

Bocada Enterprise 5

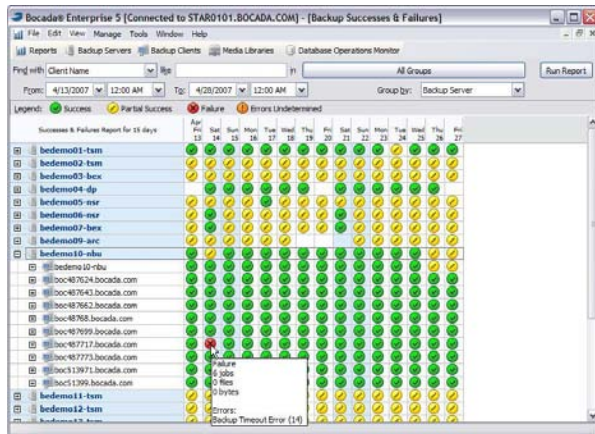
*Operational Excellence for
Data Protection Management*



Reports for Every Phase

The Bocada Enterprise 5 reports are critical in each phase of the P2E and ultimately help organizations achieve operational excellence. Reports can be exported out for simple integration into other reporting programs or can be published out to the web to provide easy access to the information to data owners, executive management or clients.

The **Success and Failure reports** are primary recoverability reports. They highlight failed backups and replicas and systemic problems in easily scanned matrices of backup servers, clients, and targets, allowing users to identify problems and take corrective actions.



The success/failure report clearly reveals patterns of backup failures, and critical applications and servers with vulnerable data. This report can speed and prioritize troubleshooting efforts by providing a summary of the failure cause, and if needed, a drill down to see the original error message generated by the backup application.

Library Residency reports help identify volumes that need to be ejected and shipped offsite to comply with the organization's regulatory and BC/DR policies. You can reduce risk and ensure recoverability by creating an accurate "pull" list for out-of-policy media determining:

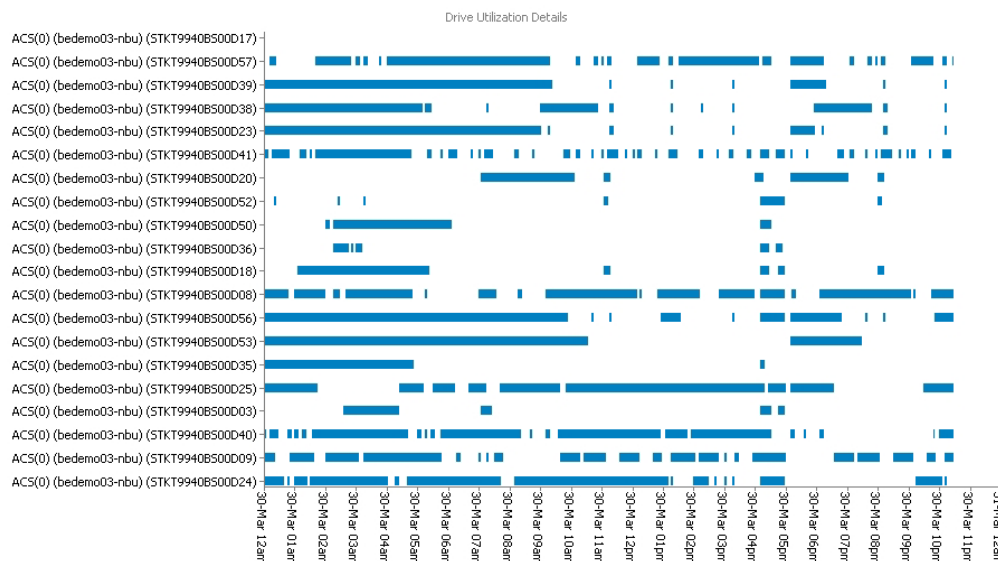
- How long each individual tape has been in the library since the first write
- How long since the first full backup on each tape
- Time elapsed since the tape was filled
- If data is exposed by how long data has been kept in the library since the first backup
- The best tapes to eject if additional capacity is needed

Backup Server	media volume	Days since first write	Days since first full backup	Days since marked as full
bedemo01-nbu	0302054	47		
bedemo02-nbu	0311025	47		
bedemo03-nbu	0305731	47		
bedemo03-nbu	0299335	47		
bedemo03-nbu	0303779	47		
bedemo03-nbu	0295784	47		
bedemo05-nbu	0294905	47		
bedemo05-nbu	0296882	47		
bedemo03-nbu	0308570	47		
bedemo03-nbu	0303076	47		
bedemo03-nbu	0311758	47		
bedemo05-nbu	0274402	47		
bedemo03-nbu	0307088	46	46	
bedemo03-nbu	0299945	46		
bedemo03-nbu	0294770	46		
bedemo03-nbu	0306666	46		
bedemo03-nbu	0296331	46	46	
bedemo03-nbu	0327470	46		
bedemo03-nbu	0311996	46		
bedemo03-nbu	0320375	46		

Tabular Library Residency report shows how long each volume has been in a library since first write, last full backup, or the volume was marked as full

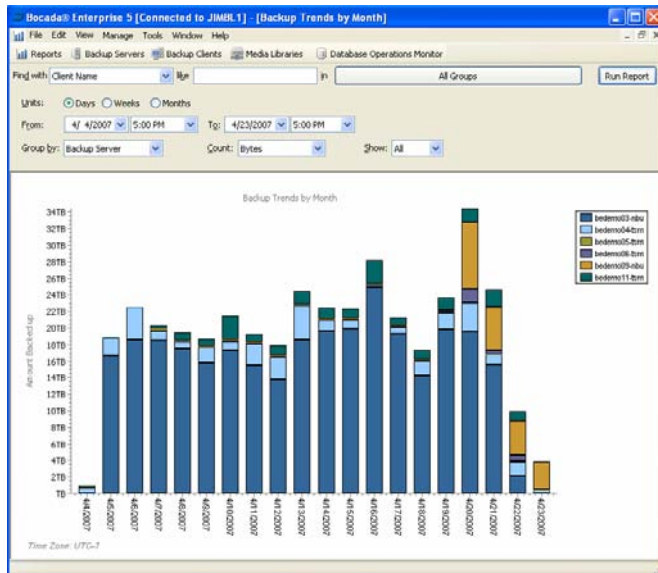
The **Drive Utilization reports** show a high level picture of drive utilization. Use these reports to:

- Assess available drive capacity and identify load balancing opportunities
- Identify unusual activity, such as stuck tapes
- Predict future hardware needs by viewing utilization over time



The Library Drive Utilization Details report can be used to assess available drive capacity. This graph shows that some of the drives are underutilized and may help delay addition capital expenditures

Capacity Planning reports measure the volume and impact of backup activity. Use these to allocate existing backup resources, and to plan for future requirements



Backup Trends reports can show trends by month or week, sorted by many criteria, including department or application, and a dozen more.

Support for leading vendors

Bocada Enterprise 5 consolidates data from all major backup applications, across multiple platforms, in geographically dispersed locations.

- Computer Associates BrightStor® ARCserve®
- Hewlett-Packard OpenView Storage Data Protector (OmniBack)
- IBM® Tivoli Storage Manager
- EMC Legato NetWorker®
- Symantec NetBackup™
- Symantec Backup Exec™

Application Specific Support Modules

- Oracle® RMAN
- StorageTek® ACSLS Manager™

For a complete, up-to-date list, please see:

http://www.bocada.com/products_technical.php

Key Advantages

Agentless design. The unique, all-agentless design scales easily and promotes broad visibility into operations. There is no requirement to install software on individual backup servers, greatly easing installation and maintenance.

Scalability across the largest enterprises. Bocada solutions are currently in use in the largest global enterprises, including dozens of Fortune100 firms supporting thousands of backup servers.

Open database for straightforward integration. The standards-based architecture and open schema ease integration with other applications, such as trouble-ticketing, IT management and business intelligence systems.

Technical Requirements

Hardware Requirements (large environments)

Please note: hardware and operating system requirements will vary with environment size. Recommendations listed here are for large environments.

Recommended for maximum performance

- 4 Xeon processors per server
- 4 GB RAM per server
- Free disk space of 100 GB with redundancy per server with fiber channel
- 4 drives on database server arranged in a RAID 5 configuration
- Video card capable of displaying 1024 x 786 resolution, 16-bit color
- Gigabit Ethernet connection

Operating System and Environment (large environment)

- Windows 2003 Server
- Windows 2000 Server Edition (service pack 4)
- Access to Microsoft SQL Server™ 2000 SP4
- Access to Microsoft SQL Server™ 2005 SP 2
- Apache Tomcat v5.5 running on either Windows or Linux to (to take full advantage of the web reporting functionality)

About Bocada

Founded in 1999, Bocada Inc. pioneered development of software that validates data protection system performance against business goals. Our solution provides objective insight on service level delivery and performance, helping companies reduce their exposure to unrecoverable data, increase the utilization and performance of their infrastructures, reduce the cost of their service delivery, and communicate results. More than 400 enterprise customers and partners worldwide trust Bocada, including Cap Gemini, Ernst & Young, Coca-Cola, Commerzbank, AT&T, Sprint, Unilever, and Xerox.

For more information about Bocada and Bocada Enterprise 5, please contact us, or visit our web site.

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