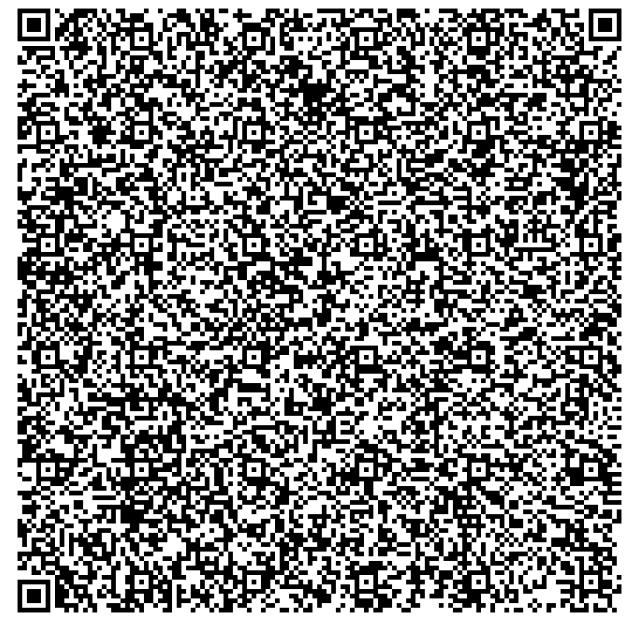# PaperCrypt Recovery Sheet

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.

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: A6T6AS
Purpose: Example Sheet
Comment: Lowercase PDF Example
Date: Fri, 02 Aug 2024 13:36:07.325727900 CEST
Data Format: PGP
Content Length: 390
Content CRC-24: 2ecd7d
Content CRC-32: 82bcc8ee
Content SHA-256: A+5VqnCrYZlo5YurqwSY3+tnmoHcCdeL5Jv5Fb8W03c=
Header CRC-32: 2e4ef80f

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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 77 82 db 32a37b
 2: 4c ec b4 fb ec e0 1f f1 c6 ec 82 2a 71 7d 72 a3 48 b4 35 93 b0 5b ed 41 816046
 3: c7 79 15 58 0a 8e 32 f6 50 69 bf cf 08 c8 97 d2 c0 77 01 3b 0b 3c 6c 5e 3e3606
 4: c4 22 a3 78 e8 86 57 70 a9 69 8a 58 02 39 81 07 ec cb 84 ed 71 80 4e 7b c38a3a
 5: 4d 22 05 3e 14 a2 88 07 23 c0 87 44 cf 25 7d e6 b8 a0 b7 28 f5 46 65 c0 7d4a0f
 6: ce 2a a2 2b 30 35 38 52 ec 78 bd 9e 8a f5 15 37 d7 b5 2c 9a 7c 16 6b df 36ec83
 7: c9 49 b8 a1 08 c0 fa 52 3a 10 2f e3 f9 60 3a bd 05 86 05 bc ff 93 a7 82 e79107
 8: 4e ee 15 20 a6 00 fa ab ed 00 ce 96 0a 88 4f 3b a1 1f a8 e0 33 bc 4b 80 aff099
 9: 99 96 49 32 d8 13 e1 0d 5f 1a 8d 40 2e 99 47 7b 28 8a 05 8a f6 f0 38 0e 0affed
10: 7b 6d 7e 59 6d 0c bb 6d 3a 5a 3e 3d 71 2c 5a 23 29 41 1a 61 5f 97 aa e6 ea2a5a
11: 12 a8 e3 b0 0d f1 ae 15 6f b3 97 7d df f5 58 97 63 99 32 9c bd ba ae 83 2e32f4
12: 37 f9 08 16 18 f9 da b2 8f 36 d6 4e ac 0c 51 0d 43 66 87 c4 31 0e 61 5e 78d6ab
13: f5 03 2a 3b d3 ec fe 37 73 de c6 f3 b0 11 f3 66 a0 eb 83 2f 8c 70 bb a3 db332d
14: 86 af 56 a6 2f af 48 9b 4f 52 3f 6e 89 d8 ba 5d 29 13 63 8f 79 5c ad 02 a250c6
15: 82 55 61 94 1e 3c db 98 ce 39 b1 3e 5e f7 e6 80 b2 24 d1 c4 c0 34 df 02 af25e8
16: 85 a7 63 c7 47 4a 1d 9b d7 a3 ba c9 65 5a 92 f4 b8 01 00 00 ff ff 75 4c 54dde1
17: a2 7f 6a 01 00 00 8964d0
18: 2ecd7d
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