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: FNAHPM
Purpose: Example Sheet
Comment: Regular PDF Example
Date: Sun, 04 Aug 2024 11:40:25.096482900 CEST
Data Format: PGP
Content Length: 390
Content CRC-24: f99a34
Content CRC-32: e33581a8
Content SHA-256: ZCXN0l2wmN/u2hUxkc5fpfbjWlW/gjHDa3JDaOEM7Fs=
Header CRC-32: 3aa33cfd

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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 9A 0D 91 F27288
 2: F9 FA 56 37 0B E0 C3 48 11 B4 32 91 63 A7 EF F5 0A 04 45 83 F5 9B 4D 78 0A8EF2
 3: 8C D1 F9 59 7E 48 2D 13 8E 82 82 45 71 0B 7C D2 C0 77 01 7E 96 95 D2 84 647A81
 4: EE CB 9B 4A DD FA DC D5 12 31 2F CE 76 E0 CC B2 A0 6D 48 7A D9 CD FA B8 DCE18A
 5: 92 2D EE CB 08 96 55 F9 4C 62 B1 D3 0A F4 F2 88 CE 6C 35 18 0D 56 80 C1 FA06ED
 6: 45 7B FC 6D 4B 3E 57 AA BE DE 59 43 F5 C9 A3 44 9B F8 2F D0 43 FF 6B A2 F7F64C
 7: 7D 41 C7 22 A7 30 74 4F FC BD 3E 47 47 1A 40 3F 8F 1D 4F 24 7A B8 B1 8C 3CF62D
 8: 00 70 D6 D0 13 DF BD EF 24 22 33 50 9D 5D 7E D2 1F 09 D4 F3 A7 3D 08 FC 85298D
 9: 2B D0 A1 D7 AF BD 8E A0 DE BE 67 F3 23 C3 0E 61 ED 85 B4 8B 3C 81 99 41 09F1E1
10: 93 0D C9 19 A7 10 B8 DE EE 77 9A 21 5A 01 45 92 8E 30 C3 60 03 CE E1 2B A1DE89
11: 71 8D CC B6 E2 B7 F6 0C 57 44 54 9F 32 80 7C 26 7A 8C 96 CE 60 14 D2 2C A81E69
12: 2F 3C 0B 10 08 BF F4 09 A5 86 50 56 38 4D 7E FB AB B0 36 5C 1B 88 E2 84 4B8B1A
13: 91 F4 76 03 F7 B5 A3 B7 72 95 02 99 FD 14 15 0D 5B A8 99 CD 79 48 FC C0 8FD664
14: 81 A7 49 58 21 D3 3B A0 37 BF CC 93 5A 5A 29 B0 97 F5 37 78 D7 3A 72 D6 DA91B2
15: CF EE 5D 1A 50 97 E0 1A 88 0B F0 EE 77 D1 26 56 B7 ED 14 D8 7F 2C E5 3A 4BB26A
16: 05 EA 0C 88 1E 8B 10 99 A7 13 31 1C 1B AC 39 09 7F 01 00 00 FF FF E7 D4 DE5D89
17: CB 19 6A 01 00 00 E270BE
18: F99A34
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