

Utilitarian Component

EZSPT



IIM SERVICES AGENCY

Text and files encryption using the SERPENT I - II - III protocol

EZSPT has been developed in order to bring a solution for security needs, when protecting sensitive data is mandatory either on storage, either on transferring them through a physical media or through Internet. This component allows linking any application developed with Windev and brings an easy way to have a standard between your softwares. It does provide three encryption options : SERPENT I - II - III, using a 128 bits block size, a key of 128 bits, 192 bits, or 256 bits. It was a finalist in the Advanced Encryption Standard (AES) contest, where it came second. It is often considered as one of the safest at present available systems of encryption. Two modes are available, ECB and CBC.

Using this component is very easy. All is done through simple calls to the encryption and decryption functions. You have the possibility to display a progressbar , and / or time counter showing the treatment remaining time. Our example both in French and English provides all the details needed to use the component's functions.

EZSPT Serpent Component - Example

Process: File Text

Encryption algorithm: 128 192 256

Process Mode: ECB CBC

File Details: Integrated

Action: Encrypt Decrypt

Extension: []

Process Display: Progress bar Timer

Block in process: []

Time: 0:01:13

Remaining: 0:00:00

100 %

Source directory: D:\Mes projets\SPT\EZSPT Example\Exe

Destination directory: D:\Mes projets\SPT\EZSPT Example\Exe

Password: 1234567890123456

Initialisation Vector (IV): []

Extension: Anonymous (.ENC) Cancel process Authorized - ESC

Padding Type: ISO/IEC 7816-4 ANSI X923 PKCS7 ISO 10126

Genuine Text - 17381 caracteres

Encrypted data - 17392 caracteres

4A	65	20	6E	65	20	70	75	69	73
20	70	61	73	20	6D	65	20	72	61
70	70	65	6C	65	72	2C	20	73	75
72	20	6D	6F	6E	20	E2	6D	65	2C
20	63	6F	6D	6D	65	6E	74	2C	20

DA	65	05	82	4F	7A	1E	73	DB	2B
76	B2	2D	97	95	03	4B	29	66	48
26	77	C8	DA	07	7C	5C	AD	6A	0E
D5	3D	68	90	79	D4	75	BF	3A	30
BD	50	F4	BD	AB	26	05	F4	34	CC

File to File: []

Encrypt []

Clear text []

Decrypt []

Clear text []

Bloc Reading size: 1MB 2MB 4MB 8MB 16MB 32MB 64MB 128MB