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, 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: 1.3.0
Content Serial: POII6P
Purpose: Example Sheet

Comment: PDF without QR Code Example

Date: Sat, 27 Jul 2024 09:38:39.608576000 CEST

Content Length: 362
Content CRC-24: 8cfe9f
Content CRC-32: f70e1823

Content SHA-256: M+mw5yQSbKHAsYfMpkTLoc4KE3C4RETQ9DR1ooIYyDk=

Header CRC-32: 8e0dde34

1: C3 2E 04 09 03 08 2A 31 13 0C 83 1D AF D1 E0 85 88 43 42 A8 5F 1C 9F374D 2: DA 5A E4 8C CD 54 CF 40 B8 42 AD 21 3B B8 0F 43 AO D8 3A 86 EF 53 A56DFD 3: 32 03 D4 F2 D2 C0 77 01 73 84 5B E6 0E 9C ED 21 5A 6A 3B 84 C1 08 44B7FF 4: 26 22 7F CA 74 BA 26 67 23 87 71 96 71 2C F0 E0 72 BA 34 5D 0F E0 576BCA 5: A9 F3 F6 8C B0 D2 68 3B 14 AA 4E D5 2C 78 54 0F C8 93 6B ED 20 9F 5C617A 6: BA 60 25 CC 68 C3 92 F3 89 6D 14 40 E9 BD 1B 64 E5 30 40 86 FA 8B 6DC643 7: A5 76 3C 74 B9 BA 43 8C B5 97 EA 6B 61 3E 75 61 DF 74 0B C2 65 62 E2EB89 8: 72 86 33 69 1F B4 97 70 40 ED 42 6C A0 96 ED 88 64 14 13 B2 A4 66 A3140A 9: 28 F6 48 06 88 6F 28 DC 64 74 D4 77 E3 B7 A8 A4 E8 7E FE A3 10 2B 5586F9 10: C7 38 1E 80 60 5B 66 23 4B AB B2 31 1B A8 78 BC 57 43 D4 32 3C 63 08654A 11: D9 77 9F 3E 8E 61 BO 71 07 1C 06 54 1E B2 51 C2 A8 A3 BA D1 BF E0 E7E9D2 12: 69 50 68 77 ED 92 33 32 41 C2 26 E2 17 5F 6E 92 66 E4 CB 1D AF 9C 208369 13: 07 C7 09 9A 0D D3 34 31 72 E6 A7 8E A8 89 CB DB 75 B6 BD 94 F8 05 3CA373 14: 6C 2F 95 77 BD 67 9D 8C 2E 8C 58 02 EB F8 AD 5B C3 3C 06 78 0E F5 317EA0 15: 94 B9 82 4B 08 07 40 9F 85 05 59 54 F9 8F 8F 28 6F 18 65 3E 5B 3F 6B2AA7 16: 17 4E F8 F4 2D F5 41 A5 84 E3 6A F8 45 D2 95 CD 89 DD 06 EA 82 AD D864FF 17: 42 0C 05 C7 05 8A B9 F9 67 A0 392165

18: 8CFE9F

