Wiser Hub 2nd generation

First of all, the wiser generation 2 is fully compliant with the actual integration.

1. Data provided by Wiser Hub 2nd generation

Communication

Exemples of requests between HA and the wiser Hub

Requests:

HTTP	408 GET /data/v2/domain/ HTTP/1.1
HTTP	409 GET /data/v2/network/ HTTP/1.1
HTTP	411 GET /data/v2/schedules/ HTTP/1.1
HTTP	408 GET /data/v2/status/ HTTP/1.1

Responses

HTTP/JS	697 HTTP/1	1 200	OK ,	JavaScript	Object	Notation	(application/json)
HTTP/JS	1058 HTTP/1	1 200	OK ,	JavaScript	Object	Notation	(application/json)
HTTP/JS	1477 HTTP/1	1 200	OK ,	JavaScript	Object	Notation	(application/json)
HTTP/JS	136 HTTP/1	1 200	OK ,	JavaScript	Object	Notation	(application/json)

Data:

The communication between HA and the Wiser hub are built with a hierarchy:

Domain /data/domain/

Cloud

\triangleright	HeatingChannel	JavaScript Object Notation: application/json	
\succ	Room	✓ Object	
\succ	Device	Member: Cloud Member: HeatingChannel	
\triangleright	Zigbee	> Member: Room	
\triangleright	UpgradeInfo	> Member: Device	
\triangleright	Roomstat	> Member: Zigbee	
\triangleright	Smartplug	Member: UpgradeInfo	
\triangleright	HeatingActuator	Member: SmartPlug	
>	light	> Member: HeatingActuator	
>	Shutter	> Member: Light	
>	Automation	Member: Shutter Member: Automation	
6	PTF	> Member: Automation	
6	Weather	> Member: Weather	
		> Member: DeviceCapabilityMatrix	
	DeviceCapabilityWatrix	Member: FeatureCapability	
\succ	FeatureCapability	> Member: System	
\succ	System	> Member: Equipment	
\succ	Equipment		
		1	

- Network /data/network/
 - AccesPoint
 - Station

- JavaScript Object Notation: application/json
 - ✓ Object

✓ Object

- > Member: AccessPoint
- > Member: Station

- Schedules /data/schedules/
 - ➢ Heating
 - ➢ OnOff
 - > Level
- Opentherm /data/opentherm/
- Status /data/status/
 - > Uptime
 - lastResetReason
 - taskUsageEnabled

Member: Heating
Member: OnOff

JavaScript Object Notation: application/json

- > Member: Level
- JavaScript Object Notation: application/json
 - ✓ Object
 - > Member: uptime
 - Member: lastResetReason
 - Member: taskUsageEnabled

In bold, new datatype provided by wiser Hub gen 2

2. Power Tag E

Model one phase and model 3 phases





https://www.se.com/fr/fr/product/R9M60/wiser-energy-powertag-capteur-de-mesure-sans-filmonophas%C3%A9/

This device that provide electrical measures to a Wiser Hub or to a Wiser gateway (modbus TCP for example).

It can be used for import Energy from the grid, or to measure the Energy injected in the grid or to measure the consumption of one or a group of devices.

Then the Wiser Home application has an Energy Manager that:

- Archive the electrical data for a Power tag, or the consumption of the Smartplugs and heatingactuators.
- Provide reports to the user.
- Calculate the cost of the energy...
 Wiser home screenshots



Device PTE from the Hub

Extract from the diagnostic of the Hub

Data/domain/V2/Device/pte

```
"PTE": [
 {
    "id": 7,
    "EquipmentId": 4,
    "DeviceId": 7,
    "NumberOfPhases": "One",
    "Configured": "Configured",
    "UUID": "32e2c17c-xxxxxx",
    "InstallationType": "Bidirectional",
    "Direction": "Forward",
    "GridLimit": 36,
    "GridLimitUom": "kVA",
    "OperatingStatus": "NormalOperation",
    "FaultStatus": "NoFault",
    "EnergyExport": "Unable",
    "RawTotalActivePower": 1922
 }
```

3. Energy management

Data are provided by the hub by the level Domain/Equipment/ for PTE of course and smartplug and HeatingActuators

Equipment PTE

```
"id": 4,
"DeviceApplicationInstanceType": "PTE",
"DeviceApplicationInstanceId": 7,
"UUID": "f98b03a8-ad80-4274-8400-d872237fb940",
"Controllable": false,
"CloudManaged": false,
"NumberOfPhases": "One",
"Configured": "Configured",
"SelfConsumption": false,
"InstallationType": "Bidirectional",
"EnergyExport": "Unable",
"EquipmentFamily": "GRID",
"Direction": "Forward",
"GridLimit": 36,
"GridLimitUom": "kVA",
"IconId": 1,
"UnderPowerNotification": {
 "PeriodMins": 5,
 "Limit": 0,
 "Enabled": true
},
"OperatingStatus": "NormalOperation",
"FaultStatus": "NoFault",
"CurrentSummationDelivered": 57813,
"CurrentSummationReceived": 16455,
"TotalActivePower": 1922,
"ActivePower": 1922,
"RMSCurrent": 8,
"RMSVoltage": 235,
"PcmMode": false
```

HeatingActuators

```
"id": 2,
"DeviceApplicationInstanceType": "HeatingActuator",
"DeviceApplicationInstanceId": 3,
"UUID": "d301f13f-a5bf-439f-9597-99316c052000",
"Controllable": true,
"CloudManaged": false,
"NumberOfPhases": "One",
"Configured": "Configured",
```

```
"InstallationType": "Mono",
"EquipmentName": "16A-Room1",
"EquipmentFamily": "Heating",
"Direction": "Forward",
"OperatingStatus": "NormalOperation",
"FaultStatus": "NoFault",
"CurrentSummationDelivered": 1208,
"TotalActivePower": 0,
"ActivePower": 0
```

SmartPlug

```
"id": 3,
"DeviceApplicationInstanceType": "SmartPlug",
"DeviceApplicationInstanceId": 6,
"UUID": "3f2c499e-a7f9-4921-8ec5-3bb0fab05b17",
"Controllable": true,
"CloudManaged": false,
"NumberOfPhases": "One",
"Configured": "Configured",
"InstallationType": "Mono",
"EquipmentName": "Lampadaire ",
"EquipmentFamily": "ElectricalPlug",
"Direction": "Forward",
"FunctionalControlMode": "PowerContactor",
"IconId": 5,
"OperatingStatus": "NormalOperation",
"FaultStatus": "NoFault",
"CurrentSummationDelivered": 0,
"TotalActivePower": 0,
"ActivePower": 0,
"PcmMode": false
```

4. Questions for the wiser integration

- The hub as an organization of its data for each type of room, sensor or actuator, does it make sense to also create objects like the hub?
 By doing so, I think it should be easier to maintain the device (Wiser) or to add new device.
- The aioWiserHeatAPI has already such a structure.
- There are some differences between the hub V1 and the hub V2, how do you imagine the integration, one for the V1 and one for the V2 or one for both? (I have already made an adaptation for the shutters)

For smartplugs and Heating actuators some information are duplicated for Energy management in the equipment, what do you think about duplicate this?

5. Automation

With the Wiser Hub gen2 and Wiser Home app you can create automation (10 max)

Screen shots:

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Image: Canary Image: Canary Image: Canary	Fermor	Modifier une	Sauvegard	Sarvegard	Modifier une	Fermer
Simples Longue Alor Simples Sund Count Sund Simples Recount Longue Andt Simples Recount Longue Andt Simples Recount Longue Andt Presentation Longue Andt Sund Simples Recount Longue Longue Presentation Longue Longue Longue Simples Recount Longue Longue Simples Longue Longue Longue Signes Longue Longue Longue Signes Longue Longue Longue	e	anary			Canary	Ì
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Suppression d'un automatisme					materia andia antico ana	2
	Supp	ression d'un automa	itisme	latisme	nousenu a noisseig	uuc -

Data provided:

```
"id": 2,
"Name": "Canary ",
"IconId": 0,
"Enabled": false,
"EnableNotification": true
```

The command from the Wiser Home App

Create

Request:

POST /Automation?Name=Canary+&Enabled=true&IconId=0&EnableNotification=true HTTP/1.1 Secret: MnvhonRDhIQbTW..... Wiser-app-version: 6.5.0 Content-Type: application/json; charset=utf-8 Content-Length: 174 Host: 10..x.x.x Response:

HTTP/1.1 201 Created Content-Length: 79 Content-Type: application/json Keep-Alive: timeout=5, max=5

{"id":2,"Name":"Canary ","IconId":0,"Enabled":true,"EnableNotification":true}

Modify

request

PATCH /Automation/2?Name=Canary+&Enabled=true&IconId=0&EnableNotification=true HTTP/1.1 Secret: MnvhonRDhIQbTW..... Wiser-app-version: 6.5.0 Content-Type: application/json; charset=utf-8 Content-Length: 174 Host: 10..x.x.x

{"triggerMode":"Any","triggers":[{"domain":"SmartPlug","id":6,"get":"TargetState","comparator":"Equal s","compareTo":{"stringValue":"Off"}}],"timeConstraints":[],"actions":[]}

response

HTTP/1.1 200 OK Content-Length: 0 Content-Type: application/json Keep-Alive: timeout=5, max=5

Enable

Enable request

PATCH /data/v2/domain/Automation/2/Enabled HTTP/1.1 Secret: MnvhonRDhlQbTW..... Wiser-app-version: 6.5.0 Content-Type: application/json; charset=utf-8 Content-Length: 4 Host: 10..x.x.x

true

Enable response:

HTTP/1.1 200 OK Content-Length: 4 Content-Type: application/json Keep-Alive: timeout=5, max=5

Feature automation in the integration:

For Automations, I think that if we can display the "code" it should be nice but only commands to enable or disable, if it's possible.