

# 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-beta0-20-g92709bd-dirty
# Content Serial: H5CKTV
# Purpose: Example Sheet
# Comment: PDF without QR Code Example
# Date: Wed, 16 Aug 2023 20:29:41.874497500 CEST
# Serialization Type: papercrypt/base16+crc
# Content Length: 366
# Content CRC-24: 3e25f9
# Content CRC-32: de68f79d
# Content SHA-256: qbclURaS7nU2Tj/u74NlVVsiE649VGbhTDcsxc2xf6s=
# Header CRC-32: 6078c77c
```

```
1: C3 2E 04 09 03 08 A6 63 82 31 3C 85 D3 E4 E0 5F A9 39 01 5B 39 5C 371B2C
2: 14 C9 24 C2 6A 1C 57 53 BE 1D 15 59 E5 48 A3 BC 25 45 8C BF 0A AA 57DC96
3: 20 06 8A D1 D2 C0 7B 01 FA 93 54 01 70 A2 7D 4B C8 1F 53 2B 08 4F C41433
4: BB 94 88 9E 56 3C 20 87 0A F9 EC 64 3E 7E EF 1D 2C 57 70 18 7B D4 9E0477
5: 99 86 32 B3 8D B9 C0 A2 2E 4E 15 90 8C 40 BB B8 D7 26 22 AA E8 8E 1859E5
6: A7 F1 9F 81 78 86 E3 2A 69 EE DB DD 8F 85 78 FE B6 D2 F6 E7 40 1D 40C771
7: E6 D2 A9 74 EF D7 21 A0 66 DC 83 8A 6B 5D 88 F9 03 F9 42 4E 7D 61 AEC60D
8: 9C E5 F4 BA E7 86 F0 EB 90 31 C5 D6 DC A3 A8 C7 4C EC 6C B3 96 18 FED4EF
9: DD A7 1E 6D 35 E8 68 BA FB 9F EE BA 9B C2 78 E5 60 F4 4C 6B 5B 4A F6C1A8
10: 24 00 F2 71 A7 E9 7F 32 5D 7F 3B FE C5 C7 EB B3 64 42 4F F1 1B AA 0B2069
11: E0 5D DF 61 C8 67 8A E5 0B EE FD B0 01 95 20 C4 FD EF FF B9 FF B0 76C28E
12: 13 49 36 CA 9B 32 79 AE 8B 28 FC C2 4A 7F 65 37 CC C3 87 B9 0F F5 AF2B9D
13: 6C 34 7D B1 1E E1 21 97 39 1D 6F 66 1D F2 16 02 3F A1 7F CE 5A D1 664B88
14: CF 70 B4 FA 95 36 91 69 C5 2E 1B E7 A5 C6 60 65 7D 05 8E A7 B7 73 519DFE
15: EC 2A 59 4A 5B 49 8E 5D C9 81 F8 0C A6 34 EA 17 B0 54 83 6B BF FE 34CC88
16: 6A 7F 5A 6C 8B D1 2D 0B 3C EC 29 2B CD 35 5D 6C 40 3B 94 EE CA 48 17EE76
17: 3C 2C 63 1D 5E FA 79 E0 CF C2 36 2A 3B 82 4C64DA
18: 3E25F9
```