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 QR 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: GTZWYM
Purpose: Example Sheet

Comment: Regular PDF Example

Date: Sat, 03 Aug 2024 12:05:23.395755200 CEST

Data Format: PGP
Content Length: 390
Content CRC-24: d68ed6
Content CRC-32: 83c156d7

Content SHA-256: VckDn7fLMdOLKxtD/3GhHfNB3LjYFhh9iVHzJV6ANs8=

Header CRC-32: 0aff650a

1: 1F 8B 08 00 00 00 00 00 02 FF 00 6A 01 95 FE C3 2E 04 09 03 08 95 17 77 47423B 2: 69 80 23 D7 69 E0 DC 21 9E 36 AC B9 1E F5 E6 D6 17 5E C7 02 69 44 61 5A 04C19F 3: 34 4A 22 37 4F F9 1E 9C 4F 9C A3 55 54 12 4D D2 C0 77 01 6D 07 4A C6 AD 305A8A 4: C7 C3 14 7E C1 BF FD DB 0E D2 34 5F 8C 20 9A CA 04 E0 AA 93 48 3B 62 C2 F233C0 5: 5F BF 0D AC C2 54 F6 87 45 15 7D 9F FC 86 56 1A C9 51 EB 7F C8 F7 51 1A 262A39 6: 20 DB 66 62 F3 58 17 43 57 48 05 16 C4 9C F0 22 E5 E7 4D 86 32 AE E3 07 439162 7: 58 71 27 94 57 7C F5 BC 54 0D 22 22 33 B6 28 53 EA A3 3A 0E B8 E2 76 64 B8D41D 8: 57 03 F4 60 EA 2C D8 BB 27 30 50 4F F9 63 B7 1A 26 AB 7C 25 32 18 DB B8 EF5FBE 9: B6 4C 09 2F 16 CB 11 16 C2 0D 4C 5E 6D 43 AE 56 58 09 B7 42 6B CF FA CA 5B87D8 10: FD DA 86 78 B9 1A A7 30 80 F6 A9 4A 35 81 3E A4 79 29 FE BA 2E 2B 0D 08 A9BB8B 11: BA D1 3D 39 C9 08 F8 55 59 28 32 5D 40 ED EB 9B 56 22 A0 03 F8 37 0D B6 BD4380 12: 30 D7 C7 92 D8 26 BD 3E D3 C2 D5 C2 5B D4 4A 3E 40 3B 24 27 C7 A4 3E C0 3A3A3A 13: 47 82 2C BD 0B FB 1A AD B7 BB 5B C4 1E 0E 41 6E 14 08 CF 87 F6 8A DF 3B 95307F 14: 55 DC 4A 23 F4 E2 76 5D 7B 78 CF 17 87 98 E4 2A 44 7C 6E 61 8C F0 B1 6D 7C5475 15: CE 9E B0 DA 65 FB BC D0 2F 35 66 F5 83 DE BC 69 E9 CB A8 8A EC CA 6B C2 6C2246 16: 5C 1A 59 DD 24 A3 EA 0C A2 8C E8 E9 36 CE 6D 58 AC 01 00 00 FF FF 06 6C F0BBFD 17: D3 59 6A 01 00 00 1E4007

18: D68ED6

