

Make yourself comfortable.  
Play it safe.



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# **Boost security while reducing administration time and costs**

**Andreas Lutz**  
**Account Manager EMEA**



*NonStop Solutions by comForte:  
The Natural Choice*



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## Agenda

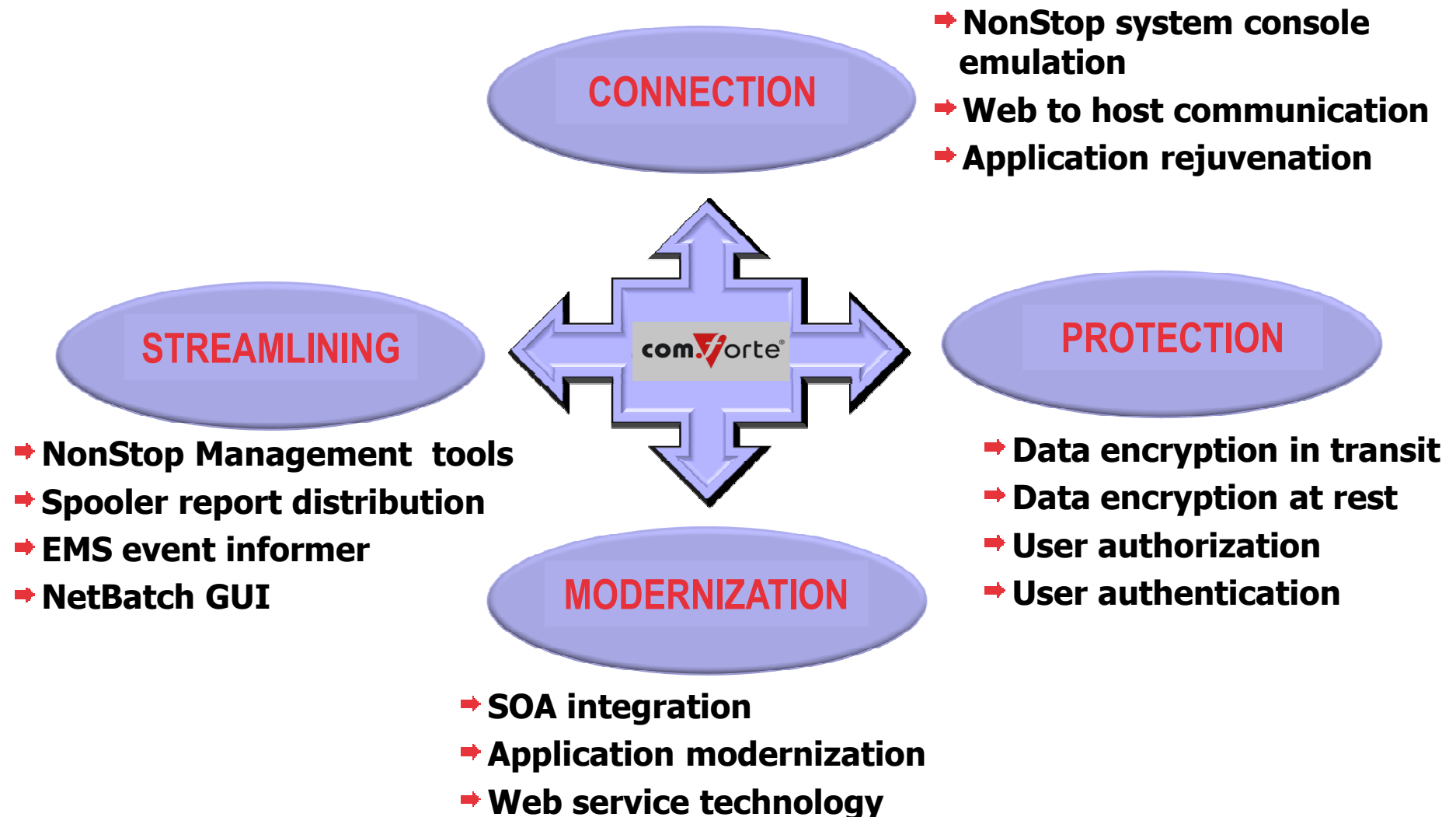
- ➔ Protect Your Business
- ➔ Solutions Overview
- ➔ Product Highlights

## Protect Your Business – Secure Your NonStop Systems

### Challenges and Drivers

- ➔ Organizations around the world entrust their business-critical application with NonStop systems
- ➔ Increasingly, organizations come under pressure to prevent and avoid attacks on their systems
- ➔ Access to data and applications needs to be secure in order to enable and protect your business.
- ➔ Regulatory compliance (PCI, SOX, ...) is an ongoing exercise and is a (sunk) cost to the business
- ➔ User productivity needs to be improved by using modern and strategic administration tools.

## Solution Overview



## comForte Product Highlights

**\*New \*  
SecurSSO**

- Integrating Active Directory with HP NonStop for true Single Sign-on

**\*New\*  
SecurTN/3270**

- support of 3270 emulation protocol

**SafePoint  
Alarms**

- Real-time alerting and monitoring

**TOP**

- The Operations Pack for NonStop Administration

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## How many passwords do you use ?

### ➔ How many different passwords?

### ➔ How strong?

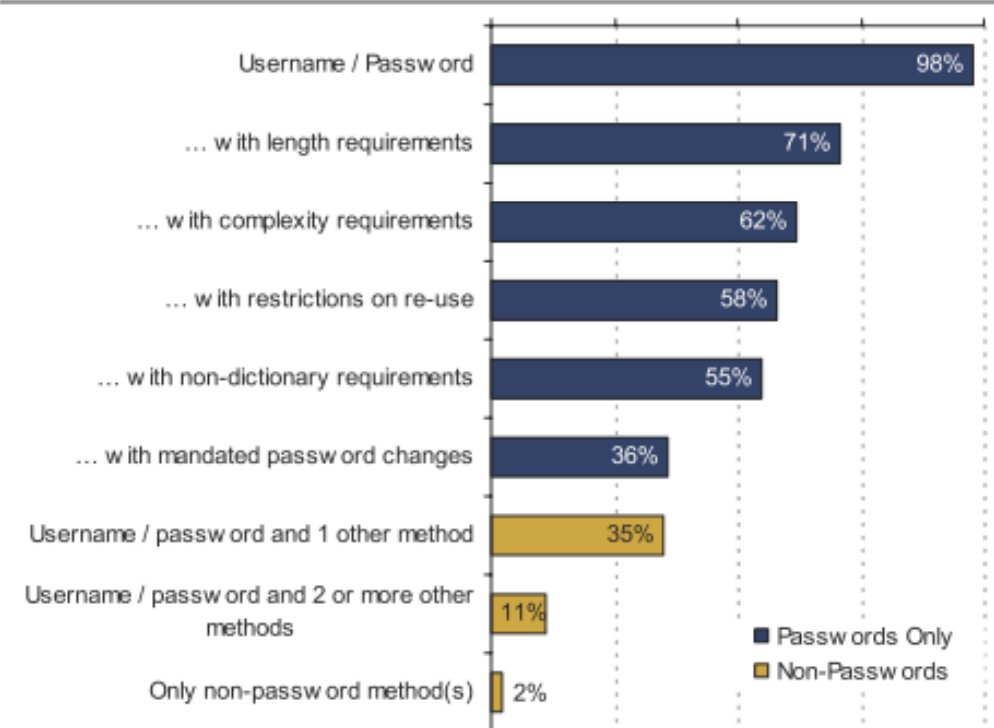
- ➔ Length requirements
- ➔ Complexity requirements
- ➔ Change requirements
- ➔ Tokens ?

#### Fast Facts

Recent Aberdeen research on user authentication and credential lifecycle management showed that:

- ✓ 88% of all enterprise users have multiple work-related passwords
- ✓ The average number of work-related passwords is between five and six

Figure 1: Current Password Practices (all respondents)

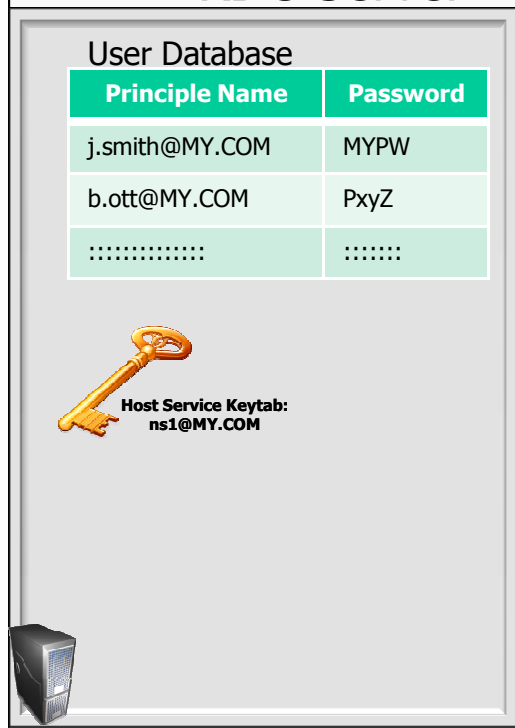


Source: Aberdeen Group, March 2008

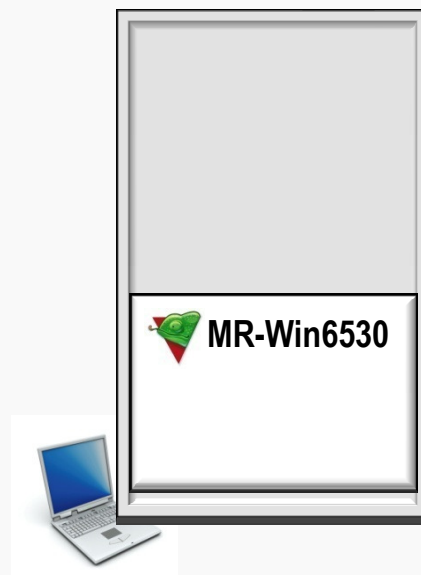
# SecurSSO: Installation and Configuration

1. Install and configure SecurSSO on the NonStop server.
2. Export a Kerberos Host Service Keytab for the NonStop server from Active Directory.
3. Configure the Active Directory user on the NonStop
4. Install a Kerberos GSS-API compliant emulator on the PC.

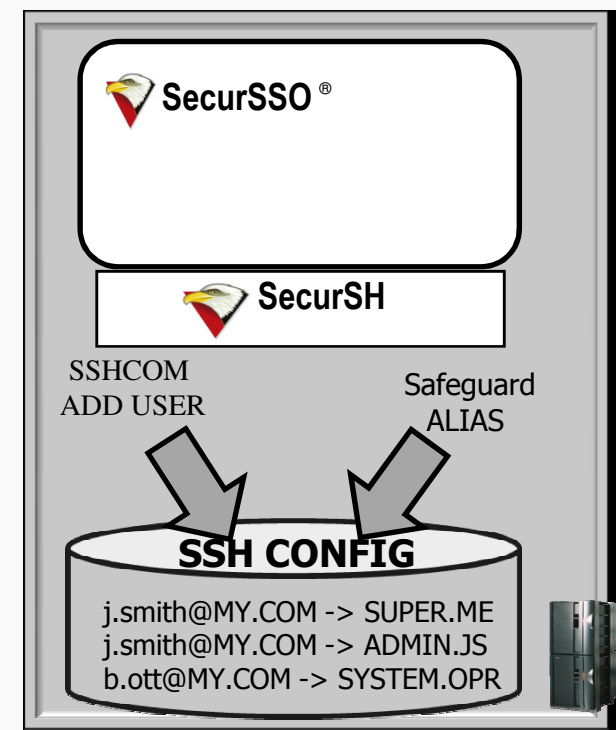
## AD (Active Directory) KDC Server



Pclient:  
j.smith@MY.COM



## NonStop System: Pservice: ns1@MY.COM

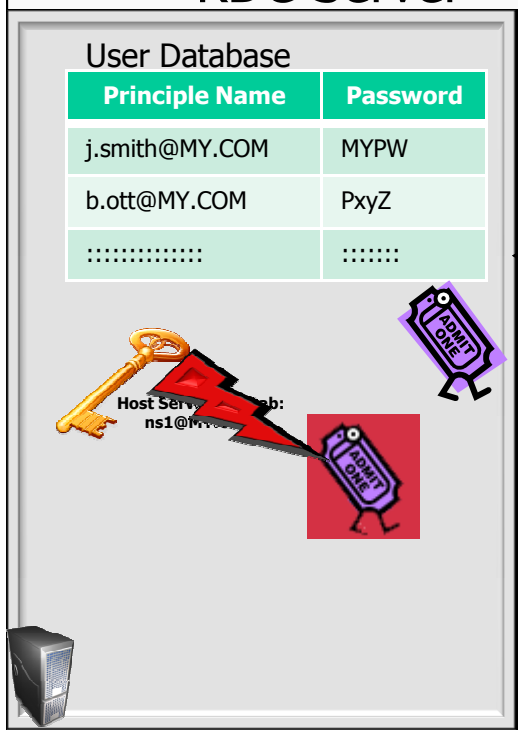




# SecurSSO: How it Works for End Users

1. User logs onto Windows (as normal) using AD. AD authenticates the user and returns an TGT (Ticket Granting Ticket – the Initial Kerberos Ticket).
2. Start the SSH client (e.g., MR-Win6530) which requests a TGS (Kerberos Service Ticket) for the NonStop server from the KDC.
3. The KDC encrypts a TGS with the host keytab and returns to the client.
4. SSH client passes the TGS to SecurSSO on the NonStop. SecurSSO decrypts the TGS (using the host keytab), maps the Principle-Client to the NonStop user name, and Logon to NonStop without being prompted for user name and password

## AD (Active Directory) KDC Server



Pclient:  
j.smith@MY.COM

Logon

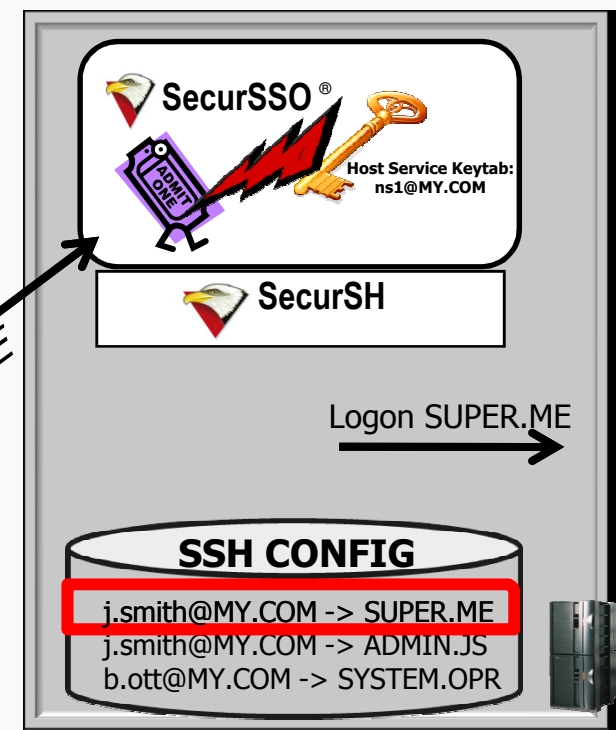
Username/PW

Get TGS



Logon to NonStop  
SUPER.ME

## NonStop System: Pservice: ns1@MY.COM



## NEW: SecurSSO

- ➔ Kerberos implementation
- ➔ Integrates NonStop Servers with Microsoft Active Directory, creating a true Single-Sign-On solution
- ➔ Enhances security and compliance as Active Directory password policies and access control are enforced for NonStop logons.
- ➔ Leverages any strong authentication infrastructure that already exists for Windows, such as Smart Cards or One Time Passwords
- ➔ Supports users with multiple Guardian IDs
- ➔ Reduces password management burdens on users and support organizations.
- ➔ Recorded SecurSSO Webinar at [www.comforte.com/secursso](http://www.comforte.com/secursso)

## comForte Product Highlights

**\*New \***  
**SecurSSO**

- Integrating Active Directory with HP NonStop for true Single Sign-on

**\*New\***  
**SecurTN/3270**

- support of 3270 emulation protocol

**SafePoint  
Alarms**

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## NEW: SecurTN/3270

- ➔ SecurTN fully replaces TELSERV on the NonStop system and provides SSL encryption for telnet connections to the HP NonStop Systems.
- ➔ SecurTN/3270 is extension to SecurTN in order to support 3270 emulation protocol (Optional feature)
- ➔ Conveniently connect to 3270 telnet servers
- ➔ Ideal for customers who want to replace existing 3270 Telnet Server products

## NEW 3270-TCP/IP solution: comForte SecurTN/3270

### *New player in town for 3270 connectivity over TCP/IP network*

#### ➔ What is SecurTN/3270?

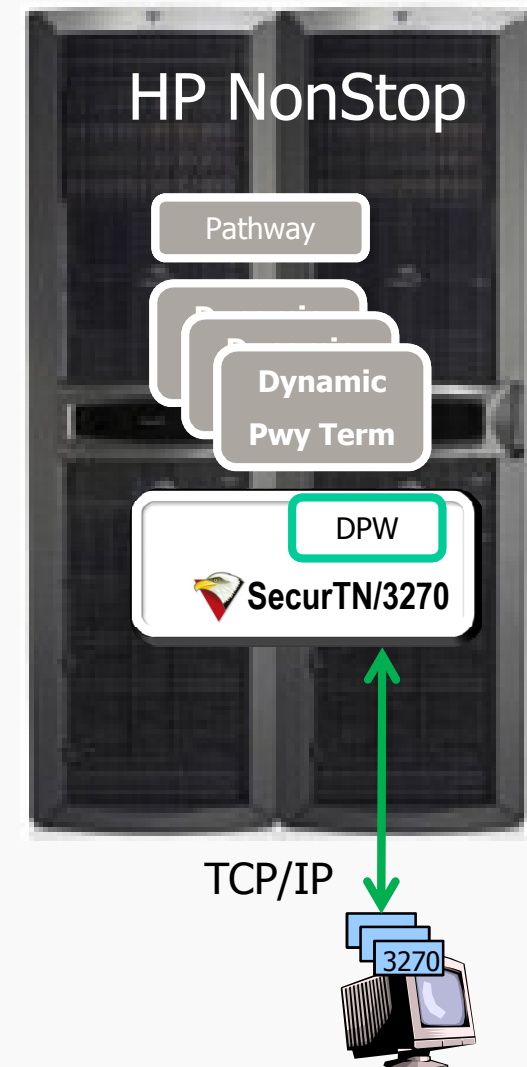
- ➔ SecurTN/3270 provides high capacity 3270 connections for HP NonStop Pathway over TCPIP protocol
- ➔ Straight replacement for HP TN3270 or ICE TNSERVER

#### ➔ SecurTN/3270 Features

- ➔ Dynamically adds Pathway terms
- ➔ SSL encryption
- ➔ Supports a broad range of 3270 emulators (e.g., Attachmate, Rumba, MR-Win6530, ...)

#### ➔ SecurTN/3270 product history

- ➔ SecurTN with 6530 support in production for many years
- ➔ comForte saw need for 3270 support and dynamic Pathway management
- ➔ Available for testing/purchase immediately



## SecurTN/3270 Benefits

### ➔ **SecurTN/3270 Benefits**

- ➔ Load balancing of 3270 connections to Pathway terms.
- ➔ Conformance with security regulation (e.g., PCI).
- ➔ High capacity: supports an extensive network (e.g., >50K sessions)
- ➔ Improved audit log capability
- ➔ Granular firewall rules which enable restriction based on application access
- ➔ Simple configuration with robust operation
- ➔ Competitively priced

## comForte Product Highlights

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## SafePoint Reports

### ➔ **What are SafePoint reports?**

- ➔ Easy access to Safeguard, OSS, & BOSS audit reporting.
- ➔ Provides clear Safeguard ACL and user reports.

### ➔ **Key Features . . .**

- ➔ Three interfaces: GUI, TACL, and batch.
- ➔ Provides merged audit reports across your entire NonStop network.
- ➔ Intelligent reports, not just formatted audit field dumps.
- ➔ Satisfies all PCI requirements for HP NonStop audit reporting
- ➔ Proven reliable track record (15+ years)



## SafePoint Reporting - What's it look like?

**SafePoint Reports**

File Edit Options Objecttypes Commands Window Help

Sec. Admin. **Audit Reports** Sec. Analysis Scheduling Virus Check

**Safeguard, OSS, and BOSS Audit Reports:**

**Report Event Types:**

- Logons
- User ID/Alias Changes
- Group Changes
- Object Accesses
- Object Management
- Safeguard Config. & Audit Changes

**Report Event Details:**

Open For Read/Write	OSS Kill	Purge
Open For Write	OSS Link	Reject
OSS Access	OSS Resolve	Rename
OSS Dir. Search	Progid	Reset

**Report NSK Objecttypes:**

- Diskfile
- Subvolume
- Volume
- Device
- Process
- Diskfile-Pattern

**Report OSS Objecttypes:**

- OSS Diskfile
- OSS Fileset
- OSS Process
- Directory
- FIFO
- Socket

**Report Users:** ☒ All ☐ Specific:

**Check:** ☒ CAID ☒ PAID ☒ Target User

**Report Objects:** ☒ All ☐ Specific:

**Report Terminals:** ☒ All ☐ Specific:

**Multiple Node Merge?** ☐ No ☒ Yes --> Merge To Node: \USA

**Output Format:** ☐ Excel ☒ HTML ☐ Tandem **EDIT TITLES**

**Report Format:** ☐ Standard Report Program or Template **BROWSE** ☒ Custom: MyOSSAuditTemplate

**PC Report Destination:** OSSWeeklyReport.HTML **BROWSE**

**Report Timeframe:**

☐ Today ☐ Yesterday ☒ Weekly ☐ Monthly ☐ Specific

**Start:** 29 Sep 2008 00 : 00

**End:** 05 Oct 2008 23 : 59

**Report Event Outcomes:**

☐ Successful ☒ All ☐ Failed/Violation ☐ Other

**Denied** **Failed** **Granted**

**Custom Case Number (optional):**

**OPEN RESTORE DEFAULTS RUN REPORT SAVE AS DEFAULTS**

**SAVE AS HELP**

# SafePoint User Snapshot Report

User Name or Alias	User ID	C H A N G E	Owner	Last Logon	Last Mod.	Pswrd. Exp.	User Exp.	Sta tu s				Audit				
								T H A W E D	F R O Z E N	E X P I R E D	F A I L E D	A U P A S S	A U F A I L S	M A P A S S	M A F A I L S	U A P A S S
ADB.ED	48,001		SUPER.SUPER	24FEB08, 13:21	24FEB08, 11:53	NONE	NONE	T			7	A	A	A	A	N
ADB.FRANK	48,004		SUPER.SUPER	NONE	24FEB08, 12:29	26MAR04, 00:00	31APR08, 23:59	T		P	0	A	A	N	N	N
ADB.JOHN	48,010		SUPER.SUPER	NONE	24FEB08, 12:09	NONE	NONE	T			0	N	N	N	N	N
ADB.JUNK	48,006		\*.SUPER.SUPER	10AUG07, 15:08	10AUG07, 14:55	09SEP07, 00:00	NONE	T		P	0	N	N	N	N	N
ADB.NANCY	48,003		SUPER.SUPER	NONE	18OCT07, 13:19	NONE	NONE	T			0	A	A	N	N	N
ADB.NEW	48,007		SUPER.SUPER	NONE	26AUG08, 18:11	NONE	NONE	T			0	A	N	A	N	N
ADB.TED	48,005		SUPER.SUPER	NONE	18OCT07, 13:19	NONE	NONE	T			0	A	A	N	N	N
ADB.TOM	48,002		SUPER.SUPER	NONE	18JUL08, 11:42	NONE	31AUG08, 23:59	T		U	0	A	A	N	N	N
BAKER.QA	157,002		SUPER.SUPER	28JUN08, 16:13	08SEP08, 09:56	NONE	NONE	T			4	A	A	A	A	N
DEV.TESTER	152,230		SUPER.SUPER	05FEB08, 14:37	22MAY08, 14:13	NONE	NONE	T			2	N	N	N	N	N
GUEST.DBA	11,001		SUPER.SUPER	22JUN07, 14:00	22JUN07, 13:59	NONE	NONE	T			3	N	N	N	N	N
HILO.JAY	44,001		SUPER.SUPER	12JUN08, 13:19	17JUN08, 14:22	NONE	NONE	T			0	N	N	N	N	N
HILO.MARK	44,002		SUPER.SUPER	NONE	17JUN08, 14:22	NONE	NONE	T			0	N	N	N	N	N
HILO.SPENCE	44,003		SUPER.SUPER	NONE	17JUN08, 14:22	NONE	NONE	T			0	N	N	N	N	N
LAN.TEST004	3,004		SUPER.SUPER	NONE	21OCT08, 10:03	NONE	NONE	T			0	N	N	N	N	N
LAN.TEST1	3,001		SUPER.SUPER	NONE	21OCT08, 10:03	NONE	NONE	T			0	N	N	N	N	N
LAN.TEST2	3,002		SUPER.SUPER	NONE	21OCT08, 10:03	NONE	NONE	T			0	N	N	N	N	N
LAN.TEST3	3,003		SUPER.SUPER	NONE	21OCT08, 10:03	NONE	NONE	T			0	N	N	N	N	N
MSNBC.MANAGER	9,255		SUPER.SUPER	08SEP08, 07:23	08MAY08, 06:24	NONE	NONE	T			3	N	N	N	N	N
MSNBC.MWOODS	9,001		SUPER.SUPER	05SEP08, 11:42	26APR08, 14:22	NONE	NONE	T			0	N	N	N	N	N

# SafePoint ACL Snapshot Report

Object	C	Owner	Users	Access						File				Audit			
	H A N G E			D E N Y	R E A D	W R I T E	E X E C	P U R G E	C R E A T E	O W N E R	P R O G R A M S	C L E A R	P E R M I T	A C C E S S	A C C E S S	M A P P I N G	M A P P I N G
--- Volume Rule ---																	
(none for \$SYSTEM)																	
--- Subvolume Rules ---																	
\$SYSTEM.SAFE		SUPER.SUPER	SUPER.SUPER		R	W	E	P	C					N	N	N	N
			\*.*		R												
\$SYSTEM.SAFE05		SUPER.SUPER	SP.SPENCE		R	W	E	P	C					N	N	N	N
\$SYSTEM.SAFEPT		SUPER.SUPER	\*.SUPER.*		R	W	E	P	C					A	A	A	A
\$SYSTEM.SPE01		SUPER.SUPER	SP.SPENCE		R	W	E	P	C	O				A	A	A	N
			SP.JAY		R	W	E	P									
			SUPER.MIKE		R	W											
			SUPER.SUPER		R	W	E	P	C								
\$SYSTEM.SPE2		SUPER.SUPER	SP.SPENCE	Deny	R			P						A	A	A	N
			SUPER.SUPER		R	W	E	P	C								
\$SYSTEM.SPE3		SUPER.SUPER	SP.SPENCE		R	W	E	P	C					N	N	N	N
			SUPER.SUPER		R	W	E	P	C								
			\*.*		R												
\$SYSTEM.SPE5		SUPER.SUPER	SP.MIKE		R	W	E	P						A	A	A	A
--- File Rules ---																	
\$SYSTEM.SYS00.SCPTCOL		SUPER.SUPER	*.*		R	W	E	P	C		X			A	A	A	A

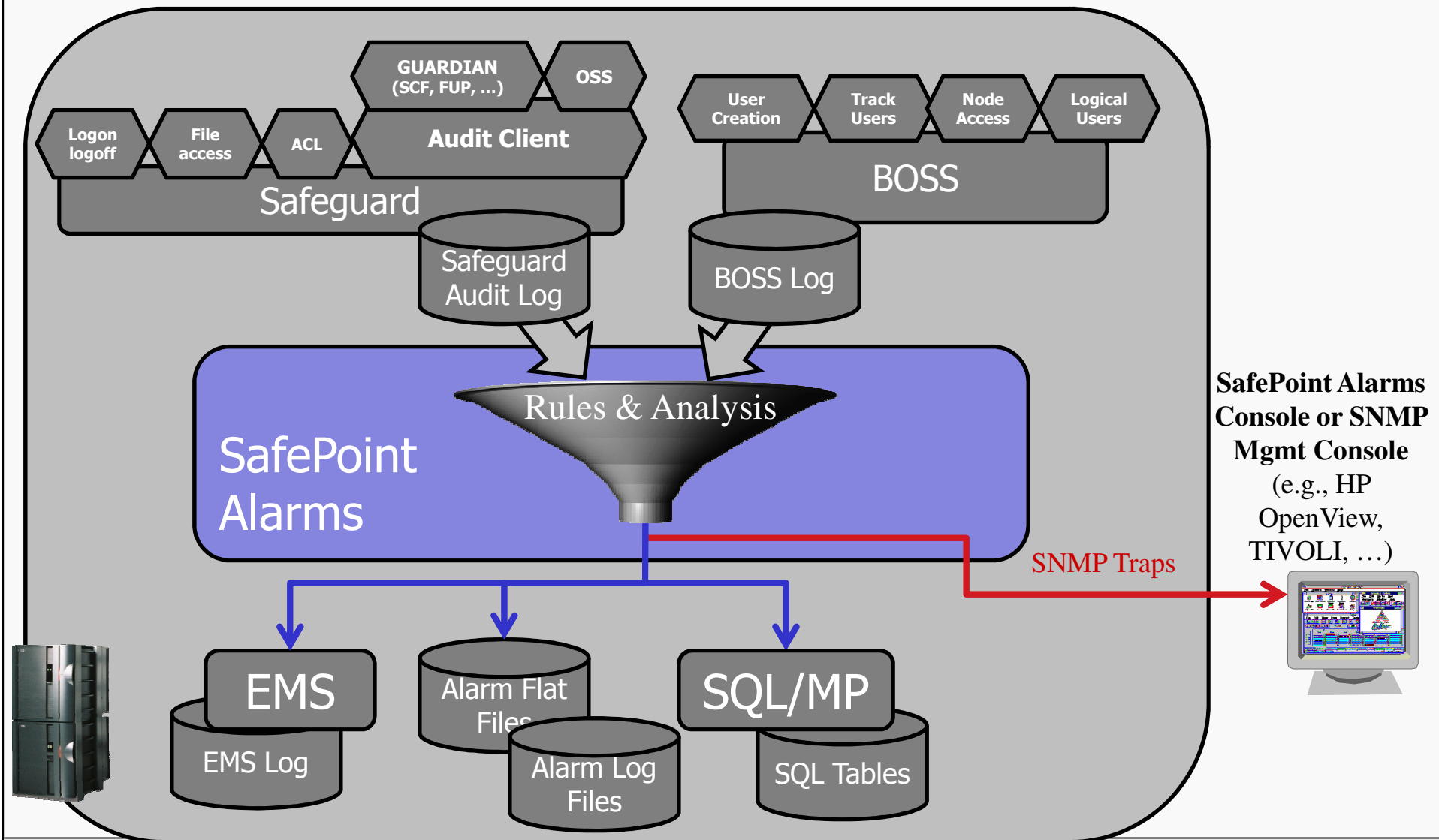
# SafePoint Audit Report

System	Object Name	Date	Time	IP Address	Action Done By	Operation	Before Change	After Change	Object-Type	Result Outcome
\DEV	\$AU204	24SEP08	11:41:20	165.245.210.11	lee_smith	OPEN FOR READ/ WRITE			PROCESS	GRANTED
\DEV	\$DATA2.BAKER200.FUP	24SEP08	11:24:22	174.145.94.60	lee_smith	ALTER PROGID	ON	OFF	DISKFILE	GRANTED
\DEV	\$DATA2.BAKER200.FUP	24SEP08	14:15:40	165.245.210.11	lee_smith	ADD ACL ENTRY		DENY SUPER.JAY (RE	DISKFILE	GRANTED
\DEV	\$DATA2.BAKER200.JDATA	24SEP08	12:07:00	174.145.94.60	lee_smith	ALTER ACL ENTRY	ABC.ED (RW)	ABC.ED (RWEF)	DISKFILE	GRANTED
\DEV	\$DATA2.BAKER200.JDATA	24SEP08	12:07:18	174.145.94.60	lee_smith	DELETE ACL ENTRY	\*.SUPER.JAY (RWEF)		DISKFILE	GRANTED
\DEV	\$DATA2.BAKER200.JDATA	24SEP08	13:24:24	165.245.210.11	SUPER.JAY	OPEN FOR READ/ WRITE			DISKFILE	DENIED
\DEV	\$DATA2.BAKER200.JDATA	24SEP08	14:16:35	165.245.210.11	lee_smith	DELETE ACL ENTRY	ABC.ED (RWEPO)		DISKFILE	GRANTED
\DEV	\$DATA2.BAKER200.JDATA	24SEP08	14:16:54	165.245.210.11	lee_smith	ADD ACL ENTRY		\*.SUPER.MARK (RW)	DISKFILE	GRANTED
\DEV	\$DATA2.BAKER200.JDATA	24SEP08	14:17:06	165.245.210.11	lee_smith	ALTER AUD-ACC-FAIL	LOCAL	ALL	DISKFILE	GRANTED
\DEV	\$DATA2.BAKER200.LOG	24SEP08	12:07:57	174.145.94.60	lee_smith	OPEN FOR READ/ WRITE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.IPDB0	24SEP08	12:54:29	165.245.210.11	lee_smith	CREATE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.IPDB0	24SEP08	12:54:40	165.245.210.11	lee_smith	PURGE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.IPDB0	24SEP08	12:54:43	165.245.210.11	lee_smith	CREATE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.IPDB0	24SEP08	12:55:13	165.245.210.11	lee_smith	OPEN FOR WRITE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.IPDB0	24SEP08	14:17:46	165.245.210.11	lee_smith	OPEN FOR READ/ WRITE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.IPDB0	24SEP08	14:17:58	165.245.210.11	lee_smith	OPEN FOR WRITE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.LOG	24SEP08	12:43:27	165.245.210.11	lee_smith	OPEN FOR READ/ WRITE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.LOG	24SEP08	12:43:47	165.245.210.11	lee_smith	OPEN FOR READ/ WRITE			DISKFILE	GRANTED
\DEV	\$DATA2.BAKER204.SFUP	24SEP08	12:43:25		lee_smith	ALTER LICENSE	OFF	ON	DISKFILE	GRANTED

## NEW: SafePoint Alarms

- ➔ SafePoint Alarms provides
  - ➔ Real-time HP NonStop security alerts
  - ➔ User-defined rules
  - ➔ Custom-configured alarm criteria
- ➔ What are the features?
  - ➔ Real time security alerting conditions defined by flexible rules.
  - ➔ Variety of alarm options (EMS, SNMP, SQL/MP, etc.).
  - ➔ Monitor alarms with either industry standard console (e.g., HP OpenView, CA Unicenter, Tivoli, etc.) or provided SafePoint Alarms Console.
- ➔ Satisfies PCI and other Data Security monitoring requirements.
  - ➔ Centralized event collection
  - ➔ Intrusion detection
  - ➔ File integrity monitoring
  - ➔ Enforce security policy

## SafePoint Alarms – An Overview



## SafePoint Alarms Console – What does it look like?

**SafePoint Alarms NSK Security Event Console (Version 1.1)**

**ALL NODES**  
 \NRBQ  
 \USA

**NSK Host Settings**  
 Port:    
☐ Log to Disk ☐ Trace

**SafePoint Alarms**  
 Copyright 2008 comForte, Inc.

**Status**

Syst...	#	Date/Time	Action	Target Object or User Name	By User	For User	IP Address	Objecttype	Outcome
\NRBQ	004	06OCT2008 14:06:14.582	ALTER DEF-SECURITY	baker_AL12345	joel_sandberg	SUPER.SUPER		ALIAS	GRANTED
\NRBQ	004	06OCT2008 14:06:58.157	ALTER PASSWORD	baker_AL12345	joel_sandberg	SUPER.SUPER		ALIAS	GRANTED
\NRBQ	004	06OCT2008 14:07:15.753	LOGON	baker_AL12345	SUPER.SUPER	SUPER.SUPER	192.168.1.100	ALIAS	PASSED
\NRBQ	004	06OCT2008 14:07:21.123	LOGON	joel_sandberg	BAKER.TEST1	BAKER.TEST1	192.168.1.100	ALIAS	PASSED
\NRBQ	004	06OCT2008 17:24:16.933	LOGON	BAKER.TEMP220	SUPER.SUPER	SUPER.SUPER	192.168.1.103	USER	PASSED
\NRBQ	003	06OCT2008 17:24:41.671	OPEN FOR READ/WRITE	\$DATA02.BAK700.MYFILE3	BAKER.TEMP220	BAKER.TEMP220	192.168.1.103	DISKFILE	DENIED
\NRBQ	004	06OCT2008 17:24:41.671	OPEN FOR READ/WRITE	\$DATA02.BAK700.MYFILE3	BAKER.TEMP220	BAKER.TEMP220	192.168.1.103	DISKFILE	DENIED
\NRBQ	002	06OCT2008 17:25:23.706	ALTER CI-PRI	SAFEGUARD CONFIGURATION	BAKER.TEMP220	BAKER.TEMP220	192.168.1.103	SFG CONFIGURATION	DENIED
\NRBQ	004	06OCT2008 17:25:23.706	ALTER CI-PRI	SAFEGUARD CONFIGURATION	BAKER.TEMP220	BAKER.TEMP220	192.168.1.103	SFG CONFIGURATION	DENIED
\NRBQ	004	06OCT2008 17:26:26.305	LOGON	BAKER.TEST1			192.168.1.103	USER	PWRD INV
\NRBQ	001	06OCT2008 17:26:56.930	LOGON	SUPER.SUPER	SUPER.SUPER	SUPER.SUPER	192.168.1.103	USER	PASSED
\NRBQ	002	06OCT2008 17:28:15.293	ALTER CI-PRI	SAFEGUARD CONFIGURATION	joel_sandberg	SUPER.SUPER	192.168.1.103	SFG CONFIGURATION	GRANTED
\NRBQ	001	06OCT2008 17:29:06.577	LOGON	SUPER.SUPER			192.168.1.103	USER	PWRD INV

## SafePoint Alarms – Benefits

### **Benefits . . .**

- ➔ Satisfies PCI and other Data Security monitoring requirements.
  - ➔ Centralized event collection
  - ➔ Intrusion detection
  - ➔ File integrity monitoring
  - ➔ Enforce security policy



## comForte Product Highlights

**\*New \*  
SecurSSO**

- Integrating Active Directory with HP NonStop for true Single Sign-on

**\*New\*  
SecurTN/3270**

- support of 3270 emulation protocol

**SafePoint  
Alarms**

- Real-time alerting and monitoring

**TOP**

- The Operations Pack for NonStop Administration

## TOP – The operation Pack for NonStop

- ➔ **Strategic front-end for command and control access to NonStop servers from Windows workstations:**
  - ➔ **TOP Explorer** for managing nodes and system components
  - ➔ **TOP Spool** is a comprehensive spooler monitoring tool for NonStop server printers
  - ➔ **TOP User ID** to monitor and manage NonStop user ID's, Aliases, and Groups
  - ➔ **TOP Path** is a powerful GUI for Pathway configuration, management & operation
  - ➔ **TOP Comms** a comprehensive communications manager for NonStop
  - ➔ **TOP SDK** Software Toolkit to build workstation-based NonStop server applications

# TOP Explorer

The Operations Pack VSSDEV

Session **Edit** **View** Favorites **Find** Wizard Window Tools Help

Location: All Nodes

super.super

- All Nodes**
- \DOC
- \ISSDEV
- \MELBORN
- \TEST
- Comms
- Cpus
- EMS
- KMSF
- Netbatch
- OSS
- Pathways
- Processes
- Safeguard
- Spoolers

Contents of All Nodes:

Name	State	# Cpus	OS Version	SysNum	SYSnn	Serial	Logon	NIP Version	IP Hostname
\DOC	Up	2	G06.26.00	252	SYS26	048571	super.super	3.25	doc1
\ISSDEV	Up	4	D43.00	250	SYS00	021760	super.super	3.25	issdev
\MELBORN	Up	4	?	44			hawk.andy*		
\TEST	Up	2	D46.00	251	SYS00	022678	hawk.andy	3.20	test

asimpson@TEXASGOAT

Desktop

- My Computer
- 3½ Floppy (A:)
- Local Disk (C:)
- Compact Disc (D:)

Contents of Desktop:

Name	Size	Type	Modified
AustralianDesignAward.jpg	413KB	JPEG Image	11/10/2005 2:34 PM
CTOC - VCG	1KB	Shortcut	7/10/2005 4:37 PM
TOP 4	1KB	Shortcut	7/10/2005 3:39 PM
Development cto	1KB	Shortcut	7/10/2005 10:56 AM
ctocJim test	1KB	Shortcut	22/09/2005 3:10 PM

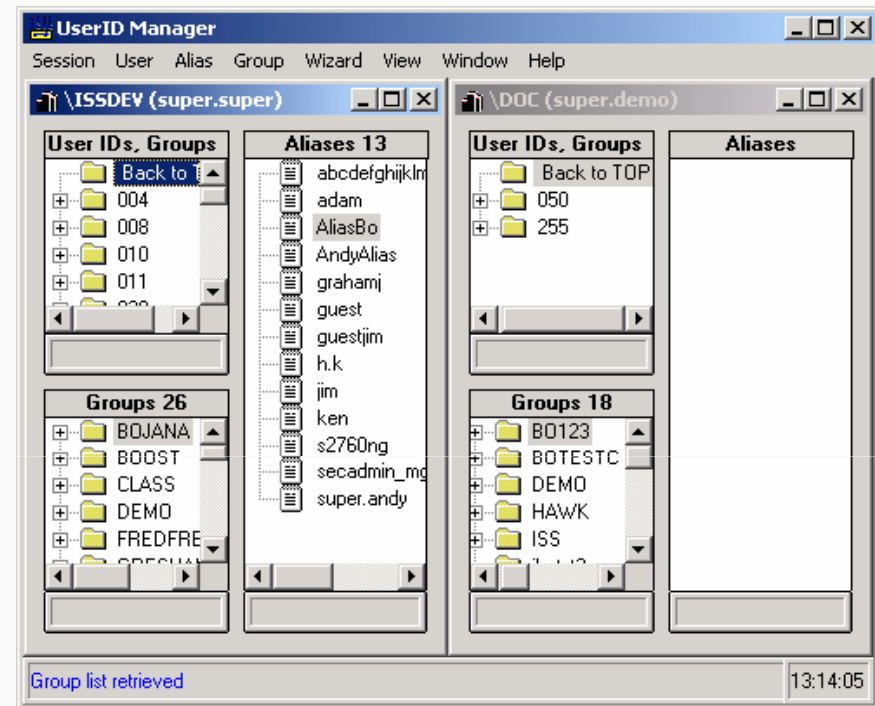
4 nodes

NUM 11/10/2005 3:10 PM

## TOP User ID

TOP UserID provides a graphical layer that preserves your existing Safeguard or Guardian security investment and enables you to perform user management tasks on any node to which you are logged on. TOP UserID features include:

- ❖ Control of user ID, alias and group records.
- ❖ Adding single or multiple user ID records, aliases, and groups.
- ❖ Copying, modifying, and deleting user ID records, aliases, and groups.
- ❖ Wizards to perform tedious user administration tasks easily, such as re-assigning files belonging to deleted users.



## TOP Comms

**Comms Manager \ISSDEV (super.super)**

Session Node Object Wizard Help

**Communications Objects**

- Back to TOP
- + \DOC
- \ISSDEV
  - + SSCP
  - TELNET
    - + \$ZTN0
  - + TCP/IP
  - + Multilan
  - + SNAX/XF
  - + X.25
  - + Network
  - + Expand

Status...

Info...

Stop...

Abort...

Add Service...

Modify...

SSCP	2 stopped	
TELNET	1 started	
TCP/IP	1 started	
Multilan	1 started	
SNAX/XF	5 error	
X.25	2 stopped	2 error
Network	2 started	1 error
Expand	4 started	2 stopped

Refresh of main display complete at 15:18:21

15:20:15

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## Q & A

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