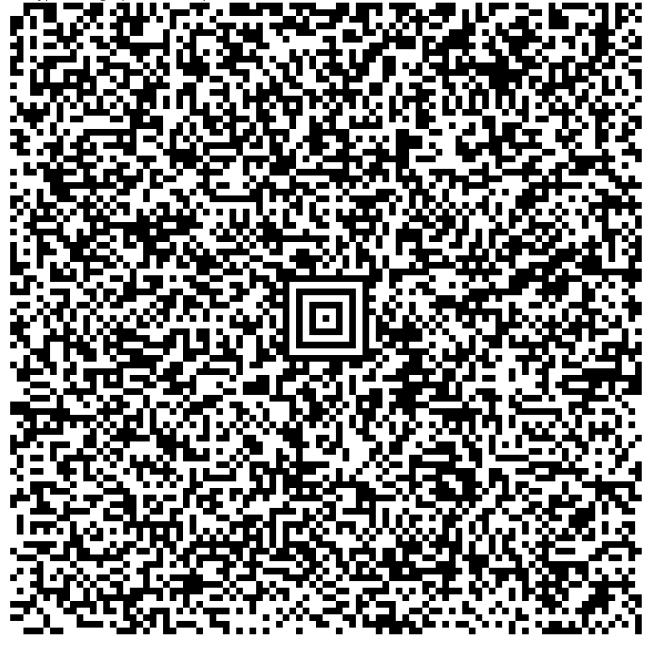# PaperCrypt Recovery Sheet

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 2D 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: C3KLVK
Purpose: Example Sheet
Comment: Regular PDF Example
Date: Tue, 06 Aug 2024 11:12:28.717365000 +0200
Data Format: PGP
Content Length: 390
Content CRC-24: fded1d
Content CRC-32: 1b4267d9
Content SHA-256: kp0CF7CNGsZhZ6EfrSg5N4VbNWZm58M1ZrUEKnlgQDU=
Header CRC-32: 2b4f4d0d

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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 55 3E F8 22B917
 2: 3C AC AB AF 31 E0 AF 2E 34 63 5D 2C 4F 49 CC B6 97 BF 22 39 E0 05 4A F9 7712BA
 3: 67 64 03 C1 4F DA 8C 95 CB 17 97 35 AA F8 6D D2 C0 77 01 50 F0 1B 61 A5 7E9EC8
 4: 4A E8 02 8B 21 A8 1E FD BA 8D B3 94 1C 2B 62 0B 35 FF 8F 0D 15 B5 AE BA F88B73
 5: 3C 0F D1 71 1B 40 EA F0 41 7E F0 24 F5 2C 0E F1 71 AC EF F3 35 86 83 E2 8D661E
 6: 05 D9 22 F7 8D 38 9E FB 7A 15 9A D5 A1 D3 7A A6 F9 16 69 26 51 FC 61 F6 45DA1A
 7: A9 32 D3 55 6F 33 72 15 0C 91 47 E2 D6 67 9A D7 5C 27 9B 23 2A 63 5A 04 73772F
 8: F7 59 8F 2F E5 97 F9 C6 38 01 34 56 CA 50 49 07 DB 91 14 6B 12 21 E6 64 511BA4
 9: 5A 3B 01 DA 57 EA 51 6C F9 B0 06 A8 5C DD 2D EC 0D D8 33 C7 B5 B3 0E 9C C647C5
10: 2F 51 91 E4 BD A9 5D 5C A4 52 F9 EE 66 7C 48 22 76 56 90 45 B3 04 AA B0 D83B86
11: AB FB 8B E4 D1 0F 31 CB 1B B7 4E 4C 59 FA 68 D2 38 04 10 EE F7 51 05 C4 5ED3D1
12: 6F 68 02 BA B9 CD 37 39 02 2E 88 EF 10 30 F9 95 5D 77 F9 A4 40 39 81 0F F0D811
13: 0A 15 B2 B5 F2 A5 8F 9E D5 78 9E 9B BC C3 52 6D AA F2 7F 53 A3 A9 C8 F2 215F68
14: B7 33 F4 D5 61 CD 85 9A 5E 81 7F EB 48 75 E3 E4 DA 96 DA 19 CA 15 BB 35 1544BE
15: 71 DF BC 3E 70 6E 6F 40 50 41 2D 3E 0B 6E 1E 11 A6 33 2A 80 84 60 04 6A D44E5A
16: D2 CA 3A 67 4C C2 7B 7A B8 05 47 7B 4C D5 AD 10 B2 01 00 00 FF FF A3 CC FC294D
17: CB EC 6A 01 00 00 5BF5BE
18: FDED1D
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