

Internet Express for Tru64 UNIX

Read This First

November 2001

Product Version: Internet Express Version 5.7 for Tru64 UNIX

Operating System and Version: Compaq Tru64 UNIX Version 5.0A or higher

This document describes new and changed features of Internet Express for Compaq Tru64 UNIX (previously known as Open Source Internet Solutions) Version 5.7. Read this document before installing or using Version 5.7 of the product.

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Internet Express Version 5.7

The Internet Express for *Tru64*TM UNIX product is included with, and provides Internet capability for, Compaq Tru64 UNIX *AlphaServer*TM systems. Internet Express was previously known as Open Source Internet Solutions. It is a suite of popular Internet and administration software that includes security products, mail servers, news and chat servers, an LDAP directory server, a choice of Web servers, and a variety of tools for providing dynamic Web content. The Internet Express product, order number QB-3NCAA-SA (worldwide), includes:

- The product license
- A set of Internet Express CD-ROMs that includes the Internet Express Administration software, the Compaq Secure Web Server, Compaq Internet Monitor, the iPlanet Directory Server, other Internet server software, and documentation, including HTML, PDF, and PostScript versions of the following documents:
 - *Internet Express for Tru64 UNIX Read This First* (this document)
 - *Internet Express for Tru64 UNIX Release Notes*
 - *Internet Express for Tru64 UNIX Installation Guide*
 - *Internet Express for Tru64 UNIX Administration Guide*
 - *Compaq Secure Web Server Administration Guide*
 - *Internet Monitor Administrator's Guide*
 - *Internet Services User's Guide*
 - *QuickSpec*
 - *Software Description and Licensing Terms*
 - *Internet Express for Tru64 UNIX Master Index*
 - *Best Practices documents for Internet Express* — These documents provide you with recommended methods for performing specific tasks, rather than presenting all options.

Additional Best Practices are available at the Tru64 UNIX publications Web site:

http://www.tru64unix.compaq.com/docs/best_practices/

1.1 New Features for Internet Express Version 5.7

Internet Express Version 5.7 includes the following new features:

- IPv6 support added to the IRC (Internet Relay Chat) server and client
- Secure Socket Layer (SSL) support added to UW-IMAP and Pine
- Xalan stylesheet processors for C++ added to the XML tools
- Apache Simple Object Access Protocol (SOAP) Server and Java client libraries added
- UDDI Client Libraries in Java added

1.2 New Documentation for Internet Express Version 5.7

Three new Best Practice documents have been added to the Best Practices page, available from the Documentation Bookshelf Page:

- *Planning a News Server Using Internet Express*
- *Configuring a News Server Using Internet Express*
- *Building mod_perl for Use with the Compaq Secure Web Server*

1.3 Updated Open Source Software

The following Open Source software has been updated for this release:

- Apache Version 1.3.20.
- Dante SOCKS Server Version 1.1.10
- Darwin Streaming Service (DSS) Version 3.0.1 [v338]
- Horde/IMP Version 2.2.6 Web-based mail client
- InterNetNews Version 2.3.2
- FrontPage 2000 Server Extensions Resource Kit Version 5.0
- Lynx Browser Version 2.8.4
- mod_fastcgi-2.2.10 Apache module for high-performance CGI
- OpenLDAP Version 2.0.15
- openssl Version 0.9.6b (included with the Compaq Secure Web Server)
- PHP Hypertext Preprocessor for Apache Version 4.0.6
- Pine mail client and Pico editor Version 4.33
- PostgreSQL Version 7.1.3
- ProcMail Mail Filtering Language Version 3.21
- Enhanced Qualcomm POP Server Version 4.03
- Samba File and Print Server Version 2.2.1a
- University of Washington IMAP4 Mail Server 2001.313
- Xerces XML parser for C++ Version 1.5.1

1.4 Other Updated Software

Internet Express Version 5.7 includes the following additional software updates.

- Internet Express Administration utility :
 - Administration menus for Cocoon and Apache SOAP (Simple Object Access Protocol) added
- Internet Monitor:
 - The administration page for creating or modifying an HTTP sampler has been modified to allow you to choose a connection type of Secure (SSL). The default connection type is HTTP.
 - The threshold framework has been modified to provide information to clients about both triggered thresholds (allowing alarms to be set) and previously triggered thresholds (allowing those alarms to be cleared). This information is available through additional information in threshold action e-mail bodies, new substitution tokens that can be used when specifying e-mail and system call threshold actions, and new message types in the Internet Monitor JMS event notification system.

- The iPlanet Directory Server has been upgraded to Version 4.15.

1.5 Evaluation Software

The following evaluation software is included on the Internet Express CD-ROM labeled “Sources and Evaluation Software”:

- Advanced AAA RADIUS Server

In addition to the Interlink Networks Basic AAA RADIUS Server included on the kit, the Internet Express CD-ROM includes an evaluation version of the fully featured Advanced AAA RADIUS Server from Interlink Networks, Inc. For instructions on how to install this evaluation software, see the `read_1st.txt` file in the `InterlinkNetworks` directory.

- Tarantella

The CD-ROM includes an evaluation kit for Tarantella Enterprise 3 from Tarantella, Inc. For instructions on how to install this evaluation software, see the `README.txt` file in the `tarantella` directory.

- Halcyon iAsp

Halcyon Software Instant ASP (iASP) provides for a portable active server framework that lets developers deploy Active Server Pages (ASP) on a Java-enabled Web server such as the Compaq Secure Web Server.

A Developer’s Edition of Halcyon Software iASP is provided with Internet Express. For instructions on how to install this software, see the file `iasp_sws.txt` in the `iasp` directory on the Internet Express CD-ROM.

More information on the iASP product can be found at the Halcyon Software Web site:

<http://www.halcyonsoft.com>

- Apache 2.0.16 Early Adopters Kit

Apache Version 2.0.16 is the first public Beta of the forthcoming Apache Version 2.0, an update which includes several new enhancements, including support for IPv6, the new Apache Portable Runtime, the new multiprocessing modules, and I/O filtering. This beta release is not intended for production use. Use it at your own risk. This kit is not supported.

This kit is provided for early evaluation of the Apache 2.0 features, especially the IPv6 support.

The evaluation kit is provided in the `/apache2` directory of the CD-ROM. The file `/apache2/README.txt` contains important information about the kit including instructions for installing the software.

- Service Location Protocol

The Service Location Protocol provides a scalable framework for the discovery and selection of network services. Using this protocol, computers using the Internet no longer need as much static configuration of network services for network-based applications.

The evaluation kit is provided in the `slp/` directory of the CD-ROM. See the `README.txt` file for more information.

- Tripwire for Servers

Tripwire for Servers software assures the integrity and security of data by notifying users if, when and how files have changed. It is the most widely deployed and trusted data integrity solution for today’s most popular platforms, including Compaq Tru64 UNIX. The software helps to ensure maximum system uptime by pinpointing the exact location and nature of change. Problem discovery can happen in minutes versus hours or even days, enabling fast,

efficient remediation. Tripwire for Servers detects change, whether accidental or deliberate, malicious or innocent and is the only way you can know if your servers have drifted from a known, good state.

The evaluation kit is provided in the `tripwire/` directory of the Internet Express CD-ROM. See the file `README.txt` for more information.

- IPv6 Sniff Tool

The `ipv6sniff` tool is intended to aid Compaq Tru64 UNIX users in porting applications to use IPv6 (Internet Protocol Version 6). For more information, see the `README.txt` file in the `ipv6sniff/` directory.

1.6 Software No Longer Included

In Versions 5.6 and later of Internet Express, the `Tcl`, `TclTk`, `TclX`, `expect`, and `tcl_cgi` components are no longer included. However, installations of these components from previous versions of Open Source Internet Solutions are not affected by the installation of Internet Express Version 5.7. If you would like to download and build these components yourself, they are available on the Internet as follows:

Component	URL
<code>Tcl/Tk</code>	http://dev.scriptics.com/software/tcltk/
<code>TclX</code>	http://www.NeoSoft.com/tclx/
<code>tcl_cgi</code>	ftp://ftp.digital.com/pub/DEC/IAS/tcl_cgi-1.6x.tar.Z
<code>expect</code>	http://expect.nist.gov/

Source code for these components is also still available in the `source-tar` directory on the Internet Express CD-ROM labeled “Sources and Evaluation Software.”

1.7 Unchanged Software

The following Internet Express software has not changed for this release:

- analog Version 4.03 (Web server log file analysis tool, included with the Compaq Secure Web Server)
- Apache/Jakarta Tomcat Version 3.2.1
- `auth_ldap` Version 1.4.5 (LDAP user authentication for the Compaq Secure Web Server)
- Calamaris Squid log file analysis tool Version 2.40
- Cocoon Web Publishing Framework Version 1.8.2
- Cyrus IMAP Version 1.6.24
- FOP Print Formatter Version 0.15.0
- Majordomo Mailing List Server Version 1.94.5
- `mod_ssl` Version 2.8.1–1.3.19 (included with the Compaq Secure Web Server)
- Perl Version 5.6.0
- TCP Wrapper Version 7.6 IPv6 1.12
- Remote Intrusion Detector (RID) Version 1.12
- Security Administration Tool for Analyzing Networks (SATAN) Version 1.1.4exp (in the `source-tar/` directory on the Internet Express CD-ROM labeled “Sources and Evaluation Software”)
- `sendmail` Version 8.11.1
- Squid Proxy/Caching Server Version 2.3.STABLE4

- TIN News Reader Version 1.4.4
- Washington University File Transfer Protocol Server (wu-ftpd) Version 2.6.1
- Xalan stylesheet processor for C++ Version 1.2.2
- Xerces XML parsers for Java Version 1.2.3

1.8 Source tar File Collection for Internet Express Version 5.7

The source-tar directory contains the source code for Open Source components installed by Internet Express Version 5.7.

Table 1–1 lists the tar source files for the Internet Express Version 5.7 components:

Table 1–1: Open Source Software Source Files for Internet Components

Component	Name of tar File
analog Version 4.03	analog4.03.tar.Z
Apache Version 1.3.20 (includes auth_ldap, mod_fastcgi, mod_frontpage, mod_ssl, and open_ssl)	apache_1.3.20.tar.Z
Apache/Jakarta Tomcat Version 3.2.1	jakarta-tomcat-3.2.1.tar.gz
Apache Simple Object Access Protocol (SOAP) Service Version 2.2	<ul style="list-style-type: none"> • soap-bin-2.2.tar.gz • soap-src-2.2.tar.gz
Bean Scripting Framework (BSF) Version 2.2	<ul style="list-style-type: none"> • bsf-bin-2.2.tar.gz • bsf-src-2.2.tar.gz
Calamaris Squid log file analysis tool Version 2.40	calamaris-2.40.tar.Z
Cyrus IMAP Version 1.6.24	cyrus-imapd-v1.6.24.tar.Z
Cyrus SASL Library Version 1.5.24	cyrus-sasl-v1.5.24.tar.Z
Cocoon Web Publishing Framework Version 1.8.2	Cocoon-1.8.2.tar.gz
Dante SOCKS Server Version 1.1.10	dante-1.1.10.tar.Z
Darwin Streaming Service (DSS) Version 3.0.1–338	StreamingServer-3.0.1-338.tar.Z
expect Version 5.3.2	expect-5.31.1.tar.Z
FOP Print Formatter Version 0.15.0	fop-0_15_0.tar.gz
FrontPage 2000 Server Extensions Resource Kit Version 5.0	FrontPageServerExtensions2000v5.0.tar.Z
Horde/IMP Web-based IMAP client Version 2.2.6	horde-imp-2.2.6.tar.Z
InterNetNews Version 2.3.2	inn-2.3.2.tar.Z
Internet Relay Chat Version 2.10.3p1	irc2.10.3p1.tar.Z
JavaBeans Activation Framework (JAF) version 1.0.1	jaf1_0_1.zip
LIBPCAP Packet Capture Library Version 0.4	libpcap-0.4.tar.Z
Lynx Browser Version 2.8.4	lynx-2.8.4.tar.Z
Majordomo Mailing List Server Version 1.94.5	majordomo-1.94.5.tar.Z
OpenLDAP Version 2.0.15	openldap-2.0.15.tar.Z
Perl Version 5.6.0	perl-5.6.0.tar.Z
PHP Hypertext Preprocessor for Apache Version 4.0.6	php-4.0.6.tar.Z

Table 1–1: Open Source Software Source Files for Internet Components (cont.)

Component	Name of tar File
Pine and Pico Version 4.33	pine_pico-4.33.tar.Z
poppassd Password Changing Server	poppassd.tar.Z
PostgreSQL Relational Database Management System Version 7.1.3	postgresql-7.1.3.tar.Z
Procmail Mail Filtering Language Version 3.21	procmail-3.21.tar.Z
Enhanced Qualcomm POP Server Version 4.03	qpop4.0.3.tar.Z
Rhino JavaScript for Java Version 1.5R2	rhino15R2.zip
RID Version 1.12	rid-1.12.tar.Z
Samba File and Print Server Version 2.2.1a	samba-2.2.1a.tar.gz
sendmail Version 8.11.1	sendmail.8.11.1.tar.Z
Squid Proxy/Caching Server Version 2.3.STABLE4	squid-2.3.STABLE4.tar.Z
Tcl Version 8.3.1	tcl-8.3.1.tar.Z
Tcl_cgi Version 1.6x	tcl_cgi-1.6x.tar.Z
TclTk Version 8.3.1	tcltk-8.3.1.tar.Z
TclX Version 8.2	tclx-8.2.0.tar.Z
TCP Wrapper Version Version 7.6 IPv6 1.12	tcpwrapper_7.6.tar.Z
TIN News Reader Version 1.4.4	tin-1.4.4.tar.Z
UDDI Client Libraries in Java (UDDI4J)	<ul style="list-style-type: none">• uddi4j-bin-1_0_3.zip• uddi4j-src-1_0_3.zip
University of Washington IMAP4 Mail Server 2001.313	imap-2001.tar.Z
Washington University File Transfer Protocol (wu-ftp) Server Version 2.6.1	wu-ftpd-2.6.1.tar.Z
Xalan Stylesheet Processor for C Version 1.2	Xalan-C_1_2-src.tar.gz
Xalan XSLT Stylesheet Processor for Java Version 1.2.2	xalan-j_1_2_2.tar.gz
Xerces XML parser for C++ Version 1.5.1	xerces-c-src1_5_1.tar.gz
Xerces XML parser for Java Version 1.2.3	<ul style="list-style-type: none">• Xerces-J-src.1.2.3.tar.gz• Xerces-J-tools.1.2.3.tar.gz

The tar file `satan-1.1.4exp.tar.gz` contains prebuilt binaries for the Security Tool for Analyzing Networks (SATAN) Version 1.1.4.

1.9 Register Your Installation of Internet Express

Register your installation of the product with Compaq to receive information on future releases and to provide input on Internet Express features. Complete the online registration form at the end of the installation procedure or at any time using the Administration utility.

1.10 Compaq Customer Service Support

You can purchase a support contract that will allow you to receive regular updates to the Internet Express administration software and the Open Source software packaged with the kit. See the *QuickSpec* for kit order numbers. For more information about support contracts, contact your Compaq service representative.

1.11 Internet Solutions on the Web

The Internet Solutions Web site contains links to pages of particular interest to Internet AlphaServer administrators. You can visit the site at the following URL:

<http://www.compaq.com/internet/>

1.12 Server Tuning Information on the Web

Compaq provides application notes on various aspects of administering an Internet AlphaServer and on how to tune your Tru64 UNIX system to improve the performance of your Web server, mail server, and news server at the following URL:

<http://www.tru64unix.compaq.com/internet/tech.htm>

1.13 Installation Requirements

Internet Express for Tru64 UNIX must be installed on a system running the Tru64 UNIX operating system Version 5.0A or higher. See the *Internet Express for Tru64 UNIX Installation Guide* for disk space and memory requirements.

1.13.1 Licenses

The Internet Express administration software, Internet Monitor, and LDAP Authentication Module for System Authentication are proprietary to, and embody the confidential technology of, Compaq Computer Corporation. Use of this software is authorized only pursuant to a valid written license from Compaq Computer Corporation or an authorized distributor. See the *QuickSpec* for details.

The iPlanet Directory Server provided with Internet Express is licensed for any use but is limited to 200,000 entries (that is, unique DNs), excluding the Tru64 UNIX operating environment entries that do not define users. See license text in the *Software Description and Licensing Terms for Internet Express for Tru64 UNIX* for details.

1.13.2 Default Port Access

The *Internet Express for Tru64 UNIX Installation Guide* explains how the installation process secures the system by initially restricting access to the Compaq Secure Web Server Administration utility and Internet Express Administration utility on port 8081. Access to this port is initially restricted to one local system only. See the *Internet Express for Tru64 UNIX Administration Guide* for information on configuring access control.

1.14 Administration Utility Web Browser Requirement

You access the administration servers from a graphical Web browser. For Internet Express Version 5.7, use Netscape Communicator Version 4.5 or later, or Microsoft Internet Explorer Version 4.0 or later.

The Lynx browser is not supported as a means to access the Administration utility.

1.15 Restrictions on the Samba Server

The Samba server, as installed by Internet Express Version 5.7 for Tru64 UNIX, is not configured to support encrypted passwords. To use unencrypted (clear text) passwords on Windows NT Version 4.0 Service Pack 3 or later, Windows 98, or Windows 2000 with the Samba server, you must modify the Windows Registry file.

Based on the default Samba server configuration file supplied with Version 5.7 of Internet Express, the user name and password used on the PC must be the same as the user name and password used to log in to the user's UNIX account. You must change the Samba server configuration to remove this restriction.

See the *Internet Express for Tru64 UNIX Administration Guide* for more information.

Documentation Notes

The following sections provide instructions for reading various components of the Internet Express documentation set.

- Reading the installed documentation (Section 2.1)
- Reading the documentation from the Internet Express Version 5.7 for Tru64 UNIX CD-ROM labeled “Installation and Documentation” (Section 2.2)
- Reading the *Internet Services User’s Guide* (Section 2.3)

2.1 Reading the Installed Documentation

After installation of the Compaq Secure Web Server subset (IAEAPCH) and the Open Source Internet Solutions Documentation subset (IAEDOC), if you have also installed the Open Source Internet Solutions Administration Utility (IAEADM subset) and have access to the Administration utility for Open Source Internet Solutions (see the *Administration Guide*), then you can read the documentation following the link from the Web page at `http://hostname.domain:8081`.

You can also read the documentation without the Administration Utility using the public Web server (if you chose to configure one) by accessing the documentation index page at `http://hostname.domain/documents/bookshelf.html`. If this URL does not work, verify that the Web server configuration file `/usr/internet/httpd/admin/conf/httpd.conf` contains the following line:

```
Alias /documents/ "/usr/internet/docs/IASS/"
```

In order for the links to reference pages to work correctly, you must enable the webman application. To do this, edit `/usr/internet/httpd/admin/conf/httpd.conf`. Add the following lines, if necessary:

```
ScriptAlias /webman/ "/usr/internet/webman/"
Alias /webman-content/ "/usr/internet/webman/"
```

Now, restart the Web server, using the following command:

```
# /sbin/init.d/httpd_public restart
```

You can also read the installed documentation directly from the file system using a Web browser running on the same system by using the file URL: `file:/usr/internet/docs/IASS/bookshelf.html` but in this case you will not be able to use the reference page links.

2.2 Reading the Documentation from the Internet Express CD-ROM

To read the documentation from the Internet Express Version 5.7 for Tru64 UNIX CD-ROM labeled “Installation and Documentation” on a Tru64 UNIX system, follow these steps:

1. Log in to your system as root.
2. Insert and mount the CD-ROM, replacing *disk* with the name of your CD-ROM drive and *mnt* with the name of the directory where the Internet Express directories are to be mounted:

```
# mount /dev/disk /mnt
```

3. In a Web browser, open the Internet Express Documentation Bookshelf file by entering the following URL, replacing *mnt* with the name of the directory at which the Internet Express directories are mounted:

```
file:/mnt/index.htm
```

4. Click on the book you want to open.

To read the documentation from the Internet Express for Tru64 UNIX CD-ROM labeled “Installation and Documentation” on a PC, follow these steps:

1. Insert the CD-ROM into your PC’s CD-ROM drive.

The Internet Express Bookshelf page is automatically displayed in your browser. If the Bookshelf does not appear, open the following URL, replacing *drive* with the letter of your CD-ROM drive:

```
file:drive:\index.htm
```

2. Click on the book you want to read, or click on the Search button near the top of the Bookshelf page to read instructions for searching the documents on the Internet Express CD-ROM.

Note

Links to documents or reference pages for Internet components are not accessible when you read the Internet Express documentation from the CD-ROM. These links will work only after you install the Internet components and read the documents served by the Web server installed by Internet Express.

2.3 Reading the *Internet Services User’s Guide*

The *Internet Services User’s Guide* explains how to use Pine e-mail and the Pico editor, the TIN news reader, and the Lynx Web browser.

The *Internet Services User’s Guide* is accessible from the Internet Express online Documentation Bookshelf. You can access the Bookshelf from links on the Administration utility homepage (on port 8081) and the default homepage for the public Web server or directly from the Internet Express CD-ROM. (See Section 2.2 for instructions.)

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