Efficiently produce simulated results of S4i DASD-Plus disk management capabilities to get your trial off to a good start.

With just a few minutes of set up, you'll have the results to determine whether S4i DASD-Plus is right for your organization.

We’ll show you how to increase your productivity automating disk management tasks quickly and efficiently. Additionally, the analytical capabilities will allow you to effectively manage your system resources today and forecast your shop’s future needs.
By the time you meet with one of our technical support personnel you will have results to review and produce reports and charts. As a result of the set up done here, combined with the technical product overview and review of these results with one of our staff, you will have enough information to determine whether DASD-Plus is right for your organization. We feel confident you will find that this product will increase your productivity by demonstrating how a few of the disk management tasks presented to every System i Administrator can be automated quickly and efficiently. Additionally, the analytical capabilities will allow you to effectively manage your system resources today and forecast your future needs.

The administrator should realize that if the following steps are approached with the implementation process in mind, the foundation of an implementation itself is being facilitated. Within 30 minutes you will be gathering information that will be invaluable to your IT organization and performing tasks that represent many clients that are using DASD-Plus today.

Pre-Configuration Considerations

Installation

If you have not already, install DASD-Plus. Refer to Appendix A of the DASD-Plus User’s guide of installation instructions. Installation on the System i will take no more than 15 minutes. You may also install the PC application, DASD Chart if you plan to use graphs and charts to view your results. Don’t forget to add your license keys.

Job Scheduling

Our process assumes you will be using the OS400/IBM i supplied Job Scheduler. If you choose to use any other job scheduler for testing, start DASD-Plus by issuing the “STRS4IDP” command at your main menu. You will be taken to the DASD-Plus main menu where you will:

- Enter Menu Option 40 “Set up defaults menu”
- Enter Menu Option 1. Configuration
- Prompt “Select Job Scheduler” and select the appropriate scheduler
- Any references to a Job Scheduler will be based on the OS400/IBM i conventions.

Job Description

The product has been shipped with its own job description named DASDPLUS. You will find it in the default (S4IDP) product library. The default job queue is QBATCH, please modify this setting if your QBATCH subsystem is multithreaded. (If more than one job can run in that subsystem at the same time.)

The DASDPLUS job description will direct all output to the DASDPLUS out queue configured during installation. Please do not modify this setting during the trial process. You will find it in your product library.

Naming Conventions

During the configuration process you will be asked to come up with a single letter character that will allow you to identify a job by its title. All DASD-Plus preconfigured (default) jobs will begin with a capitol “Z”. You will be making copies of these default jobs and replacing the Z character.
Questions to ask yourself before you begin this process:

- How many iSeries machines that will be maintained using DASD-Plus?
- What machine will be the host?
- Do you have an existing naming convention? Example: If you have a product and a test system you might decide to use a "T" to process all jobs that will be run on the test system or test LPAR.

Set Up

OK, let's get started. If you haven't already issue the STRS4IDP command to start DASD-Plus.

DASD-Plus Main Menu

Before we begin, just a little bit about the main menu.

Job Management:

1. Work with job execution manager
   Quick access to pre-configured jobs.

2. Work with active DASD-Plus jobs
   Identifies active DASD-Plus jobs.

3. Work with job history
   Displays post-run information.

Reclaim Disk Space:

5. Reclaim disk space menu
   Menu path to disk reclaim functions

6. Compress and expand menu
   Menu path to disk compression functions

Analyze Disk Space:

8. Work with surveys
   Menu path to pre-defined survey functions

9. Survey reports menu
   Menu path to pre-defined reporting functions

10. Alert Menu
    Menu path to DASD Alert set up & job execution
Configure DASD-Plus Jobs

From the DASD-Plus main menu:
Select menu option 1. “Work with job execution manager”

The job execution manager contains a sample of some of the jobs an administrator may want to run. It also represents a number of predefined jobs available within DASD-Plus. The @Masterlist contains all of the job steps available in the product and we ask that you make no modifications to the subsequent job steps in the list. This list of job steps may be used to troubleshoot by the S4i technical support staff the event of a problem.

Enter a number 3 (to copy) in each of the following jobs:

Z51RCLQUE     Z53RCLFIL     Z55RCLDOC     Z70FULLSYS
Z52RCLLOG     Z54RCLOBJ     Z60CPROBJ     Z70USRLLIBS

Using the naming convention considerations mentioned earlier, replace the Z prefix with your new single character prefix. (Example: ABC Company names their iSeries after great thinkers and philosophers such as Einstein, Plato, Galileo, etc., and will begin using DASD-Plus on “Einstein” therefore, they will replace the “Z” with an “E”. Another option as indicated above is “P” for production system/LPAR, “T” for Test or “De” for Development.)

Enter in option 14 to Run or Schedule each of your newly created jobs.

From the “Run Job” window:

- You will notice "What-if" choice. A *YES value will force this job to run as a simulation of what would actually occur if it were run live. A *NO value would force the job to run live. Any pre-sale product code will ONLY allow a “What-if” scenario. No data in any form will be removed from your system.

- You will also be given the choice to:
  o Submit the Job to Batch immediately with a *YES value
  o Submit the Job to Run interactively with a *NO value
  o Submit the Job to the Job Scheduler with a *SCD value

Select the *SCD value and action the enter key.

From the “Add Job Schedule Entry” Screen:

Schedule all the jobs to run at the same time, preferably during off peak usage.

Jobs _51RCLQUE, _52RCLLOG, _53RCLFIL, _54RCLOBJ, _55RCLDOC, and _60CPROBJ can all be set to run once between now and when you meet with one of our technical representatives.

Job _70FULLSYS should be set to run at least three times such as *MON, *WED, *FRI.

Job _70USERLIBS should be set to run at least twice such as *MON and *FRI.
Select the enter key. You will be prompted for additional parameters. Simply select the defaults by selecting the enter key again.

If you are interested in surveying your IFS directories (recommended) then hit the F12 key until you get back to the product “Main Menu” and select menu option 8 “Work with surveys”. Find the survey entitled “ZIFSDIRS” and put a 3 next to this survey and hit enter to rename it with the same type of prefix you used above. Once you’ve rename it, hit enter to be taken back to the “Work with surveys” screen. Then put a 14 next to your new, renamed survey “_IFSDIRS” to schedule it in the same manner you did above with the other jobs. You can either submit this one to run right now or submit it to run at a specific date and time. It will not interfere with anything else you have on the system and it only needs to be run once.

**Reporting**

The DASD-Plus jobs will generate one report for each job and a report for each job step. Reporting can be selectively pruned at a later time. For purposes of this demonstration full reporting has been configured.

When the jobs have been completed, please review each of the reports thoroughly and write down any questions you may have. The output is located in the DASDPLUS out queue, which can be accessed by issuing the WRKOUTQ OUTQ(S4IDP/DASDPLUS) command. If the jobs were submitted according to these instructions they should appear in the order they were processed.

You should focus on the following key areas:

- The information in the user data column will indicate the associated job/job step.
- The first page of a job step report will present the configuration for that job step.
- Each job step report will list the objects affected by the job step.
- Each job step report will have totals at the end of the report.
- Each job report will create a job history audit listing summary information.

**Customization**

Please read Chapter 3 of the DASD-Plus User’s Guide to customize your own jobs.
Using the information provided by these reports, make the necessary changes to the jobs and job steps to fit your unique environment.

**DASD-Plus CHART**

DASD-Plus CHART is a PC based application that allows users to take the rich information gathered through the endless number and type of surveys that you can run on your system and display the results in a graphical format. **Once the data is gathered through a survey**, users can selectively define how much information and the type of chart the information is displayed. For example, starting with the ZUSERLIBS survey, you can optionally grab all the results and have CHART illustrate all of the libraries or just the largest 15 or only those of a specific user in a three dimensional pie chart or bar chart. See what your growth trend looks like 15, 30 or 360 days out into the future. Save your chart and chart data out to a file to be imported into a presentation or website. Export your survey data and save it in a .csv, .txt or .xml format.

Feel free to install this application on your PC and go through the online tutorial once you have some survey results to apply. If you have not yet run your surveys as defined in the previous section and the number of times required, then hold off on reviewing the tutorial until you have sufficient information. Better yet, let your Account Manager take you through this section when you get together to review the survey results and online reporting. At that time, we will cover the product details and assist you in setting up your own charts during our technical overview.

**DASD Alert**

DASD Alert is a disk spike monitoring and notification application that can be packaged with DASD-Plus or implemented as a standalone product. DASD Alert is very easy to implement, you can have a job set up and running with 10 minutes. The product runs in the background and takes up very little resources on your system. If a spike in disk usage is found the product will initiate a PEX trace, find the root cause of the disk spike and report the results through a system message and/or email notification.

**Installation**

DASD Alert will install as part of your DASD-Plus installation. If you have not already, install DASD-Plus. Refer to Appendix A of the DASD-Plus User’s guide of installation instructions. Installation on the System i will take no more than 15 minutes. *Don’t forget to add your license keys.*

**NOTE:**

*The survey jobs (Z70FULLSYS & Z70USRLIBS) contain job steps that run two very different types of surveys and must be run multiple times in order for the reports to return accurate data. Chapter 4 explains survey types in detail and we will go through this during our technical discussion. The instruction for scheduling these jobs above, if followed, will ensure you have run them enough times to get useful data.*
**Job Description**

The product has been shipped with its own job description named *USRPRF*. You will find it in the default (S4IDP) product library.

**Set Up**

**DASD-Plus Main Menu**

**Job Management:**

1. Work with job execution manager  
   *Quick access to pre-configured jobs.*

2. Work with active DASD-Plus jobs  
   *Identifies active DASD-Plus jobs.*

3. Work with job history  
   *Displays post-run information.*

**Reclaim Disk Space:**

5. Reclaim disk space menu  
   *Menu path to disk reclaim functions*

6. Compress and expand menu  
   *Menu path to disk compression functions*

**Analyze Disk Space:**

8. Work with surveys  
   *Menu path to pre-defined survey functions*

9. Survey reports menu  
   *Menu path to pre-defined reporting functions*

10. Alert Menu  
    *Menu path to DASD Alert set up & job execution*

**Set DASD Alert Attributes**

From the DASD-Plus main menu:

Select menu option 10. “Alert menu”

Go to “Setup” and select option 1, “select attributes”

By default the product has been shipped to generate a number of reports. You do not need to change any of the attributes on this panel and can accept all the defaults by pressing enter.
**Configure DASD Alert**

Next select option 2 “configure”

By default the product has been shipped to monitor all ASPs. Hit enter.

By default the product has been shipped to wake up every 15 seconds to check for spikes. The event trigger that defined what a spike is, is set for any increase in disk growth of 5%. This can be modified to be a lower percentage (recommended on larger systems) or a specific increase in disk space in terms of size such as megabytes (*MEGABYTES, GIGABYTES, etc.*).

Hit enter 3 times to accept all the defaults and return to the menu.

**Configure Mail**

Next select option 3 “configure mail” for email notification of disk spikes.

By default the product has been shipped to send a system message. To also have the system notify you of spikes in disk usage via email you need to configure mail. Start by defining the Mail host, Mail user name and password. List the email address of those who should receive the email notification.

**Run**

It is now time to start the monitoring of disk spikes. Select option 11 “start” and hit enter. Confirm all of the setting you configured earlier by hitting enter two times.

Hit enter one more time to start monitoring.

Congratulations! You are now monitoring for disks in spikes in disk usage. You will be notified if your disk grows 5% or more from where it is today (if you chose all the defaults).

**Reporting/Notification**

Upon email notification you will get the DASD Alert message in the body of the email and the reports will be attached to your email message. System messages will appear in the QSYSOPR message queue and spool file reports will appear in the output queue specified in the user profile that the job is running in.

**Summary**

**Congratulations!** You have successfully established several jobs in DASD-Plus. This Quick-Start guide will provide you with enough information to begin with the product and prepare you for the technical product overview. At the conclusion of that overview you have enough information to make a decision to procure DASD-Plus based on the results of the predefined jobs.

Should you have specific needs that are not addressed in the predefined survey jobs, please let us know. For more information and to schedule time with a member of our technical staff to take you through the product overview to see DASD-Plus’ expansive functionality please contact us at 949-366-5234 or 800-231-5280. We appreciate the opportunity to tell you more!