

DeviceLab Payload Collector, - How to "Load" and "Delete" keys!

The Payload Collector App supports decrypting frames and for that use relevant keys must be loaded!

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 load keys from a Kamstrup "KEM file":

In the Payload Collector, open "Key management" and select "Load keys from KEM file".

🔇 DeviceLab Collector App v. 0.2.16.58+ac8783251f74c5ff6d690f69c20d5f4df2f016ae - Licensed to Kai

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Reception	Load keys from CSV file Load keys from IST file Manually add key	Description	Status	Decoded	Mair
	Show keys				

Locate and select the KEM file and Press "Open"

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Enter the KEM file password, press "OK" and the keys are loaded!

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How to load keys from a "CSV file":

The format of the .csv file must be as follows...



Example: SERIAL;KEY;MANUFACTURER 12345678;0123456789ABCDEF0123456789ABCDEF;LUG 12345678;0123456789ABCDEF0123456789ABCDEF;DME



In the Payload Collector, open "Key management" and select "Load keys from CSV file".

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			Load keys from IST file						
			Manually add key						
			Show keys						
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Locate and select the CSV file, press "Open" and the keys are loaded.

File Edit Key management Remote Reports		
Open serial port Close serial port 🚽 Search	Decoded Required	Frames captured: 0
Frames Meters Setup		
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∧ Name ★ Quick access ■ Desition	Date modified	Type S
Downloads	03-01-2025 12:19	CSV File
 Downloads Documents Pictures Music Videos This PC Desktop Documents Documents Documents Documents Number of the second second		
File name: key-file-test.csv	, ,	CSV encryption key file



How to load keys from a "IST file":

If you have received a ISTA key file formatted as follows...

IST-key	ys.txt 🗵
1	deviceID;Key
2	5112112345678;01-23-45-67-89-AB-CD-EF-01-23-45-67-89-AB-CD-EF

This can be loaded as a "IST file".

In the Payload Collector, open "Key management" and select "Load keys from IST file".

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		Load keys fro	om IST file						
		Manually add	d key						
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Locate and select the IST file, press "Open" and the keys are loaded.

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How to load keys "Manually":

Single keys can also be added manually...

In the Payload Collector, open "Key management" and select "Manually add key".

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File Edit	Key	management Reports			
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		Manually add key			
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Enter "Manufacture", "Serial", "Hexkey" and press "Add key" to load key!

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Find devices with loaded keys:

Devices with a loaded key is shown in the Payload Collector under "Show keys".

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	1	Id Manufacturer Serial Version Device Keyld												
	1	2	GAV	21858										
	1	3 BMT 19050653												
	4 BMT 19050563													
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Values and info for devices with loaded key are now shown in Payload Collector:

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rames Meters Setup																		
eption time	RSSI	Serial	Manufacturer	Version	Device	Description	Status	Decoded	Main value	Field count	Repeated	Encryption mode	Error flags	Parse errors	Error flags			
1.2025 13.24.00	-84	19050653	BMT	10	18	RFM-AMB Room sensor	00	✓	6,66 °C, 64,4 %	15		Mode5	0					
1.2025 13.21.00	-60	19050563	BMT	10	18	RFM-AMB Room sensor	00	✓	19,72 °C, 44,9 %	15		Mode5	0		Fields			
1.2025 13.20.25	-82	19050653	BMT	10	18	RFM-AMB Room sensor	00	✓	6,66 °C, 64,4 %	15		Mode5	0		Description	Value	Unit	SubU
1.2025 13.17.45	-60	19050563	BMT	10	1B	RFM-AMB Room sensor	00	✓	19,70 °C, 44,9 %	15		Mode5	0		External temperature	6,66	°C	0
1.2025 13.17.11	-86	19050653	BMT	10	1B	RFM-AMB Room sensor	00	<	6,66 °C, 64,4 %	15		Mode5	0		External temperature	6,63	°C	0
.2025 13.14.09	-60	19050563	BMT	10	1B	RFM-AMB Room sensor	00	✓	19,70 °C, 44,9 %	15		Mode5	0		External temperature	8,21	.с	0
1.2025 13.13.35	-82	19050653	BMT	10	1B	RFM-AMB Room sensor	00	<	6,66 °C, 64,4 %	15		Mode5	0		External temperature	6,60	°C	0
1.2025 13.10.55	-60	19050563	BMT	10	18	RFM-AMB Room sensor	00	✓	19,70 °C, 44,9 %	15		Mode5	0		External temperature	6,66	°C	0
1.2025 13.10.22	-85	19050653	BMT	10	1B	RFM-AMB Room sensor	00	✓	6,65 °C, 64,3 %	15		Mode5	0		External temperature	7,50	°C	0
1.2025 13.07.19	-60	19050563	BMT	10	1B	RFM-AMB Room sensor	00	<	19,73 °C, 45,6 %	15		Mode5	0		External temperature	9,62	°C	0
1.2025 13.06.47	-82	19050653	BMT	10	1B	RFM-AMB Room sensor	00	✓	6,65 °C, 64,3 %	15		Mode5	0		Relative humidity	64,4	%	0
															Relative humidity	64,3	%	0
															Relative humidity	66,8	%	0
															Relative humidity	64,1	%	0
															Relative humidity	64,4	%	0
															Relative humidity	65,4	%	0
															Relative humidity	69,0	%	0
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															Legend: Main Due dat	te Error field		
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															6A 97 OC 6D B9 17	AE 25 65 A4 73 F	7 E3 50	C 89 8
															5E 7A 3F 56 F0 CC	60 EC 8A 18 13 5	B E7 55	5 65 8
															55 21 83 B7 8D CC	FB 7E 1D 73 3D 5	4 C8 AE	E 6A 2
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How to Delete loaded keys:

Go to and select "Show keys"

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Select:

- a single key by clicking on it...
- several keys by clicking on them while holding the "Crtl" button down...

- a row by clicking on the first one and holding "Shift" while clicking on the last on.

Frames Mete	8	KeyListWindow	1								
Reception time	1	Delete key 🖕									
	ld	Manufacturer	Serial	Version	Device	Keyld					
	21	SET	334310								
	22	SET	334310								
	23	SET	335224								
	24	SET	335224								
	43	EFE	12151917								
	44	EFE	12151917								
	45	EFE	12152185								
	46	EFE	12152185								
	47	EFE	12152187								
	48	EFE	12152187								
	49	EFE	12152188								
	50	EFE	12152188								
	51	KAW	12830150								
	52	KAW	12830150								
	53	KAW	12830150								
	54	KAW	12830150								
	0.1	PANA	2721700E								



"Right-click" and press "Delete selected keys" or just press the "Delete key" button.

Open serial	port	Close serial	port 📮 🗄	Search			Decoded Require
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	21	SET	334310				
	22	SET	334310				
	23	SET	335224				
	24	SET	335224				
	43	EFE	12151917				
	44	EFE	12151917				
	45	EFE	12152185				
	46	EFE	12152185				
	47	EFE	12152187				
	48	EFE	12152187				
	49	EFE	12152188				
	50	EFE	12152188				
	51	KAW	12830150				
	52	KAW	12830150				
	53	Delete	selected ke	ys			
	54	KAW	12830150			7	
	81	KAM	27317005				
	82	KAM	27317005				
	83	KAM	27317402				



Confirm by pressing "OK"

Open serial	port	Close serial	port 📮 i	Search			Decoded Required $_{\pm}$ Frames captured: 0 (0 Display
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	22	SET	334310					
	23	SET	335224					
	24	SET	335224					
	43	EFE	12151917					
	44	EFE	12151917					
	45	EFE	12152185					
	46	EFE	12152185					
	47	EFE	12152187					
	48	EFE	12152187					
	49	EFE	12152188				Key deletion	\times
	50	EFE	12152188					
	51	KAW	12830150					
	52	KAW	12830150				Really delete keys with ids: 24, 43, 44, 45, 46, 47, 48, 49, 52, 53	
	53	KAW	12830150					
	54	KAW	12830150					
	81	KAM	27317005				OK Cancel	
	82	KAM	27317005					
	83	KAM	27317402					

And keys are now deleted! Note! – that deleted keys can't be restored!

Open serial port Close serial port _ Search

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		22	SET	334310				
		23	SET	335224				
		50	EFE	12152188				
		51	KAW	12830150				
		54	KAW	12830150				
		81	KAM	27317005				
		82	KAM	27317005				
		83	KAM	27317402				
		84	KAM	27317402				
		85	KAM	30655841				
		86	KAM	30655841				
		87	DME	58002344				
		88	DME	58002344				

Decoded Required _