Agenda

• Security Landscape facing NonStop Customers
• Security Additions to the NonStop OS
• What products are now added:
  • NonStop SSH
  • NonStop SSL
  • XYGATE Merged Audit
• Schedule and Pricing
• Future Security Offerings
The Security Landscape

Cybercrime grows more sophisticated every year.
New laws are being passed and existing standards are being tightened:

A pending update to the Payment Card Industry Data Security Standard (PCI DSS)
For US healthcare, recent passage of HITECH to put regulatory teeth into HIPAA

There is an arms race in encryption and key exchange algorithms.
Properly securing data and resources requires protecting confidentiality, integrity and availability.
Security Risks facing customers

• When security is breached, companies face:
  – Fines
  – Lost productivity
  – Customer loss/dissatisfaction
  – Government probes
  – Bad press
  – Ruined reputations

• Around the world there are 20,000 security regulations that businesses must meet and more emerge locally every year.

<table>
<thead>
<tr>
<th>Security Breach</th>
<th>User records Impacted</th>
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<tbody>
<tr>
<td>Heartland Payment Systems</td>
<td>100,000,000+</td>
</tr>
<tr>
<td>TJ Maxx retail stores</td>
<td>45,700,000</td>
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<tr>
<td>Dai Nippon Printing</td>
<td>9,000,000</td>
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<tr>
<td>Johns Hopkins University and Hospital</td>
<td>1,200,000</td>
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<tr>
<td>State of Ohio</td>
<td>860,000</td>
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</table>

Source: http://www.privacyrights.org/ar/ChronDataBreaches.htm#CP
HP NonStop
Security Requests from customers

• Provide more security features with the system out of the box to help customers avoid “add ons”
• Improve the overall costs of securing the NonStop system.
• Make security a more integrated and natural part of the system.
What is HP doing?

As of September 1st, orders for whole new NonStop servers now include three new security products as part of the basic software suite included with the system.

This change affects Integrity NonStop servers that run J Series or H Series software. The new products included are:

- NonStop SSH (full server capabilities)
- NonStop SSL (a new offering)
- XYGATE Merged Audit (a new offering)
What do these products do?

Data in Motion Security

**NonStop SSH** provides a Secure Shell capability that largely replaces TelServ on the system with a native NonStop solution. Also supports SFTP.

**NonStop SSL** provides a Secure Socket Layer capability that can be used to provide certificate based security for applications that run on the NonStop system.

Audit Reporting and Alerts

**XYGATE Merged Audit** provides a sophisticated solution for parsing security audit data and generating reports. It also can send alerts to help customers monitor security activities on their system and prepare for Security audits.

**XYGATE Merged Audit** also enables the NonStop system to integrate seamlessly with SIEM type devices such as the HP Compliance Log Warehouse (CLW).
How can HP offer these new products?

We have negotiated new contracts with two of our Security partners which allows us to add these products to the system.

• comForte is the partner behind SSH and SSL.
• XYPRO is the partner behind Merged Audit.

There is a small price increase for the system software as a result of adding these products. This is to enable HP to cover the royalty that must be paid to our security partners as part of this new deal. In the spirit of openness, this addition will appear as a separate line item on orders.
More on pricing

Pricing is a very good deal for customers and saves customers significant money in the long run.

• List price of new security enhancement is 87% less than buying all three of these products from HP and partners at today’s list price.

• The price of the security enhancement for all three products is less than buying any one of these products independently.

• With customer discounts the pricing is even less - - reaching commodity level software pricing on some systems.

• In accordance, Support costs are also lower.
Further benefits

Purchase is easier when ordering through HP which:
  • Makes these products available worldwide
  • Eliminates the need to qualify comForte or XYPRO as a new vendor in some markets.

Support is provided by HP through the HP Support Center – the same number you call for all your other NonStop support questions or needs.
  • HP will engage partner when necessary behind the scenes.

Deploy when you’re ready.
  • Products are provided on your RVU SUT.
  • Configure and install all three products or just the product(s) you are interested in.
  • No coldload necessary to put these products into production.
  • No license file needed to access product functionality.
Customers with Existing Systems

J Series or H Series platforms

Customers with existing systems can upgrade their OS to include the Security enhancement. Upgrades are available after November 1\textsuperscript{st}, 2010, to all customers running J Series or H Series systems.

Upgrade pricing is also very low and upon purchase, future SUTs for your system will include these software products and their latest versions.

See your HP Sales person to receive a quote.
NonStop Systems
G Series platforms

Customers who are interested in these products for G Series systems can order them separately:

Available now:
SSH01V1 – Full SSH capability
SSH02V1 - Partial SSH capability to enable only SFTP

Available November 1st:
XMA – XYGATE Merged Audit for G Series

SSL solutions for G Series are available from comForte, XYPRO, CAIL, ACI and Bowden
NonStop Data In Motion
Secure Shell (SSH)

As of September 1st, for J Series and H Series

- HP NonStop SSH, with all features enabled, is included with new system orders bundled with the HP NonStop Operating System (includes SFTP).
- Adding SSH to an existing system no longer requires a license file.

For G Series
- HP NonStop SSH remains available as a separate product. An “SFTP only” version of the product is also offered.

Open SSH
- Provides free SSH support through the OSS environment.
What is the Secure Shell (SSH) protocol?

SSH or Secure Shell is a network protocol from the UNIX environment that allows data to be exchanged using a secure channel between two networked devices.

• SSH was designed to be a replacement for Telnet and other insecure remote shells.

• SSH uses encryption to provide confidentiality and integrity of the data when it is being passed over the Internet.

HP has been providing a native SSH solution for the NonStop platform through a partner relationship with comForte since 2007.
Data in Motion – SSH

Product Features

• Is fully compliant to the ssh Protocol (Version 2)
• Provides strong authentication and multiple cipher suites
• Supports full screen terminal access for TACL and OSS
• Has a built-in user base
• Keeps its own central key store
• Offers TCP and FTP Port forwarding
• Works in Guardian and OSS environments (does not require OSS to run)

• Provides encryption for data transmitted between the NonStop server and:
  - Terminal emulators
  - Other Servers
  - when using FTP (File Transfer Protocol)
• Runs as a daemon process on NonStop for remote clients
• Has clients on NonStop which are started from TACL and connect to remote systems
• Provides advanced auditing capabilities
• Supports Secure FTP (SFTP) Transfer
Data in Motion – NonStop Architecture
With SSH Installed

**HP NonStop Server – Security Encryption including HP NonStop SSH**

- TACL
- OSS
- Other Applications
- Guardian

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**HP NonStop SSH**

- MR-Win6530 emulator on the NonStop System Console
- Any SSH enabled 6530 emulation Client
- SSH OSS emulation Client (MR-Win6530, PuTTY)
- SFTP client
- SFTP daemon
NonStop Data In Motion
Secure Socket Layer (SSL)

As of September 1st for J Series and H Series systems:

- HP NonStop SSL with all features enabled, is included on new system orders bundled with the HP NonStop Operating System.
- SSL supports Telnet, Middleware, Expand and SFTP
- Adding SSL to an existing system does not require a coldload
- No license file is required

For G Series
- SSL solutions remain available through partners including comForte, XYPRO, Bowden, ACI and CAIL.
What is the Secure Socket Layer (SSL) protocol?

SSL (Secure Socket Layer) is a cryptographic protocol that provides security for communicating over the Internet.

- SSL encrypts the segments of network connections at the transport layer end-to-end.
- SSL is in widespread use for web browsing, email, instant messaging and other applications.

Previously, NonStop customers had to purchase SSL solutions from NonStop security partners.

- This year, HP is introducing the HP NonStop SSL product based on the SecurCS product from comForte for use on J Series and H Series servers.
- This product provides native SSL and is included with the NonStop Operating System as another option for customers to use to secure their data in motion.
Data in Motion – SSL

Product Features

On the NonStop platform, HP NonStop SSL is designed to run in native mode under the Guardian filesystem, resulting in optimal performance and full leverage of the NonStop advantages

• Supports SSL for Telnet, Middleware, Expand and SFTP

• On the client platform, there is a rich set of choices: If you have an SSL-enabled solution on the platform (such as MR-WIN6530 or MQ version 5.3) there is nothing to install

• Will encrypt any protocol which is based on TCP clients connecting to a fixed number of static ports. The TCP/IP client may reside either on the remote platform (such as for Telnet, RSC or ODBC) or on the NonStop platform (such as for FTP or FASTPTCP)
Data in Motion – SSL
Product Features (continued)

• HP NonStop SSL can be started in different run modes to enable SSL encryption for a variety of applications and services.

• Multiple NonStop SSL processes can co-exist on a single NonStop system to support concurrent (secure and non-secure) web and proxy services, as well as multiple TCP/IP processes.

• HP NonStop SSL processes do not run as process pairs, but fault tolerance can be achieved by starting SSL processes on multiple TCP/IP stacks running in different processors.
SSL Enabled FTP Clients
J6530
MR-Win6530
SSL Enabled FTP Servers
NS SSL [FTPC]
MR-Win6530
Remote Proxy
HP ASAP Server
NS SSL [PROXYS]
NonStop System
Remote System
SSL Enabled FTP
J6530
MR-Win6530
SSL Enabled FTP Servers
NS SSL [FTPS]
FileZilla
Remote Proxy
HP ASAP Client
NS SSL [ODBC/MX]
(Driver)
NonStop System [EXPANDS]
Remote System
SSL Enabled FTP
J6530
MR-Win6530
SSL Enabled FTP Servers
NS SSL [FTPS]
FileZilla
Remote Proxy
HP ASAP Client
NS SSL [ODBC/MX]
(Driver)
NonStop System [EXPANDS]
# Comparison between SSH and SSL

<table>
<thead>
<tr>
<th>Topic</th>
<th>SSH</th>
<th>SSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Origin</td>
<td>UNIX/Linux environments</td>
<td>Windows and mainframe environments</td>
</tr>
<tr>
<td>Cryptography Method</td>
<td>Uses Public/Private key cryptography</td>
<td>Uses Public/Private key cryptography</td>
</tr>
<tr>
<td>Encryption algorithm</td>
<td>Uses symmetric encryption algorithm</td>
<td>Uses symmetric encryption algorithm</td>
</tr>
<tr>
<td>Method</td>
<td>Requires each endpoint to individually trust every other endpoint using a public key or user name and password or password authentication</td>
<td>Uses “certificate authority” method or “CA” to delegate trust by issuing certificates for authentication.</td>
</tr>
<tr>
<td>Telserv Approach</td>
<td>Completely replaces Telserv layer on the system</td>
<td>Uses a proxy-based approach to address Telserv</td>
</tr>
<tr>
<td>Advantages</td>
<td>Easier self key generation and configuration.</td>
<td>Easier large scale deployment for HTTP over SSL (HTTPS)</td>
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</tbody>
</table>
# When to use SSL vs. SSH

<table>
<thead>
<tr>
<th>Protocol to secure</th>
<th>Method</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Telnet</td>
<td>SSL, SSH</td>
<td>Usage may depend on customer’s:</td>
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<tr>
<td></td>
<td></td>
<td>- Emulator capabilities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Corporate Policy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Legacy Environment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Industry Trend is to use SSH</td>
</tr>
<tr>
<td>File Transfer</td>
<td>SSL, SSH (SFTP)</td>
<td>Usage may depend on customer’s:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Partner Systems (SFTP very popular on UNIX)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Corporate Policy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Legacy environment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Industry trend is to use SSH (SFTP)</td>
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<tr>
<td>EXPAND</td>
<td>SSL</td>
<td>SSH not supported with EXPAND</td>
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<tr>
<td>ODBC</td>
<td>SSL, (SSH)</td>
<td>SSH only possible with port forwarding, which may be very complex to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>setup for ODBC</td>
</tr>
<tr>
<td>RSC</td>
<td>SSL, (SSH)</td>
<td>SSH only possible with port forwarding. SSL is more straight-forward.</td>
</tr>
</tbody>
</table>
NonStop Auditing and Reporting
XYGATE Merged Audit

As of September 1\textsuperscript{st} for J Series and H Series systems:

- XYGATE Merged Audit is included with the NonStop Operating System on all new systems orders.
- XYGATE Merged Audit provides advanced reporting and alerting over SafeArt on NonStop servers and should be of interest to all customers who need to monitor security events on their server.
- The product will also be available for separate purchase on G Series systems by November 1\textsuperscript{st}, 2010.
- See your NonStop sales rep for details.
XYGATE Merged Audit
Security Auditing, Alerting and Reporting

XYGATE Merged Audit is now available from HP.

This is a well established product from XYPRO that allows users on the NonStop to consolidate event and security logs and report or create alerts on the system’s security activities.

Reports can be used to prepare for PCI audits or for periodic security reviews by the customer.

Merged Audit also does real time streaming of event data into Security Information and Event Management (SIEM) type enterprise solutions such as the HP Compliance Log Warehouse (CLW)
XYGATE Merged Audit
Features

XYGATE Merged Audit provides
— single repository for interleaved audit data
— multi-source audits
— single server or multi-server view
— customizable reporting tool
— filtering mechanism to extract selected data
— Event Monitor for automatic alerts and feeds
— user-definable alerts
— ACI Base24 information (optional plug-in available November 1st.)
— feed for enterprise audit tools & systems
XYGATE Merged Audit

Audit Streams

• Collection Feeds
  — EMS
  — Measure
  — Safeguard
  — ODBC/MX, JDBC/MX (via EMS messages)
  — XYGATE product audit trails (from other XYPRO products)
  — ACI Base24 OMF file & EMS messages (optional plug-in product)

• Compliance Feeds
  — HP Compliance Log Warehouse (CLW)
    (HP worked with XYPRO on this integration)
  — RSA enVision
  — LogLogic
  — Splunk
  — ArcSight Log Management Suite

Customers have successfully used Merged Audit to migrate data streams into these other devices as well.
XYGATE Merged Audit
High Level Architecture
XYGATE Merged Audit Screenshot
Report Manager: Predefined Reports Screen
XYGATE Merged Audit Screenshot
Report Manager: Predefined Reports Screen

Available PCI reports are listed by PCI DSS 1.2 section ID
### PCI 2.2.3 - SFG - Global Config Changes

<table>
<thead>
<tr>
<th>DateTime</th>
<th>Product</th>
<th>Login</th>
<th>Result</th>
<th>Oper</th>
<th>Object Type</th>
<th>ObjName</th>
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<tbody>
<tr>
<td>2009-07-07:15:31</td>
<td>SAFEGUARD</td>
<td>SUPER.SUPER</td>
<td>Audit-Access-Pass None to All</td>
<td>CHANGE</td>
<td>ACL-DISKFILE</td>
<td>SUTLH_TERRI_MYFUP</td>
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*Page 1 of 4*
XYGATE Merged Audit Report Sample

Report Manager: Logon Report

<table>
<thead>
<tr>
<th>Product System</th>
<th>From User Name</th>
<th>To User Name</th>
<th>Result</th>
<th>Terminal</th>
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<tbody>
<tr>
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<td>Wrong-password Verifyuser to User QA.TISH 232.004</td>
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<td>XYZ7000.SVHS</td>
</tr>
</tbody>
</table>

Logon Report Page 1 of 2
XYGATE Merged Audit
Supported Platforms and RVUs

• Supported hardware/Software
  — G Series platforms – all RVUs
  — H Series platforms – H06.06 or later RVUs
  — J Series platforms – J06.03 or later RVUs

• No special firmware required.
• System needs to include Pathway
High performance appliance with compliance analysis and real-time alerts

Secure, centralized event capture and analysis

- Collects, compresses and stores log record data in a replicated repository designed for high speed analysis to support audits or forensic investigations.
- Supports multiple servers across the data center.

Automates expensive data capture

- Collects and parses millions of events
- Provides multiple types of reports as well as ad hoc reporting for compliance analysis.

Real-Time Alerts

- Real Time Alert Manager scans logs and record data from numerous sources in real-time to alert when potential security related or natural events occur.
- Alerts trained personnel for action.
Maximizing CLW Investment

The CLW accepts input sources from multiple systems and system types concurrently to enable reporting on the compliance of the entire data center.

Log and Analysis Manager
- Provides high speed collection and analysis of log data that automates compliance reporting of many industry and government standards.
- Collects, compresses and stores log record data in a replicated repository designed for high-speed analysis for audits or forensic investigations.

Real-Time Alert Manager
- Scans log record data from numerous sources, in real-time, for potential security-related or natural events and alerts trained personnel for action.

Compliance Audit Reports
The Data Streaming transfer method uses syslog (incorporated into Merged Audit) to use UDP to stream or “push” data to the CLW continually from the NonStop server.

A “script” to enable event loading without using Merged Audit is also available today.

This data transfer method offers close to “real time” data availability for reporting.

There is some risk - if network is interrupted during update a potential data loss is possible.
Schedule and ordering
# Schedule and Availability

<table>
<thead>
<tr>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
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</thead>
<tbody>
<tr>
<td>New OS Security Enhancement included in new system orders</td>
<td>Old SSH products becomes Controlled Availability</td>
<td>New OS Security Enhancement available for existing customer upgrades!</td>
<td></td>
</tr>
<tr>
<td>G Series Merged Audit &amp; ACI Base24 Plug-in Available</td>
<td>Merged Audit ACI Base24 Plug-in available for all platforms</td>
<td>Old SSH products no longer orderable.</td>
<td></td>
</tr>
</tbody>
</table>

## New OS Bundle Dates:
- **September 1**: Available with all new system orders.
- **November 1**: Available as OS Software upgrade

## Pre-existing SSH PIDs:
- **September 1**: Are now Controlled Availability for new orders
- **November 1**: Old PIDs will not longer be orderable.

## G Series Merged Audit & ACI Base24 Plug-in Available
- **November 1**: New products available for order
Other questions
FAQs and Answers

What if I purchased SSH on my system from HP in the past but now want to purchase the new Security enhancement?

After November 1\textsuperscript{st}, you can move ahead with the purchase based on whenever your support contract for SSH comes up for renewal. Instead of renewing, you can purchase the new Security enhancement bundle, you’ll also receive SSL and XYGATE merged audit and have a lower support contract overall going forward.

We are not offering rebates, or refunds for prior purchases of NonStop SSH, but customer discounts may apply. Please talk to your NonStop sales rep for more details.
FAQs and Answers

What if I purchased SSL or XYGATE Merged Audit or another solution on my current system from a NonStop partner, but I now want to purchase the new Security enhancement?

You will need to work out support terms with the partner.

Partners are not reimbursing Support contracts which have already been purchased and paid for . . . HP recommends that you wait until your current support contract is up for renewal to migrate to the Security Enhancement add-on. However you may purchase the Security Enhancement addition with some overlap on the Support contract with a partner, this decision is up to you as a customer.
FAQs and Answers

Why do I need data in motion or security auditing?
For customers who are subject to compliance regulations, most regulations require that data in motion be secured. Security auditing helps the customer prove to themselves and to auditors that the system is secure.

Data in motion products such as SSL and SSH encrypt data being moved between systems to eliminate the risk if the data is intercepted during transmission. Auditing solutions like Merged Audit provide the customer a means of examining events that occurred on the system.

Customers who are not subject to these types of requirements today, will likely be facing security requirements in these areas in the future. HP will include these products from now on as a built-in part of the system to help customers in these areas of security.
FAQs and Answers

What if I only want one of these products?
In order to negotiate such a good deal with our Security partners and to pass that deal on to our customers, we must include all three products in the Software you receive.

However, you do not need to install or configure all three products. You can use only the ones you are interested to start with . . . in any combination that you want.

What if I don’t want any of these products?
Sorry, but these products are now part of the base system software bundle from now on for new system orders. There is no impact on existing systems at a customer’s site, and no requirement for a customer to use these products on their system. We’ve made them as close to free as we can . . .
Questions?
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Security WebSite:
http://www.hp.com/go/nonstop/security

HP NonStop Manuals:
http://h20000.www2.hp.com/bizsupport/TechSupport/Product.jsp?lang=en&cc=us&taskld=101&contentType=SupportManual&docIndexId=64255&prodTypeId=15351&prodCatId=407843
Outcomes that matter.