



DES Tool For manual Encryption/Decryption with 3DES

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Issue 0.1
– 23. June 2023 –

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1 Overview



KEY (24 Byte)

Enter the 24 bytes = 48 hexadecimal characters of the 3DES password in the first line. The appropriate length of 48 is displayed to the right.

Data (8 Byte)

Enter the user data to be processed here.

[Encrypt]/[Decrypt]

Please select the desired function.

Encrypt: Encrypt the user data with the 3DES password.

Decrypt: Decrypt the user data with the 3DES password.

2 Examples

2.1 Decrypting the Application Key from Chapter 2.4

Set Application Key

#	Address	Contents	Function
1	1BC00036	10 13 2E 60 04 5F FE 9D	First Frame Telegram 013 = 19 Bytes of payload follow 2E = Write Data by identifier 60 04 = Send Key
2	1BC1B000	30 00 0A	Flow Control: no restriction on the number of blocks, 10 ms pause
3	1BC00036	21 40 02 0E 79 5A EC 1E	Consecutive Frame with Contents
4	1BC00036	22 D0 2D 6B 26 CA B0 AA	Consecutive Frame with Contents
5	1BC1B000	03 6E 60 04	Confirmation from RFID lock

5F FE 9D 40 02 0E 79 5A EC 1E D0 2D 6B 26 CA B0 is key value 760B470545394C0B405F3D3D3457745A (16 Bytes)



The 3DES key can be found in chapter "2.1 Set 2DES Key".

2.2 Encrypting the Key for File Access from Chapter 2.8

Set Key for File Access

#	Address	Contents	Function
1	1BC00036	10 13 2E 60 14 05 7E F3	First Frame Telegram 013 = 19 Bytes of payload follow 2E = Write Data by identifier 60 14 = Send Key
2	1BC1B000	30 00 0A	Flow Control: no restriction on the number of blocks, 10 ms pause
3	1BC00036	21 20 6C 6B D5 EE 8A 74	Consecutive Frame with Contents
4	1BC00036	22 73 E6 79 08 72 E4 AA	Consecutive Frame with Contents
5	1BC1B000	03 6E 60 14	Confirmation from RFID lock

05 7E F3 20 6C 6B D5 EE 8A 74 73 E6 79 08 72 E4 is the key value 5075254A26530F354A5866324234464D

DES 算法工具

加解密 | MAC 运算 | XOR 运算 | 分散运算 | 关于

算法选择
☐ DES(单倍长) ☐ 3DES(双倍长) ☒ 3DES(四倍长)

密钥 Key (24 Bytes)
AF706A243F717E4B7D2A5E8B3B3538325A2D73D3975D786D 长度 48

数据 Data (8 Bytes)
5075254A26530F354A5866324234464D 32

结果 Result (8 Bytes)
057EF3206C6BD5EE8A7473E6790872E4

Encrypt
加密

Decrypt
解密

☐ 总在最上