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 24 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. Data is compressed using the gzip algorithm.

Recovering the data

Firstly, scan the 2D code, or copy (i.e. type in, or use OCR on) 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: devel
Content Serial: FHZM7F
Purpose: Example Sheet

Comment: Lowercase PDF Example

Date: Tue, 06 Aug 2024 11:12:31.474286400 +0200

Data Format: PGP
Content Length: 390
Content CRC-24: 8d8187
Content CRC-32: baa394e6

Content SHA-256: YBHHloqkpXsBP3856VxHYJiZuJ5YkzMZwcuHxcnxqGg=

Header CRC-32: 58efbe27

1: 1f 8b 08 00 00 00 00 00 02 ff 00 6a 01 95 fe c3 2e 04 09 03 08 de 79 61 9636c2 2: a6 4f bb 80 8c e0 c1 8a 37 38 ff 09 82 0d a5 c4 cd cf f0 4a 07 1d 7e 64 bb685d 3: 48 23 1d d7 21 e3 0a 55 89 d8 a5 b0 f8 b6 6f d2 c0 77 01 be 2f 8c c3 8f 1529f3 4: b7 a8 8f bf ee f4 20 12 c4 b8 7c 86 31 a7 49 bf 45 96 b0 66 af 5e f3 a9 bd6640 5: 8f cc 2d 7d a4 b5 5d e7 fe fc 34 5c 5b 3d 55 4f bf 46 1d 76 aa 3d b9 73 00e347 6: 2a e2 f0 ec 58 bf 98 70 66 44 46 e6 8a a7 af b1 61 33 e7 46 88 bb 60 14 0ccc48 7: fa a1 62 ec cc 40 99 d7 e6 cc 79 a1 db d3 0e 7b 61 ca 00 fe 1a 4e 30 90 306ce7 8: 43 3b a7 b9 32 5b fb 29 7f b9 69 aa a5 0b 76 60 cc d1 9a 08 c8 b6 63 fa 26b5f7 9: 7e 83 43 a4 26 26 83 1c 47 f1 7b c6 ef d1 43 eb 7f bd a0 9c 0d 2b 68 e6 8020e8 10: a2 51 55 18 72 54 59 97 9d 95 1d a1 b2 67 2d cb 91 86 19 71 90 3c 88 f9 941010 11: 17 a3 79 2d ec 45 2b 6d d2 a1 d0 d0 44 64 00 75 1c cd 74 1e bb aa ce d8 4b7d6c 12: a3 2b 3a 4e e9 c9 c3 5a 16 ef 9a a0 ec 22 24 fb 5f 1f 8c e3 aa 6d ce 9f 7fb8c4 13: de 4c 36 d2 56 08 ef 8b 93 2c e7 d7 42 98 8f 51 5b 36 00 d1 aa fb cf 8f 6d08f0 14: 03 cd fd 3f d9 f2 d7 2d 74 60 35 b8 88 ed c1 b8 40 79 b2 7d e2 d7 cd a0 31e987 15: 8e 80 d0 2f 26 81 35 b8 51 33 f5 d9 72 57 a3 7f 8d 7b f5 c5 bc e5 34 44 b081ca 16: ab a8 15 30 ff 76 af 9b 14 54 e3 f1 01 7e df 95 78 01 00 00 ff ff 78 22 d0b855 17: 03 c9 6a 01 00 00 9cd684

18: 8d8187

