

# 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, 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: NPTTB2
# Purpose: Example Sheet
# Comment: PDF without QR Code Example
# Date: Mon, 04 Sep 2023 19:22:49.914506900 CEST
# Serialization Type: papercrypt/base16+crc
# Content Length: 533
# Content CRC-24: cd681e
# Content CRC-32: be7bb28f
# Content SHA-256: Ti4NbrQXhkcLUTbZkGoQrpJocELEWhRD372kxV4xbS4=
# Header CRC-32: 4eb69d6b
```

```
1: C3 2E 04 09 03 08 2B 43 53 0A 9E 6A 6D 94 E0 52 E3 BC B5 A1 99 5B 875D7B
2: BB 3B B6 89 D3 C1 21 3A EF 86 5C 52 02 B4 0A 4B ED 34 C0 3F B3 5E 5E69CD
3: B9 A1 33 6E D2 C1 22 01 4E 5F 4B 4F AF ED B0 73 D9 3C 75 62 D2 F2 BA855F
4: C3 DE 75 54 9F 89 03 DF 79 43 2C 7A 0C 4F C7 7A 61 14 AA A2 08 68 8F9215
5: 2D 92 12 70 DE 71 24 8F 5D AE B4 44 78 5C AE 67 81 2D 83 47 69 59 07D434
6: E1 D8 16 BA 71 9A C0 A7 4F D2 F4 4F 24 88 52 12 C1 CE 80 95 85 FC F34E51
7: 1B 63 14 A8 F3 C1 77 5D 28 B2 D2 DD FC FD 1C B5 76 E8 DF 61 10 E6 BBE653
8: 84 57 4A 4A C9 1A EC FD 87 96 DC FF 34 9B 86 23 F0 3F B3 77 06 A9 21A060
9: 1B 92 FD 3A 60 15 29 34 A7 51 1C 4F 91 31 6B A4 73 6D 3C 72 85 66 1FA48B
10: 8D 5E 76 5E 16 5C A1 9D D3 F2 70 17 2B BA 81 FE 1A 57 02 19 4B 63 AD39CA
11: 12 D4 5A 47 65 8D 0B 22 4E 6B F7 E6 86 1F AE 16 3F 72 51 1F 10 51 D72CA7
12: CF 08 53 C5 A5 B3 5E F9 5F B7 FC 5C 42 94 1A B4 96 40 65 86 F5 3E 7A995B
13: 2A 1C FA 7A 06 B8 0B 62 D6 C6 C8 3B AA C2 C1 B1 54 81 D5 A8 97 66 2E0E75
14: E6 B9 6A 82 88 01 B9 A7 5A 10 4D 30 FA 52 3D E7 B3 8C 78 79 2B 7C A7F97F
15: 71 25 63 C2 98 EB 8A A2 FE A3 7B 4B 5C AC D5 64 BC 35 E2 4C 39 20 DC7901
16: A1 DD 6A 41 69 41 0B CD D4 9D 28 B2 D2 DB EE 7B 7E BB 73 18 47 F9 837114
17: 28 48 BE 1D 8E 0D 11 DD B6 1D B3 71 E7 88 65 6C 27 DD B3 D0 3D 5C 85FDF0
18: 38 7F C8 BF 34 27 80 9A 27 F3 CE 25 2F 8A DF 90 78 83 8F B5 D3 28 653E24
19: 86 BE C3 41 46 9D 91 E8 4C 4D 7E AC 5C 69 79 FB 22 F2 41 F1 72 01 6D8EDF
20: 28 1A D2 B1 14 45 F8 D7 9F 62 93 C1 85 D8 E7 A0 B6 BE D0 0A 3B 4F AB4B70
21: CC F7 6A D3 62 8D F6 F0 A2 FB 67 42 64 14 96 68 69 DB D9 EE 29 C0 24D90B
```

22: AC 25 C1 C3 5A 22 66 58 1A 2D 9B FE EC 1A 69 10 FA B5 E0 CB AC A0 EB92F8  
23: 6F 52 22 DC 2A 2B 51 5C 9F 49 03 A4 F3 1C 72 E2 D8 FD B1 09 B8 9A C0B888  
24: 7E 43 41 15 B9 E6 D5 8C 6E D3 B4 BA 74 3E 05 E1 97 42 D1 19 3B C7 576F0B  
25: 53 B3 D7 11 57 DC0B42  
26: CD681E

