target = GroupNo (0=main zone) | Ok |
| 2004 | 10 | Arm Home Target = GroupNo (0=main zone) | Ok |
| 2005 | 10 | Disarm Target = GroupNo (0=main zone) | Ok |
| | | | |
| 3000 | 9 | Is it open? ((DisplayType=300,500) TargetSubUnitID > 0 → device TargetSubUnitID = 0 → all matching | Ok |
| 3001 | 9 | Is light on? (DisplayType=340) | Ok |



| Open API name: ActionSubType, Internal name: MessageSubType | | | |
|---|------|--|-----------------|
| SubType | Type | InternalDescr | SQL implemented |
| | | Same as 3000 | |
| 3002 | 9 | Is it closed? (DisplayType=300,500) Same as 3000 | Ok |
| 3003 | 9 | Is light off? (DisplayType=340) Same as 3000 Joins on MessageSubTypeSubUnitType.DisplayType | Ok |
| 3004 | 14 | Set high limit – PROPOSAL | |
| 3005 | 14 | Set low limit - PROPOSAL | |
| 3006 | 19 | Enable device | |
| 3007 | 19 | Disable device | |
| 3008 | 9 | Any activity last X minutes (saved as minutes) ChangeToValue = minutes TargetSubUnitID = Target | ok |
| 3009 | 8 | Include value from sensor MemVar >=0 → MemVar value else TargetSubUnitID>0 → selected device else TargetBaseUnitID >0 → all devices | Ok |
| 3010 | 9 | Is higher than or equal to Su.DataValue > Value2 Replace with 3042 Just check that no All matching devices are used | Value2=value |
| 3011 | 9 | Is lower than Su.DataValue < Value2 Replace with 3041 Just check that no All matching devices are used | Value2=value |
| 3012 | 9 | Last reading just got higher than Su.DataValue > Value2 and Su.PrevDataValue <= Valule2 TargetSubUnitID → which device Logic changed 2015-04-09 to check against SubUnit.PrevDataValue | Value2=value |
| 3014 | 9 | Last reading just got lower than Su.DataValue < Value2 and Su.PrevDataValue >= Valule2 TargetSubUnitID → which device Logic changed 2015-04-09 to check against SubUnit.PrevDataValue | Value2=value |
| 3015 | 9 | More Increase of X last Y hours REMOVED 2015-01-21 | Value2 = value |



| Open API name: ActionSubType, Internal name: MessageSubType | | | |
|---|------|--|---|
| SubType | Type | InternalDescr | SQL implemented |
| | | No one use | ChangeToValue = minutes to include |
| 3016 | 9 | More Decrease of X last Y hours REMOVED 2015-01-21 No one use | Value2 = value ChangeToValue = minutes to include |
| 3017 | 21 | Take a snapshot → SU.StartRecording=now → SU.StopRecording=now + 60 sec → SU.RecordingStatus=1 → SU.RecordingFreq = -1 (=one image) | Ok |
| 3018 | 21 | Start recording → SU.StartRecording=now → SU.StopRecording=now + value2 p→ SU.RecordingStatus=1 → SU.RecordingFreq = ChangeToValue | Value2 = no of seconds to record Max 600 sek (=10 min) ChangeToValue = no sec between images, 0=as fast as possible |
| | | | |
| | | | |
| 3020 | 22 | Open shade ChangeToValue=99 | |
| 3021 | 22 | Close shade ChangeToValue = 0 | |
| 3022 | 22 | Move shade to ChangeToValue = 0 to 99 | |
| 3023 | 22 | Shade Pulse up ChangeToValue = 257 | Not in use |
| 3024 | 22 | Shade Pulse down ChangeToValue = 258 | Not in use |
| 3025 | | Shade Stop ... | Not in use |
| 3026 | 22 | Move Shade to X and Tilt to Y ChangeToValue = position Value2 = tilt | |
| 3040 Old 1012 | 9 | Is equal to 1 st argument MemVar = 0 → use Value2 MemVar > 0 → user Mx (memvar) (cdrop_Memvar) 2 nd argument TriggerSubUnitID>0 → use su.DataValue TriggerSubUnitID=0 → use Mx in ChangeToValue (use SubUnit with DisplayType=400) cdrop_Devices | Ok |
| 3041 Old 1013 | 9 | Is higher or equal than same variables as 3040 | Ok |



| Open API name: ActionSubType, Internal name: MessageSubType | | | |
|---|------|---|---|
| SubType | Type | InternalDescr | SQL implemented |
| 3042 Old 1014 | 9 | Is lower or equal than same variables as 3040 | Ok |
| 3049 | 23 | Assign MAX value last X minutes MemVar = which Mx ChangeToValue = minutes TargetSubUnitID = device | Ok |
| 3050 | 23 | = Assign a value to Mx (x=MemVar) If TargetSubUnitID>0 → from SubUnit Else if ChangeToValue > 0 → from Mx Else from Value2 | TargetSubUnitID>0 Or Value2 Ok |
| 3051 | 23 | + Increase Mx with value from TargetSubUnitID>0 → DataValue Else Mx variable (ChangeToValue) Else Value2 | TargetSubUnitID>0 Or Value2 db=ok |
| 3052 | 23 | - same as + | TargetSubUnitID>0 Or Value2 db=ok |
| 3053 | 23 | * same as + | TargetSubUnitID>0 Or Value2 db=ok |
| 3055 | 23 | LOOKUP store in Mx (MemVar) If TargetSubUnit → su.DataValue Else from Mx (ChangeToValue) Value2 = default value ID to LookupTable = MessageDetailID | TargetSubUnitID>0 db=ok |
| 3056 | 23 | MAX of Mx variable and If TargetSubUnitID → su.DataValue else Mx variable (ChangeToValue) else Value2 Output to Mx variable | TargetSubUnitID>0 Or ChangeToValue Or Value2 db=ok |
| 3057 | 23 | MIN same as MAX | MemVar ChangeToValue db = ok |
| 3060 | 14 | Update Reading Memvar > 0 → Use Mx1 to 3 else use Value2 Set to DataValue for TargetSubUnitID | TargetSubUnitID |
| 3100 | 15 | Control switch If ChangeToValue != MAXSQL Else Mx# (MemVar) | |
| 3110 | 17 | Control dimmer | |



WeBeHome Open App API (2018-11-23)

| Open API name: ActionSubType, Internal name: MessageSubType | | | |
|---|---------|---|-----------------|
| SubType | Type | InternalDescr | SQL implemented |
| | | If ChangeToValue != MAXSQL Else Mx# (MemVar) | |
| 3120 | 26 | Set value on Thermostat in degree Celcius Memvar > 0 → Use Mx1 to 3 else use Value2 | |
| 3201 | 1 | Send SMS | Ok |
| 3202 | 2 | Send Push | Ok |
| 3203 | 3 | Send E-mail | Ok |
| 3204 | 4 | Send Alarm Msg | Ok |
| | | | |
| 4000 | 18 | Enable user | |
| 4001 | 18 | Disable user | |
| | | | |
| 5000 | 20 → 12 | Enable Event driven Action Set | TargetActionID |
| 5001 | 20 → 12 | Disable Event driven Action Set | TargetActionID |
| | | | |
| 6000 | 12 | Enable Scheduled Action Set | TargetActionID |
| 6001 | 12 | Disable Scheduled Action Set | TargetActionID |
| | | | |
| 7000 | 16 → 12 | Activate Scenario Action Set | TargetActionID |
| | | | |
| 8000 | 12 | Enable Alarm Action Set | TargetActionID |
| 8001 | 12 | Disable Alarm Action Set | TargetActionID |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



17. Data

<https://webehome.com/API/OpenAPIService.svc/Data/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- HTTP GET with all parameters like URL argument
- Authentication in header using Authorization : Bearer <jwt> with user JWT or default JWT
- Authentication in URL using parameter jwt=<jwt> with user JWT or default JWT

17.1. Data/CountryList

Returns a list of all countries

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |

RETURNS a json list object

CountryID
CountryName
DefaultLanguageID
CountryPhonePrefix
CountryCode
DefaultTimeZone_Code

17.2. Data/TimeZoneList

Returns a list of available timezones for the selected country

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| CountryCode | |

RETURNS a json list object

| | |
|---------------|-------------------------|
| TimeZone_Code | ID to TimeZone and Zone |
| TimeZone_Name | Name of time zone |

17.3. Data/GeoNameList

Returns a list of available GeoName (=City Name) for the selected country

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| CountryCode | |



RETURNS a json list object

| | |
|---------------|-----------------------------|
| GeoNameID | ID |
| Name | GeoName = Name of City |
| TimeZone_Code | The timezone of the GeoName |

17.4. Data/LoadTermsOfService

Loads current (=latest) terms of service. Used to load the terms for non users. Eg when user has downloaded app but not created an account/logged in.

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| AppType | |
| LanguageID | |
| CountryCode | For example se, dk, gb etc |

RETURNS a json object

| | |
|------------|-----------------------------|
| Created | |
| Version | |
| LanguageID | |
| Terms | HTML coded terms of service |



18. FAQ (deprecated)

<https://webhome.com/API/OpenAPIservice.svc/FAQ/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- HTTP GET with all parameters like URL argument
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

This function can be called with both the “Default JWT Token” or a device unique JWT Token

<https://webhome.com/API/OpenAPIservice.svc/FAQ/GetCategoryTree?arg=<argument>>

FAQ has 3 levels

| | |
|---------|----------|
| Level 1 | Category |
| Level 2 | Section |
| Level 3 | Article |

Category and Section is used to create a hierarchy on how to find the Article

Pre-defined CategoryID and SectionID's:

| Category | Section |
|-----------------|---|
| 1 = Using App | 5=General 6=Users 7=Accessories – not in use 8=Scheduled actions |
| 2 = Accessories | 1=Gateway 2=Art Andersen Blind 3=Art Andersen Remote 4=Switch/Range extenter 9=Sensative Strip 10=IQ Handle 11=Temp and humidity sensor |



18.1. FAQ/GetCategoryTree

Get the selected category tree without the ArticleContent

Arguments

| | |
|-------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 (default 400) |
| LanguageID | Primary language, for example Danish (=14) |
| LanguageID2 | Fallback language, for English (=2), set to same as primary if no fallback |
| CategoryID | If it should filter on Category, 0=all (optional) |
| SectionID | If it should filter on both Category and Section, 0=all (optional) |
| ReturnType | USER or PUBLIC, where should it be shown |

RETURNS a json object

Root (object) contains a list of Categories

Created

Categories a list with values, each Category has a list of Sections

| | |
|-----------------|---------------------|
| CategoryID | |
| LangageID | |
| CategoryTitle | pure text |
| CategoryContent | optional, html text |

Sections a list with values, each Section has a list of Articles

| | |
|----------------|---------------------|
| SectionID | |
| LanguageID | |
| SectionTitle | pure text |
| SectionContent | optional, html text |

Article contains values

| | |
|----------------|-------------------------------------|
| ArticleID | |
| LanguageID | |
| ArticleTitle | pure text |
| ArticleContent | empty when getting the CategoryTree |
| Highlighted | 0=No, 10=Yes |

Highlighted = the Article Title should be bold or otherwise highlighted

Example using default JWT and URL arguments for ArtAndersen

<https://beta01.webehome.com/API/OpenAPIService.svc/FAQ/GetCategoryTree?LanguageID=2&jwt=eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJXQkgiLCJpYXQiOiJlbnQwMTU0NDUsImNsdxN0ZXJpZCI6MCwianRpIjowLCJ1aWQiOiJAsInV0eXB1IjoieUyIsImFwcCI6OSwiYXBwdHlwZSI6ImwidmVyIjoxMH0.ZRFpbPOusxRMevgwYXYu32LNl6HEyjRZtfBnDEjg-vQ>



18.2. FAQ/GetArticle

Get Faq content for a specified article

Arguments

| | |
|-------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| LanguageID | The main language |
| LanguageID2 | Failover language, for example, 2=English |
| ReturnType | empty or USER or PUBLIC |
| ID | ArticleID |

Returns the same JSON object as FAQ/GetCategoryTree but it has only one Article and it includes the ArticleContent.

Example using default JWT and URL arguments for ArtAndersen

```
https://beta01.webehome.com/API/OpenAPIservice.svc/FAQ/GetArticle?LanguageID=2&ID=2&jwt=eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJXQkgiLCJpYXQiOiJlbnQwMTU0NDUsImNsZXN0ZXJpZCI6MwianRpbjowLCJ1aWQiOiJAsInV0eXB1IjoiUyIsImFwcCI6OSwiYXBwdHlwZSI6MiwidmVyIjoiMH0.ZRFpbPOusxRMevgwYXYu32LN16HEyjRZtfBnDEjg-vQ
```




19. Contact

<https://webehome.com/API/OpenAPIservice.svc/Contact/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

19.1. Contact/Request

Request contact.

Should only be called by a logged in AccountUser which have email and or phone no.

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| LanguageID | The main language |
| BaseUnitID | Which location is the user at |
| ClusterID | Cluster for the BaseUnit |
| Descr | Descr |
| Phone | Will be updated to the user, propose the users own value |
| Email | Will be updated to the user, propose the users own value |



20. Analytics (deprecated)

<https://webhome.com/API/OpenAPIService.svc/Analytics/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

20.1. Analytics/Track

Track an event.

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| LanguageID | |
| Tag | Tag to track, se below, max len 30 pos |
| BaseUnitID | Option – if user is logged in |
| ClusterID | Option if used is logged in |

Any **Tag** can be used. To enable used of Tags for selection criteria, the following ones are currently pre-defined:

- Explore-Blind
- Explore-WallController
- Explore-WallPlug
- Explore-Handle
- Explore-Automation
- Explore-StoryVideo
- Explore-Contact
- Explore-Buy



21. Doc

<https://webehome.com/API/OpenAPIService.svc/Doc/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

21.1. Doc/GetAddDeviceList

Get a list of devices that can be added based on the AppType.

Arguments

| | |
|------------|-----------------------------|
| Created | When created in UTC seconds |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |

RETURNS a json object with a list of Devices

| | |
|-----------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| UpdatedDT | Latest version when list was updated → if changed, check for new DeviceContents |
| Devices | A list of Device 's that can be added |

Device

| | |
|-------------------|--|
| DocID | ID of the device doc |
| UpdatedDT | Version date for this Doc content, in seconds since 1970-01-01 |
| Descr | Description of device |
| ProductNumber | Product number |
| AddDeviceHandling | See below |
| PicturePath | Name of picture, png or jpg file To get full path add http://webehome.com/WebShop/ProductImages/ |
| Doc | 0 = no doc exists, 1=doc exists, GetContent with Type=0 |
| InstallGuide | 0=no guide exists, 1=Single guide, >1 multiple guides & guide choice Get guide using Doc/GetContent and Type=1 |

AddDeviceHandling:

1 = Show if gateway is added, Show disabled if not gateway is added

11 = Show if no gateway is added, if gateway is added then hide (used for Gateway itself)



21.2. Doc/GetAddContent

Get documentation content

This Content is fetch when needed OR stored locally in App.

If the UpdatedDT of a Doc has changed, then new Contents needs to be downloaded to App, preferred in background.

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| DocID | DocID for documentation, info from GetAddDeviceList |

Returns:

| | |
|--------------|--|
| Created | |
| DocID | ID for documentation, info from GetAddDeviceList |
| UpdatedDT | Version date for this Doc content, in seconds since 1970-01-01 |
| Header | Header text to page where to select Guide if more than one guide |
| Text | |
| FAQSectionID | Link to help |
| Image | |
| Guides | A list of Guide's |
| Pages | Pages for standard doc (Type=0) |

et

| | |
|--------------|--|
| Guide | If more than 1 guide, then show page where user selects guide |
| MountingType | 0=none defined, 10=window, 20=window door, 30=door |
| Header | Ex. Förbered montering |
| Text | Ex. Skruva bort nuvarande handtag |
| Image | Base64 encoded PNG file |
| Pages | |

Page

| | |
|----------|-----------------------------------|
| PageType | Se below |
| Header | Ex. Förbered montering |
| Text | Ex. Skruva bort nuvarande handtag |
| Image | Base64 encoded PNG file |
| Pages | |

PageType

- 0 = Page for selection of installation type when more than 1 to select from
The Pages contains a list of PageType=10 to choose from
- 10 = Type of guide to choose from
The Pages contains a list of Pages that is the guide itself
- 20 = Text info
- 30 = Start add communication with gateway
- 40 = Name device
- 90 = Start remove communication with gateway

When Type = 0 (Standard doc) the object contains 6 pages with HTML formatted text

Page 0 = Introduction

Page 1 = Inclusion/Add (if this don't exists, use page 0)



Page 2 = Exclusion/Remove (if this don't exists, use page 0)
Page 3 = Installation (only show if content)
Page 4 = Other (only show if content)
Page 5 = Technical (only show if content)
Pages might be empty if no text exists (but they are still there)

To test

DocID = 1100, Type = 0 → doc about PAN11
DocID = 90001, Type = 1 → test normal installation guide
DocID = 90002, Type = 1 → test with multi selection installation guide

21.3. Doc/GetRemoveContent

Same return content for as GetAddContent but for Remove
Only DocID is replaced with SubUnitID in argument

This Content is fetch when needed OR stored locally in App.
If the UpdateDT of a Doc has changed, then new Contents needs to be downloaded to App, preferred in background.

Arguments

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| BaseUnitID | |
| ClusterID | |
| SubUnitID | SubUnitID of the device to be removed |

Returns:

Se Doc/GetAddContent



22. VideoSupport (deprecated)

<https://webehome.com/API/OpenAPIService.svc/VideoSupport/<function>?arg=<argument>>

Available methods to call functions:

- HTTP GET with a URL parameter arg=<Base64 encoded JSON object >
- Authentication in header using Authorization : Bearer <jwt>
- Authentication in URL using parameter jwt=<jwt>

22.1. VideoSupport/InitSession

Init a Video Session. If there is an valid session, it will reconnect to it.
Use default JWT if no real JWT exists

If a normal User (not partner) will call this function, then the user will always be a USER
If a Partner User calls this function, then it will become a USER if no valid session with the code exists,
if a valid session exists, then the ParterUser will be an AGENT

Arguments

| | |
|------------|--|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| Code | In the App, this should be the users phone no If user is not logged in or missing phone, it has to be entered The phone no should be same format as in other places like +46 etc |
| Latitude | If not given, then cloud make a lookup on public IP |
| Longitude | If not given, then cloud make a lookup on public IP |

Returns

| | |
|----------------|-----------------------------------|
| VideoSessionID | Used in the PollForAgent function |
| SessionID | |
| MediaMode | |
| ArchiveMode | |
| Token | |
| ApiKey | |
| Role | USER or AGENT |

22.1. VideoSupport/PollForOtherPart

When a Session has been created. Poll for the Agent to connect.
Poll every 2:nd second.
When getting status = 1, then open the VideoSession window

Arguments:

| | |
|------------|---|
| Created | Created date time, no of seconds since 1970-01-01 in UTC time |
| AppVersion | 400 = Version 4.0.0 |
| ID | The VideoSessionID |
| Role | USER or AGENT |

Returns:

| | |
|--------|------------------------|
| Status | 0 = user not connected |
|--------|------------------------|



WeBeHome Open App API (2018-11-23)

1 = agent not connected
5 = both user and agent are connected = START SESSION
9 = session timed out or dont exists, go back to Init session

UserPictureBase64 Base64 encoded image of the Agent (without starting e
Descr Name of the other part



23. Appendix 1 – Example flow - Starting an App

Grey fields are not in use any more. Light blue fields are not in used by Inwido.

23.1. ConnectionInfo2

If the App don't have possibility to get Latitude and Longitude, then those fields should not be included and the cloud use the IP to find out Latitude and Longitude.

Arguments

```
{
  "Created": 1510043638,
  "AppType": 2,
  "Latitude":59.35000,
  "Longitude":17.91670,
  "Option": "ALL"
}
```

Reponse

```
{
  "Created":"1510043638",
  "ConnectionInfo":5,
  "DefaultLanguageID":1,
  "CountryCode":"SE",
  "CountryPhonePrefix":"+46"
}
```

23.2. Data/LoadTermsOfService

This should **only** be done if user press the "Terms of service" button. Otherwise it will be done when user has logged in if there are Terms to be accepted.

Arguments

```
{
  "Created": 1510043795,
  "AppVersion": 429,
  "AppType": 2,
  "LanguageID": 1,
  "CountryCode": "SE"
}

{
  "Created":"1510043796",
  "Terms":"<h3>1. General</h3>\r\n<p> TERMS OF SERVICE HTML CONTENT </p>"
}
```




23.3. CreateWebTokens/CreateDevice

In this example a web token is created even before a user has logged in to keep track of the device and that the app has been downloaded etc.

Arguments

```
{  
  "Created": 1510043795,  
  "AppVersion": 429,  
  "AppType": 2,  
  "App": 5,  
  "DeviceName": "Web",  
  "LanguageID": 1  
}
```

Response

```
{  
  "Created": "1510043796",  
  "jwt": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJXQkgiLCJpYXQiOiE1MTAwNDM3OTYuMCwiY2x1c3RlcmlkljoxLCJqdGkiOiJlbnZxQ1LCJ1aWQiOiJAsInV0eXBlljoiWilsImFwcCI6NSwiYXBwdHlwZSI6ImwidmVyljoxMH0.OAguiz9_iCSdy6Hiz1HFNG4pHycYy6f_DxPwkO6gLk",  
  "UserType": "Z"  
}
```



24. Appendix 2 – Example flow – Create new account

This is an example of what should be done when a user should create a new account from the app. A new account is a new user + a new location + a new customer.

In the app, the user is asked to enter

- First name
- Last name
- Email (will be login name / user name)
- Phone starting with country code prefix (optional)
- Name of the location
- Street of the location

Grey fields are not in use any more. [Light blue](#) fields are not in used by Inwido.

24.1. CreateWebTokens/CheckLoginName

Check if the email / login name is available when user had entered the email

Argument

```
{  
  "AppType": 2,  
  "App": 5,  
  "LoginName": "andreas+inwido_test@kumpan.se"  
}
```

Response

```
{  
  "Created": "1510044129",  
  "Available": 1  
}
```

24.2. CreateWebTokens/NewCustomer

When user had entered all information and press the "Create account" button.

The Latitude and Longitude should be taken from the App position service.

If the app dont have access to the location service (like in this example), the cloud will use the IP adress to look up the position.

A user + device + app type unique JWT is created and returned if the creation was succesful.

The App = 5 = the app is runing in a web emulator.

The JWT should be stored in the App and used for calls to the backend.

The BaseUnitID is the ID of the Location that was created and shold be stored as the current selected location.

Argument



```
{  
  "Created": 1510044245,  
  "AppVersion": 429,  
  "AppType": 2,  
  "App": 5,  
  "DeviceName": "test_location_name",  
  "Email": "andreas+inwido_test@kumpan.se",  
  "FirstName": "test_firstname",  
  "LastName": "test_lastname",  
  "phone": "",  
  "LanguageID": 1,  
  "Latitude": 54.03030,  
  "Longitude": 41.0405  
}
```

Response

```
{  
  "Created": "1510044249",  
  "jwt": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJXQkgiLCJpYXQiOiJlMTAwNDQyNDkuM0IiLCJ1aWQiOiJkaWZlZC51aWQiLCJmcm9udCI6Imkucm93b25uIn0",  
  "UserType": "Y",  
  "ClusterID": 1,  
  "BaseUnitID": 12927  
}
```

24.3. Location/Load

The location load and save are used to update the name of the location which is not included in the NewCustomer.

Arguments

```
{  
  "Created": 1510044249,  
  "BaseUnitID": 12927,  
  "ClusterID": 1,  
  "AppVersion": 429  
}
```

Response

```
{  
  "Created": "1510044249",  
  "BaseUnitID": 12927,  
  "ClusterID": 1,  
  "Descr": "test_lastname",  
}
```



```
"CurrentLocalDT":1510047849.0,
"Latitude": 54.03030,
"Longitude": 41.0405,
"GeoNameID":2673730,
"GeoName":"Stockholm",
"CountryCode":"SE",
"CountryName":"Sverige",
"TimeZone_Code":328,
"TimeZone_Name":"Europe/Stockholm",
"Street":"","
"COAddress":"","
"ZipCode":"","
"City":""
}
```

24.4. Location/Save

Save the data that was Load above with updated vales.
In this version of Save it does not have identical field names as the Load function.

Arguments

```
{
  "Created": 1510044249,
  "BaseUnitID": 12927,
  "ClusterID": 1,
  "AppVersion": 429,
  "Descr": "test_location_name",
  "ID": 2673730,
  "Code": 328,
  "Longitude": 0,
  "Latitude": 0,
  "Password": "",
  "Street": "test_location_address",
  "COaddress": "",
  "ZipCode": ""
}
```

Response

```
{
  "Created":"1510044249"
}
```

24.5. Location/GetStatus3

This is the main function to get all necessary data to managed the main pages and menus in the app.
It also contains infromation about user like user name and if user has Terms Of Service to accept.



In this call it has BaseUnitID = 0 which means it takes the first one that the user has access to which ins only one for new customer. It would be better to set the BaseUnitID to the newly created BaseUnitID.

The GetStatus3 returns information based on the user, the user role, the location and the AppType. The backend knows the AppType since it is part of the JWT that is used to get the status.

Argument

```
{
  "Created": 1510044249,
  "BaseUnitID": "0",
  "ClusterID": "0",
  "App": 5,
  "ReturnType": "ALL",
  "LastFetchDate": "0",
  "AppType": 2,
  "AppVersion": 429,
  "Hash": -1
}
```

Reponse

Se appendix X

24.6. User/LoadTermsOfService

The reponse from GetStatus3 told the app that the user have a TermsOfService to accept before the user can continue.

Argument

```
{
  "Created": 1510044249,
  "AppVersion": 429,
  "BaseUnitID": "12927",
  "ClusterID": 1
}
```

Reponse

```
{
  "Created": "1510044250",
  "Terms": "<h3>1. General</h3>\r\n<p> *** HTML FORMATED TERMS *** </p>"
}
```

24.7. User/AcceptTermsOfService



In this example, the user accept the TermOfService and therefore this command is sent to update the status for that user for this appType.

Argument

```
{
  "Created": 1510044560,
  "AppVersion": 429,
  "BaseUnitID": "12927",
  "ClusterID": 1
}
```

Reponse

```
{
  "Created": "1510044560"
}
```

24.8. Location/GetStatus3

When user has accepted the TermsOfService, the app call the GetStatus3 again with the Hash from the last call. The user has now accepted the TermOfService and therefore it will return with a new response.

Argument

```
{
  "Created": 1510044560,
  "BaseUnitID": "12927",
  "ClusterID": 1,
  "App": 5,
  "ReturnType": "ALL",
  "LastFetchDate": "1510044250",
  "AppType": 2,
  "AppVersion": 429,
  "Hash": "-804720012"
}
```

Reponse

See example in Appenx 4.

The hash in this case should be 1931504292

24.9. Location/GetStatus3

The app now starts to poll the backend for new information. The polling interval is 5 seconds. In this case there is no new information and therefore the response only include the Hash.

Arguments

```
{
  "Created": 1510044560,
  "BaseUnitID": "12927",

```



```
"ClusterID": 1,  
"App": 5,  
"AppVersion": 429,  
"ReturnType": "ALL",  
"LastFetchDate": "1510044560",  
"AppType": 2,  
"Hash": "1931504292"  
}
```

Response

```
{  
"Created": "1510044566",  
"Hash": "1931504292"  
}
```



25. Appendix 3 – Example flow – User login

This example shows how a existing user log in. This user have already accepted the TermsOfService and therefore the parts to accept TermsOfService like above is not called.

Grey fields are not in use any more. [Light blue](#) fields are not in used by Inwido.

25.1. CreateWebTokens/LoginAccountUser

If loginname + password + validation of the other fields are correct, then a device and appType uqniue JWT for the user is created

Argument

```
{
  "Created": 1510045608,
  "AppVersion": 429,
  "AppType": 2,
  "App": 5,
  "Loginname": "andreas+inwido_test@kumpan.se",
  "Password": "At6q3J4K"
}
```

Response

```
{
  "Created": "1510045609",
  "jwt": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJXQkgiLCJpYXQiOiJE1MTAwNDU2MDkuMCwiY2x1c3RlcmkljoxLCJqdGkiOiJwNzQ1LCJ1aWQiOiJwNzQ1LCJ1dHlwZSI6IiJlcjhcHAiOiJUsImFwczR5cGUoIjlsInZlciI6MTB9.ybnlSkMCWhJSGqTFc5ZeAnDAwu1B9pQlyszVcEesTcE"
,
  "UserType": "Y"
}
```

25.2. Location/GetStatus3

If login is successful, the GetStatus3 is called using the JWT.

When a user login, the BaseUnitID is not set (= no location is selected), instead the cloud return the first Location that the user have access to.

The App should then store the BaseUnitID as the current selected Location

Arguments

```
{
  "Created": 1510045608,
  "BaseUnitID": "0",
  "ClusterID": "0",
}
```




```
"App": 5,  
"ReturnType": "ALL",  
"LastFetchDate": "0",  
"AppType": 2,  
"AppVersion": 429,  
"Hash": -1  
}
```

Reponse

Se example in Appenix X

25.3. User/Save

If the information return from GetStatus3 about the user is incomplet (first name or last name is missing like it is when a user has been invited), then the user is asked to enter this information and it is then Saved.

Arguments

```
{  
  "Created": 1510045608,  
  "AppVersion": 429,  
  "BaseUnitID": "12927",  
  "ClusterID": 1,  
  "UserID": 10435,  
  "Email": "andreas+inwido_test@kumpan.se",  
  "FirstName": "test_firstname",  
  "LastName": "test_lastname",  
  "ID": 1  
}
```

25.4. Location/GetStatus3

Then the App call GetStatus3 again to updated information.

Arguments

```
{  
  "Created": 1510045609,  
  "BaseUnitID": "0",  
  "ClusterID": "0",  
  "App": 5,  
  "ReturnType": "ALL",  
  "LastFetchDate": "0",  
  "AppType": 2,  
  "AppVersion": 429,  
}
```



```
"Hash": -1  
}
```

Response

See example in Appendix 4.

The hash in this case should be 1931504292

25.1. Location/GetStatus3

The app then polls the GetStatus3 using the Hash returned from the last call to GetStatus3. In this case, there is no new information and therefore only the Hash is returned.

Argument

```
{  
  "Created": 1510045609,  
  "BaseUnitID": "12927",  
  "ClusterID": 1,  
  "App": 5,  
  "AppVersion": 429,  
  "ReturnType": "ALL",  
  "LastFetchDate": "1510045609",  
  "AppType": 2,  
  "Hash": "1931504292"  
}
```

Response

```
{  
  "Created": "1510045615",  
  "Hash": "1931504292"  
}
```



26. Appendix 4 – Example of Reponse from Location/GetStatus3

This is an example of return from Location/GetStatus3

Grey fields are not in use any more.

```
{
  "Status": 50,
  "Hash": "1253359947",
  "MenuSetting": "00000000000000000000",
  "Created": "1508241534",
  "LatestAppVersion": "427",
  "ShowInMain": 1,
  "User": {
    "UserID": 5752,
    "Phone1": "",
    "Email1": "",
    "LastName": "Gruseus",
    "FirstName": "Niclas12",
    "NoUnreadNotifications": 7,
    "DeviceName": "PC",
    "ApproveTerms": 0,
    "UserStatus": "Y5959999090000000000",
    "PushStatus": 10,
    "LanguageID": 2,
    "DeviceToken": ""
  },
  "Customer": {
    "CustomerName": "",
    "Settings": "99100000100000000000",
    "User": {
      "UserID": 5752,
      "Phone1": "",
      "Email1": "",
      "LastName": "Gruseus",
      "FirstName": "Niclas12",
      "NoUnreadNotifications": 7,
      "DeviceName": "PC",
      "UserStatus": "Y5959999090000000000",
      "PushStatus": 10,
      "LanguageID": 2,
      "DeviceToken": ""
    }
  },
  "ActiveLocation": {
    "BaseUnitID": "12639",
    "ClusterID": 1,
    "OperationStatus": "0022",
    "OperationStatusInfo": "Home day, ",
    "NoOfImportantEventsSinceLastClear": 34,
    "Status": "9999999090060000000000000055000000000000",
    "Descr": "Home",
  }
}
```



```
"StructureChecksum": "1110347",
"HasGateway": 1,
"Tabs": [
  {
    "Pages": [
      {
        "CountComponents": 2,
        "Components": [
          {
            "DisplayType": "1010",
            "DataValue": "100",
            "OperationStatus": "0",
            "Status": "30",
            "Descr": "Hello!<br>Window handle and Handle, Kims window are open"
          }
        ],
        "Groups": [
          {
            "CountComponents": 2,
            "GroupNo": "950",
            "Descr": "Open doors/windows",
            "Icon": 30,
            "Components": [
              {
                "DisplayType": "300",
                "SubUnitTypeDescr": "Strips",
                "MasterSubUnitID": "122818",
                "SubUnitID": "122818",
                "SubUnitUniqueID": "ZW0D9D93FCC-005",
                "GroupNo": "950",
                "UnitNo": "2",
                "OperationStatus": "255",
                "ReadingUpdated": "Oct 12, 16:52",
                "LastSignal": "Sabotage",
                "LastSignalDT": "Sep 27, 10:17",
                "Descr": "Window handle",
                "LastDataEvent": "Öppnad",
                "ShowInMain": 1,
                "Setting": "3",
                "LowBattery": false,
                "BatteryLevel": 100,
                "LostConnection": 0,
                "MT": 30,
                "SensorType": "7106",
                "HeatingZoneDescr": "Living room Heating Zone",
                "HeatingZoneOpen": 1,
                "HeatingZoneActionSetID": 25217,
                "AlertTime": 10,
                "ReadingAlertTimer": 7026,
                "IncludedInAutoSunShade": "0"
              },
              {
                "DisplayType": "300",
                "SubUnitTypeDescr": "Handtag",
                "MasterSubUnitID": "122815",
                "SubUnitID": "122815",
                "SubUnitUniqueID": "ZW0D9D93FCC-003",
                "GroupNo": "950",
                "UnitNo": "2",
```



```
"OperationStatus": "255",
"ReadingUpdated": "Oct 2, 14:20",
"LastSignal": "System uppstartat",
"LastSignalDT": "Sep 25, 12:59",
"Descr": "Handle, Kims window",
"LastDataEvent": "Öppnad",
"Setting": "3",
  "LowBattery": false,
  "BatteryLevel": 100,
  "LostConnection": 0,
"MT": 10,
"SensorType": "7106",
"AlertTime": 10,
"ReadingAlertTimer": 21578,
"IncludedInAutoSunShade": "0"
}
}
]
},
"Descr": "Status"
},
{
  "Pages": [
    {
      "CountComponents": 11,
      "Components": [
        {
          "DisplayType": "250",
          "SubUnitTypeDescr": "Copenhagen Blind",
          "MasterSubUnitID": "122813",
          "SubUnitID": "122813",
          "SubUnitUniqueID": "ZW0D9D93FCC-002",
          "UnitNo": "0",
          "OperationStatus": "99",
          "ReadingUpdated": "Oct 12, 11:48",
          "LastSignal": "Låg batterinivå",
          "LastSignalDT": "Sep 7, 08:49",
          "Descr": "Blind - North window",
          "LastDataEvent": "Dimmer dimmad",
          "ShowInMain": 1,
          "Setting": "3",
          "LowBattery": false,
          "BatteryLevel": 100,
          "LostConnection": 0,
          "MT": 10,
          "SensorType": "26",
          "IncludedInAutoSunShade": "0",
          "SubComponents": [
            {
              "DisplayType": "251",
              "SubUnitTypeDescr": "tilt",
              "MasterSubUnitID": "122813",
              "SubUnitID": "122814",
              "SubUnitUniqueID": "ZW0D9D93FCC-002002",
              "UnitNo": "0",
              "OperationStatus": "99",
              "ReadingUpdated": "Oct 12, 11:48",
```

```
    "Descr": "Blind - North window",
    "LastDataEvent": "Dimmer dimmad",
    "ShowInMain": 1,
    "Setting": "3",
    "SensorType": "26",
    "IncludedInAutoSunShade": "0"
  }
]
},
{
  "DisplayType": "100",
  "SubUnitTypeDescr": "Strömbrytare",
  "MasterSubUnitID": "122869",
  "SubUnitID": "122869",
  "SubUnitUniqueID": "ZW0D9D93FCC-007",
  "UnitNo": "0",
  "OperationStatus": "255",
  "ReadingUpdated": "Oct 13, 10:12",
  "LastSignal": "Återfått kontakt",
  "LastSignalDT": "Sep 20, 10:36",
  "Descr": "Coffee machine",
  "LastDataEvent": "Strömbrytare påslagen",
  "ShowInMain": 1,
  "Setting": "3",
  "LowBattery": false,
  "BatteryLevel": 0,
  "LostConnection": 0,
  "SensorType": "25",
  "IncludedInAutoSunShade": "0"
},
{
  "DisplayType": "300",
  "SubUnitTypeDescr": "Strips",
  "MasterSubUnitID": "111177",
  "SubUnitID": "111177",
  "SubUnitUniqueID": "ZW0FAD003FF-026x111177",
  "UnitNo": "0",
  "OperationStatus": "0",
  "ReadingUpdated": "Sep 25, 11:41",
  "Descr": "Handle - North window",
  "Setting": "3",
  "LowBattery": false,
  "BatteryLevel": 100,
  "LostConnection": 0,
  "MT": 20,
  "SensorType": "7106",
  "AlertTime": 65,
  "IncludedInAutoSunShade": "0"
}
],
"Groups": [
  {
    "CountComponents": 6,
    "GroupNo": "1",
    "Descr": "Living room",
    "DisplayType": 920,
    "Status": "0",
    "GroupProperties": "0000000000",
    "Components": [
```



```
{
  "DisplayType": "250",
  "SubUnitTypeDescr": "Copenhagen Blind",
  "MasterSubUnitID": "123236",
  "SubUnitID": "123236",
  "SubUnitUniqueID": "ZW0D9D93FCC-009",
  "UnitNo": "1",
  "OperationStatus": "0",
  "ReadingUpdated": "Oct 12, 13:28",
  "Descr": "South Blind",
  "LastDataEvent": "Dimmer dimmad",
  "Setting": "3",
  "LowBattery": false,
  "BatteryLevel": 100,
  "LostConnection": 0,
  "SensorType": "26",
  "IncludedInAutoSunShade": "1",
  "SubComponents": [
    {
      "DisplayType": "251",
      "SubUnitTypeDescr": "tilt",
      "MasterSubUnitID": "123236",
      "SubUnitID": "123237",
      "SubUnitUniqueID": "ZW0D9D93FCC-009002",
      "UnitNo": "1",
      "OperationStatus": "50",
      "ReadingUpdated": "Oct 12, 13:28",
      "Descr": "South Blind",
      "LastDataEvent": "Dimmer dimmad",
      "Setting": "3",
      "SensorType": "26",
      "IncludedInAutoSunShade": "1"
    }
  ]
},
{
  "DisplayType": "300",
  "SubUnitTypeDescr": "Strips",
  "MasterSubUnitID": "122818",
  "SubUnitID": "122818",
  "SubUnitUniqueID": "ZW0D9D93FCC-005",
  "GroupNo": "950",
  "UnitNo": "2",
  "OperationStatus": "255",
  "ReadingUpdated": "Oct 12, 16:52",
  "LastSignal": "Sabotage",
  "LastSignalDT": "Sep 27, 10:17",
  "Descr": "Window handle",
  "LastDataEvent": "Öppnad",
  "ShowInMain": 1,
  "Setting": "3",
  "LowBattery": false,
  "BatteryLevel": 100,
  "LostConnection": 0,
  "MT": 30,
  "SensorType": "7106",
  "HeatingZoneDescr": "Living room Heating Zone",
  "HeatingZoneOpen": 1,
  "HeatingZoneActionSetID": 25217,
```



```
"AlertTime": 10,
"ReadingAlertTimer": 7026,
"IncludedInAutoSunShade": "0"
},
{
  "DisplayType": "410",
  "SubUnitTypeDescr": "Danfoss Living Connect Z",
  "MasterSubUnitID": "123728",
  "SubUnitID": "123728",
  "SubUnitUniqueID": "ZW0D9D93FCC-010",
  "UnitNo": "3",
  "DataValue": "21",
  "Unit": "°C",
  "OperationStatus": "0",
  "ReadingUpdated": "13:31",
  "Descr": "Radiator",
  "LastDataEvent": "Värde uppdaterat",
  "Decimals": "1",
  "Setting": "3",
  "LowBattery": false,
  "BatteryLevel": 100,
  "LostConnection": 0,
  "SensorType": "4301",
  "HeatingZoneDescr": "Living room Heating Zone",
  "HeatingZoneOpen": 1,
  "HeatingZoneActionSetID": 25217,
  "IncludedInAutoSunShade": "0"
},
{
  "DisplayType": "510",
  "SubUnitTypeDescr": "Copenhagen Blind väggkontroller",
  "MasterSubUnitID": "122867",
  "SubUnitID": "122867",
  "SubUnitUniqueID": "ZW0D9D93FCC-006",
  "UnitNo": "4",
  "DataValue": "1001",
  "OperationStatus": "85",
  "ReadingUpdated": "Oct 12, 11:48",
  "Descr": "Blind Wall Controller",
  "LastDataEvent": "Central Scene kommando",
  "Decimals": "0",
  "Setting": "3",
  "LowBattery": false,
  "BatteryLevel": 100,
  "LostConnection": 0,
  "SensorType": "26",
  "IncludedInAutoSunShade": "0"
},
{
  "DisplayType": "400",
  "SubUnitTypeDescr": "MultiSensor 6",
  "MasterSubUnitID": "123154",
  "SubUnitID": "123154",
  "SubUnitUniqueID": "ZW0D9D93FCC-008",
  "UnitNo": "5",
  "DataValue": "23",
  "Unit": "°C",
  "OperationStatus": "0",
  "ReadingUpdated": "13:06",
```



```

    "LastSignal": "Återfått kontakt",
    "LastSignalDT": "13:06",
    "Descr": "Light sensor",
    "LastDataEvent": "Värde uppdaterat",
    "Decimals": "1",
    "Setting": "3",
    "LowBattery": false,
    "BatteryLevel": 100,
    "LostConnection": 0,
    "SensorType": "3101",
    "IncludedInAutoSunShade": "0"
  },
  {
    "DisplayType": "400",
    "SubUnitTypeDescr": "Multi Sensor - Light",
    "MasterSubUnitID": "123154",
    "SubUnitID": "123155",
    "SubUnitUniqueID": "ZW0D9D93FCC-008",
    "UnitNo": "5",
    "DataValue": "31",
    "Unit": " Lux",
    "OperationStatus": "0",
    "ReadingUpdated": "13:06",
    "Descr": "Light sensor",
    "LastDataEvent": "Värde uppdaterat",
    "Decimals": "0",
    "Setting": "3",
    "LowBattery": false,
    "BatteryLevel": 100,
    "LostConnection": 0,
    "SensorType": "3103",
    "IncludedInAutoSunShade": "0"
  }
]
},
{
  "CountComponents": 2,
  "GroupNo": "3",
  "Descr": "Upper floor",
  "DisplayType": 920,
  "Status": "0",
  "GroupProperties": "0000000000",
  "Components": [
    {
      "DisplayType": "300",
      "SubUnitTypeDescr": "Handtag",
      "MasterSubUnitID": "122815",
      "SubUnitID": "122815",
      "SubUnitUniqueID": "ZW0D9D93FCC-003",
      "GroupNo": "950",
      "UnitNo": "2",
      "OperationStatus": "255",
      "ReadingUpdated": "Oct 2, 14:20",
      "LastSignal": "System uppstartat",
      "LastSignalDT": "Sep 25, 12:59",
      "Descr": "Handle, Kims window",
      "LastDataEvent": "Öppnad",
      "Setting": "3",
      "LowBattery": false,
    }
  ]
}

```



```
    "BatteryLevel": 100,
    "LostConnection": 0,
    "MT": 10,
    "SensorType": "7106",
    "AlertTime": 10,
    "ReadingAlertTimer": 21578,
    "IncludedInAutoSunShade": "0"
  },
  {
    "DisplayType": "300",
    "SubUnitTypeDescr": "Strips",
    "MasterSubUnitID": "110607",
    "SubUnitID": "110607",
    "SubUnitUniqueID": "ZW0FAD003FF-024x110607",
    "UnitNo": "3",
    "OperationStatus": "0",
    "ReadingUpdated": "Sep 23, 19:05",
    "Descr": "Master bedroom window",
    "LastDataEvent": "Öppnad",
    "Setting": "3",
    "LowBattery": false,
    "BatteryLevel": 100,
    "LostConnection": 0,
    "MT": 10,
    "SensorType": "7106",
    "IncludedInAutoSunShade": "0"
  }
]
}
]
},
],
"Descr": "Accessories"
},
{
  "Pages": [],
  "ActionSets": {
    "BaseUnitID": 12639,
    "ClusterID": 1,
    "GroupDescr": "",
    "ActionSetsDirect": [],
    "ActionSetsIndirect": [],
    "ActionSets": [
      {
        "SortOrder": 4,
        "ActionSetID": 25217,
        "Disabled": 0,
        "Type": 5,
        "Descr": "Living room Heating Zone",
        "RelatedToGroupNoDescr": "",
        "Conditions": [
          {
            "NextDT": 1.50670157E9,
            "NextDTnoRandom": 1.50670157E9,
            "TriggerDescr": "",
            "SubUnitID": "0",
            "SubUnitDescr": "0000 ",
            "SubUnitTypeDescr": "",
            "ValidWeekdays": "1111111",

```



```
        "ValidFromTimeString": "0000",
        "ValidToTimeString": "2359",
        "ValidOperationMode": 9,
        "Action1_Value1": 21,
        "Action1_Value2": -120,
        "Action2_Value1": 1
    }
}
},
{
    "SortOrder": 9,
    "ActionSetID": 25076,
    "Disabled": 0,
    "Type": 4,
    "Descr": "Living room auto light control",
    "RelatedToGroupNoDescr": "",
    "Conditions": [
        {
            "NextDT": 1.50581107E9,
            "NextDTnoRandom": 1.50581107E9,
            "TriggerID": 81,
            "TriggerDescr": "Special 02 - Auto Sun Shade Advanced",
            "SubUnitID": "123155",
            "SubUnitDescr": "0105 Light sensor",
            "SubUnitTypeDescr": "Multi Sensor - Light",
            "ValidWeekdays": "0001000",
            "ValidFromTimeString": "0900",
            "ValidToTimeString": "1700",
            "ValidOperationMode": 9,
            "RecurringType": 16,
            "TriggerValue1": 1000,
            "TriggerValue2": 6000,
            "Action1_Value2": 50,
            "Action2_Value2": 75,
            "Action3_Value2": 99,
            "Timespan1": 600,
            "Timespan2": 1200
        }
    ]
},
{
    "SortOrder": 1,
    "ActionSetID": 25120,
    "Disabled": 0,
    "Type": 2,
    "Descr": "TV time",
    "RelatedToGroupNo": 3,
    "RelatedToGroupNoDescr": "Upper floor",
    "RelatedToUnitNo": 4,
    "TemplateActionSetID": 25119,
    "Conditions": [
        {
            "NextDT": -6.2135595E10,
            "NextDTnoRandom": -6.2135595E10,
            "TriggerDescr": "",
            "SubUnitID": "0",
            "SubUnitDescr": "0000 ",
            "SubUnitTypeDescr": "",
            "ValidWeekdays": "0000000",

```



```
        "ValidFromTimeString": "0000",
        "ValidToTimeString": "2359",
        "ValidOperationMode": 9,
        "ReccuringType": 10
    }
  ],
},
{
  "SortOrder": 1,
  "Disabled": 11,
  "Type": 2,
  "Descr": "TV dags",
  "RelatedToGroupNoDescr": "",
  "TemplateActionSetID": 23689,
  "Conditions": [
    {
      "NextDT": -6.2135595E10,
      "NextDTnoRandom": -6.2135595E10,
      "TriggerDescr": "",
      "SubUnitID": "0",
      "SubUnitDescr": "",
      "SubUnitTypeDescr": "",
      "ValidWeekdays": "0000000",
      "ValidFromTimeString": "0000",
      "ValidToTimeString": "2359",
      "ValidOperationMode": 9,
      "ReccuringType": 10
    }
  ]
},
{
  "SortOrder": 3,
  "Disabled": 11,
  "Type": 1,
  "Descr": "Läggdags",
  "RelatedToGroupNoDescr": "",
  "TemplateActionSetID": 23305,
  "Conditions": [
    {
      "NextDT": 1.49146022E9,
      "NextDTnoRandom": 1.49146022E9,
      "TriggerDescr": "",
      "SubUnitID": "0",
      "SubUnitDescr": "",
      "SubUnitTypeDescr": "",
      "ValidWeekdays": "1111100",
      "ValidFromTimeString": "0000",
      "ValidToTimeString": "2359",
      "ValidOperationMode": 9,
      "ReccuringType": 6
    }
  ]
},
],
"Types": [
  {
    "Type": 1,
    "Descr": "Schedule"
  },
],
```



```
{
  "Type": 2,
  "Descr": "Scenario"
},
{
  "Type": 4,
  "TriggerID": 81,
  "Descr": "Auto Light Control",
  "DefaultAction1Value2": 50,
  "DefaultAction2Value2": 75,
  "DefaultAction3Value2": 99,
  "DefaultTimespan1": 600,
  "DefaultTimespan2": 1200
},
{
  "Type": 5,
  "Descr": "Heating Zone",
  "DefaultAction1Value1": 21,
  "DefaultAction1Value2": 10
}
]
},
"Descr": "Automation"
}
]
},
"Locations": [
  {
    "BaseUnitID": "12639",
    "ClusterID": 1,
    "Descr": "Home"
  },
  {
    "BaseUnitID": "5902",
    "ClusterID": 1,
    "Descr": "WeBeHome Kumpan Office (Home Gateway)"
  }
]
}
```

26.1. Minimum content of ActiveLocation

```
{
  "ActiveLocation": {
    "BaseUnitID": "12639",
    "Descr": "Home",
    "StructureChecksum": "1110347",
    "HasGateway": 1,
    "Tabs": [
      {
        "Descr": "Status",
        "Pages": [
          {
            "CountComponents": 0,
            "Components": [],
            "Groups": [],
          }
        ]
      },
      {
        "Pages": [
          {
            "Descr": "Accessories",
            "CountComponents": 1,
            "Components": [
              {
                "DisplayType": "100",
                "SubUnitTypeDescr": "Strömbrytare",
                "MasterSubUnitID": "122869",
                "SubUnitID": "122869",
                "SubUnitUniqueID": "ZW0D9D93FCC-007",
                "OperationStatus": "255",
                "ReadingUpdated": "Oct 13, 10:12",
                "LastSignal": "Återfått kontakt",
                "LastSignalDT": "Sep 20, 10:36",
                "Descr": "Coffee machine",
                "LastDataEvent": "Strömbrytare påslagen",
                "ShowInMain": 1,
                "Setting": "3",
                "LowBattery": false,
                "BatteryLevel": 0,
                "LostConnection": 0,
                "SensorType": "25",
                "IncludedInAutoSunShade": "0"
              }
            ],
            "Groups": []
          }
        ]
      }
    ],
    {
      "Pages": [],
      "Descr": "Automation",
      "ActionSets": {
        "ActionSets": [],
        "Types": []
      }
    }
  }
}
```



WeBeHome Open App API (2018-11-23)

```
}  
  |  
}
```



27. Appendix 5 – Example of App Add device flow

This is what happens when a user go into the "Add device" page:

27.1. Doc/GetAddDeviceList

To get a list of the devices that is possible to add based on which devices the App(Brand) supports and based on status of the location.

Argument:

```
{  
  "Created":1510306982,  
  "AppVersion":429,  
  "BaseUnitID":"9357",  
  "ClusterID":1,  
  "LanguageID":2  
}
```

Reponse:

```
{  
  "CreatedDT": 1510306982,  
  "UpdateDT": 1506430635,  
  "Devices": [  
    {  
      "DocID": 2100,  
      "UpdateDT": 1476930714,  
      "Descr": "Home Gateway",  
      "AddDeviceHandling": 11,  
      "AddDeviceHandlingOriginal": 11,  
      "PicturePath": "homegateway2_140x140.jpg",  
      "ProductNumber": "WBH-HG2-EU"  
    },  
    {  
      "DocID": 1200,  
      "UpdateDT": 1490948129,  
      "Descr": "Copenhagen Blind",  
      "AddDeviceHandling": 1,  
      "AddDeviceHandlingOriginal": 1,  
      "PicturePath": "zwave_140.jpg",  
      "ProductNumber": "AACPH-CB-EU"  
    },  
    {  
      "DocID": 1220,  
      "UpdateDT": 1490948170,  
      "Descr": "Copenhagen Blind Wall Controller",  
      "AddDeviceHandling": 1,  
      "AddDeviceHandlingOriginal": 1,  
      "PicturePath": "zwave_140.jpg",  
      "ProductNumber": "AACPH-RC1-EU"  
    },  
    {  
      "DocID": 1100,  
      "UpdateDT": 1505844545,  
      "Descr": "Wallplug",  
      "AddDeviceHandling": 1,  
      "AddDeviceHandlingOriginal": 1,  
      "PicturePath": "Philio_pan11_140.jpg",  
    }  
  ]  
}
```




```
"ProductNumber": "PAN11-1E"
},
{
  "DocID": 1230,
  "UpdateDT": 1490948428,
  "Descr": "Door/Window Handle",
  "AddDeviceHandling": 1,
  "AddDeviceHandlingOriginal": 1,
  "PicturePath": "zwave_140.jpg",
  "ProductNumber": "HOPPE Z-EU"
},
{
  "DocID": 1210,
  "UpdateDT": 1476929291,
  "Descr": "Door/Window Sensor",
  "AddDeviceHandling": 1,
  "AddDeviceHandlingOriginal": 1,
  "PicturePath": "Strips_140.jpg",
  "ProductNumber": "STRIPS"
},
{
  "DocID": 1109,
  "UpdateDT": 1491204311,
  "Descr": "Temp and Humidity sensor",
  "AddDeviceHandling": 1,
  "AddDeviceHandlingOriginal": 1,
  "PicturePath": "Philio_PAT02-B_140.jpg",
  "ProductNumber": "PAT02-1B"
},
{
  "DocID": 1052,
  "UpdateDT": 1499267809,
  "Descr": "MultiSensor 6",
  "AddDeviceHandling": 1,
  "AddDeviceHandlingOriginal": 1,
  "PicturePath": "zwave_140.jpg",
  "ProductNumber": "ZW100-C"
},
{
  "DocID": 1240,
  "UpdateDT": 1506430635,
  "Descr": "Danfoss Thermostat",
  "AddDeviceHandling": 1,
  "AddDeviceHandlingOriginal": 1,
  "PicturePath": "DanfossThermostat_140.jpg",
  "ProductNumber": "014G0013.v4"
}
]
}
```



27.2. Doc/GetAddContent

When the user select a device to add the wizard is loaded.
In this example the user has selected a Wall Plug.
The DocID is supplied in the list above.

Argument:

```
{
  "Created":1510307410,
  "AppVersion":429,
  "BaseUnitID":"9357",
  "ClusterID":1,
  "DocID":"1100"
}
```

Response:

The reponse is very large since it contains Base64 encoded images and is therfor not included here.

27.3. Device/Add

When the wizard gets to the Add device part, the app calls the Device/Add function
The app continue to poll this function until it either has added a device or it has timed out.

Se separate flow for the Device/Add

27.1. Device/LoadAdvanced

Load information about what user should be able to input based on which type of device and if it is in the Wizard or in Edit function.
This information builds up the contents of the page that the user see and the possible input values.

Arguments:

```
{
  "Created":1510308520,
  "AppVersion":429,
  "BaseUnitID":"1346",
  "ClusterID":1,
  "SubUnitID":"125593",
  "MountingType":"",
  "Option":"GUIDE"
}
```

Response:

```
{
  "SubUnitID": 125593,
  "DisplayType": 100,
  "Fields": [
    {
```



```
"Code": "F03",
"Descr": "Description",
"Info": "Type in a short description of the accessory, e.g. Front door or Living room roof
lamp",
"Type": 3,
"Property": 2,
"Value1": ""
},
{
"Code": "F04",
"Descr": "Group:",
"Info": "Each Group has a number. For example 01 to 09 = Rooms in Basement, 11 to 19 =
Rooms in floor 1, 21 to 29 = room on floor 2, 50 = Outside, 60 =Remote controls. For customer with
many accessories it can be subdivided like 21 =Kitcken, 22=Living room etc. No 80 to 90 are used for
the keypad KP-3S. No 91 to 99 are separate zones that can be armed/disarmed separate from the
other Groups.",
"Type": 4,
"Property": 2,
"Value1": "0",
"OptionList1": [
{
"OptionValue": "0",
"OptionDescr": "No group"
},
{
"OptionValue": "1",
"OptionDescr": "Basement"
},
{
"OptionValue": "2",
"OptionDescr": "Groventre och hall"
},
{
"OptionValue": "3",
"OptionDescr": "Gästrum"
},
{
"OptionValue": "7",
"OptionDescr": "Working room"
},
{
"OptionValue": "9",
"OptionDescr": "Test devices"
},
{
"OptionValue": "10",
"OptionDescr": "First floor"
},
{
"OptionValue": "11",
"OptionDescr": "Lekrum"
},
{
"OptionValue": "17",
"OptionDescr": "Ghopy hgjgg"
},
{
"OptionValue": "20",
"OptionDescr": "Grp 20"
}
```



```
    },
    {
      "OptionValue": "21",
      "OptionDescr": "Grp 21"
    },
    {
      "OptionValue": "25",
      "OptionDescr": ""
    },
    {
      "OptionValue": "71",
      "OptionDescr": "New and unnamed Z-wave devices"
    },
    {
      "OptionValue": "72",
      "OptionDescr": "GrP 4'hjj"
    },
    {
      "OptionValue": "73",
      "OptionDescr": "Hgh23 Ppl"
    },
    {
      "OptionValue": "100",
      "OptionDescr": "New group"
    }
  ]
},
{
  "Code": "FX1",
  "Descr": "Save",
  "Type": 8,
  "Property": 1
}
]
```

27.1. Device/SaveAdvanced

When user has entered the required information, the updated data is saved.

Arguments:

```
{
  "Created":1510308580,
  "AppVersion":429,
  "BaseUnitID":"1346",
  "ClusterID":1,
  "SubUnitID":"125593",
  "List":
  [
    {"Code":"F03","Value1":"Test wall plug"},
    {"Code":"F04","Value1":"1"},
    {"Code":"F5C","Value1":0,"Value2":""},
    {"Code":"F0I","Value1":"","Value2":""},
    {"Code":"F0P","Value1":"","Value2":""}
  ]
}
```



Response

```
{"Created": "1510308580"}
```