



Reorg While Active (RWA) facilitates fast file reorganizations without blocking end user accessibility. Frequent reorgs are important since they conserve disk space and improve system performance. **RWA** performs scheduled reorgs automatically, and helps IT departments get the most out of their disk resources.

RWA pays for itself with a single use, many customers say. Each time a record is deleted from a file on IBM i5 and iSeries machines, the disk space that the deleted record occupied isn't normally reused until a file reorganization is performed. Since conventional file reorgs result in system downtime, many IT shops don't perform them as often as they should. When regular file reorganizations don't happen, large amounts of disk space remain unavailable, causing slow job processing and a noticeable loss of user productivity. With **RWA**, file reorgs are performed without using RGZPFM so file lock time is reduced to zero. Since reorgs can run during regular business hours, system downtime shrinks exponentially, while crucial disk resources are reclaimed.

Configurable

RWA tells technicians which files need to be reorganized based on user defined criteria. **RWA** automatically identifies and lists files containing deleted records, indicating how many deleted records are in each file and how much disk space will be recovered when the file is reorganized.

Efficient

RWA reorganizes files without locking out users, therefore, files can be reorganized whenever it is advantageous to do so. Regularly reorganized files improve system performance and extend the useful life of your disk resources, postponing or eliminating unnecessary DASD expenditures.

Advanced

RWA reorganizes multiple files simultaneously, which accelerates the process. With **RWA**, reorgs are completed in a fraction of the time needed by RGZPFM.

Self-Diagnostic

RWA features real-time monitoring through the reorganization process. **RWA** can be stopped midway through a reorg, and scheduled to restart again later, so large reorgs can be done incrementally.

Complimentary

RWA is one component in a trio of i5- iSeries disk management tools offered by S4i. S4i DASD-Plus is a widely used disk management tool that offers more than 25 disk-clearing functions, disk usage analysis and reporting. disk/HUNTER delivers real-time spike detection with alerts and automated data collection/analysis.



Two Approaches to Reorganizing

Reorganize in Place

- RWA groups the deleted records together, removes them and compresses the file. This method is generally used with very large files.

Mirrored Reorganization

- A reorganization environment is created that consists of a library with a duplicate of the physical file that is to be reorganized. This file is then reorganized along with its associated logical files
- The copied and reorganized file is kept synchronized to the production environment. As changes are made to the file in the production environment, the same changes are made simultaneously to the copied file in the reorganization environment. This process continues until a file swap is performed in the final step
- The synchronized and reorganized file is swapped with the production file in the final step, when no other user or process is accessing the production file. This process takes only a minute or two, and can be conveniently scheduled. The non-reorganized production file is either deleted or moved to another library (depending on the command parameters).

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