

Bocada Enterprise 4

*Meet Business Demands for
Data Protection*



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Automate Key Processes to Meet Data Protection Objectives With Bocada® Enterprise 4

Ensuring that business-critical data is protected in the event of a system failure, natural disaster or intrusion is a key challenge for IT departments. It's a task made all the more formidable by dispersed, heterogeneous backup environments, exponential growth of data under management and the fundamental lack of visibility into data protection operations across the enterprise.

Many of the world's largest enterprises have found a solution with Bocada Enterprise 4. The industry's leading data-protection management application delivers a high-level view of data protection activities, and assurance that key data assets are recoverable. You'll also gain insight into operations and resource utilization, driving process improvements that mesh perfectly with broad business and IT objectives: compliance, consolidation, cost control and proactive communications.

Bocada Enterprise 4 automatically gathers data from the leading enterprise backup hardware and software platforms, and consolidates the information into an open, relational database. Drawing from its rich set of standard and customized views, you'll gain a complete view of backup systems and data protection operations enterprise-wide.

Bocada Enterprise 4 leverages proven Bocada BackupReport® technology, and offers:

Support for dispersed, heterogeneous environments.

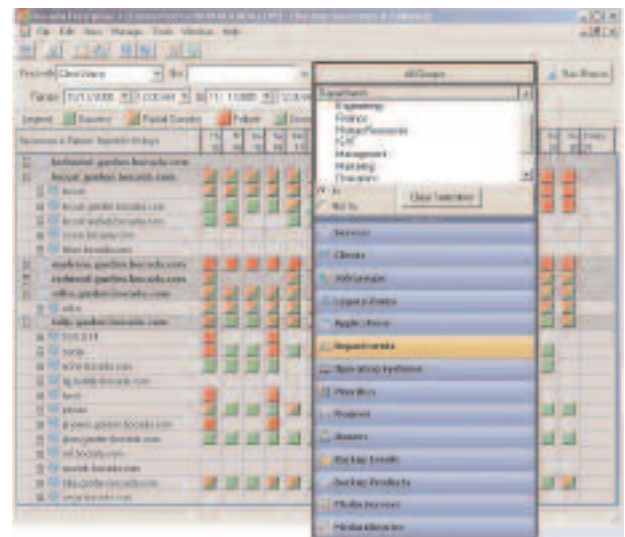
Bocada Enterprise 4 consolidates data from all major backup applications, across multiple platforms, in geographically dispersed locations.

Agentless design. The unique, all-agentless design scales easily and promotes broad visibility into operations. It does not require installation of 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 Fortune 100 firms where they support hundreds 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.



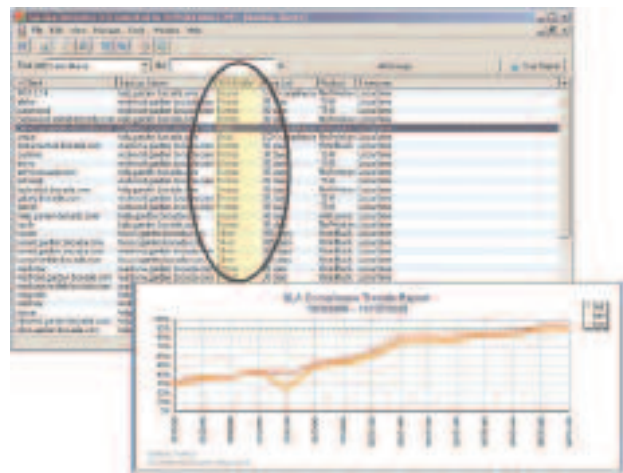
Bocada Enterprise 4 allows you to map assets to logical groupings, such as by business unit, application or location. You can quickly see how data protection efforts correspond to business priorities, and assess the recoverability of the most critical assets.

Reach Your Top-Line Goals Realize Bottom-Line Improvements

Compliance

Bocada® Enterprise 4 quickly compiles the reports IT management needs to prove compliance with regulatory mandates and satisfy internal audits. As a third party that is independent of the backup vendors, Bocada Enterprise 4 delivers the objective evidence that auditors demand. In addition, the solution quantifies service levels and monitors operations, allowing you to implement internal processes and controls.

- Meet audit and regulatory compliance requirements by consolidating, storing and retaining historical, enterprise-wide performance data
- Quickly furnish reports to demonstrate that specific data is protected and recoverable
- Report against Service Level Agreements, with built-in support for standard SLA parameters
- Obtain an instant enterprise-wide view into whether specific policy mandates are being met, through SLAs linked with individual assets
- Immediately uncover non-compliant assets with a powerful, flexible search capability
- Produce reports that show only “out-of-compliance” failures for prioritizing troubleshooting efforts, spotting high-priority chronic failures and focusing on the most business-critical data
- Deliver independent, accurate tracking and validation of results against business objectives
- Understand data recoverability for all asset classes, business units and locations

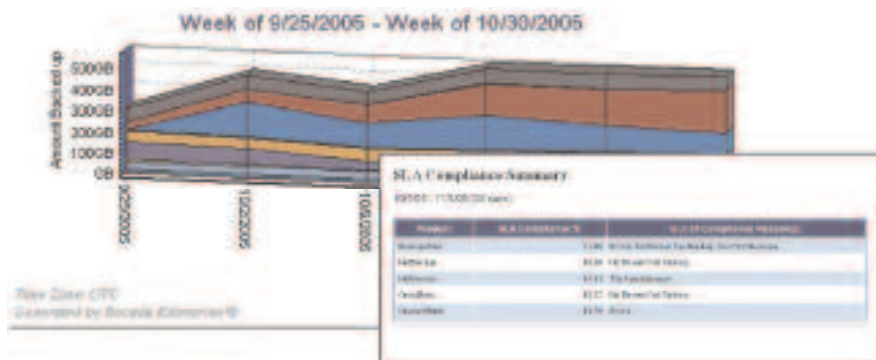


Bocada Enterprise 4 links service-level agreements with specific assets. This capability delivers a global view into whether compliance mandates are being met, across the largest enterprises.

Consolidation

By aggregating operational data from multiple backup applications and delivering it in a standardized format, Bocada Enterprise 4 achieves the simplification and standardization that are the goal of any consolidation effort. The high-level view is strategic as well as operational. It delivers insight that drives further simplification of the total data protection infrastructure, allowing you to do more with fewer resources.

- View activity across multiple backup applications, including Oracle® RMAN, through a common interface
 - Quickly identify underutilized assets, such as idle backup servers or tape libraries that are used to a fraction of their capacity; use them fully and ultimately reduce the number of discrete devices to manage
 - Eliminate redundant and unnecessary processes, such as regular full backups of data that seldom changes
 - Reduce archiving resource requirements by eliminating media that holds expired or useless data
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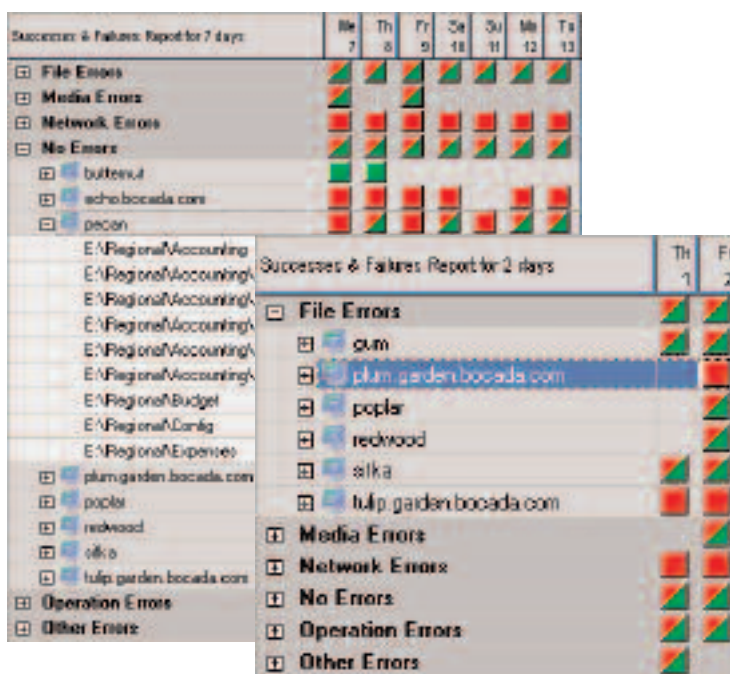
The Bocada® Enterprise 4 consolidation capability aggregates information from Oracle RMAN as well as applications from leading backup vendors, delivering an easily interpreted, high-level view of data protection activity.

- Gain a clear end-to-end view of Oracle® RMAN backup outcomes, including the database and components backed up; capture metrics regardless of the backup methodology; and view reports in the same global context as your other backup operations
- Maximize utilization of libraries through support for StorageTek® ACSLS Manager™
- Replace complex, difficult-to-maintain scripting solutions with a standardized data collection and reporting platform
- Integrate data protection reports into other enterprise IT and business intelligence systems

Cost Control

With Bocada Enterprise 4, you'll automate time-consuming manual processes and eliminate redundant procedures, chronic failures and overprotected data that drain resources. These new efficiencies allow overburdened IT departments to avoid or delay new capital expenditures, while handling the growing volume of data under management.

- Eliminate hours spent manually generating and reviewing reports of backup successes and failures
- Identify assets that are receiving protection that far outstrips business value
- Slash troubleshooting time and mean time to resolution by more easily pinpointing the root cause of backup errors
- Capture detailed utilization and throughput information for network, server and media assets, to optimize utilization and more precisely plan future system and staff requirements
- Furnish chargeback reports that clearly demonstrate the cost of data protection services to each business unit or location; show the true cost of services provided and bring the demand for data protection services in line with data value

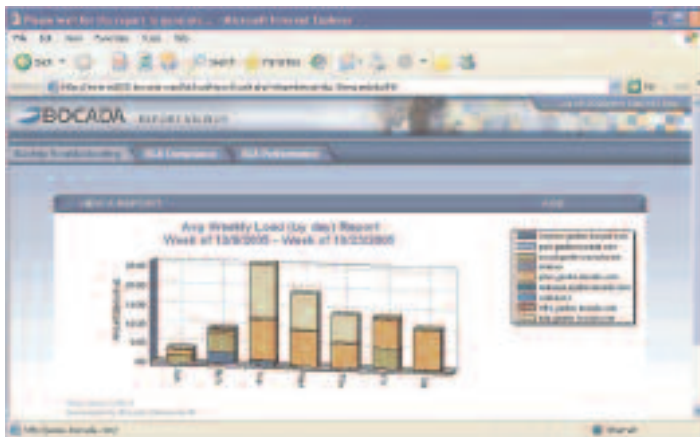


The success/failure report clearly reveals patterns of backup failures, and critical applications and servers with vulnerable data. This report can speed and prioritize troubleshooting efforts by providing a summary of the failure cause, and if needed, a drill down to see the original error message generated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

Communication

With its flexible, automated reporting and role-based publishing, Bocada® Enterprise 4 streamlines communication about data protection activity to stakeholders throughout the organization. Focused communication reassures data owners and key executives that assets are protected. It also moves the IT department from a stance of reactive troubleshooting, to proactively demonstrating the scope and value of services delivered to the organization.

- Automatically distribute the right information to the right internal and external customers at the right time — across the distributed global enterprise
- Customize report content and detail to meet the needs of IT, business units, auditors and executive stake holders
- Enforce role-based security, for individualized “need-to-know” access and control
- Set reporting schedules for automatic publication to the web, or distribution via e-mail
- Use the predefined built-in reports or create any kind of report by directly querying the database using standard reporting tools
- Establish service level agreements with customers, and clearly communicate performance against the stated objectives
- Create custom benchmarks based on common SLA parameters, to meet unique customer requirements
- Run reports, map assets and more from the powerful central Administrative Console



The ability to automatically run reports and schedule distribution lets IT departments furnish proof-of-service delivery and share information based on user roles. Share policy compliance reports with the CFO; SLA reports with the VP of operations and business units; and error troubleshooting reports with the IT staff.

Support for Leading Vendors

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™

Bocada® benefits your entire enterprise

Bocada Enterprise 4 enables relevant, timely communication of backup reliability, cost and compliance to stakeholders across the enterprise.

Better planning for Senior Management

- Demonstrates performance against benchmark policy requirements
- Improves capital efficiency through increased asset utilization and system throughput
- Supports disclosure to shareholders and external regulators on the security of corporate assets
- Documents resource use and future requirements for enterprise-level planning

Audit trail for Compliance Officers

- Provides an auditable record of all current and historical backup activity and shows changes over time
- Delivers objective data on data protection operations, regardless of platforms, OS, or architecture in use
- Substantially reduces the burden associated with measuring and validating policy compliance

Peace of mind for Data Owners

- Confirms data protection is meeting SLA criteria and ensures recoverability
- Objectively documents consumption of data protection services and their corresponding costs
- Identifies unprotected assets and orphaned servers

Complete control for IT and Storage Managers

- Provides a comprehensive view of data protection assets and activity across the enterprise
- Demonstrates performance against SLAs
- Lowers data protection costs substantially by optimizing the performance of staff and existing resources
- Tracks the consumption of backup resources by business unit and allocates costs accordingly
- Enables forecasting of resource requirements for planning and budget justification

Workflow benefits for Backup Administrators

- Eliminates backup log parsing and error collection
- Helps prioritize daily activities around solving problems rather than simply finding them
- Shifts the focus from firefighting to improving the backup environment and developing sound practices around service level objectives
- Eliminates burden of data gathering and report generation for communications to other teams

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

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 180 brand-name customers and partners worldwide trust Bocada, including Amgen, Cap Gemini, Ernst & Young, CocaCola, Commerzbank, Microsoft, SBC, Sprint, Unilever, and Xerox. Bocada is a private company funded by leading Northwest venture investors and headquartered in Bellevue, Washington.

For more information about Bocada and Bocada Enterprise 4, please contact us, or visit our web site.



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