

FDRAPPL

APPLICATION BACKUP & RESTORE

z/OS Storage Management



Although many companies continue to utilize a Volume-based backup system as their main backup process, many also use “application backups” as a way to meet specialized backup requirements.

The flexible nature of an application backup means that it can be taken at more frequent intervals than the scheduled “full volume” backup, and the retention/expiration of application backups can be varied; either shorter or longer than volume-based backups.



Key Benefits

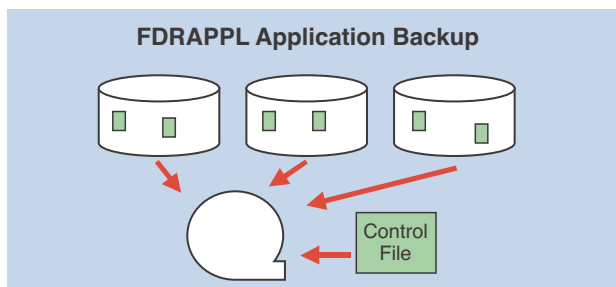
- Reduce application downtime by backing up only the required datasets.
- Flexible scheduling – run your backups before and/or after the application has run, or even include them within the application workflow.
- Variable retention and expiration – keep your application backups for shorter (or longer) than your regular volume-based backups.
- Flexible restores – restore the whole application, or individual datasets.
- Prioritized restores – prioritize the recovery of your data in an emergency by restoring critical applications ahead of less critical ones.



FDRAPPL Application Backup

FDRAPPL Application Backup is a managed, automated, and highly flexible system designed to backup all of the datasets belonging to a single application, regardless of where, and on which volume(s), those datasets reside.

An application’s datasets can be backed up independently of any other datasets on the same volume(s). This reduces the amount of time required to secure all of the datasets belonging to the targeted application, and may also reduce the amount of time that the application must remain quiesced for the backups to complete.



Performance

FDRAPPL consistently outperforms competing products, as illustrated in this recent benchmark test of a backup of over 750 non-VSAM datasets spread across two disk volumes.

FDRAPPL used 70% less CPU and just 33% of the Elapsed Time compared to the equivalent ABARS backup.

Product	Elapsed Time (Minutes)	CPU Time (Seconds)	Tape EXCPs	Disk EXCPs	GB Dumped
ABR V 5.4/75 with TYPE=APPL	6.53	24.62	29,771	29,983	21
z/OS V1R12 DFSMSshm ABARS	19.64	83.20	882,349	31,188	21
% Difference	67%	70%	97%	4%	

A full set of the benchmark results is available on request.

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Flexible Dataset Selection

On an FDRAPPL backup, the z/OS catalogs are searched to locate the requested datasets, often with a simple name mask (e.g. CATDSN=PAYROLL.**).

A record of each dataset backed up is then recorded in a special control file, which can be optionally copied to the end of the backup tape for full disaster recovery protection.

Managed Backups, Flexible Restores

FDRAPPL backups are fully “managed”. They can be recorded, tracked, and eventually expired through an automated mechanism.

From these managed backups, either the whole application or individual datasets can be restored.

- **Recreating the entire application...**

The entire application can be restored with just a single control statement (ALLDSN).

- **Restoring individual datasets...**

One or more individual datasets can be restored, either from their most recent copy, or from an older backup.

The FDRAPPL application backup system is the ideal tool, to either complement your existing volume-based backup scheme, or to provide additional specialized backups for individual applications. Either way, these application backups can then be used to provide both home-site restores and Disaster Recovery protection.

Related Modules

The following modules within the FDR FAMILY can be used alongside the FDRAPPL Application Backup system to provide additional performance and functionality:

- **FDRCRYPT**

Protect your FDRAPPL backups against unauthorized access by encrypting the backup data. You can also use FDRCRYPT to encrypt any sequential backups that you create with IDCAMS.

- **FDREPORT & FDRVIEWS**

These reporting tools can be useful when trying to identify and monitor all of the datasets belonging to a single application.

FDREPORT is especially useful because its flexible selection and exclude criteria can be used to locate target datasets, and with the “selpch” facility, it can then create all of the JCL and FDRAPPL control statements required to backup those datasets.

User Quotes

“FDRAPPL backups are an integral part of our application workflow. The backups, which are written to disk, offer a quick and easy way of rolling back the entire application in the event of a problem...”

“Segregating the backups of some of our critical applications allows us to restore those applications in any order, regardless of which volumes the datasets reside on. With FDRAPPL we can restore only the data we need, in the order that we most need it.”

Want to Know More About FDRAPPL? For a No-Obligation FREE Trial or to request a FREE Concepts & Facilities Guide, ask your local sales representative or visit: <http://www.innovationdp.fdr.com>



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