



DeviceLab
EXTRACTING VALUE

DeviceLab Payload Collector, - How to create and load a predefined meterlist!

The Payload Collector App supports loading a predefined meterlist for monitoring or collecting specific devices!

About this Guide!

This Guide is written and illustrated based on the latest release version of the Payload Collector App available at the time of this Guides release.

We are actively updating our Guides, but we reserve the right to deviate as updates to the Payload Collector App with fixes and new features may have been released since this Guide was published.

*Please visit our website: www.deviceclab.dk
or contact our support: support@deviceclab.dk
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How to create a predefined meterlist:

A predefined meter-list must be in the following .csv format...

```
1 "Serial";"Manufacturer";"Notes"
2 "00185818";"ABB";"Office electricity meter"
3 "00021858";"GAV";"Main electricity meter"
4 "63000055";"ELV";"Office climate"
5 "80719641";"KAM";"Heat,North"
6 "80719652";"KAM";"Heat,South"
7 "19050653";"BMT";"Garage climate"
8 "19050563";"BMT";"Celler climate"
9
10
11
```

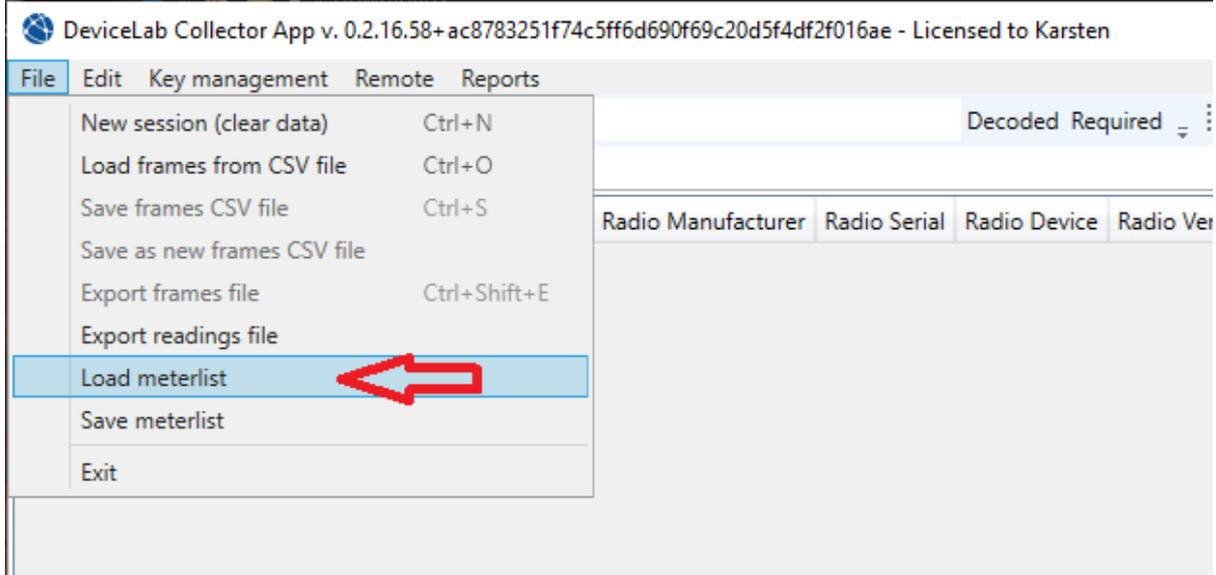
```
"Serial";"Manufacturer";"Notes"  
"00185818";"ABB";"Office electricity meter"  
"00021858";"GAV";"Main electricity meter"  
"63000055";"ELV";"Office climate"  
"80719641";"KAM";"Heat, North"  
"80719652";"KAM";"Heat, South"  
"19050653";"BMT";"Garage climate"  
"19050563";"BMT";"Celler climate"
```

"Notes" - can be whatever it takes to recognize the device and its location.

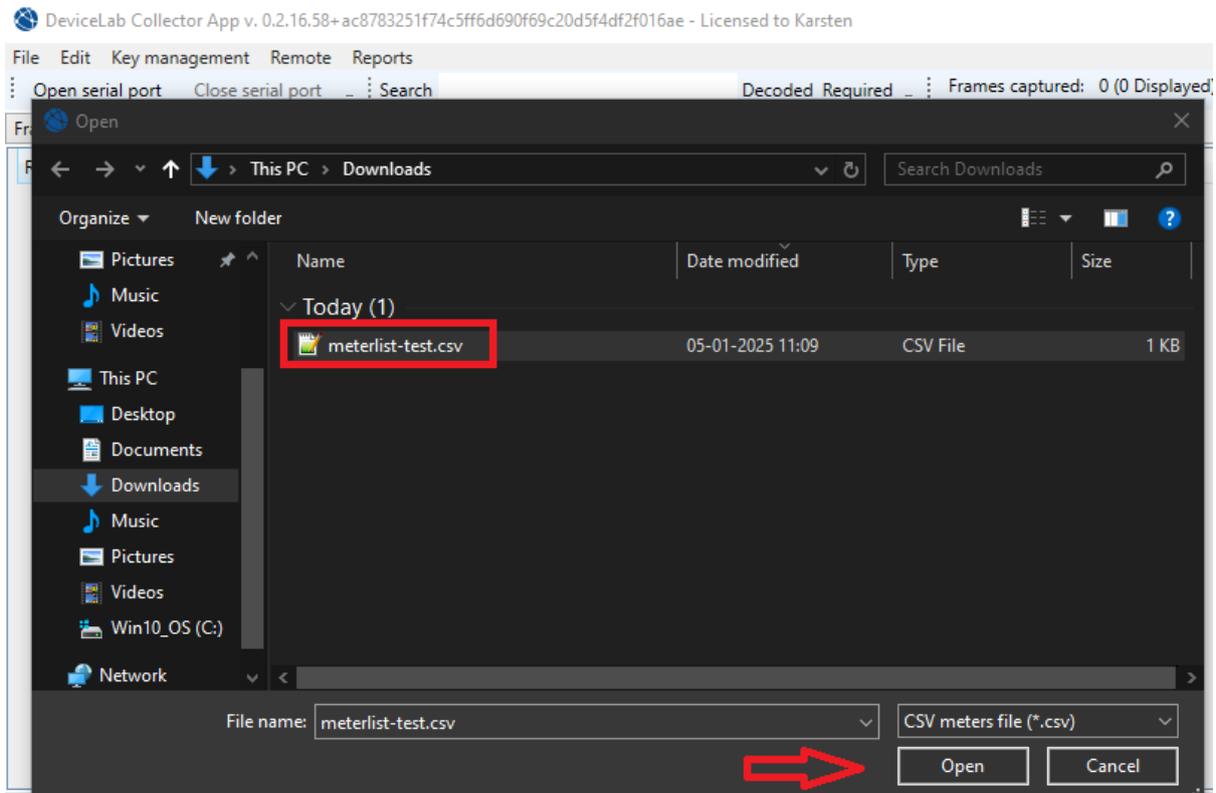


How to load a predefined meterlist:

In the Payload Collector, open "File" and select "Load meterlist".



Locate and select your created "meterlist" file and Press "Open"





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EXTRACTING VALUE

In the Payload Collector's meter view, the loaded "meterlist" can now be seen.

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File Edit Key management Remote Reports

Open serial port Close serial port Search Decoded Required Frames captured: 0 (0 Displayed) Total meters: 7 (0 Found 7 Missing 7 Displayed)

Frames Meters Setup

| Required | Manufacturer | Serial | Device | Version | Radio Manufacturer | Radio Serial | Radio Device | Radio Version | Description | Latest value | Format signature | Frame count | Decoded | Notes |
|-------------------------------------|--------------|----------|--------|---------|--------------------|--------------|--------------|---------------|-------------|--------------|------------------|-------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | ELV | 63000055 | | | | | | | | | | 0 | <input type="checkbox"/> | Office climate |
| <input checked="" type="checkbox"/> | KAM | 80719652 | | | | | | | | | | 0 | <input type="checkbox"/> | Heat.South |
| <input checked="" type="checkbox"/> | BMT | 19050563 | | | | | | | | | | 0 | <input type="checkbox"/> | Celler climate |
| <input checked="" type="checkbox"/> | BMT | 19050563 | | | | | | | | | | 0 | <input type="checkbox"/> | Garage climate |
| <input checked="" type="checkbox"/> | KAM | 80719641 | | | | | | | | | | 0 | <input type="checkbox"/> | Heat.North |
| <input checked="" type="checkbox"/> | GAV | 21858 | | | | | | | | | | 0 | <input type="checkbox"/> | Main electricity meter |
| <input checked="" type="checkbox"/> | ABB | 185818 | | | | | | | | | | 0 | <input type="checkbox"/> | Office electricity meter |

Now press "Open serial port" to start your data collection*

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File Edit Key management Remote Reports

Open serial port Close serial port Search Decoded Required

Frames Meters Setup

Required Manufacturer Serial Device Version Radio Manufacturer Radio Serial Radio Device Radio Version Ra

Collected devices turns green as they got collected with a value. It means that a key** is loaded or the device is unencrypted!

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File Edit Key management Remote Reports

Open serial port Close serial port Search Decoded Required Frames captured: 89 (89 Displayed) Total meters: 39 (2 Found 5 Missing 39 Displayed)

Frames Meters Setup

| Required | Manufacturer | Serial | Device | Version | Radio Manufacturer | Radio Serial | Radio Device | Radio Version | Description | Latest value | Format signature | Frame count | Decoded | Notes |
|-------------------------------------|--------------|----------|--------|---------|--------------------|--------------|--------------|---------------|-------------------------|--------------|------------------|-------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | ELV | 63000055 | | | | | | | | | | 0 | <input type="checkbox"/> | Office climate |
| <input checked="" type="checkbox"/> | KAM | 80719652 | | | | | | | | | | 0 | <input type="checkbox"/> | Heat.South |
| <input checked="" type="checkbox"/> | BMT | 19050563 | | | | | | | | | | 0 | <input type="checkbox"/> | Celler climate |
| <input checked="" type="checkbox"/> | BMT | 19050563 | | | | | | | | | | 0 | <input type="checkbox"/> | Garage climate |
| <input checked="" type="checkbox"/> | KAM | 80719641 | | | | | | | | | | 0 | <input type="checkbox"/> | Heat.North |
| <input checked="" type="checkbox"/> | GAV | 21858 | 02 | 00 | | | | | EM24DINAV23 - 3 phases | 224900 Wh | 643 | 1 | <input checked="" type="checkbox"/> | Main electricity meter |
| <input checked="" type="checkbox"/> | ABB | 185818 | 02 | 20 | | | | | Electricity meter | 1964050 Wh | 50455 | 6 | <input checked="" type="checkbox"/> | Office electricity meter |
| <input type="checkbox"/> | KAM | 73004254 | 32 | 04 | | | | | Unidirectional repeater | | | 5 | <input type="checkbox"/> | |
| <input type="checkbox"/> | KAM | 73017868 | 32 | 04 | | | | | Unidirectional repeater | | | 3 | <input type="checkbox"/> | |
| <input type="checkbox"/> | KAM | 73004707 | 32 | 04 | | | | | Unidirectional repeater | | | 4 | <input type="checkbox"/> | |

Devices with no keys loaded shows up "Yellow", - eventually not received devices stays "Red"

Devices in the meterlist is marked in "Required! - other received devices in the area is shown below in Yellow!

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File Edit Key management Remote Reports

Open serial port Close serial port Search Decoded Required Frames captured: 716 (716 Displayed) Total meters: 52 (6 Found 1 Missing 52 Displayed)

Frames Meters Setup

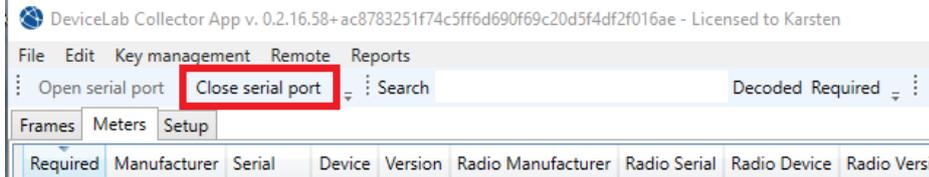
| Required | Manufacturer | Serial | Device | Version | Radio Manufacturer | Radio Serial | Radio Device | Radio Version | Description | Latest value | Format signature | Frame count | Decoded | Notes |
|-------------------------------------|--------------|----------|--------|---------|--------------------|--------------|--------------|---------------|--------------------------|------------------|------------------|-------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | ABB | 185818 | 02 | 20 | | | | | Electricity meter | 1964060 Wh | 50455 | 42 | <input checked="" type="checkbox"/> | Office electricity meter |
| <input checked="" type="checkbox"/> | GAV | 21858 | 02 | 00 | | | | | EM24DINAV23 - 3 phases | 224900 Wh | 643 | 3 | <input checked="" type="checkbox"/> | Main electricity meter |
| <input checked="" type="checkbox"/> | ELV | 63000055 | 1B | 0A | | | | | Room sensor | 3,58 °C, 75,5 % | 33489 | 1 | <input checked="" type="checkbox"/> | Office climate |
| <input checked="" type="checkbox"/> | KAM | 80719641 | 04 | 35 | | | | | MultiCal 603 - Heat mete | | | 5 | <input type="checkbox"/> | Heat.North |
| <input checked="" type="checkbox"/> | KAM | 80719652 | | | | | | | | | | 0 | <input type="checkbox"/> | Heat.South |
| <input checked="" type="checkbox"/> | BMT | 19050563 | 1B | 10 | | | | | RFM-AMB Room sensor | 7,40 °C, 64,4 % | 4013 | 1 | <input checked="" type="checkbox"/> | Garage climate |
| <input checked="" type="checkbox"/> | BMT | 19050563 | 1B | 10 | | | | | RFM-AMB Room sensor | 20,51 °C, 46,5 % | 4013 | 2 | <input checked="" type="checkbox"/> | Celler climate |
| <input type="checkbox"/> | KAW | 23521327 | 16 | 3A | | | | | KWM2210 - Cold water m | | | 2 | <input type="checkbox"/> | |
| <input type="checkbox"/> | KAM | 73005061 | 32 | 04 | | | | | Unidirectional repeater | | | 8 | <input type="checkbox"/> | |
| <input type="checkbox"/> | KAM | 73005137 | 32 | 04 | | | | | Unidirectional repeater | | | 4 | <input type="checkbox"/> | |
| <input type="checkbox"/> | KAM | 6839585 | 04 | 1A | | | | | MultiCal 601 - Heat mete | | | 2 | <input type="checkbox"/> | |



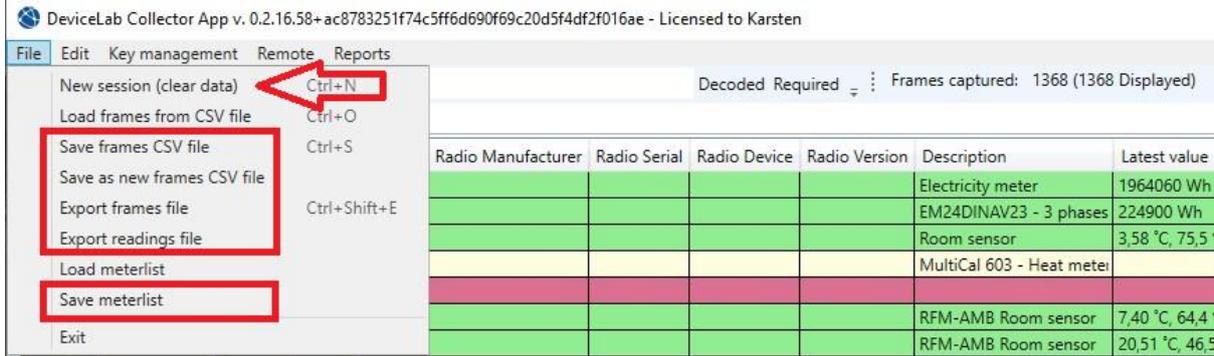
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EXTRACTING VALUE

When finish, - press "Close serial port" to stop data collection!



Now it's possible to save the collected data in different formats!



"Save frames CSV file": Save "frames" in a new file for later import using "Load frames from CSV file" or update previously saved file if it exists... - this feature can be used repeatedly during the data collection.

"Save frames CSV file": Save "frames" in a new file for later import using "Load frames from CSV file"

"Export frames file": Save a .csv file with "telegrams only"

"Export readings file": Save a .csv file with "readings"

"Save meterlist": Save a .csv file with meter marked "Required", - no meters marked saves a list of all collected devices!

"New session (clear data)": Clear all collected data and loaded meterlist!!!



* More info on How To collect and save data, see "**plc-getting-started**"

** More info on How To load keys, see "**plc-key-management**"