

# THE KEY TO SECURING YOUR DATA

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**FDR** **EN** **CRYPT**

30SHJKD8KMAHN3K9OI7A  
62LMKHC2JD7A1P9BD6T

# Protect Your Data Against Unauthorized Access with...



**FDRCRYPT™**, an extra-cost add-on product to FDR and FDRABR, provides encryption for FDR, FDRDSF and ABR full-volume, archive, application and data set backups. FDRCRYPT will protect the data on your backups against unauthorized access by anyone who does not possess the proper encryption keys.

FDRCRYPT offers different levels of encryption, invoked with new operands on the DUMP statement. When you are creating duplicate backups (with TAPEX and TAPEXX DD statements), you can encrypt COPY1, COPY2 or both, which gives you the option of retaining an unencrypted copy for onsite recovery.

## FDRCAMS Encrypting Sequential Files and VSAM

FDRCRYPT also includes FDRCAMS, an encryption utility that invokes IBM's IDCAMS to encrypt the sequential output from a REPRO command. This allows sequential copies of any dataset supported by REPRO (VSAM, Sequential, and IAM) to be encrypted, and also the automatic decryption of any sequential file used as input to REPRO. FDRCAMS secures data so it can be safely sent to other companies or agencies, and prevents the problems caused by loss or theft of the transfer media (which can be tape, or via email, FTP, or on CD). If the receiving site does not have FDRCRYPT, a no-charge program called FDRDECRY can be downloaded to decrypt the file.

## Most Electronic Data Must be Protected by One or More of These Regulations:

*FDRCRYPT will help you maintain compliance.*

- HIPAA
- GLBA
- ISO 17799 Int'l IT security
- European Union Data Protection
- PCI DSS
- SOX 802

*If you have credit card data, you must comply with PCI DSS!*

*FDRCRYPT provides encryption for full volume, incremental, archive, application and data set backups. FDRCAMS provides encryption for VSAM, Sequential and IAM datasets.*

## FDRCRYPT is independent of the Hardware

All encryption algorithms are implemented in FDRCRYPT software and do not require any encryption hardware or assist feature to be available in the processor. Support for TDES, AES-128, 192 and 256.

However, if such features are installed, FDRCRYPT will automatically use them for encryption and/or decryption. These are the AES-128 hardware assist available in IBM z9 processors and the TDES hardware assist in z890, z990, and z9 processors. Data can be encrypted using the hardware feature and later decrypted using the software implementation, and vice-versa. This insures that your data can be decrypted at any receiving or disaster site with any processor type and any operating system.

*FDRCRYPT is subject to USA export controls.*

## FDRCRYPT User Experience:

*"We are a large Life Insurance Company and we have a requirement to send medical claims data to our clients for their employees. The data needs to be Encrypted under the HIPAA rule. We use FDRCAMS to create an ENCRYPTED copy and Innovation provides our client a FREE copy of FDRDECRY to DECRYPT the tape. This allows us to send ENCRYPTED data to any of our clients regardless of the installed hardware or software they have!"*

## Example of using FDRCAMS to ENCRYPT a VSAM file:

This example does a REPRO of a VSAM KSDS out to a sequential file on tape. The data on the sequential output is encrypted with AES128 encryption.

```
//REPRO      EXEC  PGM=FDRCAMS,REGION=0M
//SYSPRINT   DD    SYSOUT=*
//OUTTAPE    DD    UNIT=CART,DSN=MASTER.FILE(+1),DISP=(,CATLG),EXPDT=99000
//SYSIN      DD    *

      REPRO  OUTFILE(OUTTAPE) INDATASET(FINANCE.MASTER.FILE)

//FDRCRYPT   DD    *

      ENCRYPT  OUTFILE=OUTTAPE,ENCRYPTTYPE=AES128
```

To learn more about Innovation's **FDRCRYPT**—Call 973-890-7300, e-mail [sales@fdrinnovation.com](mailto:sales@fdrinnovation.com) or visit us at [www.innovationdp.fdr.com](http://www.innovationdp.fdr.com) for your **FREE** 90-Day Trial and **FREE** Keychain Flashlight.



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