

# Internet Express for Tru64 UNIX

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## Read This First

**March 2002**

**Product Version:** Internet Express Version 5.8 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 Version 5.8. Read this document before installing or using Version 5.8 of the product.

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## Internet Express Version 5.8

The Compaq Internet Express for *Tru64*<sup>TM</sup> UNIX product is included with, and provides Internet capability for, Compaq Tru64 UNIX *AlphaServer*<sup>TM</sup> systems. 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:
  - *Read This First* (this document)
  - *Release Notes*
  - *Installation Guide*
  - *Administration Guide*
  - *Compaq Secure Web Server Administration Guide*
  - *Internet Monitor Administrator's Guide*
  - *Internet Services User's Guide*
  - *Master Index*
  - *QuickSpecs*
  - *Software Description and Licensing Terms*
  - *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/](http://www.tru64unix.compaq.com/docs/best_practices/)

### 1.1 New Features

Internet Express Version 5.8 includes the following new features:

- OpenSLP – An implementation of the Service Location Protocol (SLP), a protocol that provides a framework to allow networking applications to discover the existence, location, and configuration of networked services in enterprise networks.

The *Release Notes* discuss the restrictions for using OpenSLP with Internet Express. The *Administration Guide* describes how to configure OpenSLP.

- `ht://Dig` – A World Wide Web indexing and searching tool for a domain or intranet. For more information on this tool, refer to

<http://www.htdig.org>

The *Administration Guide* describes how to configure `ht://Dig`.

- The Internet Monitor now supports a RADIUS sampler. It can be created and modified using the Manage Samplers menu on the Internet Monitor Administration utility

## 1.2 Updated Open Source Software

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

- Apache Version 1.3.22
- analog Version 5.1
- auth\_ldap Version 1.6.0 (LDAP user authentication for the Compaq Secure Web Server)
- Calamaris Squid log file analysis tool Version 2.42
- Cyrus SASL Library Version 1.5.27
- Horde/IMP Version 2.2.7 Web-based mail client
- mod\_fastcgi-2.2.12 Apache module for high-performance CGI
- mod\_ssl Version 2.8.5-1.3.22 (included with the Compaq Secure Web Server)
- OpenLDAP Version 2.0.21
- Perl Version 5.6.1
- PHP Hypertext Preprocessor for Apache Version 4.1.0
- Pine mail client and Pico editor Version 4.41
- Procmail Mail Filtering Language Version 3.22
- Samba File and Print Server Version 2.2.2
- sendmail Version 8.12.1
- Squid Proxy/Caching Server Version 2.4.STABLE2
- TIN News Reader Version 1.4.5
- University of Washington IMAP4 Mail Server 2001.315
- Washington University File Transfer Protocol (wu-ftp) Server Version 2.6.2

## 1.3 Other Updated Software

Internet Express Version 5.8 includes the following additional software updates:

- Internet Express Administration utility

In previous versions of Internet Express, the Administration utility Main menu included choices for Manage Users, Manage Components, and Manage System. For Internet Express Version 5.8, the Manage Users and Manage System options have been moved to the Manage Components page. Additionally, the categories of components on the Manage Components page have been reorganized.

## 1.4 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 (Version 5.0.2) 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.

- **Halcyon iAsp**

Halcyon Software Instant ASP (iASP) provides 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 evaluation 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 2.0.32 Early Adopters Kit**

Apache Version 2.0.32 is the first public Beta release 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 `apache2/README.txt` file contains important information about the kit including instructions for installing the software.

- **Tripwire for Servers**

Tripwire for Servers software establishes the foundation for data security by assuring the integrity of data across your network. It is the most widely deployed and trusted data integrity assurance solution for today's most popular platforms. The software establishes a baseline of data in its desired state, detects and reports changes to the baseline, and enables rapid discovery and remediation when an undesired change occurs. Tripwire for Servers detects change, whether accidental or malicious, from outside or within. It is the only way you can know for certain if your servers are safe and remain uncompromised.

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 IPv6 Sniff 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.

- **CommuniGate Pro**

The CommuniGate Pro advanced messaging server can be integrated with complementary solutions such as desktop e-mail software, antivirus products and billing systems. CommuniGate Pro features antispam, antivirus plug-in, Web administration, multidomain support, dial-up capabilities, IMAP multimapbox features, IMAP4rev1, ESMTP, POP3, WebEmail, MailList, LDAP, ACAP, SSL, CLI, SASL, SNMP, and Personal Web Pages with automated publishing.

For more information, see the `README.txt` file in the `CommuniGatePro/` directory.

More information on CommuniGate Pro can be found at the following Web site:

<http://www.stalker.com/CommuniGatePro/>

- Mozilla 0.9.8 Web Client for Tru64 UNIX

The Mozilla Web Client is the next generation Web, Mail, and News client, successor to the popular Netscape Communicator Web client. Mozilla is an open-source Web client, designed for standards compliance, performance, and portability.

The Mozilla 0.9.8 Web Client also includes many new innovative features for search, privacy, and content management of your Internet information. Built upon the Netscape Gecko browser engine, the Navigator component is now comprehensive, modular, and fully standards compliant; supporting DOM, RDF, XML, CSS and HTML 4 document formats.

For more information, see the `README.txt` file in the `Mozilla_Browser/` directory.

## 1.5 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 5.8.

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.”

If you would like to download and build these components yourself, they are available on the Internet as follows:

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

## 1.6 Unchanged Software

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

- Advanced AAA RADIUS Server Version V4.3.2B
- Apache/Jakarta Tomcat Version 3.2.1
- Apache Simple Object Access Protocol (SOAP) Service Version 2.2
- Cocoon Web Publishing Framework Version 1.8.2
- Cyrus IMAP Version 1.6.24
- Dante SOCKS Server Version 1.1.10
- Darwin Streaming Server (DSS) Version 3.0.1 [v338]
- FOP Print Formatter Version 0.15.0
- FrontPage 2000 Server Extensions Resource Kit Version 5.0
- LIBPCAP Packet Capture Library Version 0.4
- Lynx Browser Version 2.8.4
- InterNetNews Version 2.3.2
- iPlanet Directory Server Version 4.15
- Internet Relay Chat Version 2.10.3p1

- Majordomo Mailing List Server Version 1.94.5
- Netscape LDAP SDK for C 4.0
- PostgreSQL Version 7.1.3
- Enhanced Qualcomm POP Server Version 4.03
- Remote Intrusion Detector (RID) Version 1.12
- TCP Wrapper Version 7.6
- 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")
- UDDI Client Libraries in Java (UDDI4J)
- Xalan stylesheet processor for C++ Version 1.2
- Xalan stylesheet processor for Java Version 1.2.2
- Xerces XML parser for C++ Version 1.5.1
- Xerces XML parsers for Java Version 1.2.3

## 1.7 Source tar File Collection for Internet Express Version 5.8

The `source-tar` directory contains the source code for Open Source components installed by Internet Express Version 5.8.

Table 1–1 lists the `tar` source files for the Internet Express Version 5.8 components.

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

Component	Name of tar File
analog Version 5.1	analog5.1.tar.Z
Apache Version 1.3.22 (includes <code>auth_ldap</code> , <code>mod_fastcgi</code> , <code>mod_frontpage</code> , <code>mod_ssl</code> , and <code>open_ssl</code> )	apache_1.3.22.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"> <li>• soap-bin-2.2.tar.gz</li> <li>• soap-src-2.2.tar.gz</li> </ul>
Bean Scripting Framework (BSF) Version 2.2	<ul style="list-style-type: none"> <li>• bsf-bin-2.2.tar.gz</li> <li>• bsf-src-2.2.tar.gz</li> </ul>
Calamaris Squid log file analysis tool Version 2.42	calamaris-2.42.tar.Z
Cyrus IMAP Version 1.6.24	cyrus-imapd-v1.6.24.tar.Z
Cyrus SASL Library Version 1.5.27	cyrus-sasl-v1.5.27.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 5.32.1	expect-5.32.1.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 2.2.7	horde-imp-2.2.7.tar.Z
ht://Dig Web Search engine and Indexer Version 3.2.0b3	htdig-3.2.0b3.tar.Z

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

<b>Component</b>	<b>Name of tar File</b>
Internet Relay Chat Version 2.10.3p1	irc2.10.3p1.tar.Z
InterNetNews Version 2.3.2	inn-2.3.2.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 2.0.21	openldap-2.0.21.tar.Z
Perl Version 5.6.1	perl-5.6.1.tar.Z
PHP Hypertext Preprocessor for Apache Version 4.1.0	php-4.1.0.tar.Z
Pine and Pico Version 4.41	pine_pico-4.41.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 3.22	procmail-3.22.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 2.2.2	samba-2.2.2.tar.Z
sendmail Version 8.12.1	sendmail.8.12.1.tar.Z
Squid Proxy/Caching Server Version 2.4.STABLE2	squid-2.4.STABLE2.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	tcpwrapper_7.6.tar.Z
TIN News Reader Version 1.4.5	tin-1.4.5.tar.Z
UDDI Client Libraries in Java (UDDI4J)	<ul style="list-style-type: none"><li>• uddi4j-bin-1_0_3.zip</li><li>• uddi4j-src-1_0_3.zip</li></ul>
University of Washington IMAP4 Mail Server 2001.315	imap-2001.tar.Z
Washington University File Transfer Protocol (wu-ftp) Server Version 2.6.2	wu-ftp-2.6.2.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

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

Component	Name of tar File
Xerces XML parser for C++ Version 1.5.1	<code>xerces-c-src1_5_1.tar.gz</code>
Xerces XML parser for Java Version 1.2.3	<ul style="list-style-type: none"><li><code>Xerces-J-src.1.2.3.tar.gz</code></li><li><code>Xerces-J-tools.1.2.3.tar.gz</code></li></ul>

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

## 1.8 Register Your Installation of Internet Express

Register your installation of Internet Express 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.

## 1.9 Software Product Services

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 *QuickSpecs* for kit order numbers. For more information about support contracts, contact your Compaq service representative.

## 1.10 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/>

## 1.11 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/technical.html>

## 1.12 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 *Installation Guide* for disk space and memory requirements.

### 1.12.1 Licenses for Proprietary Software

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 *QuickSpecs* 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.

### **1.12.2 Default Port Access**

The *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 *Administration Guide* for information on configuring access control.

## **1.13 Administration Utility Web Browser Requirement**

You access the administration servers from a graphical Web browser. For Internet Express Version 5.8, 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.

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## Documentation Notes

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

- Reading the documentation (Section 2.1)
- Reading the *Internet Services User's Guide* (Section 2.2)

### 2.1 Reading the Documentation

This section describes the different methods for accessing the Internet Express documentation.

#### 2.1.1 Reading Documentation Using the Administration Utility

After installation of the Compaq Secure Web Server subset (IAEAPCH), the Internet Express Documentation subset (IAEDOC), and the Internet Express Administration utility (IAEADM subset), you need access to the Administration utility for Internet Express (as described in the *Administration Guide*), so that you can read the documentation following the link from the Web page at:

```
http://hostname.domain:8081
```

where *hostname.domain* is the host name and domain of the system running Internet Express.

#### 2.1.2 Reading Documentation Using the Public Web Server

You can also read the documentation without the Administration utility by using the public Web server (if you chose to configure one) to access 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/"
```

For the links to reference pages to work correctly, you must enable the webman application.

1. Edit `/usr/internet/httpd/admin/conf/httpd.conf`, to add the following lines, if necessary:

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

2. Restart the Web server, using the following command:

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

The Internet Express documentation files are installed in the `/usr/internet/docs/IASS` directory.

- You can access the Documentation Bookshelf installed on your system by entering the following URL (substituting the name of your system for *hostname*) in your browser:

```
http://hostname/documents/bookshelf.html
```

- 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
```

In this case, you will not be able to use the reference page links.

### 2.1.3 Reading Documentation from the Internet Express CD-ROM

You can also access the Documentation Bookshelf on the Internet Express Installation and Documentation CD-ROM from your Tru64 UNIX System or a PC. The documentation is available in the following formats:

- HTML
- PostScript
- Portable Document Format (PDF)

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#### Note

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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.

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#### 2.1.3.1 On a Tru64 UNIX System

To read the documentation from the Internet Express Installation and Documentation CD-ROM on an AlphaServer™ system, follow these steps:

1. Log in to your system as root.
2. Insert and mount the CD-ROM, replacing *drive* with the name of your CD-ROM drive:

```
# mount /dev/drive /mnt
```

Usually this will be:

```
# mount /dev/disk/cdrom0c /mnt
```

3. In a Web browser, open the Documentation Bookshelf file by entering the following URL:

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

4. Click on the book you want to open.

#### 2.1.3.2 On a PC

To read the documentation from the Internet Express Installation and Documentation CD-ROM on a PC, follow these steps:

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

The 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 open.

### **2.1.4 Reading the Open Source Software Component Documentation**

The product kit also provides documentation (in ASCII text and HTML) for software components included with Internet Express. This documentation is located in the `/usr/internet/docs` directory on the system where Internet Express is installed.

## **2.2 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 home page for the public Web server or directly from the Internet Express CD-ROM. (See Section 2.1 for instructions.)



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