



**CSP Security.com**  
SOLUTIONS FOR HP NONSTOP SERVERS

# Protect Your Customers – Secure Your Systems

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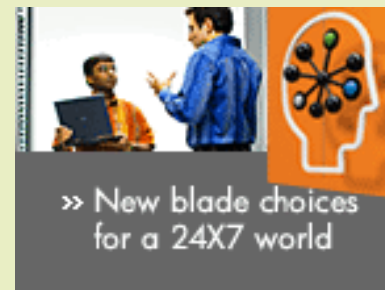
## About CSP

- Based in Toronto, Canada.
- NonStop® DSPP Partner since 1987.
- Develop, Support and Distribute Security and Audit Solutions for the HP NonStop® Market.
- Over 250 Customers and over 1000+ licenses World Wide
- Customers include:
  - Largest Banks
  - Major Stock Exchanges
  - Defense and Healthcare organizations
  - Telecommunications
  - Manufacturers

Business Partner



Integrity Ready  
Partner





## **Security on Nonstop - why should you care ?**

- **There is at least one data breach per day**
- **Significant consequences**
  - **Average costs for a security breach 6.6M\$**
  - **Lost reputation, lost customers**
  - **Fraudulent activity with direct financial impact**
  - **Fines for non-compliance, license withdrawals**
- **Increasing number of regulations and compliance requirements**
- **Change in responsibility**
- **This is not a question of platform**



# One incident of significant impact every day

## Latest Incidents

[twitter](#) / DataLossDB

RECORDS	DATE	ORGANIZATIONS
<u>236,000</u>	2009-09-25	University of North Carolina
<u>5,045</u>	2009-09-23	Eastern Kentucky University
<u>31,000</u>	2009-09-23	Kern Medical Center
<u>0</u>	2009-09-23	Socorro County Housing Authority
<u>900</u>	2009-09-22	Cincinnati Metropolitan Housing Authority
<u>2,246</u>	2009-09-22	AlixPartners LLP
<u>1,325</u>	2009-09-21	Rocky Mountain Bank
<u>62</u>	2009-09-18	Akron Children's Hospital
<u>25</u>	2009-09-14	University of Florida, Florida Department of Transportation
<u>0</u>	2009-09-14	Jones General Store

## Largest Incidents

RECORDS	DATE	ORGANIZATIONS
<u>130,000,000</u>	2009-01-20	Heartland Payment Systems
<u>94,000,000</u>	2007-01-17	TJX Companies Inc.
<u>90,000,000</u>	1984-06-01	TRW, Sears Roebuck
<u>40,000,000</u>	2005-06-19	CardSystems, Visa, MasterCard, American Express
<u>30,000,000</u>	2004-06-24	America Online
<u>26,500,000</u>	2006-05-22	U.S. Department of Veterans Affairs
<u>25,000,000</u>	2007-11-20	HM Revenue and Customs, TNT
<u>17,000,000</u>	2008-10-06	T-Mobile, Deutsche Telekom
<u>16,000,000</u>	1986-11-01	Canada Revenue Agency
<u>12,500,000</u>	2008-03-26	LaSalle Bank, BNY Mellon Shareowner Services, Archive Systems Inc, The Walt Disney Company, SYNOVUS

Source : DataLossDB.org



Jan, 2007 : TJX –

## Data breach exposed card data in 4 countries

- „Someone had illegally accessed one of the payment systems“
- 45.6M credit/debit card numbers reported as stolen
- Tier 1 retailer/processor – over 6M tx/mth
- Shoppers in U.S, Puerto Rico, Canada, UK affected
- Intrusion affected systems processing debit and credit card transactions
- Stored data of transactions in 2003 as well as Track-2 data (PAN, exp., PIN) stolen
- All major card brands affected (Visa, Mastercard, Amex, Discover)
- Fraudulent transactions in many countries including overseas
- Intrusion discovered 7 months later (finally clarified 1,5 years later)
- 2008 : group of banks suing the retailer claimed 94M cards were exposed
- May 2009 : breach costs reported in the size of 150M\$



## Mar, 2008 : Hannaford – Data breach affected millions of shoppers

- Intrusion into computer network of supermarket chain (Maine, US)
- Forced banks to reissue millions of credit and debit cards
- MBA reported 70 of its member banks were contacted by Visa, MC
- Credit & debit card numbers stolen during transmission
- Included data from magnetic stripe
- 4.2M credit / debit card numbers stolen
- Hannaford instructed consumers to check their card statements
- Felt they met and in many cases exceed industry standards on security measures
- Now „committed to take whatever steps may be necessary“ to enhance security



## Dec 23rd, 2008 - RBS Worldpay Data breach resulting in ATM heist – 9M\$ stolen

- Hackers broke into database to get personal data
- 1.5 M cardholders affected
- Social security numbers of 1.1M individuals may have been accessed
- Information included financial data on payroll cards
- Personal information „may“ have been affected
  
- Feb 6th : coordinated attack on Nov 8th by „cashers“ withdrawing 9M\$ using counterfeit cards on 130 ATMs, in 49 cities, within 30 minutes
- Hackers able to mess with card limits ? (100 cards)
- FBI spokesman : „People are out there attacking computers every day, but this one is different in scope, timing and coordination of the attack.“



## Jan 20, 2009 : Heartland – Card processor victim of largest data breach

- Visa, MC alerted about suspicious transaction activity, Heartland found evidence of malicious software compromising data
- Forensic exams has shown multiple instances across their network
- Processing >100M tx/mth for >250k merchants and hundrets of banks
- Included card numbers, exp and Track-2 data
- Dropped from PCI compliance by Visa
- Gartner :
  - „Cybercrooks are increasingly targetting payment processors. Attacking processors much more serious than retailers“
  - „More radical moves required, PCI is clearly not enough“
- Feb 13th : over 440 financial institutes affected in 40 U.S. states, Canada and outside, lawsuits ongoing
- May 2009 : Intrusion occured in May 2008, not detected until Jan





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## Sep 25, 2009 : UNC – School of Medicine hacked

- Breached server contained information related to a federally funded mammography research project
- 236.000 personal health records affected
- 163.000 SSNs
- Discovered in Jul 2009 – actual intrusion most likely 2 years ago



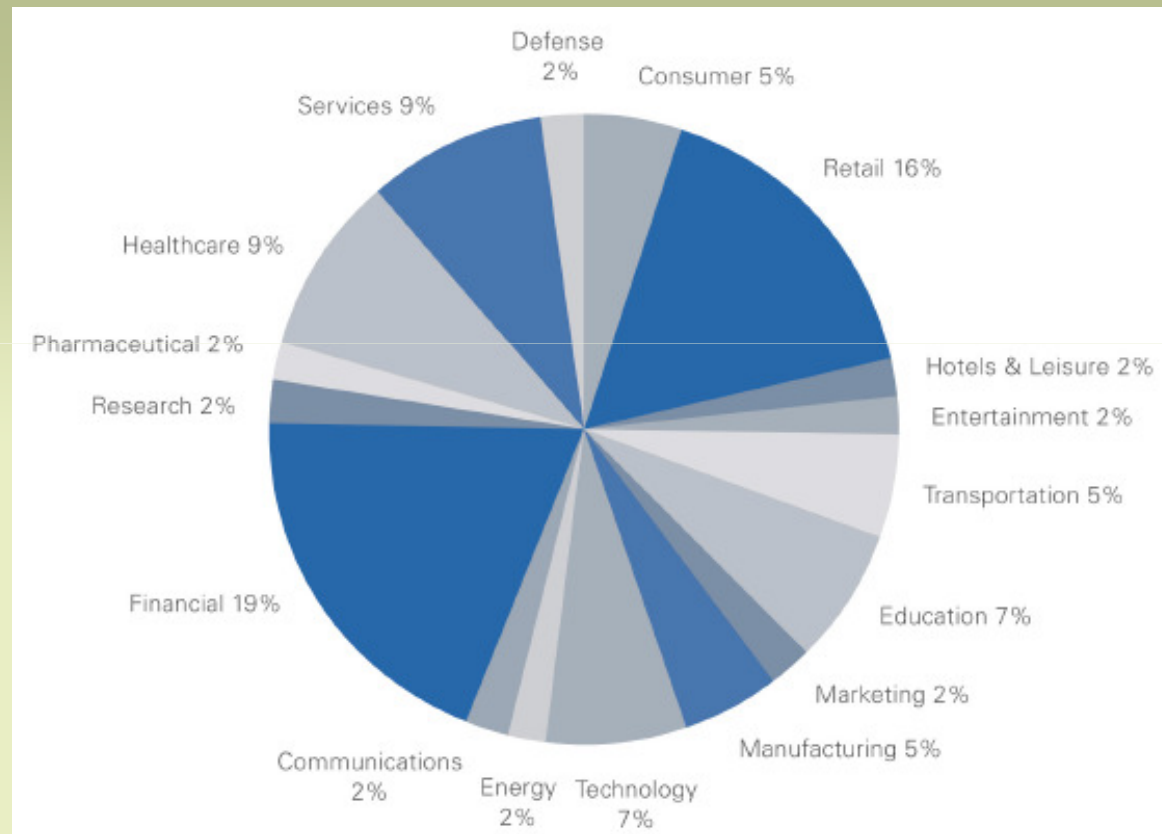
# Study : Costs of a Data Breach

Source : Ponemon Institute

- Ponemon Institute annual studies since 2005
- Pioneers in privacy auditing, privacy risk management
- Founded by Dr. Larry Ponemon :
  - CEO of the Privacy Council
  - Global Managing Partner of Compliance risk management at PWC
  - National Director of Business Ethics services at KPMG
- 2008 study : 43 U.S. companies in 17 different industry sectors
- No hypothesis – real life experience
- Costs reviewed
  - Cost for engaging forensic experts
  - Hotline support
  - Free credit monitoring subscriptions
  - Discounts for future products and services
  - In-house investigation and communication
  - Customer losses and diminished customer acquisition rates



# Study 2008 – Companies per Industry

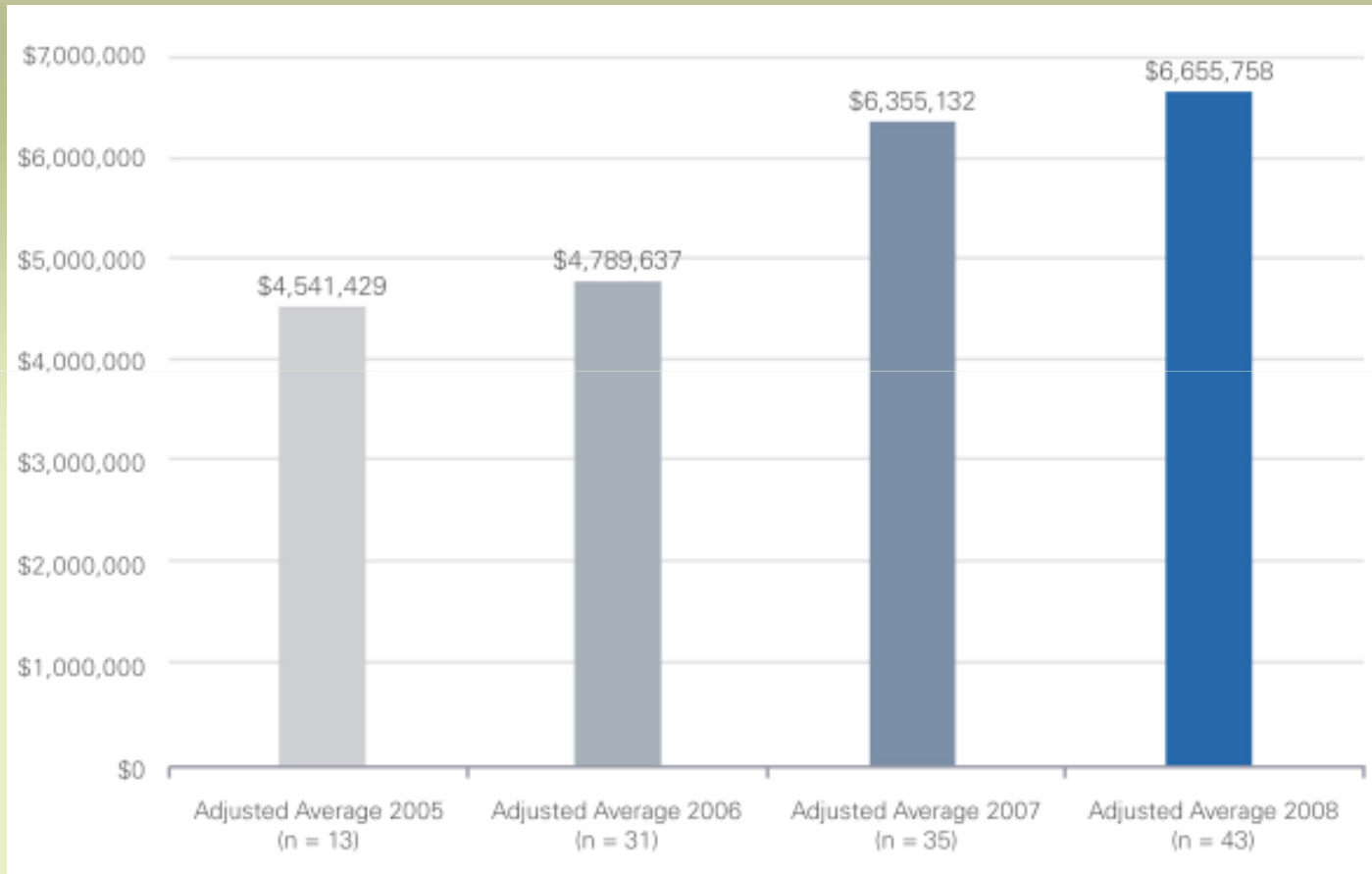


Industry	Frequency
Financial	8
Retail	7
Healthcare	4
Services	4
Education	3
Technology	3
Manufacturing	2
Transportation	2
Consumer	2
Hotels & Leisure	1
Entertainment	1
Marketing	1
Pharmaceutical	1
Communications	1
Research	1
Energy	1
Defense	1

Source : Ponemon Institute



# Average cost per case



Source : Ponemon Institute



## Average per-record cost



Source : Ponemon Institute



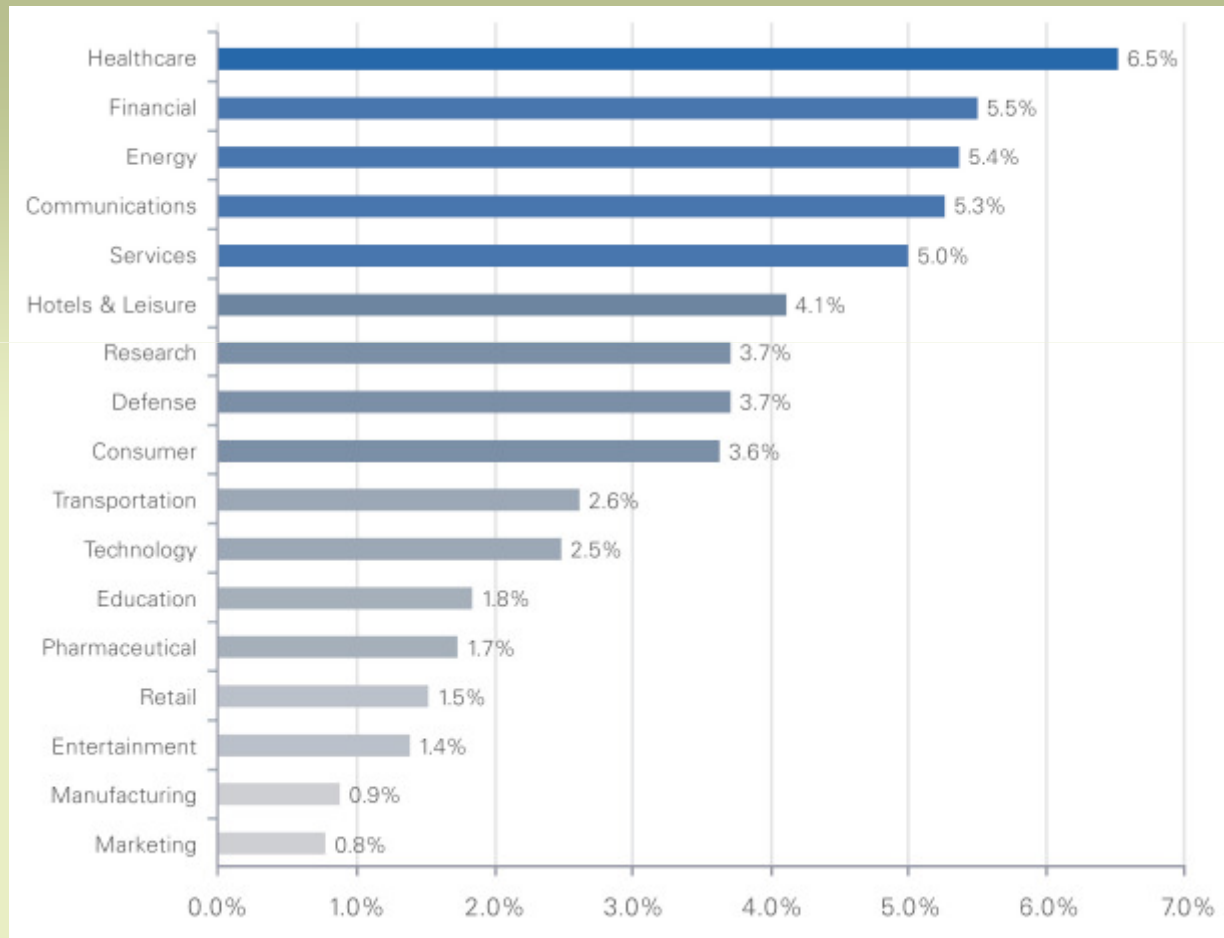
# Cost Contributors



Source : Ponemon Institute



# Churn rates per industry following a data breach



Source : Ponemon Institute



# Proportion of breach costs per category

Cost changes over four years	2005	2006	2007	2008	Net change
Investigation & forensics	8%	8%	8%	9%	stable
Audit & consulting services	8%	10%	10%	11%	increase
Outbound contact costs	13%	9%	7%	6%	stable
Inbound contact costs	15%	10%	8%	6%	decrease
Public relations/communications	0%	1%	3%	1%	stable
Legal services - defense	5%	6%	8%	9%	increase
Legal services - compliance	3%	3%	3%	1%	stable
Free or discounted services	4%	2%	1%	2%	stable
Credit monitoring services	3%	3%	2%	2%	stable
Lost business (due to churn)	35%	39%	41%	43%	increase
Customer acquisition cost	6%	8%	9%	9%	stable

Source : Ponemon Institute





## Key findings 2008

- Avg costs increased to \$202 per record compromised
- Avg. Total cost per reporting company 6.6M\$ (613k\$ up to 32M\$)
- Cost of lost business carries highest impact (\$139 per record)
- Healthcare and Financial Services suffer highest customer loss
- Increased customer churn rates drive lost business costs (+38% 2005 to 2008)
- 88% of cases resulting from negligence
- Higher Costs from malicious acts (\$225 vs \$199)



# CSP Solution Portfolio

Authenticator  
Protect XP  
Passport  
Netpass  
Protect UX

- 2 factor Authentication
- Password quality
- User access, Identity mgmt
- Command level control & Audit
- Authorisation
- Enforce strong Security policies

Strong  
Access  
Control

Audit  
Reporting &  
Assessment

- Internal and external Audit reporting
- Compliance Reporting
- Regular Security Analysis

AuditView  
FIC  
TSA  
CRM

Encryption

Monitoring

Client Shield  
FTP Shield

- Data encryption
- Password encryption

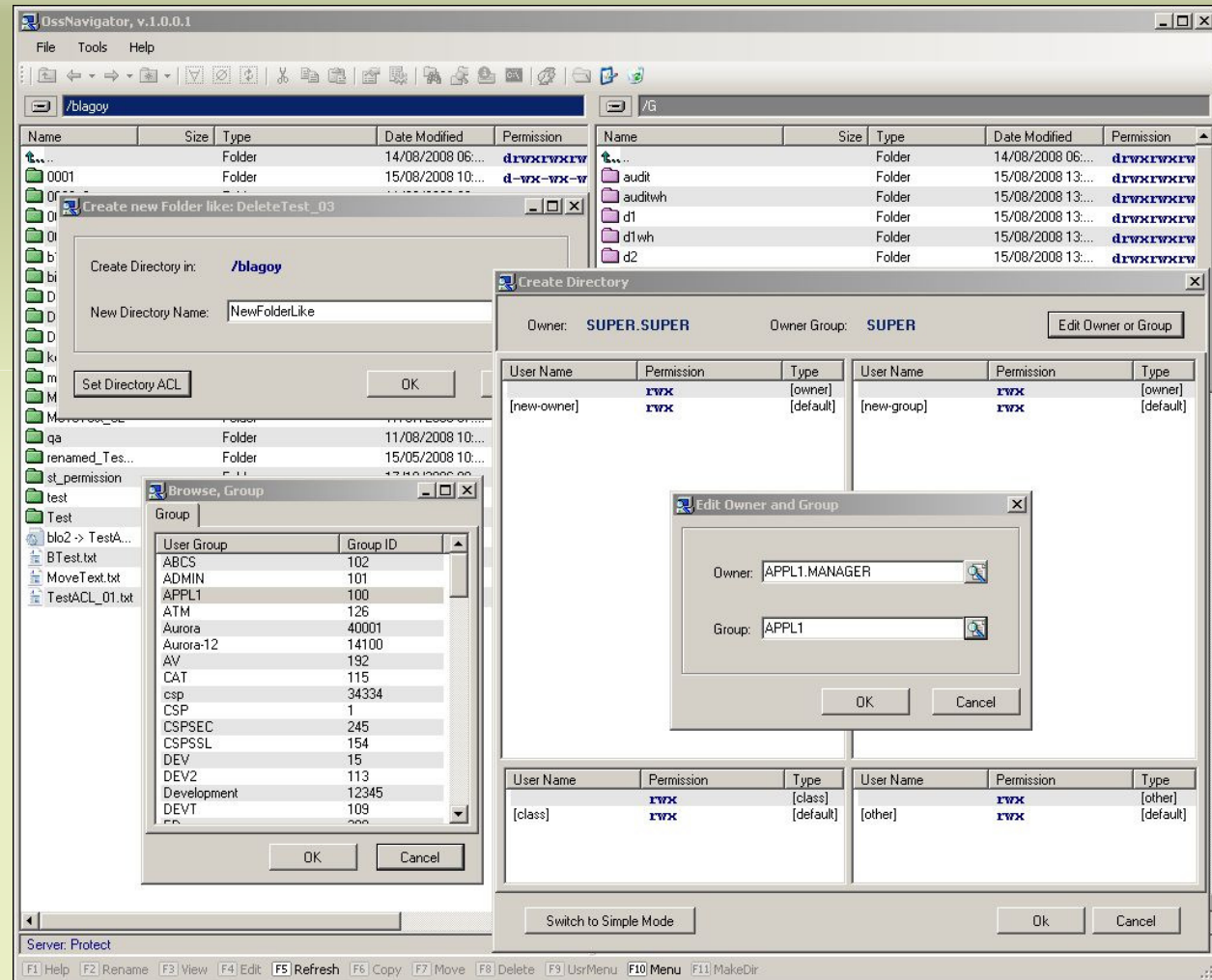
- Real time intrusion detection
- Alert management
- Rules management

Alert Plus



# Product News : Protect UX

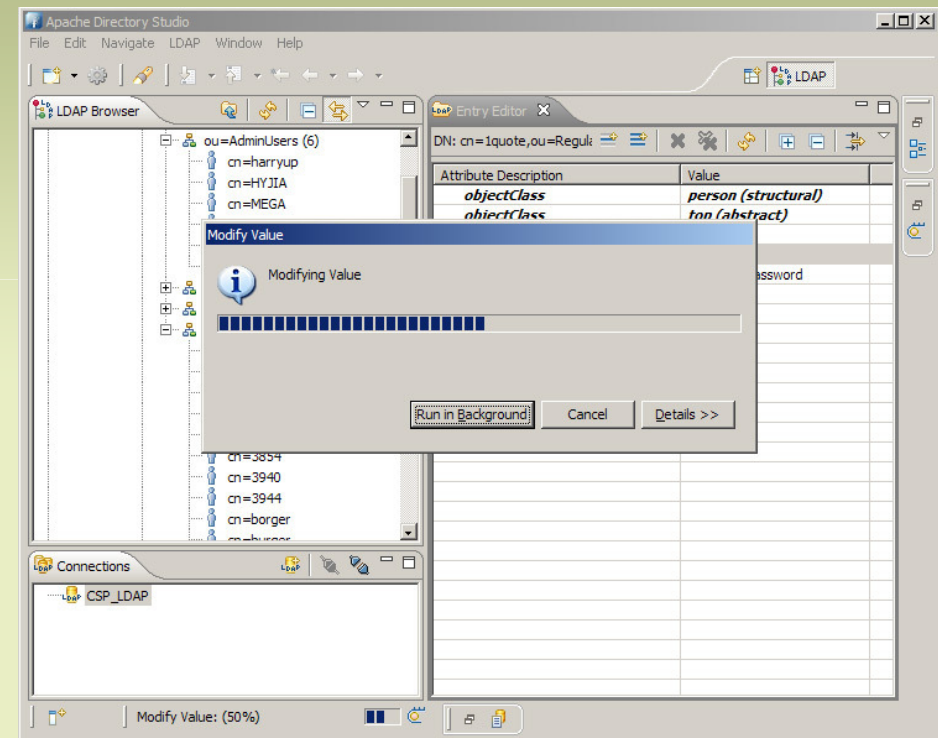
- OSS security management
- Browse, copy and paste files in OSS on multiple systems
- Set security ACLs
- Policy model
- Multiplatform





# Product News - CSP NIMS Nonstop Identity Management System

- Streamline your IdM process
  - Centralize help desk functions (i.e. password resets)
- Central Management of Nonstop users
- LDAP interface to
  - Protect XP and Safeguard
  - CSP PassPort
- Works with any LDAP client
  - From Apache to Tivoli
- Supports multiple Nonstop systems

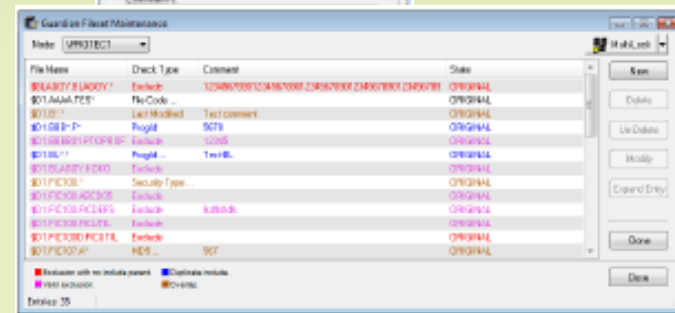
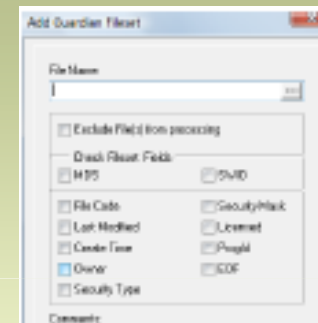




## Product News - FIC

# File Integrity Monitoring for Guardian and OSS

- Mandated as part of PCI (11.5)
- File Integrity Monitoring with alerts for unauthorized modifications
- Integrity checking using hash value verification
- Maintains database with file attribute history





## So how can we work together ?

- **CSP can help HP Nonstop customers ...**
  - to analyze gaps and loopholes on their HP Nonstop systems
  - to enhance security on their systems
  - in implementing strong security policies
  - by providing proven solutions to meet compliance and audit requirements
  - to increase efficiency in managing security
  - reduce complexity of security management
  - Reduce operational risk
  - Lower ALE
  
- **CSP is ...**
  - A Professional and flexible organization - easy to work with.
  - Provider of proven, reliable products and services.
  - providing free trial licenses ...



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**Thank you !**

**Protect your customers –  
Secure your systems !**

**Talk to us...**

For additional information please contact

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