

Utilitarian Component

EZAES



IIM SERVICES AGENCY

Text and files encryption using the AES – I – II – III protocol

EZAES 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 : AES I, II, and III, respectively with a key of 128 bits, 192 bits, 256 bits. It won in october 2000 the AES competition, launched in 1997 by the NIST and became the new encryption standard for the federal government agencies of the USA. It has also been approved by the NSA for the TOP SECRET informations. 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.

AES 128-192-256 Component - Example

Process: File Text

Encryption algorithm: AES I - 128 bits AES II - 192 bits AES III - 256 bits

Process Mode: ECB CBC

File Details: Integrated

Action: Encrypt Decrypt

Extension: []

Process Display: Progress bar Timer

Block in process: []

Time: 0:00:39
Remaining: 0:00:00

100 %

Source directory: C:\Program Files\IIM\EZAES Example
Destination directory: C:\Program Files\IIM\EZAES Example

Password: 1234567890123456

Initialisation Vector (IV): []

Extension: Anonymized (.ENC) Authorized - ESC

Cancel process: Authorized - ESC

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

Texte - 17381 caractères
irémisiblement ? -- Ce conquérant ne sera-t-il jamais vaincu ? -- Ne sommes-nous pas une partie et une parcelle de Toi ! Qui donc connaît les mystères de la volonté ainsi que sa vigueur ? L'homme ne cède aux anges et ne se rend entièrement à la mort que par l'infirmité de sa pauvre volonté.

Encrypted Text - 17392 characters
w`»æbe#<C*ÉÓ ÍCE#OS²A-IAÉQÁæ=\%U9) àUB5A+É,%₁G.,₁ÓÁ=NGä•◀E|±,ÓW ¥"™"M"é"J(«δA<úæ•xjzCE{É'Ó³}±A"ä<ZÖèpR \$0xäö<'F=\DQ< müDÖ)H#| ^qA•• |/%gÉ \¼ŕP"t0|}9ukV,&šA,š)šÖ

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

77	60	BB	E6	62	65	23	3C	0A	43
2A	80	D4	18	8C	0F	D8	53	BA	C0
15	C1	C9	08	C1	EB	3D	5C	25	55
39	7D	E5	55	42	35	41	F7	80	2C
89	31	47	84	02	B2	D3	C5	A4	4E

File to File: [] **Encrypt** [] Clear text [] Decrypt [] Clear text []

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