

# manage defragmentation

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## with DASD space optimiser (DSO)

Reduce production interruptions

The theoretical advantages of new hardware and DASD technology like RAID cannot be realised in practice because the concept of MVS/zOS is based on the 3390 volume model and therefore the hardware has to represent these 3390 volumes logically

Remove manual space optimisation

The defragmentation of the volumes takes a lot of time, which reduces the time available for maintenance. This is often the reason why defrags are not run.

Increase available DASD space

The consequence is that the percentage use of your volume is lower than is technically and organisationally possible.

Minimise required resources

DSO sets new standards in the optimisation of 24/7 DASD Management via automation, continuously minimising fragmentation of free space.

Reducing unnecessary job failures

DSO is an innovative solution prepared for current hardware-technologies such as snap-shot, time-finder or flash-copy.

As a fully automated, reliable solution that once installed manages defragmentation in the background and requires no manual actions/operations, DSO will increase the efficiency and security of your production environment, and minimise the load on your nightly maintenance window.



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## What is DSO?

By automatically taking care of your DASD space, DSO ensures that any production interruptions caused by unnecessary jobs are drastically reduced or eliminated all together.

DSO increases your available DASD space and removes additional manual actions required by operators.

## Functionality

To keep defragmentation permanently at an optimised level, defragging should be carried out regularly, unnoticed by production. DSO runs in the background, ensuring that your fragmentation is kept under control.

The highest fragmentation appears where many activities, like create, extend and the deletion of datasets, take place. Your work, test and batch-production volumes are hit especially hard by these activities and need regular defragmentation.

## Defragmentation

By using the DSO DEFrag command, you can consolidate the free space on volumes and avoid this problem. The DSO DEFrag command relocates dataset extents on a DASD volume to reduce or eliminate free-space fragmentation, and prints reports before and after defrag.

Users can also specify which datasets, if any, are to be excluded from dataset extent relocation. Dataset extents are not combined as a result of the defrag process unless you also specify the CONSOLIDATE command.

DSO uses IBM's DFSMSdss product with a parameterisation set-up for each single DASD volume.

## Business Benefits

DSO customers report an increase in the percentage of use of their work volumes by 21%.

Assuming your organisation has installed 40TB DASD, and 8TB of that is for your work files, DSO optimisation will increase DASD usage by 21%, meaning that 1.2 TB of DASD will be available decreasing the need for DASD investment.

Taking the investment of a Hi-End zOS-Disc of 1TB costing £70,000, the DSO optimisation mentioned above would mean a real saving of £84,000.

**“DSO is a fully automated, reliable solution which manages your defragmentation in the background and requires no manual actions or operations.”**

DSO generates significant savings from point of activation. The efficiency and security of your production will increase and the load on your nightly maintenance window will be minimised:

- DSO can save more than 10% of your disc space permanently
- DSO is based on standard IBM features and is therefore very inexpensive to maintain (estimated at less than 1 man-day per quarter)
- Using DSO will give you the opportunity to use your batch window more effectively.
- Your 24/7 production time is optimised and runs with less problems
- Manual interactions are minimised releasing resources available for other tasks
- Your ROI can be met in less than 3 months



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