

Heterogeneous storage management suites

<i>Vendor</i>	<i>SMI-S support</i>	<i>Discovery</i>	<i>Topology management/ Visualization</i>	<i>Health and performance monitoring</i>	<i>Reporting</i>	<i>Storage provisioning</i>	<i>Device/ Element management</i>	<i>Change management</i>	<i>Modeling</i>	<i>Backup reporting</i>
AdventNet Inc. ManageEngine OpStor	N/A	SNMP, CLI and device-specific APIs	Hierarchical device map is constructed automatically with drilldown to device details	Health monitoring of storage devices, including fabric switch ports, arrays, disk/volume, library and drive states; performance engine collects data storage device KPIs	Reports on the entire storage infrastructure	Enables storage provisioning by launching device managers from OpStor Web client	Device-specific inventory modeling is captured and monitored on a regular basis	N/A	N/A	N/A
Computer Associates International Inc. BrightStor Storage Management Suite r115	SMI-S 1.0.2	Through BrightStor SAN Manager via SMI-S and/or vendor APIs	Visualization of all SAN components	All SAN components	Business analytics	Secure provisioning through BrightStor SAN Manager	Via SMI-S and/or vendor APIs	Via BrightStor SAN Designer; includes update feature	"What-if" analysis via BrightStor SAN Designer, using Microsoft Visio interface	Multivendor backup reporting via BrightStor SRM
EMC Corp. ControlCenter	SMI-S 1.0.2	Via SMI-S and/or vendor APIs by all ControlCenter modules	Visualization of the full logical and physical path via ControlCenter SAN Manager, including CAS, DAS and NAS devices	Health by any ControlCenter module; performance via ControlCenter Performance Manager	Via ControlCenter StorageScope, includes capacity, utilization, capacity planning and asset inventory	Enabled manually by ControlCenter SAN Manager and provides zoning, mapping, masking, binding and host operations	ControlCenter leverages the element managers in the environment	Enabled by ControlCenter SAN Advisor for physical changes in the environment	Enabled by ControlCenter SAN Advisor for physical changes in the environment	Optional StorageScope license for reporting on Tivoli, EDM, Legato and Symantec/ Veritas
Hewlett-Packard Co. Storage Essentials	SMI-S 1.0.2	Via SMI-S and/or vendor APIs by all Storage Essentials modules	End-to-end view of all storage elements via System Explorer; hot-linked elements for instantaneous drilldown to device details; ability to view storage topology from an application's perspective	Real-time events and historical trends	Java reporting tool with 200-plus out-of-the-box reports; optional charge-back module for business analytics	Wizard-based and interactive provisioning, including zoning, mapping, masking, binding and host operations	Third-party link and launch features	Logging of all events; what-changed reports and risk analysis advisors	"What-if" analysis	Storage Essentials Backup Manager for Symantec NetBackup and HP Data Protector
IBM Corp. TotalStorage Productivity Center (TPC)	SMI-S 1.0.2	Combination of SMI-S, CIM and SNMP interfaces, as well as vendor device APIs	Navigable graphical view of servers, SANs and storage	Extensive health and performance monitoring	300 predefined reports; ability to create custom reports	Provision storage on IBM and SMI-S-compliant storage	LUN creation and manipulation, and ability to launch element managers	Logging of changes	Model automatic storage provisioning with "What-if" analysis	Reports on files that need to be backed up
Symantec Corp. CommandCentral	SMI-S 1.0.2	Combination of SMI-S, CIM and SNMP interfaces, as well as vendor device APIs	Topological view is available from a global level, as well as filtered views by objects	Policy-based monitoring	Extensive reports on all storage aspects, including forecasting, budgeting and capacity planning	End-to-end storage provisioning	Switch management, including zone creation and changes	Logs all changes and events	N/A	Multivendor backup reporting via universal remote agents