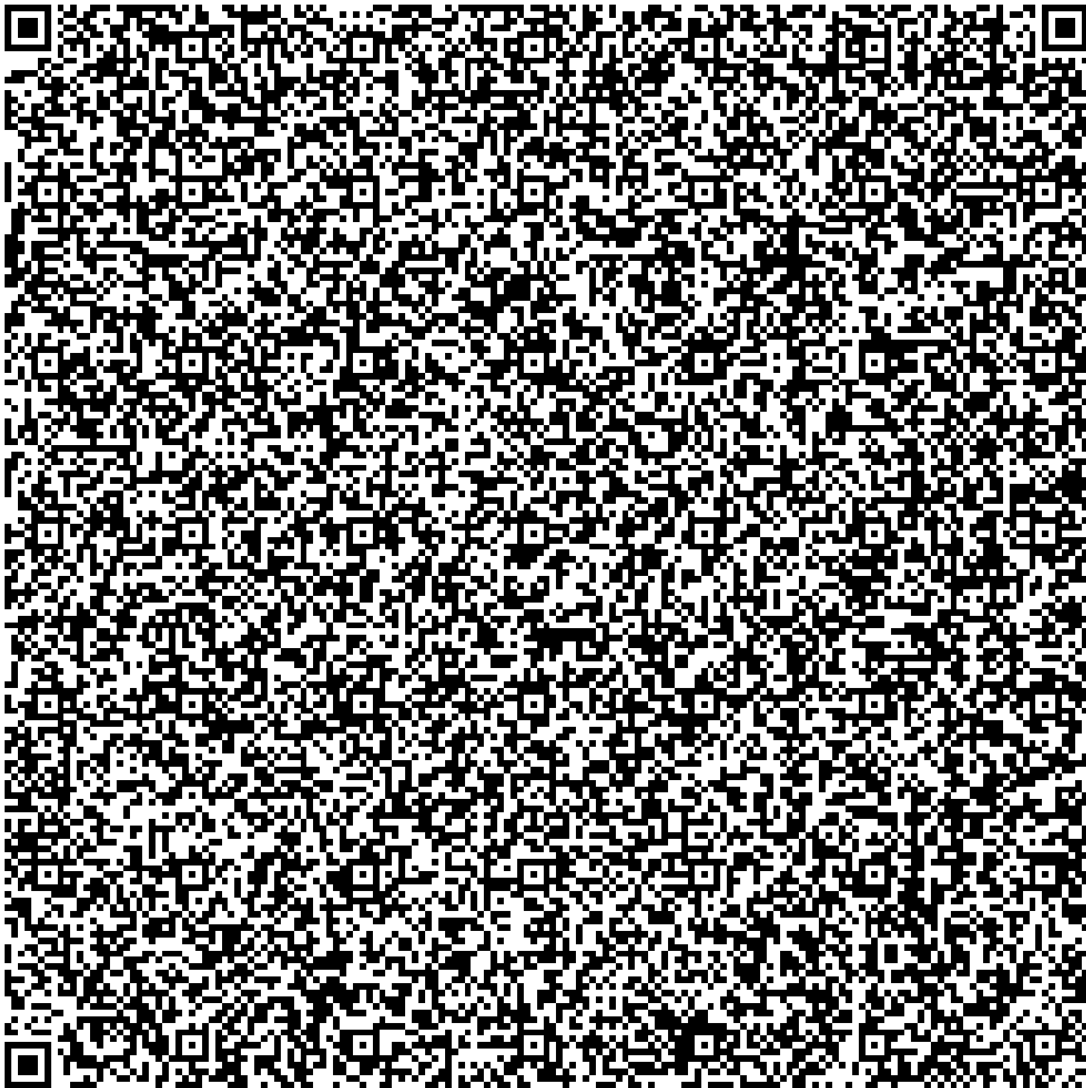# PaperCrypt Recovery Sheet

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-beta0-23-gdced528-dirty
Content Serial: GO5E4G
Purpose: Example Sheet
Comment: Armoured PDF Example
Date: Thu, 17 Aug 2023 17:08:40.576315500 CEST
Serialization Type: openpgp/armor
Content Length: 728
Content CRC-24: d0772
Content CRC-32: 1a6fa1e5
Content SHA-256: iRAGDPOpGAO15b+HVxZAJlwbIBRTloIDcK6820yr4bs=
Header CRC-32: 3cfad5b4

-----BEGIN PGP MESSAGE-----
Version: GopenPGP 2.7.2
Comment: https://gopenpgp.org

wy4ECQMIpH4CiAcv9aDghoDFkwRlhWC3qDx0BnfTy27/biH208ltaX+RLHCIqNts
0sDRAYwShpXqdwHcTVCjC9AdNw2jVL+NiG/4ws6woOAydKijjzOXauFa06GwNAj5
k0VPlLtwUADJ6KIZaYLEE9RfSBw9/ij0IYQ2VEJWWB+IbV5JVAihcUwNQYaC1ZVv
m7j/NywyCG2D1OF10aHJ2LTayILZsEd2CUvvshPwx1prNA7Nf1qOPuwipR8mcdlb
F42ZNpJe/TWrh1BNSJnL6VPA/iAWD+nsX8LCxtJ5lRUGb2/GqnllX+LwS4udtt6Y
HvaBwqQvAdmp82CnWAlM5B2td+bdSfJthXG5Ov8gbLXcbkspsPxaYMWx7FR7tqX2
sB5H5pjJO2UPanH+VKuFmuQVlI0us2mJ8eRXNbG9OwbTEPF2sS27vtHq1ycPupJJ
Kj9ecoHT+UkSf8OG+3bM6l9sq9TBl+A23BsAk/SfCZI0QnP41vHbv0xnH35P1X/1
fdaPrkPyC3jIPGaLK6i+qIROzbuk7s0QQ6qZPTt9HcNxpgnz5ZKhSsnsZlpoeXci
zsvXffPDFJ/sNL2qvtLx1/PGcOY=
=uv7h
-----END PGP MESSAGE-----