

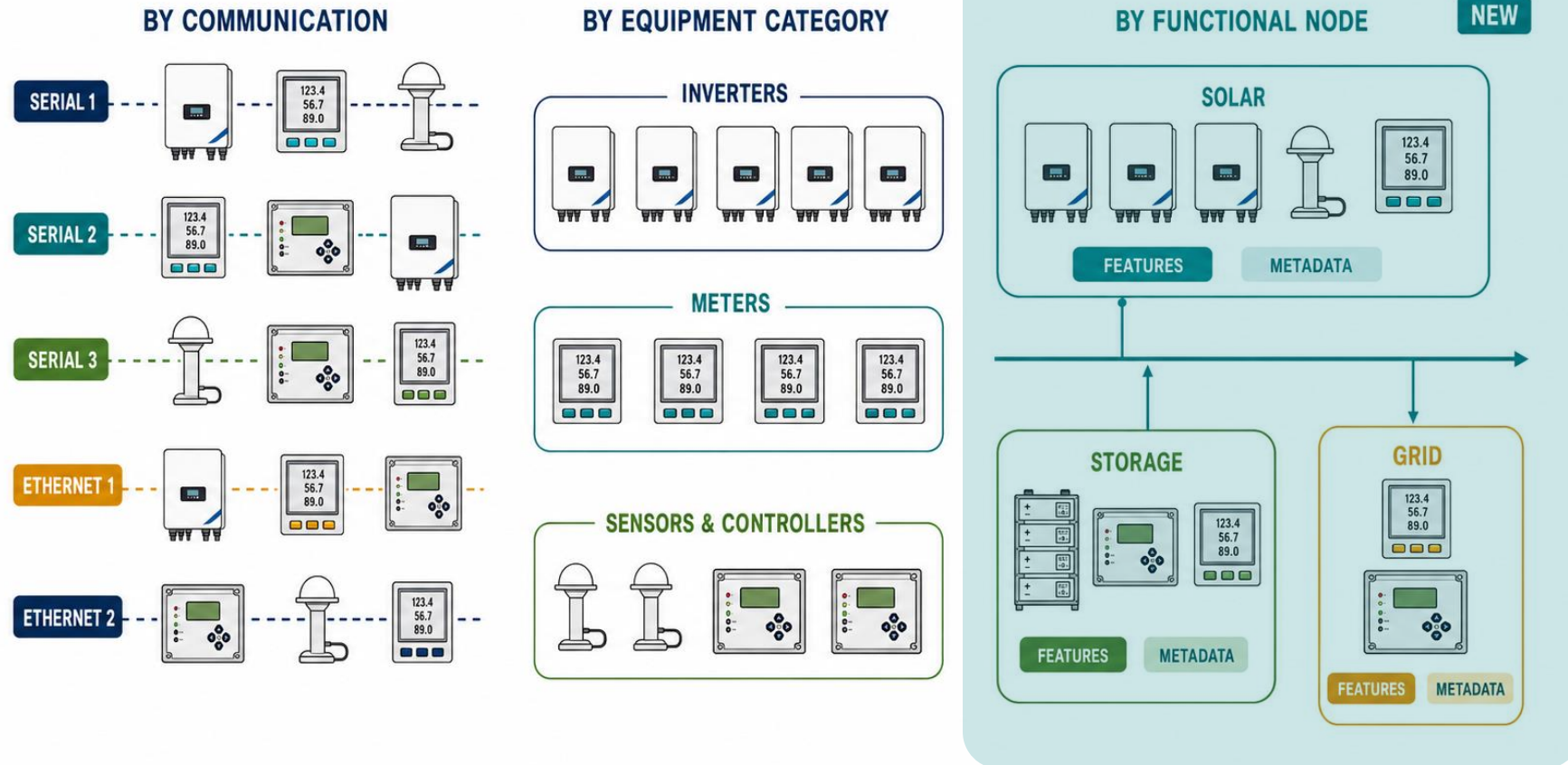
WebdynSunPM Firmware 5.2

Plant Manager & Script Library



Plant Manager adds a functional view of the plant.

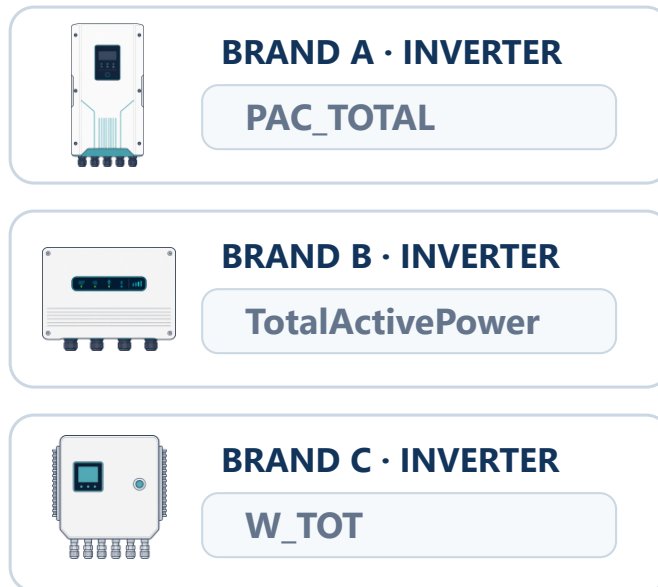
Communication and equipment views remain available. Plant Manager adds organization by energy function.



Webdyn Tags standardize native variables for Plant Manager.

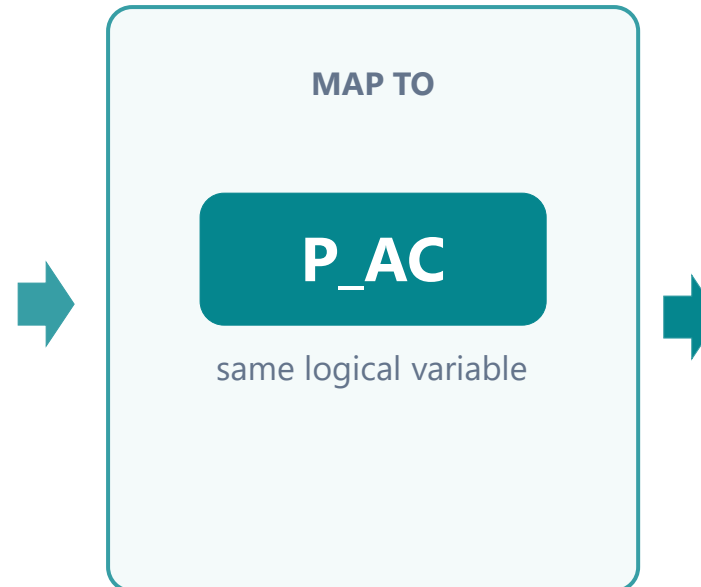
Different devices. One Language.

NATIVE VARIABLES



Each definition file keeps its native naming.

WEBDYN TAGS



A tag is added into definition files

STANDARD DATASET

DEVICE	P_AC	E_TOT	U_DC	CMD_P
INV-A	✓	✓	✓	✓
INV-B	✓	✓	—	—
INV-C	✓	✓	✓	—

PLANT MANAGER

Common structure across manufacturers, protocols and models.

HETEROGENEOUS EQUIPMENT



UNIFORM PLANT DATA

A functional plant model you can code against

Standard functions for devices. Coordinated functions for Solar and Grid nodes.

DEVICE FUNCTIONS



INVERTER

Control and active power

`setPowerOn()`

`setActivePowerKW()`



METER

Active power measurement

`getActivePowerKW()`

COMBINED
BY NODE

NODE FUNCTIONS

SOLAR NODE

One call coordinates the node



`solarSet...()`

`solarGet...()`

GRID NODE

Grid-level measurement and control



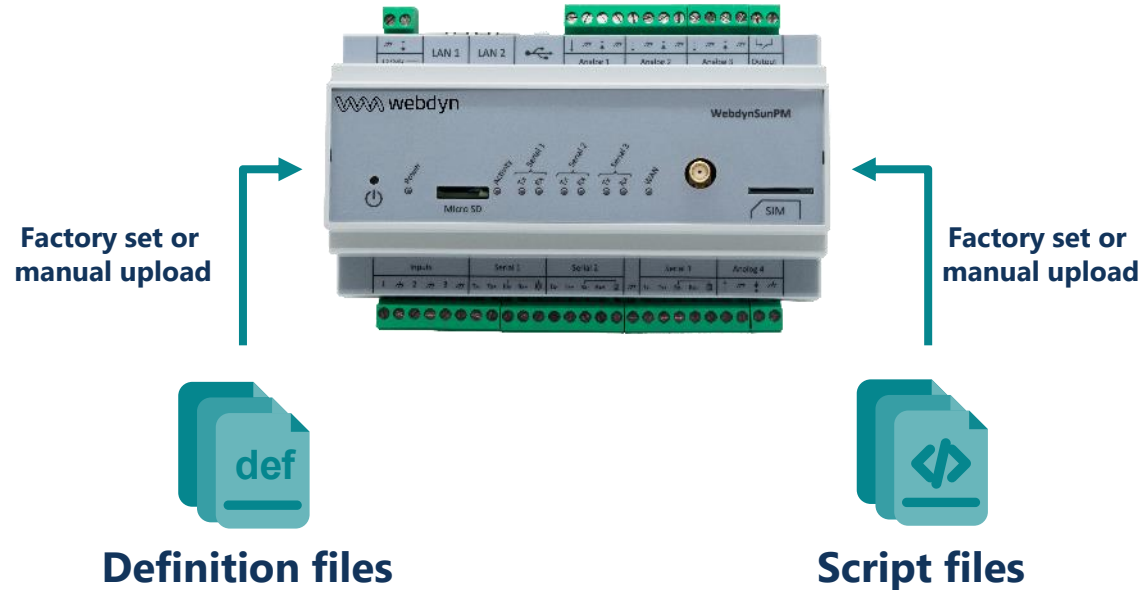
`gridSet...()`

`gridGet...()`

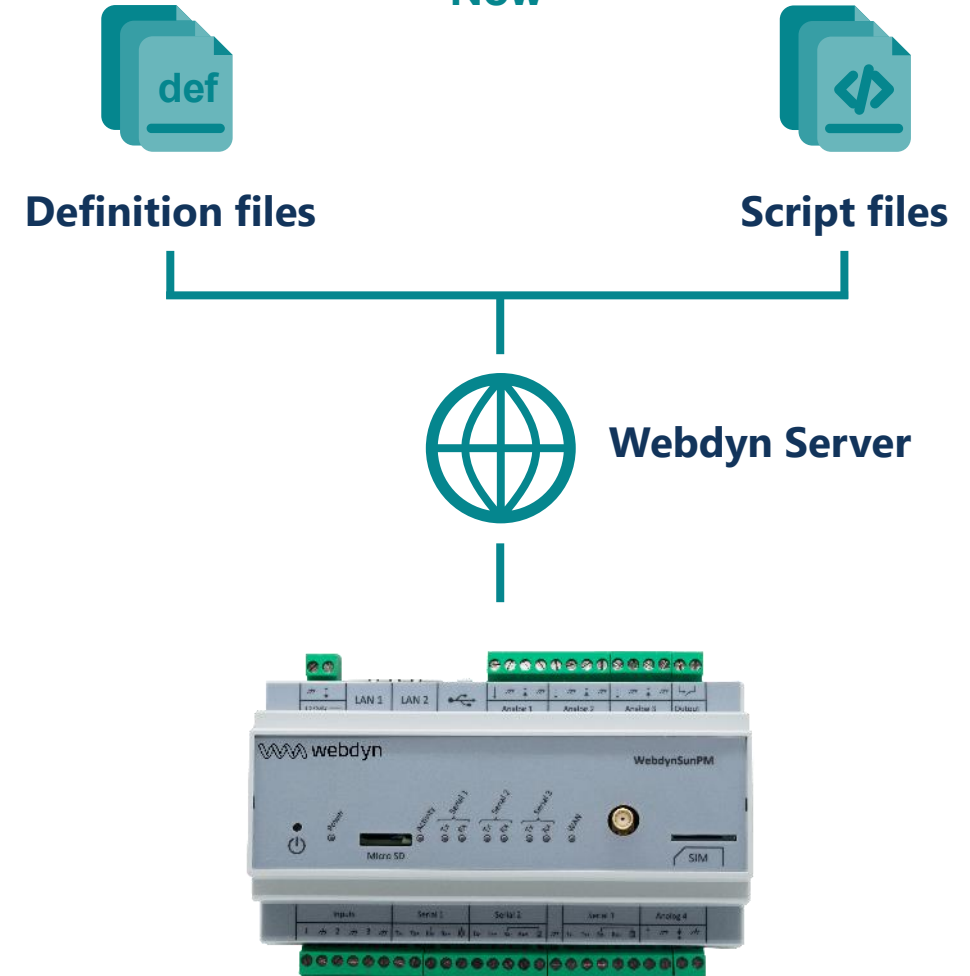
The Script Library keeps SunPM current.

The new Script Library is hosted on Webdyn Server, so SunPM retrieves new and updated Plant Manager scripts without manual import.

Before



Now



The Script Library keeps SunPM current.

Control

 Import

Import a script library, a script file or a licence file

 Library file or script file or licence file

Load

☐ Automatically update scripts when a new Script Library is imported

CancelSave

Services

Name	Description	Version	License	Library	Status	
ActivePowerRegulation	Active power regulation	6.0	Active		Enabled	
Decouplage	Decouplage	8	Missing/Invalid		Disabled	
GenSet-V1_04	Generator	1.04	Missing/Invalid	✓	Disabled	
LocalDisplay	Local Display	8	Not required	✓	Error	
PlantActivePowerRegulation	Plant Active power regulation	7.07	Active	✓	Disabled	
PlantPowerDirectControl	PowerDirectControl	1.08	Missing/Invalid	✓	Disabled	
RelayControl	Relay Control	2.0	Not required		Error	
SendCommand	Send Command	1.0	Not required		Error	
INV_RippleControl	INV Control IO	2.0	Missing/Invalid	✓	-	
InjectionAndProductionRegulation	injectionAndProductionRegulation	1.0	Missing/Invalid	✓	-	
PlantDecouplage	Decouplage	14	Missing/Invalid	✓	-	
PlantRelayControl	Relay Control	2.2	Not required	✓	-	
PlantSendCommand	Send Command	1.0	Not required	✓	-	

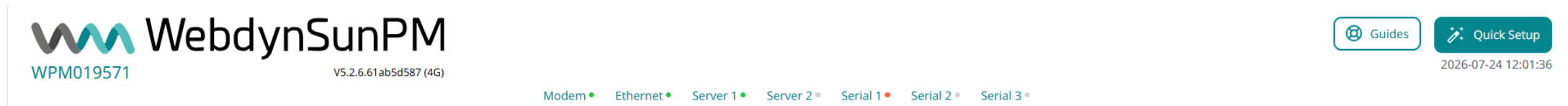
Script from library are easily visible

- Column 'Library'
- Update availability are color coded yellow

Script Library updates are triggered in System > Actions

Web UI improvement for better operation

Statuses of network, server and communication are displayed on top of the page



Device appears in table format in Monitoring

Device

Category

Inverter

Meter

Display

Input / Output

Logger

Sensor

Detect device

Add device

Dagnostic

Name	Node Type	Manufacturer	Model	Interface	Status	
sungrow	Solar	Sungrow	Generic	Ethernet	Offline	⋮
huawei	Solar	Huawei	V4	Ethernet	Offline	⋮
sdolis	Solar	Solis	GENERIC	Serial 1	Offline	⋮

Changes to config file “daq.csv”

With Plant Manager, device configuration file daq.csv is modified

FW 5.1

Index	Interface	Name	Address	acqPeriod(s)	Timeout(ms)	serialNumber	Parameters	Tag	Model	defFile
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FW 5.2

Index	Interface	Name	Address	acqPeriod(s)	Timeout(ms)	serialNumber	Parameters	Category	Node	defFile
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Tag has been modified to **Category** (as before FW 5.1).

Model has been modified to **Node**

SerialNumber is Read-Only from the proprietary protocol

Category is Read-Only from the definition file

Node is R/W and is automatically set from the equipment (Inverter > Solar, Meter > Grid, etc.)