



A simple, clear, and accurate tool for optimizing your NetApp unified storage performance.

### SOLUTION OVERVIEW

Profiler for Network Appliance is an intuitive, highly scalable, web-based application that brings efficiency, risk mitigation, and performance optimization to your NetApp infrastructure. Real-time monitoring coupled with historical trend analysis enables organizations to proactively manage storage growth and avoid costly outages.

Profiler provides comprehensive support for Network Appliance Storage Systems. Adding flexibility and in-depth reporting and analysis not available in native tools, Profiler covers the NAS, SAN, and data protection aspects of any NetApp environment.

### UNMATCHED VISIBILITY

With highly customizable views and powerful, automated reporting, Profiler gets the right data into the right hands throughout your organization. Whether you are invested in a single filer or in hundreds, the simplicity and scalability of Profiler's thin-client technology is fundamental to realizing the most efficient TCO for your NetApp investments via these key features:

- Unified Storage** - Profiler provides visibility into both SAN and NAS storage configurations to help understand overheads, storage growth rates, and compare block and network traffic.
- Enterprise Views** - Profiler provides visibility into how logical and physical storage and data are presented by storage tier, business unit, data center, location, or other logical group using flexible grouping of volumes, qtrees, LUNs, and directories.
- Data Protection** - Trend and monitor all snapshot-based activity (SnapMirror and SnapVault) with customizable lag time alerts.

- Policy-Based Alerts** - With Profiler, users can generate alerts on status and usage thresholds of storage, performance, and data protection. Profiler's centralized policy-based alert management allows consistent and flexible monitoring whether it's a few, or a few hundred filers. Its ability to set multiple threshold conditions for a single object allows for the escalation of alerts.
- Thin Provisioning** - Profiler monitors and reports on true capacity and utilization levels, in real time and historically, and exposes any risks involved with thin provisioning procedures.
- Data Classification/SRM** - Profiler enables users to classify and drill between file age, ownership, and file type views of data for both CIFS and NFS environments. Active management features allow users to identify, move, copy, or delete files and directories via a priori or ad hoc rules.

### COMPREHENSIVE VIEWS

Profiler enables a single end-to-end view of the NetApp SAN all the way from the LUNs to the initiators, covering both iSCSI and Fibre Channel SANs in a single report. The only other way to achieve this view of the SAN is by going through the difficult process of manually extracting and collating data out of the filer using spreadsheets.

### UNPARALLELED FLEXIBILITY

Profiler for NetApp offers a number of off-the-shelf reports, saving administrators hours each month building reports from scratch. Reports can be easily customized using a report wizard. From any supported Web browser, operators and administrators can view status or run configuration and performance reports to maximize the efficiency of their investment in Network Appliance systems.

## GAIN VISIBILITY WITH PROFILER

Profiler's NetApp module offers device consoles (with drill-down capability), data classification, automated usage trend reporting, capacity planning, and real time monitoring. These capabilities assist IT organizations in reducing operational expenses, maximizing storage investment, and lowering TCO.

### ADDITIONAL FEATURES

#### Automated Storage Capacity Trending & Forecasting

- Volume, qtree, Vfiler trends
- NAS Share (CIFS, NFS) trends
- LUN Masking

#### Data Protection

- SnapShot, SnapMirror and SnapVault trends
- NDMP back up success and failure trends

#### Automated SRM (Data Classification) Functions

- Policy-based file detection
- File distribution by file type, owner, modified accessed age
- Duplicate and orphaned file detection

#### Automated Configuration Discovery

- ONTAP version and patch level configurations
- Volume Options
- Qtree, SnapShot, SnapMirror, SnapVault configs
- Configuration change discovery
- CIFS and NFS Share configuration discovery

#### Automated Performance Capacity Trending

- Host level performance counter trends
- Protocol-level performance trends
- LUN Performance
- iSCSI Performance
- Traffic load analysis for mixed protocol systems

#### Automated Report Generation & Delivery

- Over 100 "off-the-shelf" reports
- Quick & easy control of custom report generation
- Detailed and configurable report delivery mechanism

### THE PROFILER SUITE

Tek-Tools Profiler provides visibility into your physical and virtual environments. Increase the value to your organization by including an add-on Profiler module to interrogate your data from applications, through the server, to the array.

- Map your NetApp storage to your backup activity with BackupProfiler
- Monitor and report on NetApp attached hosts with ServerProfiler
- Analyze your applications performance and growth with AppProfiler

### WITH CLARITY COMES CONTROL

### Technical Specifications

#### Server Requirements

Sun Solaris  
Microsoft Windows 2000/2003 Server or Professional  
Memory: 1 GB  
Disk Space: 1 GB  
Console: Internet Explorer, Netscape/Mozilla, Firefox

#### Support For:

Network Appliance Storage Systems

### For More Information

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For more information, or to download a free, detailed reference guide to Profiler for NetApp, please visit:

<http://www.tek-tools.com/jsp/netapp.jsp>