

### Models

Server-based JavaScript environment for Web-enabling Compaq NonStop Himalaya server applications.

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### Features

- Web-enabled legacy applications using popular workstation-based authoring tools
  - Object-oriented extensions for ease of programming
  - Easy to use
  - Scalable and reliable JavaScript environment
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### Introduction

Compaq iTP Active Transaction Pages (iTP ATP) software provides a server-based JavaScript environment for Compaq NonStop Himalaya servers. It enhances the Compaq iTP Secure WebServer application environment by letting you use the popular JavaScript scripting language and popular commercial Web authoring tools to create Web content.

iTP ATP software provides extensions that minimize programming, enabling you to access NonStop Himalaya applications that use Compaq NonStop SQL databases, Compaq NonStop Transaction Services/MP (Compaq NonStop TS/MP) (formerly Pathway) server classes, Compaq NonStop Transaction Manager/MP (Compaq NonStop TM/MP) (formerly Transaction Monitoring Facility) services, and Compaq NonStop TUXEDO services.

With iTP ATP software, you can leverage the power of the Web while taking full advantage of the reliability, scalability, and excellent price/performance of Compaq NonStop Himalaya servers.

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#### Web-enabled legacy applications using popular workstation-based authoring tools

With iTP ATP software, you can use workstation-based tools to develop your Web pages, including popular authoring tools such as Allaire HomeSite or text editors such as vi and Windows® Notepad (see figure).

Designed to enhance the iTP Secure WebServer application environment, iTP ATP lets you use the popular JavaScript scripting language and popular commercial Web authoring tools to create Web content. To minimize programming, iTP ATP provides extensions, enabling you to access legacy applications that use NonStop SQL databases, NonStop TS/MP server classes, NonStop TM/MP services, and NonStop TUXEDO services.

Using standard HTML notation to mark script boundaries, iTP ATP software makes it possible to design Web-page content and layout separately, which enhances the versatility of your applications

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#### Easy to use

iTP ATP software is simple to use. No extensive configuration is required, and existing applications and databases do not need to be modified to support iTP ATP software.

With iTP ATP software, you do not have to use C or C++ languages or compile code to design Web applications. During development, all you have to do is simply edit and test the code until the application works properly.

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#### Compatible with popular Web browsers

iTP ATP software is compatible with all versions of Netscape Navigator and Microsoft® Internet Explorer. To make it easy to use the browser, no plug-ins or back channels are required for communications.

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### Support for a wide variety of legacy applications

To help you fully leverage your investment in NonStop server legacy applications, iTP ATP software supports many kinds of system objects, including

#### NonStop SQL interface objects

- Direct access to NonStop SQL databases from Web pages

#### NonStop TS/MP (Pathway) interface objects

- Composition and decomposition of application messages
- Data conversion between JavaScript data types and C and COBOL data types
- Use of Data Definition Language (DDL) dictionaries, which NonStop TS/MP customers traditionally use to define application message layouts
- Definition of transaction boundaries with NonStop TM/MP processing
- Communications between Pathsend and application servers

#### NonStop TUXEDO interface objects

- Use of NonStop TUXEDO FML field tables to define FML and FML32 buffers
- Communications with NonStop TUXEDO services to support both FML and view buffers

#### Sockets interface objects

- Allows Web pages to act as sockets clients to TCP/IP server applications (For example, the Web page can send an SMTP message or HTTP request or act as a Telnet client.)
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### Reliable, scalable JavaScript environment

iTP ATP software supports a broad range of NonStop TS/MP application architecture and implementation styles. For instance, iTP ATP software is compatible with COBOL and C languages and provides fault tolerance for complex application message structures and data types.

In addition, iTP ATP software supports a variety of NonStop TM/MP transaction scenarios; for example, a transaction can send multiple requests to several server classes.

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### Full compliance with Netscape JavaScript

iTP ATP software uses the JavaScript 1.2 engine, which is fully compliant with Netscape Public License version 1.0. JavaScript 1.2 was ported to the Compaq NonStop Kernel operating system (with minor changes) for the unique features of the NonStop Himalaya platform. No functional changes were made to the JavaScript source code.

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## Ordering Information

Product ID	Description
SJ72V1	iTP Active Transaction Pages
141215	iTP Active Transaction Pages Programmer's Guide. This documentation includes installation and configuration information. A CD-ROM, which is shipped with the product, includes samples and HTML files that provide detailed information about the file structure of iTP ATP software.

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## Specifications

<b>System Requirements</b>	<b>Hardware</b>	Compaq NonStop Himalaya servers: K10000, K200, K2000, K20000, S700, S7000, and S70000
	<b>Software</b>	Compaq NonStop Kernel operating system, Release D42 or G03 or later Compaq NonStop Kernel Open Systems Services Compaq NonStop iTP Secure WebServer
	<b>iTP ATP components</b>	JavaScript language interpreter (from Netscape) HTML parser: identifies imbedded server-side scripts and expands server-side includes JavaScript language objects: support interfaces with NonStop SQL, NonStop TS/MP, NonStop TM/MP, NonStop TUXEDO, and NonStop TCP/IP sockets

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