

# 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/v1.0.0-beta0-17-gala3bfc-dirty
# Content Serial: PH3ZG7
# Purpose:
# Comment:
# Date: Wed, 16 Aug 2023 18:15:43.767713900 CEST
# Content Length: 366
# Content CRC-24: 425da3
# Content CRC-32: d64e5e25
# Content SHA-256: XrfrGWcp8SRLR+LiRZ2cD9ED4aOANwKIsX0I5Vq+cAo=
# Header CRC-32: c1f3e829
```

```
1: C3 2E 04 09 03 08 61 E9 E9 6D D4 40 CE 33 E0 D8 A8 86 42 55 8F 86 1AC726
2: F4 6C 47 48 C1 D6 9A 36 A3 6C F9 66 60 66 E9 C4 EC 65 9C 73 F9 62 82DB66
3: 7A EF 76 75 D2 C0 7B 01 81 03 DC 07 31 B1 7C 3E 71 B3 DB B8 B5 29 F5CB5C
4: D4 C9 2F DB 26 B4 4E 16 27 71 D4 EE 4D 43 5F D4 8F 6C 41 90 24 90 0CAF13
5: 3C 42 DF A1 CA D2 5B 06 FA 5D B9 93 56 10 68 49 54 0D 73 BB 34 09 25DE10
6: 60 D6 4E 1D B5 C0 D4 59 1A A4 48 67 27 78 DB 4D 03 69 AA 58 0D 72 92B0BF
7: 10 00 C2 23 64 35 1F 99 98 2F CE B9 9A 92 FD 74 45 80 2E 51 DA 51 59E272
8: 0E 05 5A EF A8 EC 3F F8 D5 6E B4 1C 25 34 65 68 FA 10 AE 59 F4 C7 482960
9: 24 F4 5D 2C 87 D7 78 00 E8 64 BF ED E1 ED C4 AE AE 3A CA D5 18 4E C791F1
10: 42 55 C4 7B C1 8D BD 1A 5E 89 6F 0D 6D 80 6B F3 67 47 3D 3D 23 73 36392D
11: 46 58 FC 5D 4D B6 F2 3B 1D 58 C1 B3 83 B4 83 95 FF 5C EB 27 3A CA 58D5D0
12: 4F 0B 0C 88 70 23 7A 01 56 2A 29 A5 CA A3 63 66 74 41 EE AF 3C 79 262766
13: 74 C9 6B AB 1E E3 D1 AB 82 34 92 1F 44 8A 4A 06 39 2C B1 27 B3 DF 559DC2
14: D5 9F EF 6B 80 7A 6F 78 D1 5B FB D2 37 E7 92 92 64 AB 9A 4D 2A 4D 0ED28B
15: 62 93 86 D7 A0 AD 8A 7D C8 AE 33 10 59 21 40 4D 4B F5 75 54 CB 5B 028BD5
16: 8B 55 34 9B 63 4B B2 90 01 24 3C 6E 7E EC 29 AB F4 49 13 FE 6F 21 74BEA1
17: 36 AC 4A 92 5A 82 CC 95 CE BB 2B 5F D7 4D C3DBEC
18: 425DA3
```