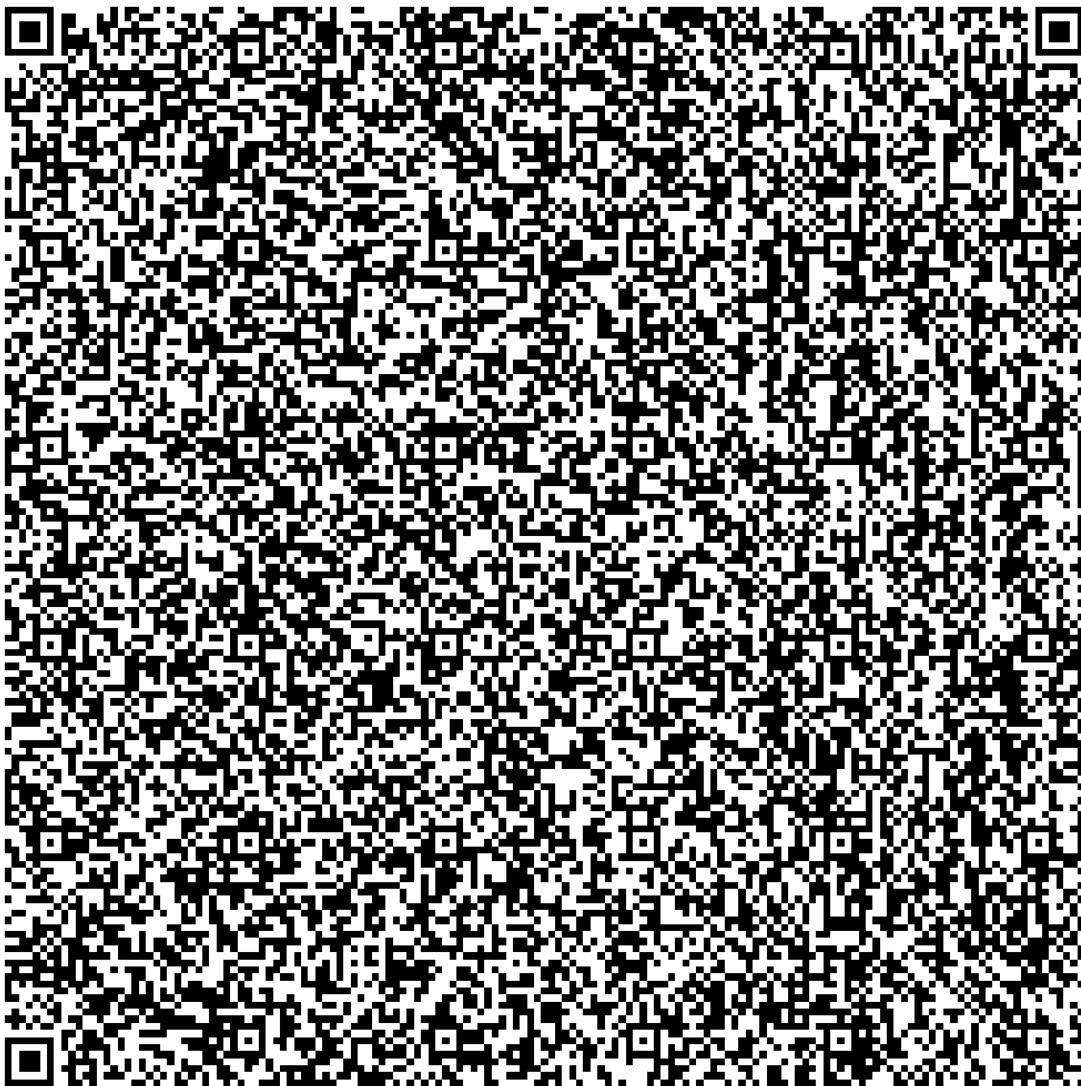# PaperCrypt Recovery Sheet

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, scan the QR code, or 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: OICDD5
Purpose: Example Sheet
Comment: Regular PDF Example
Date: Wed, 16 Aug 2023 20:29:41.765840100 CEST
Serialization Type: papercrypt/base16+crc
Content Length: 366
Content CRC-24: 25b66e
Content CRC-32: aa4c7acd
Content SHA-256: AUC7DC8loZ/xRV/euMJhc85XCThTxy0a+9dAKDJIVJ4=
Header CRC-32: 48beb587

```
 1: C3 2E 04 09 03 08 CF 13 65 96 9F 12 98 79 E0 FF 40 19 42 A9 93 38 DE6F07
 2: 89 A6 0F 09 4B E8 F1 73 AD 73 1A 53 AC 27 DB 7F 18 F8 36 5E D4 71 182237
 3: 42 A2 61 4A D2 C0 7B 01 91 DC BA 49 4C 40 A7 A7 E9 33 B2 47 F7 65 0F5B1A
 4: B5 8A 38 1E 0B E6 11 A1 C5 33 E2 B6 40 AD 94 30 05 32 77 BC 7B 7B 6DA8E7
 5: D8 01 41 62 B4 F4 E2 E4 20 C6 61 20 E3 E3 E3 05 FC 59 30 24 23 19 682D2B
 6: 00 4F 46 7C DF 35 B0 57 03 DB 03 AB FB B0 FC 34 A3 21 E4 21 C5 6E 4BD89B
 7: 33 D9 CA 6D F7 25 98 A5 52 FA A9 64 13 F0 D3 19 5C A2 05 30 8D 92 34C171
 8: E2 06 F1 DD 30 00 F6 3A 15 C8 41 2D A5 FE DC 10 41 87 48 C2 36 E6 069C63
 9: 84 F1 52 8D E6 E8 A2 19 9E E6 3C 56 83 D1 D5 32 7D 55 28 45 F1 FD 677D03
10: 4B 24 33 ED 2A 0E 19 30 A3 82 A1 F8 0C 8B 4E A3 F6 0D C6 B2 DF 6F 194326
11: F0 CB AE 7D 8A FD 2B 18 06 5D 2B F9 3A 24 E9 1B 6E 8A 70 43 63 DA 1AA330
12: 8D 48 B7 EF 2E 5B DF D1 DE 37 FB D8 B5 69 C6 B0 3B 29 58 B2 4D 58 70EE8B
13: F0 0A 78 D8 A7 82 13 EC 68 8C DE CE 25 E2 6E 08 BE 83 4E 8B AA CE 227B34
14: BB 39 B9 EB 18 95 71 40 A6 9D 77 52 17 1D 66 98 40 BF 92 C9 1F C3 391FDD
15: 4E 85 CB A1 EF 25 2C 92 40 53 9C 2B D3 42 8B E3 3C C3 59 4F A6 84 7F1089
16: 6D A4 18 55 FC AF 0A 93 3B 07 68 68 62 0F DE 22 1B FF 4C A7 17 E2 34B4D1
17: 3C 9E B2 B2 B4 E0 B8 E7 F3 39 95 1F 09 71 C68696
18: 25B66E
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