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.

Recovering the data

Firstly, 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: ESJ6X2
Purpose: Example Sheet

Comment: PDF without QR Code Example

Date: Fri, 02 Aug 2024 13:36:07.217970800 CEST

Data Format: PGP
Content Length: 390
Content CRC-24: 6f543c
Content CRC-32: 40c6937f

Content SHA-256: 77mLE/jJmd/uJTP6zCeoV/zGnhCyL70PgSwLcI8eqrE=

Header CRC-32: 009ba064

1: 1F 8B 08 00 00 00 00 00 02 FF 00 6A 01 95 FE C3 2E 04 09 03 08 92 B5 BA F01B63 2: 20 DC 01 00 18 E0 B2 1F 1B 76 E4 51 31 56 D5 4D 03 75 71 38 1B 8A 1E 11 C39F95 3: 0B 2C 5C DF D7 8C EA 6B 83 9F 35 74 C1 E0 FD D2 C0 77 01 84 BF AD 9F 38 98FA2C 4: 47 62 DF 26 81 54 51 CB 3B AB 81 EB C9 47 CC A2 9C B3 7F 86 90 CE 48 BC 298CD4 5: C0 34 98 F3 4B 64 A9 3C 28 3B 1C 83 43 8F 12 97 CD 04 69 B9 07 CC FB 7D 3AD049 6: CC F7 BD CB 82 55 C7 D9 4D 50 D8 ED 1C 37 6F 7D AE 9C BF 5A 1B DA 50 40 180C8B 7: EA 14 43 7D AF DF 60 98 26 00 4A 5A 2F 4E FA 39 FF E7 09 9A 2F 4E E8 C5 827CF4 8: 2D 5A F3 46 5E A1 FF 35 8D 4B 77 53 17 09 F8 D5 7B 15 F3 A0 F0 3F F8 BB 3AE9C6 9: 35 62 34 41 67 94 F0 81 55 4D 76 E8 E9 55 48 E9 3C 01 C1 E1 32 A6 D8 8B 481626 10: 49 5E F2 E1 5D F1 70 57 A1 05 13 EA DE DE 5D 00 4F 0B 3D 7D 1E 25 06 A5 DF5665 11: 43 FA ED 0F 9E 82 DF F7 61 BE 10 63 05 75 FA 06 C4 E3 B5 5D 07 E2 05 E0 6132D5 12: 56 46 83 E4 D6 C3 0F A3 7A C9 63 2C 9C EF 95 9F E5 7F EE D2 5F A8 B3 6B 2E8CF5 13: 30 31 FD 7E 6D D0 B1 79 AA 8A F0 86 D0 6A 7E AB 8B CC A1 85 4C 5B 17 81 1DD08E 14: 38 51 0D AB BF 4F 70 A2 80 F2 7B FA 63 10 99 A0 17 81 D9 3E 76 D4 6C F9 15F75F 15: 9F 76 13 CE 17 AE B0 D9 20 A4 D0 FA 99 9D 5D 2E 15 23 75 80 10 01 2B C9 C8D075 16: 5B C5 6F 2A 72 A3 9A EE DC DB DF 2B 46 59 BB 6F 2D 01 00 00 FF FF 64 22 065488 17: F7 A9 6A 01 00 00 0AA0F5

18: 6F543C

