



Protect Data When it Leaves Your Control & Meet Privacy and Privileged Information Protection Regulations

CRYPT is an option to **FDR/UPSTREAM** & **UPSTREAM RESERVOIR**. CRYPT is designed to protect the data on your BACKUPS against unauthorized access by anyone who does not possess the proper encryption keys.

- **Protect Backups Intended for Transport and Off-Site Storage**
- **Secure, Fast, Efficient and Economical**
 - Advancing levels of Encryption, including AES, Allow Security with Balance
- **Key Management Selections**
 - Randomly Generate or User Specified Unique Key Per Individual Backup

Multiple Encryption Levels Provide Different Strengths of Encryption:

SUBSTITUTION – a 128-bit encryption key is used to generate a 256-byte substitution table, where each byte value in the backup data block (after compression) is translated to a different unique byte value.

CIPHER – a 128-bit encryption key is used to generate a byte substitution table (just like SUBSTITUTE) and a transposition table, where each byte in a backup data block is moved to a different location in the backup block so that the data is in a totally different order.

AES – uses the Advanced Encryption Standard algorithm, as approved by the US National Institute of Standards and Technology (NIST). AES uses the encryption key to do a repetitive transformation of the data which is extremely secure; key lengths of 128, 192 and 256 bits are supported. AES is the current standard for US government encryption.

AESFAST – uses a variation of the AES algorithm with a 128-bit encryption key that saves 40-50% of the CPU time of AES.

FDR/UPSTREAM – encryption can use the AES-128 hardware assist on IBM z9-109 processors (and their successors) and the TDES hardware assist on z890, z990 and z9-109 processors (and their successors), if enabled.

Encryption keys can be specified by the user or randomly generated.

CRYPT protects the data on your backups against unauthorized access...by anyone who does not possess the proper encryption keys. Protection of the backup data may be required by many of today's government, industry and corporate privacy and security laws and regulations, such as HIPAA, SOX and DoD requirements, among many others in the US and other countries. CRYPT provides encryption of full-volume, incremental, archive, application and dataset backups.

For more information or a **FREE 90-Day Trial**, call **973-890-7300**, email us at sales@fdrinnovation.com or visit www.innovationdp.fdr.com



CORPORATE HEADQUARTERS: 275 Paterson Ave., Little Falls, NJ 07424 • (973) 890-7300 • Fax: (973) 890-7147
E-mail: support@fdrinnovation.com • sales@fdrinnovation.com • <http://www.innovationdp.fdr.com>

EUROPEAN OFFICES:	FRANCE 01-49-69-94-02	GERMANY 089-489-0210	NETHERLANDS 036-534-1660	UNITED KINGDOM 0208-905-1266	NORDIC COUNTRIES +31-36-534-1660
-------------------	--------------------------	-------------------------	-----------------------------	---------------------------------	-------------------------------------