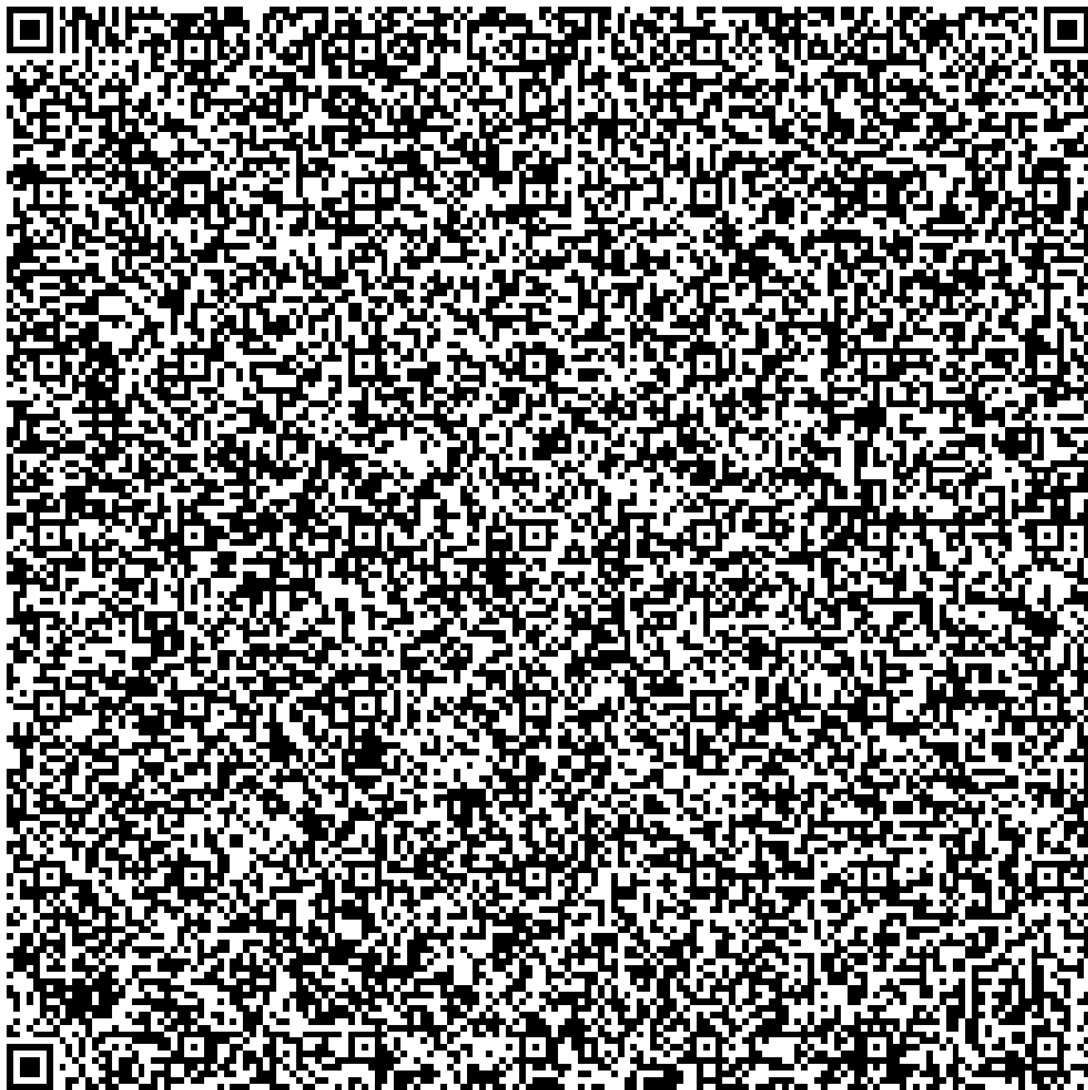# PaperCrypt Recovery Sheet

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 22 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 it in, or use OCR) 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: v1.0.0-beta0-23-gdced528-dirty
Content Serial: KTLPH2
Purpose: Example Sheet
Comment: Lowercase PDF Example
Date: Thu, 17 Aug 2023 17:08:40.675129100 CEST
Serialization Type: papercrypt/base16+crc
Content Length: 452
Content CRC-24: 471e49
Content CRC-32: d5e90ff8
Content SHA-256: eD4cS3h2+MYwsF1cLUCDFsaN7kRxpSwEO/Zvh15wMfY=
Header CRC-32: 56e2e5f7

```
 1: c3 2e 04 09 03 08 fa f0 95 ee 4c 12 d4 19 e0 cd 61 e5 51 8e 9a e6 d1600f
 2: e1 52 fd 48 e5 c5 d6 58 f7 b4 57 66 42 67 92 63 d3 3a 1f 6d 5d ef bfe950
 3: 4b 3f 4f 7f d2 c0 d1 01 51 d7 91 b2 8f a0 b6 5d 9c 4f 69 5f 8e ef 2d3c2e
 4: 8e ab 81 d8 e1 3e f0 d9 5f 6e e7 b1 e3 be d4 25 30 4f 9f af 81 c8 b36949
 5: 45 d4 01 3b 99 b4 bb cd 99 42 40 a8 13 8d b6 3b 65 a7 84 db b6 b0 80f025
 6: 37 ed 92 49 22 06 5c d5 6d fb c1 ea 86 b2 10 28 ff ce ed f4 93 8b 8c8b76
 7: b9 7b 17 b7 b7 f6 66 f9 5f f9 aa 3d 2b 09 d3 d4 db ec ef 3d 52 8d a509e0
 8: 19 6b b3 2d 0a bd de 57 1b 21 0f 20 c1 87 3b 72 be 54 db 33 14 f1 8e9cc7
 9: ec a3 0d 58 66 67 f0 47 95 46 d1 48 bb af 06 8c c7 f1 74 32 82 5a 012b93
10: 8d 72 5e 5e c7 fc 23 d0 41 67 27 58 95 fe 10 c2 a1 10 ce 29 a0 a7 2c7dcf
11: be b1 b3 be de c4 54 5b 19 b3 3e 36 7a cb c5 df ec 58 5a b0 ba 1e 9e2a65
12: 91 b1 7b b6 fa 18 81 7f 63 94 48 cc 44 ab 6c 8f 15 f5 f1 21 1f ab 473a71
13: 53 1b 8b f3 c1 1d 57 94 06 39 e8 f0 92 ab 6b 87 3d dc c2 8a 27 f8 9b6768
14: 47 8e 13 d9 d9 03 ff 6d 7f 98 70 4d a0 8a 1c 6a 69 a3 24 8a 70 a0 0aa6df
15: fb ef c1 70 11 d4 63 59 7c db 2c ff 27 20 e2 16 62 3f 65 1f a0 2d 9fc15e
16: 3a 89 25 2c 72 2f 8f 8b 7a a2 9a a6 b8 6b a6 90 49 91 d0 b4 9e 14 163448
17: 1f cc f1 88 39 d3 2d e2 9b c6 01 01 6f 8a 64 38 2a d3 49 9f 89 c3 0d9f44
18: 64 08 3e f8 fa 2a ed 9b c3 e5 5e cb be 04 4d da a9 02 53 cf a9 cb b4136c
19: 2f 8f 52 59 f5 bb 15 66 7e ca 2a ba 32 6a f9 da 44 91 7d fb cd 52 acc9f6
20: 11 0e a9 fc 33 81 38 60 3f 8c 7b 66 7f f5 c9 67 e9 8f 37 88 67 71 964708
21: 5c 38 d8 07 ea d0 d6 52 e2 92 2d ce 1b3048
22: 471e49
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