



# What's New in Sun StorageTek™ Business Analytics?

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Release 5.0 SP1

Sun Microsystems, Inc.  
[www.sun.com](http://www.sun.com)

Part No. 819-6248-10  
March 2006, Revision 01

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## INTRODUCTION

Sun Storagetek Business Analytics 5.0 is a major software release with significant enhancements in functionality, which include:

- SMI-S support for storage and tape devices.
- Enhanced Provisioning Wizard functionality.
- Enhanced custom reporting capabilities (Storage Wizard).
- NAS quota reporting.

**Note:** With the acquisition of StorageTek, Sun Microsystems has re-branded and re-named Global Storage Manager (GSM) as Sun StorageTek Analytics, a member of the Enterprise Storage Manager portfolio of software solutions. The functionality of Business Analytics is identical to GSM, only the name has changed.

## SMIS AGENTS

Sun StorageTek Business Analytics provides two new SMIS Agents, the SMIS Array Agent and the SMIS Tape Library Agent. The SMIS Agents extend the devices that Sun StorageTek Business Analytics supports without the need for device-specific agents. In general, SMIS agents and non-SMIS agents collecting information from the same device is not supported.

The SMIS Array Agent collects data from SMI-S compliant CIM Providers, supporting the Array Profile and associated sub profiles, which the Sun Storagetek Business Analytics Support *Matrix* identifies. Similarly, the SMIS Tape Library Agent collects data from SMI-S compliant CIM Providers supporting the Storage Library profile and listed in the Sun StorageTek Business Analytics Support Matrix.

**Note:** Sun StorageTek Business Analytics provides storage management through agent-based and agent-less software agents. These may offer a different range of features that depend on platform, software components, or SMI-S CIM Provider limitations.

## PROVISIONING WIZARD

To dramatically simplify the active provisioning process, the Sun StorageTek Business Analytics 5.0 Provisioning Wizard offers the following significant improvements:

- Extends workflow to include all provisioning steps including active provisioning, which is accomplished using a third party tool.
- Allows you to view your last five saved storage reservations.
- Identifies the actual RAID data protection instead of displaying a high, medium, or low designation.
- Provides report links to array and switch performance reports and port configuration reports.
- Allows you to generate a report that is selectable by host and date range showing all storage reserved for that host.

## STORAGE DISCREPANCY REPORT

The Storage Discrepancy Report (SDR) identifies storage that appears to be allocated but, in reality, may not be usable. This storage can typically be reclaimed for other uses. Identifying storage discrepancies can provide tremendous cost savings.

To improve usability, Sun StorageTek Business Analytics provides a redesigned Storage Discrepancy Report. The Storage Discrepancy Report contains the following items:

- **Storage Discrepancies Table** – Shows the host name, allocated capacity (possibly multiple arrays), and physical capacity of all **remote devices**.  
**Important Note:** **Local devices** are not included in any calculation related to a possible storage discrepancy in the Sun StorageTek Business Analytics 5.0 SDR.
- **Storage Discrepancy Details Report** – Uses the end-to-end mapping information that the Sun StorageTek Business Analytics Host Agent collects to separate volumes allocated to this server into two groups:
  - Volumes in use
  - Volumes not in use (discrepancies)

This section contains guidelines to remedy the condition where storage volumes have been allocated to a server do not appear to be visible to that server.

**Note:** The GSM 3.8 Host Agent does not collect end-to-end mapping information and, therefore, hosts running this version of the Host Agent will not be included in the report.

**Orphaned Storage Report** – Helps to identify “orphaned” storage resulting from invalid or out dated allocation records in the LUN security database or the storage is not allocated to any WWN.

## ENHANCED NAS FUNCTIONALITY

The Storability NetApp Agent provides the following new features:

- **Hard and Soft Quota Support** – The Sun StorageTek Business Analytics Network Appliance (NetApp Agent) now collect data for reporting on activated hard and soft quotas. Quotas are designed to restrict user’s consumption of file system resources. Sun StorageTek Business Analytics provides a standalone NAS Quotas report and a Quotas tab on the Detailed NAS Configuration tabular report. You can generate a report on hard quotas or soft quotas displayed for user, group, or directory level.
- **NetApp Data OnTap Aggregate Functionality** – The NetApp Agent LVM reports support the new Data Ontap Aggregate functionality. As a result, you can monitor Aggregate and flexible volumes within the Sun StorageTek Business Analytics NAS reports. The Aggregate is a new storage virtualization method that enables collectively representing groups of raid disks as a single storage pool. The storage virtualization enables volumes to grow or decrease in size as needed.
- **NAS Filesystem Overview** – This new dashboard pane provides high level information on the utilization of filesystems.
- **NAS Filesystem Asset** – The asset view functionality has been enhanced with a new asset, NAS Filesystem. This allows you limit reporting to specific filesystems.

## STORAGE WIZARD

The Storage Wizard facilitates ad-hoc reporting on storage assets. This reporting wizard provides a similar user interface and functionality to that of reporting wizards in previous software releases, such as the Backup reporting wizards. Sun StorageTek Business Analytics incorporates a database extract, transformation, and load process for the tables in the array domain.

The Storage Wizard functionality is based on the new Extract, Transform, and Load (ETL) process. Refer to the Policy Alerting section of the Administration manual for additional information on the ETL process.

## **END-TO-END MAPPING (ETE)**

ETE support has been enhanced to support the Symmetrix DMX and Clariion CX Series arrays. ETE Mapping refers to our ability to collect information along the complete data path, including the following devices and software:

- Host
- Host operating system
- Multipathing software
- SAN device

## **SCHEDULE REPORTS**

The Report Wizards (e.g., File Level Wizard) provide a Schedule button. The Schedule function works on Saved Reports only.

## **VMWARE INSTALLATION**

The Sun StorageTek Business Analytics Central Manager and Management Console may be installed on a VMWare instance. The hardware requirements are described in the latest version of the Sun StorageTek Business Analytics Infrastructure Planning Guide.

## **HOST AGENT AND SRM AGENT FOR SOLARIS 10**

Both the Host Agent and SRM Agent are supported on Solaris 10.