

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: <u>www.devicelab.dk</u> or contact our support: <u>support@devicelab.dk</u> <i>for the latest information.

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How to create a predefined meterlist:

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

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	meterl	st-test.csv 🔀	
	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		
1	0		
1	1		

"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".

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File	Edit Key management Remo	te Reports				
	New session (clear data)	Ctrl+N			Decoded Rec	uired 🝦
	Load frames from CSV file	Ctrl+O				
	Save frames CSV file	Ctrl+S	Radio Manufacturer	Radio Serial	Radio Device	Radio Ver
	Save as new frames CSV file					
	Export frames file	Ctrl+Shift+E				
	Export readings file					
	Load meterlist					
	Save meterlist					
	Exit					
			1			

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

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File Edit Key management Rem	ote Reports				
Open serial port Close serial port	ort _ Search	Decoded Required	Frames capture	ed: 0 (0 Displ	ayed
Fr: 🕙 Open					\times
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h Music 🗸 🗸	Today (1)				
🚆 Videos	🖌 meterlist-test.csv	05-01-2025 11:09	CSV File	1 KE	8
💻 This PC					
E Desktop					
🔮 Documents					
🖊 Downloads					
b Music					
E Pictures					
🔮 Videos					
🔚 Win10_OS (C:)					
🍚 Network 🗸 🧹					>
File name:	meterlist-test.csv		CSV meters file (*.cs	v) ~	
			Open	Cancel	1
					۱



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

S Dev	S DeviceLab Collector App v. 0.2.16.38+ac8/83251f/4c3tt6db90tb9c2/dd5t4df2t01bae - Licensed to Karsten													
File Ed	lit Key managen	ent Rem	ote Rep	ports										_
Oper	Open serial port Close										. Л.			
Frames	Frames Meters Setur													
Requir	ed Manufacturer	Serial	Device	Version	Radio Manufacturer	Radio Serial	Radio Device	Radio Version	Description	Latest value	Format signature	Frame count	Decoded	Notes
~	ELV	63000055										0		Office climate
~	KAM	80719652										0		Heat,South
~	BMT	19050563										0		Celler climate
v	BMT	19050653										0		Garage climate
✓	КАМ	80719641										0		Heat,North
v	GAV	21858										0		Main electricity meter
v	ABB	185818										0		Office electricity meter

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

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File Edit	Kev mana	gement Rer	note Rep	orts							
 Open se	rial port	Close serial p	ort 🚽	Search			Decoded I	Require			
Frames Meters Setup											
Required	Manufactu	urer Serial	Device	Version	Radio Manufacturer	Radio Serial	Radio Devi	ce Ra			

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

C DEVICE	ecan conector A	pp v, 0.2.10	JOTALOI	03231174	C31100030103C20031401	IZIOTUAE - LICE	insed to Raister	4							
File Edit	Key managem	nent Rem	ote Rej	ports											
Open se	Open serial port Close serial port 🛫 Search					Decoded Rec	Decoded Required 🝦 🗄 Frames captured: 89 (89 Displayed) 📕 Total meters: 39 (2 Found 5 Missing 39 Displayed) 🖕								
Frames 1	Meters Setup									V					
Required	Manufacturer	Serial	Device	Version	Radio Manufacturer	Radio Serial	Radio Device	Radio Version	Description	Latest value	Format signature	Frame count	Decoded	Notes	
~	ELV	63000055					0					0		Office climate	
✓	KAM	80719652										0		Heat,South	
✓	BMT	19050563					1		i i			0		Celler climate	
✓	BMT	19050653				8	2			1		0		Garage climate	
Image: A start of the start	KAM	80719641										0		Heat,North	
✓	GAV	21858	02	00			1		EM24DINAV23 - 3 phases	224900 Wh	643	1	 Image: A start of the start of	Main electricity meter	
✓	ABB	185818	02	20					Electricity meter	1964050 Wh	50455	6	 Image: A start of the start of	Office electricity meter	
	KAM	73004254	32	04		16			Unidirectional repeater			5			
	KAM	73017868	32	04					Unidirectional repeater			3			
	16444	7200 1707	2.0	0.4					11 1 12 12 1			1			

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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	e Edit Key management Remote Reports													
Open se	erial port Clo	se serial po	rt ₌ İ	Search			Decoded Rec	quired 🝦 🕴 Fra	mes captured: 716 (716 D	isplay <mark> o</mark> Tota	meters: 52 (6 F	ound 1 Missir	ng 52 Disp	played) 🝦
Frames 1	nes Meters Setup													
Required	Manufacturer	Serial	Device	Version	Radio Manufacturer	Radio Serial	Radio Device	Radio Version	Description	Latest value	Format signature	Frame count	Decoded	Notes
-	ABB	185818	02	20					Electricity meter	1964060 Wh	50455	42	<	Office electricity meter
-	GAV	21858	02	00					EM24DINAV23 - 3 phases	224900 Wh	643	3	V	Main electricity meter
✓	ELV	63000055	1B	0A			() () ()		Room sensor	3,58 °C, 75,5 %	33489	1	V	Office climate
~	KAM	80719641	04	35			0		MultiCal 603 - Heat meter			5		Heat,North
 Image: A start of the start of	KAM	80719652						l)				0		Heat,South
√	BMT	19050653	1B	10					RFM-AMB Room sensor	7,40 °C, 64,4 %	4013	1	>	Garage climate
-	BMT	19050563	1B	10					RFM-AMB Room sensor	20,51 °C, 46,5 %	4013	2	V	Celler climate
	KAW	23521327	16	3A					KWM2210 - Cold water m			2		
	KAM	73005061	32	04					Unidirectional repeater			8		
	KAM	73005137	32	04					Unidirectional repeater			4		
	KAM	6839585	04	1A					MultiCal 601 - Heat meter			2		



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

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l	File Edit Key m	an <mark>agement R</mark> é	emote Reports									
l	i Open serial port Close serial port 📮 i Search Decoded Required 📮 i											
l	Frames Meters Setup											
l	Required Manuf	acturer Serial	Device Version	Radio Manufacturer	Radio Serial	Radio Device	Radio Versi					

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

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File	Edit Key management Rer	mote Reports						
	New session (clear data)	Ctrl+N Ctrl+O			Decoded Rec	quired ₌ Fra	mes captured: 1368 (1368	3 Displayed)
1	Save frames CSV file	Ctrl+S	Radio Manufacturer	Radio Serial	Radio Device	Radio Version	Description	Latest value
	Save as new frames CSV file				1		Electricity meter	1964060 Wh
	Export frames file	Ctrl+Shift+E					EM24DINAV23 - 3 phases	224900 Wh
1	Export readings file						Room sensor	3,58 °C, 75,5
	Load meterlist						MultiCal 603 - Heat meter	_
1	Save meterlist					1		
							RFM-AMB Room sensor	7,40 °C, 64,4
	Exit						RFM-AMB Room sensor	20,51 °C, 46,5

- "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"

Confirmation

"Save meterlist": Save a .csv file with meter marked "Required", - no metes 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"