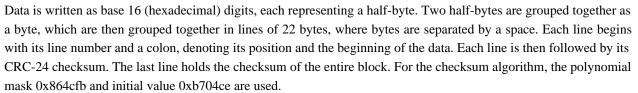# PaperCrypt Recovery Sheet

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-beta1-8-g8b9a564-dirty
# Content Serial: CUGLLJ
# Purpose: Example Sheet
# Comment: PDF without QR Code Example
# Date: Mon, 04 Sep 2023 20:59:00.061982400 CEST
# Content Length: 533
# Content CRC-24: dbba5e
# Content CRC-32: 7934203b
# Content SHA-256: lcUD7jf0g+SoSlafrVVFUefTbXltArJKRrSedxQ/oA4=
# Header CRC-32: 94fbd609
```

```
 1: C3 2E 04 09 03 08 B5 E9 31 F5 DA 86 58 19 E0 C4 54 38 04 14 B4 25 21E8CB
 2: 34 62 F6 97 1D B5 7A 52 28 71 9C D4 40 4D 45 4A E1 22 2D 36 78 D6 A65555
 3: 14 87 FF 46 D2 C1 22 01 57 3A 2C 81 9B 7D FD E8 F7 BF D8 2C BF 68 55CC5C
 4: 5C AA 44 0B 8E AD DA 98 64 ED A7 5F A5 5D A5 F7 0B E1 88 8C AA 85 80EE24
 5: D0 03 0C 4B 56 86 CC 91 CA C2 D7 81 EA F9 D7 EB 9E 9F A3 FD 15 22 A9658B
 6: BB 13 38 FD 92 B5 D3 C3 F8 D1 5D FC 2E 09 1A 98 BD 07 03 CE A2 9B CE9D27
 7: 99 E0 B5 AA 81 B2 3C 20 62 D4 03 46 E6 70 95 D2 0D A2 2E 2B A8 02 6B1787
 8: 93 B5 91 59 C6 DC 35 76 7F 80 B7 5D 5F D3 E4 E8 D8 9C 8D D9 24 13 C7B90F
 9: B1 6D 14 58 05 8F 40 0A 9A 7B 15 4E 9C 4B A2 61 2B 48 10 5D CD C0 B39266
10: 1C 0A 7C E2 BF D3 E0 35 0C 3D 05 CD BA FE 6E 67 E1 55 D3 77 61 C2 F82E64
11: 1A EC 30 CD 39 E2 39 65 24 18 C3 30 29 12 E0 CB 57 29 F2 34 3C C4 724EA1
12: 0F E0 CB 1C 04 54 E4 62 A2 D6 16 4C DB E4 C0 5D ED A5 2A 92 A6 FB 6B7377
13: 39 46 94 EB 1F 80 CC 52 84 74 58 61 11 E5 D9 92 AC 8A 62 31 C6 42 4A45F8
14: C7 75 0F 60 40 C6 0C 44 68 10 20 6E EE 8F 21 62 D8 23 D2 92 D6 A3 F2E974
15: 8F 33 F1 F6 76 FF 4F E4 C0 96 10 5C AB FD 90 4C 07 D7 37 32 F1 23 D5BC94
16: 55 59 AB 52 E5 5F 3D F0 B7 7F FA 00 63 A4 44 B2 4C F0 30 BD 5D B9 E38A2C
17: B6 BF 2C 32 64 B8 40 96 BD 92 E5 05 35 EC 5F 24 88 E9 BF 02 1F C0 C2B2C0
18: 1F C5 C1 B1 44 48 E9 C1 56 5E 57 85 DC 51 C4 2E 0C 86 BE 5C 38 73 3F5626
19: 28 AB 52 3D 1D 8C FD 18 C3 CA 6A 0F F3 53 71 0C 16 15 97 A1 FF 15 6C7E09
20: 7A 4E 5F 31 4C 41 33 70 7D 21 DE 73 90 70 00 0F 6E 87 94 80 F2 1F DC7A80
21: 44 A9 9E 0C D4 A8 AB 84 40 FA E4 19 B2 29 AF 5D 54 3D 06 34 D0 BF 2DFA88
22: FA 5C C5 12 F9 F4 81 BD 19 22 0B D2 F3 A2 E8 2C AF 3F F1 96 24 51 B9E020
```

23: DC 85 E8 BB 53 22 E4 1F 3B EB E7 75 F3 F2 38 E0 DA EB 70 0D A0 10 E7610B
24: F3 72 16 B3 63 0F 5D E3 22 78 42 EF 87 9C 8C AF 46 6E 3E D5 3E 69 C6FCCE
25: A7 04 12 98 29 82BF45
26: DBBA5E