

DeviceLab Payload Collector, - How to load keys!

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

How to load keys from a Kamstrup "KEM file":

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



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Locate and select the KEM file and Press "Open"

🌒 DeviceLab Collector App v. 0.2.16.58+ac8783251f74c5ff6d690f69c20d5f4df2f016ae - Licensed to Karsten File Edit Key management Remote Reports Open serial port Close serial port _ Search Decoded Required Frames Meters Setup Reception time RSSI Serial Manufacturer Version Device Description Status Decoded Main value Field ↓ This PC → Downloads ~ ē New folder Organize 🔻 Date modified Name 🖈 Quick access A long time ago (3) 💻 Desktop yyyymmdd_0847DownloadMeters.zip.kem 11-11-2022 08:48 🕹 Downloads yyyymmdd_1042DownloadMeters.zip.kem 22-04-2022 10:42 🛗 Documents 📝 yyyymmdd_hhmmDownloadMeters.zip.... 04-11-2021 11:54 Pictures Music Videos This PC Desktop



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

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File Edit Ke	y mana	gement	: Remote Re	eports					
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How to load keys from a "CSV file":

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

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🚽 key-fil	e-test.csv 🗵
1	SERIAL; KEY; MANUFACTURER
2	12345678;0123456789ABCDEF0123456789ABCDEF;LUG
3	12345678;0123456789ABCDEF0123456789ABCDEF;DME

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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File Edit	Key management Remote Reports				
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	Load keys from IST file				
	Manually add key				
	Show keys				
		1			

Locate and select the CSV file, press "Open" and the keys are loaded.

S DeviceLab Collector App v. 0.2.16.58+ ac8783251f74c5ff6d690f69c20d5f4df2f016ae - Licensed to Karsten

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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S Open		
\leftrightarrow \rightarrow \checkmark \uparrow \downarrow \Rightarrow This PC \Rightarrow Downloads	ٽ ~	Search Downloads
Organize 👻 New folder		
A Name ★ Quick access ■ Desiton	Date modified	Type Si
Developed	03-01-2025 12:19	CSV File
 Documents Pictures Music Videos This PC Desktop Documents Documents Music Music Videos 		
File name: key-file-test.csv	, ,	CSV encryption key file (Open C



How to load keys from a "IST file":

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

ST-ke	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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Locate and select the IST file, press "Open" and the keys are loaded.

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File Edit Key management Remote Re	ports				
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💻 This PC					
📃 Desktop					
🖆 Documents					
🕹 Downloads					
Music					
E Pictures					
🚆 Videos					
🏪 Win10_OS (C:)					
🚔 Network 🗸 <					
File name:				 Ista encryptio 	n key file (*.tx
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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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Frames N		Load keys from KEM file			
Reception		Load keys from CSV file	Description	Status	Decoded 1
		Load keys from IST file			
		Manually add key			
		Show keys			
ll '			1		

Enter "Manufacture", "Serial", "Hexkey" and press "Add key" to load key!

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File Edit Key	manager	ment	Reports .												
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	🔇 Ne	wKey	Dialog									_		×	
			Manufac	turer											
			Seria	d											
			HexKe	ey											
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Find devices with loaded keys:

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



🕙 DeviceLab Collector App v. 0.2.16.58+ac8783251f74c5ff6d690f69c20d5f4df2f016ae - Li

F	ile E	dit Key mana	geme	nt R	lemot	e	Reports				
ł	Оре	n serial port	Close	e seria	l port	-	Searc	:h			
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1	2	GAV	2185	8							
	3	BMT	1905	0653							
	4	BMT	1905	0563							

Values and info for devices with loaded key are now shown in Payload Collector:

pen serial port	Close	serial por	Search	BMT		Decoded Required	Frame	s captured:	2863 (11 Displa	yed) Total	meters: 11	3 (0 Found 0 Mis	sing 2 Displ	ayed)				
nes Meters Seti	up													· +				
ception time	RSSI	Serial	Manufacturer	Version	Device	Description	Status	Decoded	Main value	Field count	Repeated	Encryption mode	Error flags	Parse errors	Error flags			
01.2025 13.24.00	-84	19050653	BMT	10	18	RFM-AMB Room sensor	00	 Image: A start of the start of	6,66 °C, 64,4 %	15		Mode5	0					
01.2025 13.21.00	-60	19050563	BMT	10	18	RFM-AMB Room sensor	00	~	19,72 °C, 44,9 %	15		Mode5	0		Fields			
01.2025 13.20.25	-82	19050653	BMT	10	18	RFM-AMB Room sensor	00	 Image: A start of the start of	6,66 °C, 64,4 %	15		Mode5	0		Description	Value	Unit	SubU
01.2025 13.17.45	-60	19050563	BMT	10	18	RFM-AMB Room sensor	00	~	19,70 °C, 44,9 %	15		Mode5	0		External temperature	6,66	°C	0
01.2025 13.17.11	-86	19050653	BMT	10	18	RFM-AMB Room sensor	00	>	6,66 °C, 64,4 %	15		Mode5	0		External temperature	6,63	°C	0
01.2025 13.14.09	-60	19050563	BMT	10	18	RFM-AMB Room sensor	00	~	19,70 °C, 44,9 %	15		Mode5	0		External temperature	8,21	°C	0
01.2025 13.13.35	-82	19050653	BMT	10	18	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
01.2025 13.10.22	-85	19050653	BMT	10	18	RFM-AMB Room sensor	00	v	6,65 °C, 64,3 %	15		Mode5	0		External temperature	7,50	' С	0
1.2025 13.07.19	-60	19050563	BMT	10	1B	RFM-AMB Room sensor	00	\checkmark	19,73 °C, 45,6 %	15		Mode5	0		External temperature	9,62	°C	0
1.2025 13.06.47	-82	19050653	BMT	10	18	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
															Extended date and time	03-01-2025 14:49:59	1	0
															<			
															Legend: Main Due dat	e Error field		
															Hevadecimal encoded w	irelass frame		
															SE 44 84 09 53 06	05 19 10 1B 75 9	a 00 50	0 05 7
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															6A 97 OC 6D B9 17	AE 25 65 A4 73 F	7 E3 50	C 89 B
															F4 23 29 D1 F7 F0	50 EC SA 18 13 5 28 59 30 0C EF E	3 E/ 55 3 B8 68	5 65 E 8 95 C