

FDR®/UPSTREAM® FAMILY OF PRODUCTS



UPSTREAM Reservoir

UPSTREAM Reservoir provides automated reliable and verifiable backup/recovery and archival storage management functions for a wide variety of systems, databases and enterprise servers. UPSTREAM Reservoir supports a wide variety of client platforms as well as a choice of backup servers that include Windows, AIX, Sun Solaris, Intel Linux & Linux for zSERIES. UPSTREAM Reservoir reduces the administration effort required for the backup process with facilities that include silent installation, email event notification, and automatic upgrade capability. UPSTREAM Reservoir supports backups to disk (D2D) or (D2D2T) or directly to tape and provides excellent tape utilization by stacking multiple systems or database data on high capacity tapes drives.



UPSTREAM Reservoir SAN Express

SAN EXPRESS offers high performance data transfer across a SAN to either tape or disk. When a tape drive is on the same fibre SAN or SCSI chain as both the UPSTREAM client and Reservoir system, UPSTREAM can write directly to the tape drive on the SAN, bypassing the LAN for the backup data — a LAN-FREE backup.

Another optional performance feature that exploits the SAN is where the backup data is written to a shared disk that is accessible to both the UPSTREAM Client and Reservoir Host. The UPSTREAM client reads the data from the source disk and writes it to the shared disk. The Reservoir Host then simultaneously reads the backup data from the shared disk and writes it to disk/tape. Either option bypasses the LAN for the bulk of the data transfer from the client to its eventual backup media.



FDR/UPSTREAM

FDR/UPSTREAM is a comprehensive, powerful, high performance storage management solution for backup of the open systems LAN/UNIX platforms and zLINUX data to OS/390 or z/OS mainframe backup server. UPSTREAM will provide automated operations with fast, reliable and verifiable backups/restores/archival and file transfers that can be automatically initiated and controlled from either client or the mainframe backup server. UPSTREAM provides unique data reduction techniques including online database agents offering maximum safety with superior disaster recovery protection.



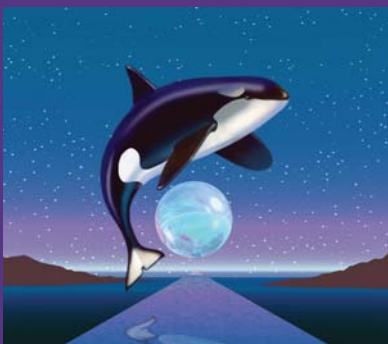
◀ **FDR/UPSTREAM LINUX for zSERIES**

FDR/UPSTREAM can protect Linux on S/390 and zSeries hardware supporting either Linux clients on Linux LPAR or z/VM virtual machine and supports file level backups without having to dismount or take the system offline. UPSTREAM writes directly to z/OS mainframe tape or DASD and uses the existing z/OS tape management system, Security and Scheduling systems, to allow multiple simultaneous backups and restore operations. UPSTREAM features include support for Online Database agents while providing disaster recovery protection with the zLINUX Rescuer that will recover your system and data files. UPSTREAM features high speed performance with support for HiperSockets and high-speed network adapters.



◀ **FDR/UPSTREAM Rescuer**

A powerful & unique addition to the FDR/UPSTREAM storage management tool is the UPSTREAM Rescuer. The Rescuer is a stand alone system recovery facility for Intel Linux, SuSE zLINUX, and Solaris systems. The Rescuer allows administrators to completely restore a system from data that is saved in FDR/UPSTREAM without separate system backups. The Rescuer provides this essential system recovery supplement because it is completely integrated into FDR/UPSTREAM. An UPSTREAM Rescuer recovery can recover a users entire system, including their Linux system boot disk, file systems and device drives as well as all their application program and data files.



◀ **UPSTREAM z/OS UNIX**

UPSTREAM z/OS UNIX provides file level granularity that includes file level, incremental backup processing for the z/OS and OS/390 UNIX System Services including the HFS and zFS file systems without having to dismount or take the system offline. UPSTREAM also provides an online non-disruptive agent for Lotus Notes Domino databases.



◀ **FDR/UPSTREAM/SOS & FDRSOS**

FDR/UPSTREAM/SOS & FDRSOS features extremely high-speed backup/restore for open systems SCSI/FIBRE disk devices across ESCON/FICON channel connections. FDRSOS supports the EMC TimeFinder feature that reduces the downtime for open system backup to seconds.

FDRSOS and UPSTREAM/SOS can leverage the existing resources such as tape and tape management system; MVS job scheduler and security system, while still allowing the client administrators to perform a file recovery with the UPSTREAM Director, a JAVA GUI interface.

FDRSOS provides full physical volume backup and recovery and is generally used for extremely high-speed backup and restore and is extremely useful for DR purposes. UPSTREAM/SOS provides file level backup and recovery for daily incremental backup process with file level granularity.

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



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