Wiser Equipment Data

These data are provided, only by the V2 Hub, for the different smart-plugs, Power-tags, heating-actuators... all the devices that control loads.

Wiser will be developped by Schneider to integrate more features for energy management, they already announced that IA will integrate the house management,

Since a while I have added these part in my WiserPlatform.

New features introduced by wiser:

Power-tags: can measure the incoming energy (delivered and produced) or the load of a part of the private consumption.
It's the same for smart-plugs and heating-actuators.

Wiser can also notify us for a under-power or over-power

A load shedding system is introduced, if there is a peak of consumption Wiser shut down the device (smart-plugs) according to his stated-power , and priority level…

Wiser will optimize the energy cost by allowing the power on of some devices according the optimized cost. A new schedule has been introduce for that : "onoffcost".

My implementation:

To remain compatible with old systems, I added the new information in a sensor "equipment" which provides all the attributes and create new sensors for power, energy, current and voltage.I keep the consistency with the wiser data in naming. Data coming from hub V2 don't changed.

For the devices managed by a hub V I add:
➢ Equipment (with all the equipmentdata) equipment
➢ Power and energy LTS sensors,
➢ Voltage and Current

I have created also some **binary sensors** :

- ➢ equipment controllable
- ➢ equipment PCM
- ➢ equipment monitored

and **switches** and **selectors** for some new features like : enabling under-power or over-power notifications if declared in the Wiser Home app

Compare devices hub V1 / hub V2

Smartplug

Hub V1	HubV2
Contrôles	**Contrôles**
Away Mode Turns Off — (off)	Away Mode Turns Off — (on)
Device Lock — (off)	Device Lock — (off)
Identify — (off)	Identify — (off)
Mode: Manual	Mode: Manual
Switch — (on)	Over Power Notification — (off)
	Switch — (off)
AJOUTER AU TABLEAU DE BORD	Under Power Notification E... — (off)
	AJOUTER AU TABLEAU DE BORD
Capteurs	**Capteurs**
Power — 25 W	Equipment — 0 W
Signal — Online	Current — 0 A
Total Power — 960,6 kWh	Equipment Controllable — On
AJOUTER AU TABLEAU DE BORD	Equipment Energy Delive... — 6,98 kWh
	Equipment Monitored — On
	Equipment PCM Mode — On
	Equipment Power — 0 W
	Equipment Total Energy — 6,98 kWh
	Over Power Notification — On
	Signal — Online
	Under Power Notification — On
	AJOUTER AU TABLEAU DE BORD

HeatingActuator:

Hub V1	HubV2
Contrôles 🔒 Device Lock ⬜ 📢 Identify ⬜ AJOUTER AU TABLEAU DE BORD **Capteurs** 🔢 energie_salle_jour — 24,48 kWh ⚡ energie_salon_hor… — 1 585 567,01 Wh 📶 Signal — Poor 🏠 Wiser LTS Energy Sal… — 1 543,51 kWh 🏠 Wiser LTS Power Salle_Sal… — 1 918 W AJOUTER AU TABLEAU DE BORD 2 counters had been added , and linked to the device	**Contrôles** 🔒 Device Lock ⬜ 📢 Identify ⬜ AJOUTER AU TABLEAU DE BORD **Capteurs** ⚡ Equipment — 0 W ✅ Controllable — Activé ⚡ Equipment Energy Delive… — 5,17 kWh 🏠 Equipment Power — 0 W 🏠 Equipment Total Energy — 5,17 kWh ⭕ PCM Mode — Désactivé 📶 Signal — Poor

Powertag

Hub V2	
Contrôles	**Attributs** ⌃
🔒 Device Lock ⬤	Product identifier R9M60
☀ Identify ⬤	Name Unknown
✓ Over Power Notification ⬤	Device type PTE
	Family GRID
AJOUTER AU TABLEAU DE BORD	Installation type Bidirectional
	Equipment ID 3
Capteurs	Equipment device ID 7
	Equipment UUID 68ca62f8-4ac7-452a-9035-99aa5b684937
🏠 Equipment 29 W	Controllable false
⚡ Current 0 A	Cloud managed false
🏠 Energy Delivered 558,8 kWh	Monitored true
🏠 Energy Received 0,09 kWh	Smart compatible false
⚡ Equipment Controllable Off	Smart supported false
🔌 Equipment Monitored On	Can be scheduled false
⚡ Equipment PCM Mode Off	Onoff green schedule supported false
🏠 Equipment Total Energy 558,8 kWh	Onoff cost schedule supported false
✓ Over Power Notification On	Functional control mode Unknown
🏠 Power 29 W	Current control mode Manual
▽ Signal VeryGood	Pcm mode false
⚡ Voltage 223 V	Pcm supported false
	Pcm priority Inconnu
AJOUTER AU TABLEAU DE BORD	Number of phases One
	Direction Forward
	Operating status NormalOperation
	Fault status NoFault
	Load state status Unknown
	Load state command optimized Unknown
	Load shedding status Unknown
	Load state command prio Unknown
	Load setpoint command prio Inconnu
	Active power 29
	Total active power 29
	Energy 558,81
	Grid limit 6
	Grid limit Uom kVA
	Energy export Unable
	Self consumption false
	Rms current 0
	Rms voltage 227
	Energy received 89
	Energy delivered 558 806
	Over power notification enabled true

Attribute of equipment:

The device with equipmentdata provide the attibutes

Attributs	^
Product identifier	HeimanSmartplug
Name	plug1
Device type	SmartPlug
Family	ElectricalPlug
Installation type	Mono
Equipment ID	1
Equipment device ID	1
Equipment UUID	32736048-5043-4320-9c19-2ba8d7c8582c
Controllable	true
Cloud managed	false
Monitored	true
Smart compatible	false
Smart supported	false
Can be scheduled	false
Onoff green schedule supported	false
Onoff cost schedule supported	false
Functional control mode	PowerContactor
Current control mode	Manual
Pcm mode	true
Pcm supported	true
Pcm priority	2
Number of phases	One
Direction	Forward
Operating status	NormalOperation
Fault status	NoFault
Load state status	Shedding
Load state command optimized	Shedding
Load shedding status	notShed
Load state command prio	Shedding
Load setpoint command prio	0
Active power	0
Total active power	0
Energy	6,98
Energy delivered	6 976
Over power notification enabled	false
Under power notification enabled	false

Equipment data for devices

"Equipment"

Category	Field	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	Device 7	Device 8
Identification	"id"	1	2	2	4	5	6	3	2
	"DeviceApplicationInstanceType"	"SmartPlug"	"SmartPlug"	"SmartPlug"	"SmartPlug"	"SmartPlug"	"PTE"	"HeatingActuator"	"SmartPlug"
	"DeviceApplicationInstanceId"	1	2	3	3	9	10	7	3
	"UUID"	"3273d048-5043-4320-9c19-2ba8d7c8582c"	"b4a6b24e-9d88-4306-ae22-c89189f576ee"	"e49a8c7d-d1c3-45de-a999-b18c129cdfea"	"0ca66806-2338-4eef-bcf9-8f2f46ddf07b"	"d154b56-018a-41bf-af01-c6b6a9cf3a24"	"68ca6218-4ac7-452a-9035-99a5b684937"	"d301113f-a5bf-439f-9597-99316c052000"	"47b0e280-b679-40b4-bd11-59736672a761"
	"Controllable"	true	true	true	true	true	false	true	true
	"CloudManaged"	false	false	false	false	false	false	false	false
	"NumberOfPhases"	"One"	"One"	"One"	"One"	"One"	"One"	"One"	"One"
	"Configured"	"Configured"	"Configured"	"Configured"	"Configured"	"Configured"	"Configured"	"Configured"	"Configured"
	"SelfConsumption"						false		
	"InstallationType"	"Mono"	"Mono"	"Mono"	"Mono"	"Mono"	"Bidirectional"	"Mono"	"Mono"
Capabilities	"OnOffCostScheduled"				1				1
	"OverviewScheduled"				1				1
	"CanBeScheduled"	false	false	true	false	false	false	false	true
	"OnOffGreenScheduleSupported"	false	false	false	false	false	false	false	false
	"OnOffCostScheduleSupported"	false	false	true	false	false	false	false	true
	"SmartCompatible"	true	true	true	true	true	true	true	true
	"Monitored"								
	"AvailableControlState"						"Unable"		
	"selfManagement"								
	"consumptionForceOff"								
	"EquipmentName"	"plug1"	"Frigo"	"Ballon"	"Chaudiere"	"Machines"	"GRID"	"16A-Room1"	"Ballon ECS"
	"EquipmentFamily"	"ElectricalPlug"	"ElectricalPlug"	"WaterHeater"	"Heating"	"ElectricalPlug"	"GRID"	"Heating"	"WaterHeater"
	"Direction"	"Forward"	"Forward"	"Forward"	"Forward"	"Forward"	"Forward"	"Forward"	"Forward"
	"GridLimit"						5	6	
	"GridLimitUom"						"kVA"		
	"FunctionalControlMode"	"PowerContactor"	"PowerContactor"	"PowerContactor"	"PowerContactor"	"PowerContactor"			"PowerContactor"
	"StatedPower"			2000	2000				2800
	"LoadStateCommandOptimized"	"EnergyStorage"	"Shedding"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"
	"IconId"		6	6	8	54	5	1	8
Under power	"UnderPowerNotification"								
	"PeriodMins"	15	15				20	6	
	"Limit"	0	500				0	3000	
	"Enabled"	true	true			true	true	true	
over power	"OverPowerNotification"								
	"PeriodMins"	11							
	"Limit"	500							
	"Enabled"	true							
PCM	"PcmSupported"	true	true	true	false	true		false	true
	"PcmMode"	true	true	true	false	false		false	true
	"PcmPriority"	2	2	1	3	100	80	0	2
Status	"OperatingStatus"	"NormalOperation"	"NormalOperation"	"Disconnected"	"NormalOperation"	"NormalOperation"	"NormalOperation"	"NormalOperation"	"NormalOperation"
	"FaultStatus"	"NoFault"	"NoFault"	"MonitoringImpossible"	"NoFault"	"NoFault"	"NoFault"	"NoFault"	"NoFault"
Measures	"CurrentSummationDelivered"	5615	65899		0	9948	77396	517302	111201
	"CurrentSummationReceived"	0	0		0	0	91	89	5172
	"TotalActivePower"	0	0		0	0	91	140	0
	"ActivePower"	0	0		0	0	0	140	0
	"RMSCurrent"	0	0		0	0		0	1
	"RMSVoltage"						223	223	0
load	"LoadStateStatus"	"EnergyStorage"	"Shedding"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"	"Schedule"	"EnergyStorage"
	"CurrentControlMode"	"Manual"	"Smart"	"Manual"	"Manual"	"Manual"	"Manual"	"Manual"	"Smart"
	"SmartSupported"	false	true	false	false	false	false	false	true
	"LoadSheddingStatus"	"notShed"	"notShed"	"notShed"	"notShed"	"notShed"	"notShed"	"notShed"	"notShed"
	"LoadStateCommandPrio"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"	"EnergyStorage"	"Normal"	"Normal"	"EnergyStorage"
	"LoadSetpointCommandPrio"	0	0	0	0	0	0	0	0
	"SmartSupported"						false		