Compaq *OpenVMS* Times

SPECIAL EDITION

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In This Issue...

COMPAQ

Compaq *OpenVMS* — e-business without compromise

By Rich Marcello, Vice President, OpenVMS Group

Compaq Enterprise Technical Symposium 2000
For the User, Partner, Developer, and Compaq Engineering Communities
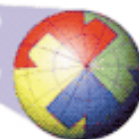
This special issue of the *OpenVMS™* Times celebrates the 3 October 2000 Compaq *OpenVMS* launch, which took place at CETS2000 in Los Angeles. We announced new and enhanced *OpenVMS* capabilities to meet your e-business requirements. Headlining the announcement was *OpenVMS* Version 7.3, the latest release of Compaq's highly-regarded operating system, which delivers new and improved RAS capabilities, new additions to Compaq's touted Galaxy software architecture to support the new Compaq *AlphaServer™* GS Series systems, and several new e-business products and technologies.

We also announced a number of new business initiatives that position Compaq *OpenVMS* for future growth including:

- A five-year, multi-million dollar agreement between Compaq and Cerner Corporation in support of Cerner's new state-of-the-art Application Server Provider (ASP) Central Data Center.

- A Compaq *OpenVMS* Educational License Program offered to all educational institutions around the world.

- Introduction of the *OpenVMS* portal at **www.openvms. compaq.com/portal**, providing a "community of interest" to find information about *OpenVMS* products and services, find people with *OpenVMS* expertise, train employees on *OpenVMS*, buy *OpenVMS* products through the Web, and more.

- The Defense Information Infrastructure Common Operating Environment (DII COE) initiative — further reinforcing the *OpenVMS* presence in the defense industry and the long-term commitment of *OpenVMS* to the government sector and beyond.

- A Compaq and Digital Press Agreement that strengthens and enhances the working relationship to update existing Digital Press *OpenVMS* titles, generate new titles, and engage in joint marketing activities.

- A comprehensive worldwide system integrators (SI) program with key partners to deliver *OpenVMS* solutions.

This issue contains supporting articles about the announcement. More information is available at our website: **www.openvms.compaq.com**.

These are exciting times for *OpenVMS*. We have a solid strategy and an excellent team to execute that strategy. This latest announcement brings this strategy to fruition and shows how *OpenVMS* is an excellent enabler for your e-business needs. ❖

Replay, please!

TeleForum replay of "Compaq *OpenVMS* — e-business without compromise"

If you missed the presentation, "Compaq *OpenVMS* — e-business without compromise", or want to hear it again, here's your chance. This presentation unveiled recent marketing campaigns for *OpenVMS* and the products and programs associated with the 3 October *OpenVMS* announcement — including *OpenVMS* V7.3. Learn about all the new products that make *OpenVMS* the e-business enabler, and the programs that position *OpenVMS* for growth.

The teleforum replay is available under "What's New" on **www.openvms.compaq.com** ❖

OpenVMS in the news!

COMPAQ UNVEILS NEW AND ENHANCED OPENVMS CAPABILITIES TO MEET CUSTOMERS' E-BUSINESS REQUIREMENTS

In case you missed this 3 October Compaq press release, please visit: **www.compaq.com/newsroom/pr/2000/pr2000100301.html**

Write-ups from the announcement have been very positive:

COMPAQ ANNOUNCES NEW AND ENHANCED OPENVMS OPERATING SYSTEM PRODUCTS

IDC Commercial Systems and Servers Newsletter
Server News: Period Ending October 4, 2000, Product News, pp 6-7 (Requires IDC subscription service)

COMPAQ RATCHETS UP OPENVMS WITH V7.3

ComputerWorld
http://www.computerworld.com/cwi/story/0,1199, NAV47-81_STO52144,00.html

And, see what others had to say in response to the ComputerWorld article in:

NeworkWorldFusion Forums
http://www.nwfusion.com/cgi-bin/ WebX.cgi?230@53.5qXda6UdkRi^0@.ee6f641

Plus...

COMPAQ MAKES GOOD ON COMMITMENTS TO VMS WITH OPENVMS V7.3

Computergram International, 4 October 2000
http://www.computerwire.com/computergram/
(Search for: "VMS"; subscription service required)

And from the largest weekly IT newspaper in France...

OPENVMS LIVES AGAIN (COMPAQ REINVIGORATES OPENVMS) [In French] Le Monde Informatique

http://www.lmi.fr/semaine/2000/868%5F14%5 Fsystemed%5Fexploi00.htm

OPENVMS LIVES ON

IT-Director.com, 5 October 2000
http://www.it-director.com/00-10-05-3.html?itde0510

OpenVMS launches exciting new customer portal!

You can't pick up a newspaper or magazine or watch the evening news without hearing about something new on the Internet. One very important component of the Internet explosion is the Internet portal — a website that brings together products, services, and overall information for a specific market. The auto makers, chemical industry, and even sports teams have all created portals. And now *OpenVMS* has one!

Over the past six months, a team within *OpenVMS* has been hard at work developing a portal for our customers. The vision of the *OpenVMS* Portal is to offer customers "one-stop shopping for all their *OpenVMS* needs," bringing together all the things that *OpenVMS* customers might want or need in one place — technical information, training, online help, the *OpenVMS* eStore, even an *OpenVMS* jobs board. Our goal is to create a virtual *OpenVMS* community through the *OpenVMS* portal.

We are now very pleased to announce the *OpenVMS* Portal. This is the first deployment of this portal, and over time we will be adding even more features.

The *OpenVMS* Portal takes our website access to a new level by adding an interactive element. In addition to giving you access to product information, white papers, announce-ments, and other technical documentation you found on the *OpenVMS* website, you will also find the following new and interactive features:

- **Web-based training** "*OpenVMS* Primer for System Managers" is the first in a series of Web-based training courses available on the *OpenVMS* Portal. This course provides an introduction to the operating system, including *OpenVMS* capabilities, concepts, and terminology.

The course includes interactive examples. Keep checking this area for new courses!

- **The *OpenVMS* eStore** Here you can purchase *OpenVMS* products online using a credit card. You'll see a picture of the product, get the details of the product, and then add that product to your shopping cart. In addition to software and documentation, the eStore also includes no-cost or pay-for-shipping-only items. We will also be adding new items to the eStore as time goes on.

- *OpenVMS* **Jobs Board** Through an agreement with Monster.com, the portal allows businesses seeking people with *OpenVMS* expertise to locate candidates quickly and easily. It also allows individuals with *OpenVMS* experience to post resumes for all companies looking for *OpenVMS* talent to see. When you access the jobs board through the portal, you'll see presorted lists of professionals with *OpenVMS* expertise. This new relationship with Monster.com represents a major milestone in helping customers find *OpenVMS* resources and in helping experienced *OpenVMS* people find careers.

- **Enhanced search capabilities** In addition to the AltaVista keyword search, we've added *OpenVMS* content to the "Ask Compaq" natural language search. Now you can search either by keyword or by entering a question such as "How do I connect an HP printer to my *OpenVMS* system?" The "Ask Compaq" feature includes several pre-defined search areas such as strategy and products, solutions and applications, e-business, *OpenVMS* Galaxy, and so on. We've added keywords to the "Ask the Wizard" questions and answers so you can find topics more quickly. We've also reorganized the "Ask the Wizard" pages to make them easier to use.

This is an exciting time for *OpenVMS* and our portal is another proof point of the Renaissance of Compaq *OpenVMS*. The *OpenVMS* Portal celebrates an operating system that has stood the test of time, and is still an industry leader in the availability, reliability, and scalability needed to take your business to the Internet.

Join us in this exciting journey and visit the *OpenVMS* Portal at **www.openvms.compaq.com/portal** ❖

Terry Shannon on OpenVMS...

OpenVMS Gets Cozy with COE

Compaq's *OpenVMS* developers — and loyal customers alike — are all too familiar with unfounded and recurring rumors about the near-term retirement of the operating system. Despite the fact that *OpenVMS* represents a ~$4B business that continues to attract new mission-critical customers as well as incremental Compaq investments, conventional wisdom has it that *OpenVMS* will go the way of the *VAX* architecture. Nothing could be further from the truth, and Compaq is now ready to make the long-term viability of *OpenVMS* a "federal case."

Because of its "weapons-grade" performance, reliability, availability, security, scalability, and performance attributes, *OpenVMS* has long served on active duty in a variety of U.S. Department of Defense agencies ranging from the Navy and Air Force to three-letter members of the intelligence community. To fortify and expand the presence of *OpenVMS* in the defense industry, Compaq *OpenVMS* Engineering is rendering *OpenVMS* compliant with the Defense Information Infrastructure (DII) Common Operating Environment (COE) Initiative. More than another pair of three-letter acronyms, DII COE can be translated into newfound applications portability — and Compaq's commitment to support *OpenVMS* for at least twenty more years.

The COE specification is a set of standards that describes a plug-and-play open architecture based on a client server model defined by the Defense Information Systems Agency. The goal of the COE standards is to provide a common user interface, installation, and user environment across multiple operating systems. COE compliance already is mandatory for U.S. Department of Defense bids; it's likely to become a NATO check-off item as well. No less important is the fact that many government contracts now require bidding vendors to officially commit to support their platforms for up to twenty years. Accordingly, the COE initiative ensures that — even at the "ripe old age" of 24—*OpenVMS* is just entering the prime of its life.

In order to render *OpenVMS* fully compliant with COE standards, Compaq is fortifying the OS with UNIX-style pipes, common user identification calls, file system enhancements, ODS-5 support in the NFS and FTP server and client, and fork improvements. The final goal is to achieve full POSIX compliance within *OpenVMS* and the runtime library. Fortifying *OpenVMS* with UNIX interfaces not only will ease the porting of the COE Kernel that was originally developed on UNIX platforms, the modifications will ensure that any UNIX-style application can easily be ported to *OpenVMS*. In the early 1990s, rival vendors had a field day migrating *VAX/VMS*™ customers to various UNIX platforms. The combination of a resurgent *OpenVMS* business and COE compliance may enable Compaq to prove that "what goes around, comes around."

The COE-fication of *OpenVMS* is proceeding rapidly, due in part to the experience of Compaq *Tru64* UNIX developers (Compaq last year became the first vendor to complete the DII COE Kernel Platform Compliance program by extending COE support to *Tru64* UNIX). *OpenVMS* Engineering aims to achieve COE certification by the end of this year on *OpenVMS* V7.2. Distribution of the initial COE-compliant *OpenVMS* release, which will be qualified on *AlphaServer* ES40 systems only, will begin early next year. A fully qualified and supported post-V7.3 *OpenVMS* release containing all the new COE features will be available in the second half of 2001. COE compliance should reassure customers and prospects that *OpenVMS* is viable for the long haul, and the initiative may infuse UNIX-centric rivals with a newfound sense of vulnerability.

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Terry C. Shannon, consultant and publisher of Shannon Knows Compaq (SKC), has more than 25 years experience in the IT industry as an OpenVMS system manager, programmer, analyst, journalist, and consultant. Mr. Shannon's opinions are his own and do not necessarily reflect the opinion of Compaq Computer Corporation. – Editor

Unveiling Compaq *OpenVMS* V7.3 operating system!

Compaq *OpenVMS* solutions have a track record of delivering the highest levels of reliability, availability, scalability, flexibility, performance, and security required for e-business. With more than 20 years of proven reliability, *OpenVMS* continues to improve its availability and performance by delivering new technology into the base operating system and the *OpenVMS* cluster environment. In addition, the base infrastructure technologies needed to support e-business applications have been incorporated into the *OpenVMS* license, so *OpenVMS* is e-business and Internet ready!

OpenVMS business solutions allow robust data serving for today's business environment, integration with other business systems and platforms, and collaborative computing with both Compaq and non-Compaq environments.

Look what's new!

- Improved disaster tolerant capabilities with ATM and Gigabit Ethernet as cluster interconnects because of their inherent high performance and long distance capabilities.
- Greater system availability during backups, with faster reintegration of shadow members after copies.
- Enhanced *OpenVMS* support for the latest Enterprise Network Storage Architecture (ENSA) storage offerings.
- Greater flexibility for the new *AlphaServer* GS systems with CPU Online Add/Remove.
- Higher system and application performance.
- Extended File Cache, which can yield substantial application performance benefits.
- Improved cluster, SMP, and system performance through enhancements to RMS and the clusterwide Lock Manager, as well as FastPath support for Fibre Channel and SCSI storage architectures.

Expanded *OpenVMS* security options!

- Industry-standard Kerberos V5 security, which allows *OpenVMS* applications to communicate and authenticate with Windows NT5 domains and UNIX platforms.
- *OpenVMS* Intrusion Detection expands to be cluster-wide, reducing chances of system break-ins.

**Plus, the *OpenVMS* license now includes all these new e-business technologies!**

- Compaq Secure Web Server V1.0 for *OpenVMS Alpha*
- Compaq Java 2 SDK, Standard Edition, V1.2.2 for *OpenVMS Alpha*
- Compaq COM V1.1-B for *OpenVMS*
- Attunity Connect "On Platform" Package for *OpenVMS* (Native JDBC)
- Reliable Transaction Router (RTR)
- *OpenVMS* Enterprise Directory for eBusiness (X.500)
- Extensible Markup Language API (XML parser)

For more information and availability, please see:
www.openvms.compaq.com/ebusiness_without_compromise.html ❖

Did You Know?

If you're using the underground in London, the electric lights lighting your way are controlled by an *OpenVMS* system.
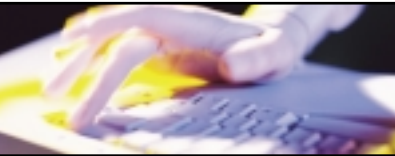
Enhanced *OpenVMS* Galaxy delivers performance and flexibility

OpenVMS Galaxy, which allows multiple instances of *OpenVMS* to run on a single *AlphaServer* system, has consistently delivered the high performance and operational flexibility that customers need to handle changing business demands. As part of the 3 October *OpenVMS* announcement, *OpenVMS* Galaxy enhancements allow remote management of *OpenVMS* and quick adaptation to the constantly changing needs of day-to-day business activities.

Look at the new features!

- Remote Management of *OpenVMS* Galaxy from a Windows NT system — through a Web interface, or with Compaq Insight Manager for managing unpredictable, variable, or growing workloads.

- Support of Compaq DECram V3 — which allows multiple instances of *OpenVMS* to directly access a RAM disk in Galaxy shared memory. This feature improves application performance by using memory as a pseudo disk, thus eliminating disk I/O.

- Optimizations that allow Galaxy to take full advantage of the advanced architecture of the new *AlphaServer* GS Series systems — which include the ability to run multiple instances of *OpenVMS* in a hard partition and the ability to perform online addition and removal of CPUs.

A demonstration in the CETS 2000 Living Lab and several symposium sessions highlighted these new capabilities, as well as the ability of the new *AlphaServer* GS Series systems to run multiple operating systems (*OpenVMS* and *Tru64*™ UNIX) on a single system.

These *OpenVMS* Galaxy enhancements confirm Compaq's continued commitment to *OpenVMS* and the delivery of e-business without compromise, as outlined in the *OpenVMS* announcement. ❖

Unveiling Compaq DECram V3.0 for *OpenVMS*

Available in Q1 2001, Compaq DECram for *OpenVMS* is a disk device driver that improves I/O performance by allowing an *OpenVMS* system manager to create pseudo disks (RAMdisks) that reside in main memory. Frequently accessed data can be accessed much faster from a DECram device than from a physical disk device.

In V3.0, DECram's capability is extended to use *OpenVMS* Galaxy shared memory to create an *OpenVMS* shared memory disk. This allows customers to take advantage of *OpenVMS* Galaxy shared memory — with no modifications to any of their applications.

Requirements

- V3.0 is supported on *OpenVMS Alpha* V7.2 or higher

- V2.3 will continue to be available and supported on *OpenVMS VAX*™ V6.2 through V7.2 and *OpenVMS Alpha* V7.1 and V7.2

While DECram V3.0 cannot run on a *VAX* system, the RAMdisk can be accessed by *VAX* systems in an *OpenVMS* cluster.

Compaq DECram V3.0 for *OpenVMS* will run in the following configurations:

- *OpenVMS* Galaxy systems that are configured as one or more members of an *OpenVMS* cluster

- Standalone *OpenVMS*-based *Alpha* systems

- *OpenVMS* clusters consisting of all *Alpha*s or *Alpha* and *VAX* systems

When using Compaq DECram for *OpenVMS* V3.0, customers must increase the memory size by an amount equal to the size of all the RAMdisk that they expect to be created.

For more information, visit
www.openvms.compaq.com/portal ❖

OpenVMS goes to college! Announcing the *OpenVMS* Educational License Program

On 3 October, Compaq announced the *OpenVMS* Educational License Program. This program allows schools, colleges, and universities to receive free licenses for *OpenVMS* and over 100 *OpenVMS* layered products for all of their students, staff, and administration who would like to run *OpenVMS* on computer systems affiliated with their institutions.

Eligible institutions must register on our program webpage to receive a school number. Students, faculty or administrators can then use the school number by going to the webpage and placing a single request for all the *OpenVMS* license PAKs they need. The requested PAKs will be returned to them via e-mail.

Based on the successful *OpenVMS* Hobbyist Program, the *OpenVMS* Educational License Program will distribute licenses that will expire each August. Schools will be notified and need to re-register to receive new PAKs. Special Educational and Hobbyist *OpenVMS* CD-ROM software and documentation distributions will also be available on the webpage for Hobbyist or Educational License users to purchase.

The website will be ready for use in Q4 2000. Watch for details at: **www.openvms.compaq.com** ❖

OpenVMS directory services strengthen e-business solutions

Underlining our commitment to e-business, *OpenVMS* is bundling the Enterprise Directory for eBusiness. This proven X.500-based product delivers robust and scalable directory services across intranets, extranets, and the Internet to customers, suppliers, and partners. It combines the best of both the industry standard LDAPv3 and X.500 capabilities. The former allows access by a wide variety of LDAP clients, user agents, and applications. The latter brings very high performance, resilience, advanced access controls, and automatic replication across the enterprise.

In conjunction with Entrust/PKI 5 — with which it has been certified — this directory ensures at sign-on that all users may be authenticated with zero latency and that each gains access only to those resources for which they are authorized.

The *OpenVMS* Enterprise Directory for eBusiness can contain information on anything of interest — including people, systems, network resources, applications, authentication certificates, and databases. It can be accessed by individual users, applications, and software developers. Both the established DAP interface and the LDAPv3 interface may be accessed simultaneously by disparate applications, thereby delivering full integration with existing environments. Combined with the directory's built-in robustness, highly extensible schema, group access controls, and automatic replication capabilities, the combination is ideal for large scale global corporate deployments and very large scale ISP/ASP deployments serving a myriad of customers.

For ISPs and ASPs, the hardware and software partitioning capabilities of *OpenVMS* Galaxy and the *AlphaServer* GS series ensure that multiple customers can be supported with complete independence from each other. Partitioning also ensures that every user may have access to very high

performance directory services from log-on to log-off, without having to go off-platform.

The *OpenVMS* Enterprise Directory for eBusiness complements the Oracle eBusiness suite and Oracle Internet Directory for those customers that choose not to adopt the Oracle solution. ❖

Now available for download: Apache-based Compaq Secure Web Server V1 for *OpenVMS Alpha*

Apache, the world's most widely deployed Web (HTTP) server that powers over nine million Internet servers, is now available as Compaq Secure Web Server (CSWS).

CSWS is a fully secure Secure Sockets Layer (SSL) Web server. SSL is the open standard security protocol for transferring sensitive information over the Internet, intranets, and extranets. With CSWS, you can ensure a level of security that cannot be achieved by other means.

Building on the Apache V1.3.12 source code from the Apache Software Foundation (**www.apache.org**), Compaq *OpenVMS* engineering has incorporated and fully integrated OpenSSL with mod_ssl, the most popular open-source implementations of SSL. CSWS features an easy-to-use certificate tool that greatly simplifies creating and managing certificates through a simple user interface.

The Compaq Secure Web Server technology is licensed with the *OpenVMS Alpha* operating system license agreement and is fully supported by Compaq Services.

CSWS is available for immediate download from Compaq's Apache Web Server homepage: **www.openvms.compaq.com/ openvms/products/ips/apache/apache.html** ❖

Cerner partners with Compaq to enter ASP market
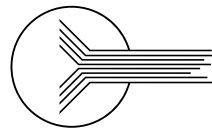
Compaq and Cerner Corporation, a leading developer of clinical and management information systems, have entered into a five-year, multi-million dollar agreement through which Compaq will provide *AlphaServer* systems, the *OpenVMS* operating system, and *StorageWorks*™ products for use in Cerner's new state-of-the-art Application Server Provider (ASP) Central Data Center.

This agreement enables Cerner, a long-time Compaq partner and customer, to more effectively and efficiently expand its services into new markets and scale its solutions to meet existing and future client requirements.

Located in Kansas City, Cerner's new Central Data Center includes a technology center, a team of specialized knowledge associates, client access to Cerner software, and the ability to coordinate Cerner's capabilities to deliver a client solution. Compaq *OpenVMS* on *AlphaServer* systems is Cerner's leading platform because it delivers the stability, scalability, and high availability required for a healthcare ASP.

While many sectors of the healthcare industry are struggling, Cerner has positioned itself to dominate the industry by fundamentally changing the way consumers receive heathcare. In fact, sales of Cerner's flagship software suite, Health Network Architecture (HNA) Millennium, drove record third quarter revenues of more than $100 million in 2000.

Health organizations worldwide use HNA Millennium to make more effective decisions, streamline processes, reduce cost, and deliver higher quality care across multiple disciplines and care facilities. Driven by the increasing role of the ASP delivery model, Cerner is now making its applications accessible to clients via the Internet.

Paul N. Gorup, Cerner Vice President and co-founder, says, "Through our ASP model, Cerner delivers a comprehensive, efficient solution to improve the quality and safety of

healthcare at smaller healthcare organizations that could not or do not want to support their own solution. At the core of Cerner's ASP solution is Compaq's workhorse, *OpenVMS*, on an *AlphaServer* platform. With the help of Compaq in the ASP space, Cerner is penetrating new markets and serving additional segments of clients who need cost-effective, reliable, new-generation solutions for their evolving needs."

For more information on Cerner, visit **www.cerner.com** ❖

New partnership agreement! *OpenVMS* Group and Digital Press

dp

Digital Press
An imprint of Butterworth-Heinemann

Compaq's *OpenVMS* Group and Digital Press recently established a partnership agreement to strengthen and enhance their working relationship. The two companies are collaborating to update current Digital Press *OpenVMS* titles, generate new titles, and engage in joint marketing activities.

The *OpenVMS* Group and Digital Press are currently working to develop future products and investigate Web-based delivery. Working together, they are creating a working business plan and will cross-promote products and services through their respective channel partners. Initial priorities include updating existing *OpenVMS* cluster and system management titles, as well as writing new books about topics such as e-business and the *OpenVMS* Galaxy computing environment.

The *OpenVMS* Group considers Digital Press a strategic *OpenVMS* partner and greatly values their ability to deliver technically accurate information — including books and electronic media — written by experts who use *OpenVMS*. This agreement ensures a strong, successful relationship between *OpenVMS* and Digital Press, and will serve to drive new business opportunities. ❖

New! Compaq Java 2 SDK, Standard Edition, V1.2.2 for *OpenVMS Alpha*

OpenVMS is focused on bringing the highest levels of scalability and reliability to business-critical Java environments including e-business solutions. This is the first release of Java 2 on *OpenVMS Alpha*.

The Java Software Development Kit (SDK) provides an environment in which to develop and deploy Java applications on *OpenVMS Alpha*. Java applications can be written once and run on any operating system that implements the Java run-time environment. A set of building blocks, the Java 2 SDK contains basic development tools and class libraries that include:

- Java Virtual Machine (JVM), the Java run-time environment
- Just-In-Time (JIT) Java Compiler, providing increased run-time performance over the interpreter-based JVM
- Java Class Libraries
- Java Applet Viewer
- Java Debugger and other tools
- POSIX threads (pthreads) implementation
- Traditional *OpenVMS* and UNIX command line interfaces
- Flexible options for representing UNIX directory and file specifications on an *OpenVMS* system

Together with our partners including IONA Technologies, BEA Systems, and Oracle, Compaq will provide Java 2 Enterprise Edition (J2EE)-compliant solutions on *OpenVMS* that are built upon the Java 2 Standard Edition capabilities.

The right to use Java is included with the *OpenVMS* base operating system license. No additional license is required. Java for *OpenVMS Alpha* is fully supported by Compaq. For more information, visit: **www.openvms.compaq.com/ ebusiness_without_compromise/fact/JAVA.HTML** ❖

# Now available — Compaq Reliable Transaction Router V4.0

Reliable Transaction Router (RTR) software is a fault tolerant transactional messaging middleware product used to implement large distributed applications in client/server environments. Compaq customers worldwide use RTR for global e-business transactions and data integrity in stock exchanges, the financial services industry, online trading over the Internet, and railway reservation systems. At Compaq, we are proud that many of our largest customers around the world are running their businesses on proven Reliable Transaction Router technology.

Now this technology is even better. RTR V4.0 provides customers with an object-oriented interface, Web-based system management, and transaction shadow performance enhancements. This new release is scheduled to ship by the end of 2000.

For more information on RTR, please visit:
www.compaq.com/rtr ❖

Unveiling TCP/IP Services for *OpenVMS*, V5.1
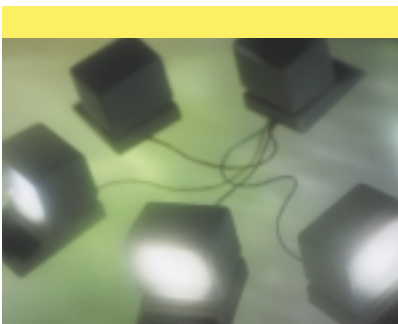
Running on both *VAX* and *Alpha* systems, Compaq TCP/IP Services for *OpenVMS*, V5.1 is Compaq's industry-standard implementation of the TCP/IP and NFS networking protocols on the *OpenVMS* platform. Integrated with the *OpenVMS* operating system, Compaq TCP/IP Services for *OpenVMS* provides interoperability and resource sharing among systems running *OpenVMS*, UNIX, Windows NT, and other operating systems that support TCP/IP. V5.1 provides a comprehensive set of functions and applications that support industry-standard protocols for heterogeneous network communications and resource sharing. It also incorporates the TCP/IP protocol stack from Compaq *Tru64* UNIX V5.1.

This new version provides enhancements such as NFS V3, the ability to run NFS over TCP, and an Anti-SPAM relay for SMTP mail. It also contains Internet Protocol V6 (IPv6) support for Transmission Control Protocol (TCP), User Datagram Protocol (UDP), raw sockets, and IPv6 support for commands and utilities. This support is for those customers who want to start using IPv6 today, as well as those who want to test or experiment with IPv6. This support is in addition to the IPv4 support already in TCP/IP Services for *OpenVMS*. V5.1 ensures transparent backward compatibility with earlier versions of the product and is supported on *OpenVMS Alpha* V7.1 and V7.2 and *OpenVMS VAX* V7.1 and V7.2.

Compaq TCP/IP Services for *OpenVMS* provides a full TCP/IP protocol suite including IP/Multicasting, Dynamic Load Balancing, Rlogin PROXY, network file access, remote terminal access, remote command execution, remote printing, mail, application development, Post Office Protocol (POP), SNMP Extensible agent (eSNMP) and Finger Utility.

Benefits of this release include:

- Ease of network management
- Ease and speed of adding new features
- More available IP addresses
- More routing protocols for greater versatility
- Implementation of the latest industry standards for maximum interoperability with other platforms
- Easy transition to IPv6
- The leading edge of standard Internet technologies
- Preservation of the secure, high-performance, enterprise-wide computing environment of the *OpenVMS* operating system
- Consistency for managing network systems in a mixed platform environment
- Cross-platform integration and access
- Flexible protocol support

Compaq TCP/IP Services for *OpenVMS*, V5.1 for *VAX* and *Alpha* systems will be available in Q1 of calendar year 2001.

For more information, visit: **www.openvms.compaq.com/ network/networking.html** ❖

Announcing Compaq Advanced Server V7.3 for *OpenVMS Alpha*

The Compaq *OpenVMS* group is pleased to announce Compaq Advanced Server V7.3 for *OpenVMS Alpha* — Compaq's newest enterprise file and print server for *OpenVMS*. It provides Windows desktops with highly available file and print services through *OpenVMS* clustering. Available late Q4 CY 2000, Advanced Server V7.3 for *OpenVMS* fully supports the domain features available in Windows NT domains, which enables *OpenVMS* to participate fully in a network with a Windows NT/Windows 2000 server and provides enhanced support for Windows desktops.

Here's what's new and improved!

*   Support for *OpenVMS Alpha* V7.3 and V7.2-1

*   Full support of Windows 2000 clients and Windows 2000 domain controllers in the same domain as the Advanced Server. With support of the member server role (see below), the Advanced Server can participate in a pure (native) Windows 2000 domain.

*   Support for the member server role, providing the option of configuring the server as a member server instead of a primary domain controller (PDC) or backup domain controller (BDC). Configuring the Advanced Server for *OpenVMS* as a member server allows the Advanced Server for *OpenVMS* to participate in a native mode Windows 2000 environment (a domain in which all domain controllers are Windows 2000 systems).

*   Advanced Server V7.3 for *OpenVMS* will support certain Unicode characters or extended character sets that are foreign to the Western European languages. A total of 43 supported languages make available a broader set of characters for objects managed by the Advanced Server — including file names, user names, group names, and file and print share names. Each language is associated with one of the following character sets supported by Advanced Server: ISO-8859-1, 2,5,7,8,9.

*   Advanced Server V7.3 for *OpenVMS* will now create MS-DOS-compatible alias file names for shared files whose names do not conform to the MS-DOS 8.3 format. As a result, client applications that use the MS-DOS format for file names can access these shared files on the server by using the file's associated file alias name.

*   The management of printers defined on the Advanced Server now include support for the Windows NT "Add Printer" wizard, including installation of the required drivers for printers on the Advanced Server for automatic downloading to the clients.

*   Advanced Server provides dynamic cluster load balancing for service requests from WAN clients. This new dynamic cluster load balancing mechanism for WAN environments is provided by Compaq TCP/IP Services for *OpenVMS* V5, and uses a Domain Name System (DNS) server to resolve the cluster alias name, instead of WINS or LMHOSTS.

*   Added support for the POLYCENTER Software Installation (PCSI) utility to install the Advanced Server for *OpenVMS*.

For more information, please visit:
www.openvms.compaq.com/advancedserver ❖

Announcing Compaq DECforms Web Connector V3.0
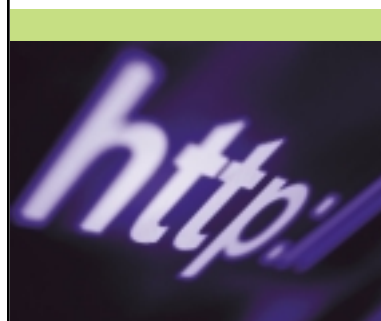
Compaq DECforms Web Connector is a layered software product that provides transparent Web access to existing inter-active applications, including ACMS applications, running on *OpenVMS* systems where Compaq DECforms for *OpenVMS* was used to implement the forms-based user interface.

Available now, this new release provides:

*   Web access to existing character-cell, terminal-based applications, without programming or application modifications.

- A cost-effective way to preserve application system investments and extend the life of existing applications.

- A flexible migration path towards Windows-based graphical user interfaces.

Compaq DECforms Web Connector operates in a three-tier networked environment consisting of an *OpenVMS*-based *VAX* or *Alpha* back-end system, Web server middle tier, and a Web browser interactive user tier.

Here's how it works. The application program remains on *OpenVMS*. The DECforms runtime component on *OpenVMS* operates in conjunction with the DECforms Web Connector Session Manager and Display Manager components. The Session Manager runs on the Web server and manages the application sessions between the DECforms runtime component on the *OpenVMS* system and the Display Manager applet that is down-loaded to the Web browser system. ❖

New! Attunity Connect "On Platform" Package for *OpenVMS*

A T T U N I T Y Attunity Connect is object-oriented middleware that lets you extend the life of your existing data and applications and preserve your significant IT investments. Attunity Connect facilitates the development of applications that access, integrate, and update data from multiple, heterogeneous sources across a wide range of operating system platforms.

Attunity Connect V3.0 "On Platform" Package for *OpenVMS* provides:

- ODBC, JDBC, and XML client APIs

- ODBC, XML, and Oracle8i adapters

The Connect "On Platform" package is available for download at **www.openvms.compaq.com/ebusiness/index.html**

The full Attunity Connect 3.0 product provides:

- ODBC, JDBC, XML, ADO, and OLE DB client APIs

- Adapters for a large number of relational and non-relational data sources

- Support for a large number of popular platforms including UNIX, PC, *OpenVMS*, Tandem, and mainframes

These additional features are available directly from Attunity. For additional information, visit **www.attunity.com**

The Attunity Connect software manages access, query processing, integration, and other transactions across the enterprise information infrastructure. It can also join information from disparate information systems — with a single query — in the most efficient way for faster response.

Attunity Connect Adapters take advantage of platform-specific features to improve performance and compensate for data providers with limited or no SQL support — shielding developers and applications from differences among data sources. These capabilities will prove invaluable and save time and money in implementing critical e-business solutions. ❖