PaperCrypt Recovery Sheet

What is this?

This is a PaperCrypt recovery sheet. It contains encrypted data, its own creation date, purpose, and a comment, as well as an identifier. This sheet is intended to help recover the original information, in case it is lost or destroyed.

Binary Data Representation

Data is written as base 16 (hexadecimal) digits, each representing a half-byte. Two half-bytes are grouped together as a byte, which are then grouped together in lines of 24 bytes, where bytes are separated by a space. Each line begins with its line number and a colon, denoting its position and the beginning of the data. Each line is then followed by its CRC-24 checksum. The last line holds the checksum of the entire block. For the checksum algorithm, the polynomial mask 0x864cfb and initial value 0xb704ce are used. Data is compressed using the gzip algorithm.

Recovering the data

Firstly, scan the QR code, or copy (i.e. type in, or use OCR on) the encrypted data into a computer. Then decrypt it, either using the PaperCrypt CLI, or manually construct the data into a binary file, and decrypt it using OpenPGP-compatible software.

PaperCrypt Version: devel
Content Serial: GDXHGF
Purpose: Example Sheet
Comment: Lowercase PDF Example
Date: Sat, 03 Aug 2024 12:05:24.805474700 CEST
Data Format: PGP
Content Length: 390
Content CRC-24: 58b031
Content CRC-32: 9986c542
Content SHA-256: ROW9hgZWuT8wmistqBK1U/rukZ1aamEMwuGnNY7Rwac=
Header CRC-32: 15ac7b20

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 1: 1f 8b 08 00 00 00 00 00 02 ff 00 6a 01 95 fe c3 2e 04 09 03 08 bb 7a 30 082d7c
 2: 6b bb e5 6f 83 e0 b8 81 f7 65 eb 6d 7c d5 b8 ea 0a 94 43 a3 5e a9 fb 40 552c7a
 3: b9 b4 b1 7f 0a fc 0c 1c c9 0d 22 02 80 ef 8c d2 c0 77 01 a6 86 39 fa 61 21cf4f
 4: d1 45 6c b1 58 3b c7 28 de ae 3e cd 42 a8 4a a3 49 6e 02 75 36 24 f0 c7 913f2a
 5: 8e c8 fe 9c db bc 01 77 58 1c a2 34 24 bd a0 41 68 12 ea 93 5b 44 7b ac 54db33
 6: 7e 4d 89 ea a2 39 9c 61 12 a5 b4 42 65 9d 83 05 be 2e 1a a8 01 d3 58 fd 18344a
 7: 84 42 c2 d5 7c 1a 52 62 0d ac c4 07 d2 f4 26 27 37 09 0f 96 89 3e b3 b6 9950aa
 8: a6 f0 10 b4 26 6c c1 03 a6 28 7b db db 1c a1 c6 0e cf 17 7e 79 a5 69 74 f29500
 9: d1 2c fc eb 30 7d 2a 93 01 49 9b bf 25 5f 0c 2e 65 a1 ad fb 34 b3 c6 0c cdd503
10: d9 29 88 2e 82 8a 13 a6 ed ec 23 2d 24 30 16 82 b5 8c c8 6f be 53 81 02 39a3f1
11: 5a 1d 53 b9 92 cf 6a 36 67 ca 92 72 41 be 42 78 7d d9 b8 3c 36 6b f1 c6 8993af
12: 83 8c 25 39 a7 28 55 a4 71 50 ca ac 14 dd 2a 84 07 3d cd 5d 0d 34 74 00 257140
13: 6b 7f bb 66 4a 67 82 45 58 90 a0 2c 13 bb 10 f7 b4 6e aa 68 20 79 c8 81 bc0f48
14: 70 09 71 f4 2d 84 c3 d4 07 e0 08 74 67 44 e7 de ac 5c 9e 25 51 39 9b 53 66180c
15: 20 78 b2 8b a1 dc 78 9d dc 60 cd b3 53 33 ed ff a2 90 7c 1e 0a 6f bb 68 92efe2
16: 4b c5 cc 79 87 44 aa 9a 06 33 f3 72 38 ad 73 88 a8 01 00 00 ff ff 03 42 4017df
17: b3 dc 6a 01 00 00 be3e81
18: 58b031
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