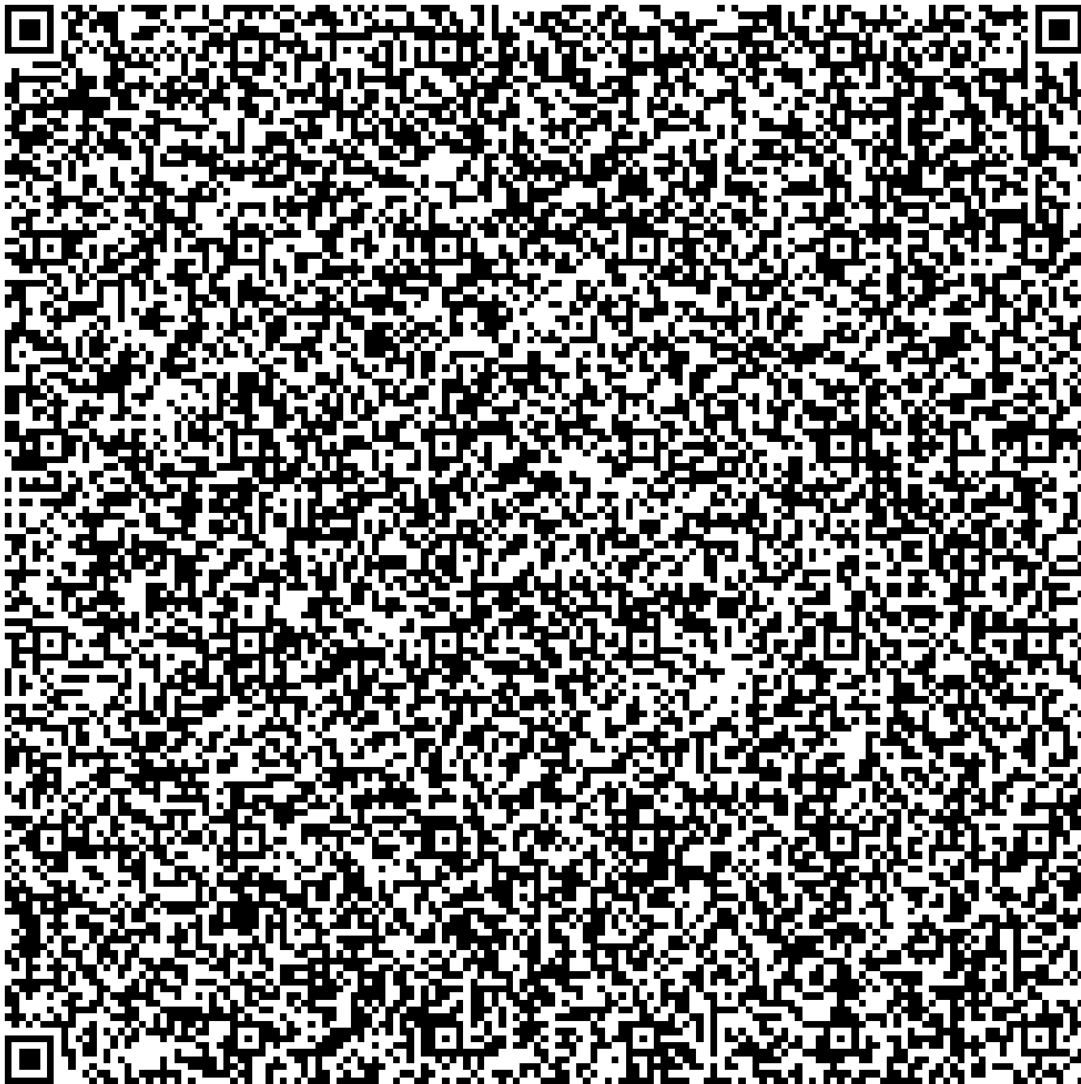# PaperCrypt Recovery Sheet

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. 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.

Recovering the data

1. Scan the QR code, or copy (i.e. type it in, or use OCR) the encrypted data into a computer.
2. Decrypt using the PaperCrypt CLI, or manually construct the data into a binary file, and decrypt it using OpenPGP-compatible software.

```
# PaperCrypt/v1.0.0-beta0-5-g72c479e-dirty
# Content Serial: MJ7OLS
# Purpose: Example Sheet
# Comment: Bitwarden Restore Details
# Date: Mon, 14 Aug 2023 19:16:16.583465000 CEST
# Content Length: 366
# Content CRC-24: 7dde35
# Content CRC-32: 1aee1e57
# Content SHA-256: 58bzqs7eg46xT/Ll5PwG+1a1jJXHgB5lSf4QbIchd0E=
# Header CRC-32: a512d8b8
```

```
 1: C3 2E 04 09 03 08 F3 16 3E B1 58 E3 6A 5C E0 20 4E E8 E3 56 58 5E B40174
 2: 08 47 A3 1D 37 A7 2D 67 EC B2 E7 0E 39 22 5D 1C A4 51 F7 AF 34 23 FB28E7
 3: 22 CB 6C 0B D2 C0 7B 01 9C 26 36 35 67 CE F4 52 72 E2 12 6E 59 14 F13503
 4: 5D D6 99 4F CA 23 FF F2 18 36 FF 14 07 F5 02 F9 53 F8 BD 74 5C 3A 7E931D
 5: 6C 3E 63 66 3B 59 7C 60 50 FD 41 FD D0 3F 3A 6B 44 4F 02 65 04 50 3EFD48
 6: B4 F7 62 2E 9A 26 EE 34 E4 9F 86 12 1B E1 2E 74 F0 E7 6E 49 54 2E A5064B
 7: F3 58 46 B7 20 C6 90 88 53 80 47 85 4E 70 DC 60 33 20 8E 09 5B F2 FA834C
 8: 7E 41 E5 E8 88 C4 54 C0 E1 13 73 0C 5F 60 DB 26 59 50 30 C0 9A D3 E6DCD9
 9: 61 5B 7B A4 2F 67 00 96 DC 0B 36 3E 86 54 13 21 28 E1 37 03 F7 04 4F0439
10: 22 F5 9A AA 49 6C C9 1E 52 3A 4D F6 71 35 A8 52 F8 1A F6 71 D4 E9 4C360C
11: 85 F0 66 AE EA DF 73 2B 0A 45 2F DD 10 B1 34 C9 85 25 C4 4E D8 9D D641A9
12: 1F 24 BB 19 94 D6 D5 F7 CF 61 B7 6C 4F 7A AA 41 EB 37 84 42 0E 40 3B310C
13: A8 24 82 82 3B 81 3E 6A 2E A1 2C 52 C3 C6 9C 14 F8 91 48 46 1A FB E3A3F0
14: 62 5F 91 1A 20 13 6F F3 D3 37 58 95 B5 5C 13 E2 58 10 D6 BD 71 A7 5FB469
15: 14 E5 4D 3F 2E 51 9C B6 C2 54 CE 8D ED BC E9 9E 64 A3 3E D4 AC 2D 901C18
16: 47 E9 D0 D3 4D 3A 63 3C 02 D1 CE 48 B0 18 ED CA E7 FA 55 CC 7E DB 19CAB3
17: 0F 32 61 35 EF E0 0D 9D 4F 91 60 78 66 E4 DC08ED
18: 7DDE35
```