

## Utilitarian Component

# EZANS



IIM SERVICES AGENCY

### Text and files encryption using the Anubis I to VII protocol

**EZANS** 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 seven encryption options : Anubis I to VII, using a 128 bits block size, a key of 128 bits up to 320 bits in 32 bits steps. It is a block cipher designed for the NESSIE project, a former research program initiated by the European Commission for the identification of new cryptographic algorithms. Its design is considered very strong, and no attacks have been found. 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.

**EZANS Anubis Component - Example**

Process:  File  Text

Encryption algorithm:  128  256  160  288  192  320  224

Process Mode:  ECB  CBC

File Details:  Integrated

Action:  Encrypt  Decrypt

Extension:

Process Display:  Progress bar  Timer

Source directory: C:\Program Files\IIM\EZANS Example

Destination directory: C:\Program Files\IIM\EZANS Example

Password: 1234567890123456

Initialisation Vector (IV):

Extension:  Anonymous (.ENC)  Authorized - ESC

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

Genuine Text - 17381 characters

Encrypted data - 17392 characters

File to File:

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

Time: 0:00:20

Remaining: 0:00:00

100 %