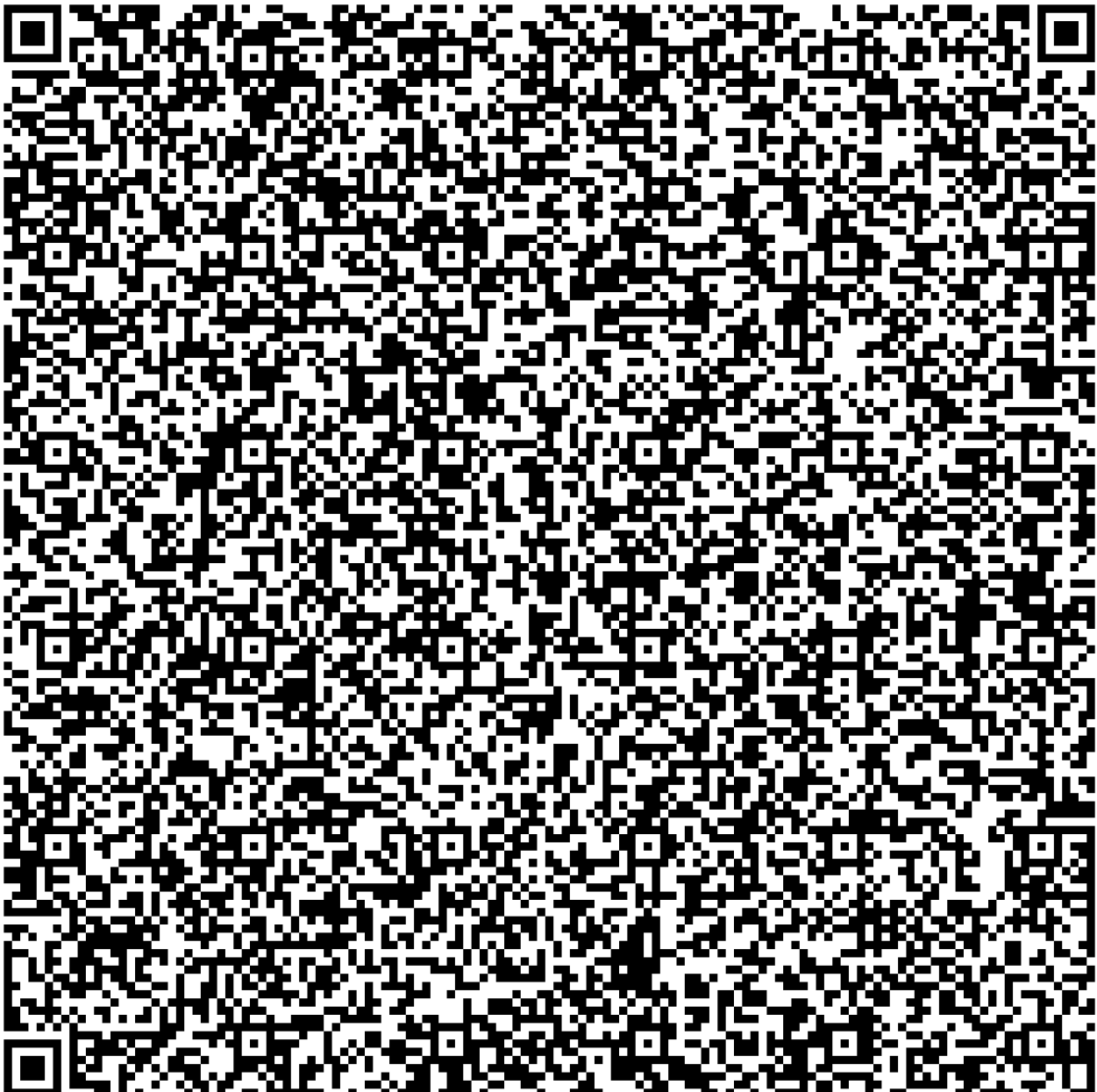# PaperCrypt Recovery Sheet

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-beta0-28-gb7c394f-dirty
Content Serial: AXUP6I
Purpose: Example Sheet
Comment: Regular PDF Example
Date: Mon, 04 Sep 2023 19:22:49.780419100 CEST
Serialization Type: papercrypt/base16+crc
Content Length: 533
Content CRC-24: bd9628
Content CRC-32: 34400436
Content SHA-256: qlQW9ogjw0bin6TH4TVpHxcquLh1FNnLsiryVGNdO2Y=
Header CRC-32: 263b9ec0

```
 1: C3 2E 04 09 03 08 28 C3 13 47 6A C3 BB AD E0 47 4E 3F 5C EA 47 8D 1F286D
 2: 0F 28 94 2B 57 17 DC A9 B2 CB F4 B7 83 6D 81 71 F0 B7 57 98 D0 21 8D19C2
 3: 16 D2 49 A8 D2 C1 22 01 31 BF 7D 36 E7 A4 B9 60 B5 6B E2 CF B5 D7 575FAE
 4: 56 44 58 35 7C B3 07 61 44 F3 60 CC A8 CB AD DD 9B D6 8D A1 37 5A 29E6CF
 5: 3E 90 47 A6 F4 32 76 03 15 6A B7 F0 E2 BD 8B C6 34 BA 4F D2 0E 65 42E388
 6: FD F8 1D 0E C6 3E 14 9A 47 89 01 C9 F5 3E A4 5B D5 62 0C E8 63 23 CB0608
 7: 39 8C 86 57 3B 54 28 86 AB 92 1D 64 43 C7 13 47 0B E6 70 2D B9 8A CE50B7
 8: EC 46 32 76 2B 84 2C 57 2D FD 8F 7D 6E DB D1 A2 27 45 7D 9C 56 FD 239CF8
 9: FB 45 30 64 9A 14 C7 B5 43 7B 93 BD 95 E4 69 3D BD E6 7F A1 7C 71 D523CD
10: FA 08 09 AC 00 6B 84 3F A7 C4 6B 35 31 D1 8D BB 19 42 09 8C E3 64 11EE0C
11: 08 BD EA 39 FE 88 F7 2C 97 AA AF 01 21 80 78 D8 1E F7 34 DB 2B BB FE5CF8
12: 79 B1 28 96 F8 1B 6D 31 6F 8F 9B 21 39 48 E0 88 7A C7 E7 B6 4B B1 D53D48
13: F4 74 5F 13 EC 13 27 E6 A1 CC 9C 87 C1 23 16 32 FA C0 16 9A 8F 8E EFE012
14: C1 58 82 94 31 0B C5 DA EB 9E 9D 6F BC DA CE 15 06 FF 14 2E 09 07 4F5EEA
15: 26 D0 C4 53 CD F9 D5 92 F7 DC E3 3C 7F 39 95 03 01 44 52 FB 8C B9 23E310
16: D7 14 6A DE 1C 6A F8 63 B0 4C C6 2B 56 3B 27 09 48 A6 BE 5F CE 92 8BDA36
17: 5D B5 AA CE 7F BE 66 7F 3D 1B 91 57 BC D5 3A 9D 55 69 A0 EB 26 C4 60529F
18: 9D 40 FE 37 21 34 80 10 B6 A8 2E 92 07 60 E7 A9 44 A8 27 D6 B6 A0 80D767
19: 02 57 EB 3C BF AA 78 70 98 C3 E7 47 19 31 34 0A BB E1 77 43 52 A4 7FC51D
20: 66 B0 78 80 4E 79 3F B1 6C B5 2B 96 9A 72 E1 8A 98 61 CF CF 7E 33 C59652
21: C1 B8 1F 64 13 90 8F 4B 40 21 6A 55 99 6D 05 1D 18 CE 71 A9 25 6A 386922
22: 3B 20 9E 0E 56 47 F1 DE F8 90 B6 84 FF D1 FE E2 68 8C DA AD 7E 86 443634
23: E2 D6 B7 04 44 88 C9 58 CC E5 14 7A F0 73 B7 05 2A D4 85 41 D9 7B EC246F
24: 3C 1D C8 CD E1 D3 A2 5F 62 61 AC DD A9 61 6C A9 35 92 3E 5B 09 E7 8EC96A
25: 7C 38 65 D1 66 F896E0
26: BD9628
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