

SNAZ OS v4.02

Product Release Notes

Release Details

Release Name:	SNAZ 4.02.17
Release Note Number:	RNote116
Release Version:	4.02.17
Release Date:	30th August 2006
Release Type:	FULL - New hardware support
Supported Platforms:	SNAZ S4-400, SNAZ S12-400 SNAZ-S4-350, SNAZ-S8-350
Documentation Versions:	S-350 Quick Start - 97707758 Rev B S-400 Quick Start - RTS05362-A1 S-350 / S-400 User Guide - 97707987 Rev B
Release Summary:	2006 SNAZ OS v4.02 Full Release
Build Number	7177

Product Enhancements and Bug Fixes

New Feature / Enhancement:	Description / Benefit:
OS support for new SNAZ family including S4-400 and S12-400.	Supports new S4-400 and S12-400 with <ul style="list-style-type: none">• faster Pentium4 3.4GHz processor• increased range of storage capacities• optional 2nd dual Gigabit Ethernet NICs supported..
Strongly recommended SNAZ OS Upgrade for field population of SNAZ S4-350 and S8-350.	<ul style="list-style-type: none">• improved clarity in SNAZ Manager by placing System on a separate tab to the User Data RAIDs & Volumes• improved display speed in SNAZ Manager for RAID and Volume pages• Optional 2nd dual Gigabit Ethernet NIC (Intel PRO/1000 MT) is now supported in S8-350.• Update Backup Utility – details below.• Numerous minor operational and cosmetic bugs resolved
Update to SNAZ Backup Utility	S-350 backup utility is updated from NetVault v7.1 to NetVault v7.4.0. Note: It is essential to also update the associated NetVault Remote Management Console PC to NetVault v7.4 or v7.4.2.
SNAZ S-400 is a BakBone NetVault Backup Server	S-400 includes NetVault v7.4 Workgroup Backup Server. This supports up to 5 client servers (Windows or Unix) to a wide range of Tape Automation devices with up to 4 tape drives and 12 slots. Also includes 100GB Virtual Tape Library for disk-to-disk-to-tape backup staging. NetVault capability may be extended by purchasing standard BakBone NetVault add-ons.



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Significant Fixes :	
Server auto power down. (Bug 4868)	S-350 and S-400 servers now power down automatically when Shutdown is instructed.
Occasional corruption of very large files (>50GB) under NFS is resolved. (Bug 8711)	Changed NFS Connection default setting from Async to Synchronous.
SNAZ Manager: empty SATA disk drive bay.rescan improved (Bug 8548)	Empty SATA bays are now identified on the Devices page with an "Off-line Icon"
Improved volume diagnostic and repair (Bug 7387)	On power-up, System Volume errors (which may result from "dirty shutdown") are automatically diagnosed and repaired and the SNAZ boots into Normal mode..
Improved handling of SATA disks rejected from a RAID for soft errors (Bug 6641)	Failed disk is automatically replaced by the hot spare (provided one is designated). The failed disk is automatically reformatted and re-designated hot spare for up to 3x cycles or as set under SYSTEM – STORAGE – STORAGE RECYCLING LIMIT.
Facility to enable >1.5GB NetVault Server Database. (Bug 7015).	New SNAZ Manager SYSTEM - SERVICES – BACKUP (DATABASE) page enables easy designation of a new location on a data volume with plenty of space for NetVault Server Database growth..

Product Capabilities - (*Capabilities Unchanged from v4.00*)
Known Issues and Product Notes

Capabilities	Details:
2TB	SNAZ v4 supports Logical Volumes up to 2TB. Multiple 2TB volumes are supported. Extended addressing to support volumes up to 16TB will be released in a future enhancement.
RAID Support	RAID-5 is a typical configuration with RAID-0 and RAID-1 also available. RAID-10 is supported for legacy systems only.
Max number of Shares	Combination of up to 40x NFS, CIFS/SMB, FTP shares. Folders may only be shared once.
Max number of concurrent connections	NFS and/or CIFS up to total of 200 concurrent connections.
Max Active-Directory User population	10,000 users
Max Local SNAZ-managed User population	1,000 users
Max number of groups	100 groups
Max number of file system objects	Verified up to 60 million objects
Max file size	Verified up to 10GB files.



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Known Issues:	Details and Workaround:
SNAZ Manager Dropdown Lists Tool Tips may be partially hidden behind other elements	When using IE6 to access certain SNAZ Manager screens, a very small number of Drop-down-lists and Tool Tips may be partially hidden behind other elements of the GUI page. This is a recognised MS Internet Explorer limitation/bug. We anticipate that this will probably be resolved in the next major release of Microsoft Internet Explorer. It does not occur in other browsers such as Firefox.
NFS Access is slow from Windows	Although UNIX / Linux files in a NFS share may be accessed by Windows clients, the access is at a modest speed. This is primarily constrained by the slow speed of the client's Windows Services for Unix (SFU) rather than the NAS system. We recommend that Windows file sharing is primarily provided by CIFS /SMB shares to achieve maximum speed.
NFS Share name in Windows XP	A feature of Windows Services for Unix (SFU) is to display the SNAZ Machine Name as a Share name when connecting to NFS Shares.
No Access to Child Domain Users	<p>To access a user list from a different domain, the other domain must have the Restrict Anonymous setting turned off.</p> <p>Find the registry key HKLM\SYSTEM\CurrentControlSet\Control\Lsa</p> <p>Add the following DWORD key RestrictAnonymous and set it to 0</p> <p>Search for "Restrict Anonymous" on the Microsoft website for more information about this registry setting.</p>
Unable to delete failed independent RAIDs	Each disk drive in a RAID contains information about the RAID. If a disk is taken "off-line" for any reason, and while the disk is "off-line" you delete the RAID, the information about the RAID still remains on the disk(s) that were off-line at the time of the deletion. If those disk(s) then come back "on-line", then the RAID information they still contain is shown as independent RAIDs. These RAIDs can be removed by clicking the delete button on the RAID's details screen for each RAID.
NetVault Database	<p>The NetVault database shares a volume with the System files, which is limited to 1.5GB.</p> <p>Based on running a daily backup of 100,000 files and 2,000 directories, the NetVault database could be 2-3GB after 12 months.</p> <p>It is therefore important to specify a limited Backup Life so that the NetVault database is kept to a manageable size. If the database runs out of space then backups will fail to run.</p> <p>If the NetVault database does need to grow beyond 1GB, then the NetVault database can be moved to a more spacious location - See User Guide under Services – Backup – Moving the backup database.</p>
Back-up of ACL's	The backup of file system ACLs is not currently supported and the Administrator is required to reset the ACLs on restored files. Contact Plasmon Support for further details and possible "work-around".
Missing Data Volumes	If the data volumes do not appear after bootup, a reboot is recommended. No data is lost.



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Supported Hardware

Hardware	Description
SNAZ Systems	SNAZ S4-400 and SNAZ 12-400 – factory installed
	SNAZ S4-350 and SNAZ 8-350 – field update
	Field upgrade for field SNAZ units such as S4 and S8 with OS v3.1 is not available at this time.
SNAZ Motherboards	SuperMicro motherboard with Pentium4 3.4GHz and at least 512MB cache
	SuperMicro motherboard with Xeon 2.4GHz and at least 512MB cache
Flash Drive required for OS	SimpleTech 128MB IDE Flash Drive
Disk Drive Controllers	
SATA Controller	Marvell Technology Group SATA I and SATA II PCI-x disk drive controllers
SCSI controllers	
On-board SCSI connection for Tape	Adaptec U320 (not suitable for SNAZ Expansion)
S12-400's Expansion unit SCSI HBA	LSI Logic LSI2320-R SCSI lo-profile PCI-x HBA
S8-350's Expansion unit SCSI HBA	LSI Logic LSI-U320 SCSI PCI-x HBA
Additional Gigabit Ethernet NIC	
S12-400 dual Gigabit Ethernet card	Intel Pro/1000 PT low profile PCI-Express Silicom PEG2i low profile PCI-Express
S8-350 dual Gigabit Ethernet card	Intell Pro/1000 MT PCI-x
Supported Disk Drives with OS v4.02.17	Disk Drive Vendor Model Number
250GB Hitachi SATA	HDS722525VLSA80
250GB Hitachi SATA	HDT722525DLA380
250GB Hitachi SATA	HDT22525DLA380
250GB Maxtor SATA	7Y250M0
250GB Maxtor SATA	7L250S0
250GB Maxtor SATA	6V250F0
250GB Maxtor SATA	7L250S00565RA
250GB Seagate SATA	ST3250823AS
250GB Seagate SATA	ST3250824AS
400GB Hitachi SATA	HDS724040KLSA80
400GB Seagate SATA	ST3400832AS
500GB Hitachi SATA	HDS725050KLA360
Note: Seagate 500G SATA ST3500641AS is not currently supported.	

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