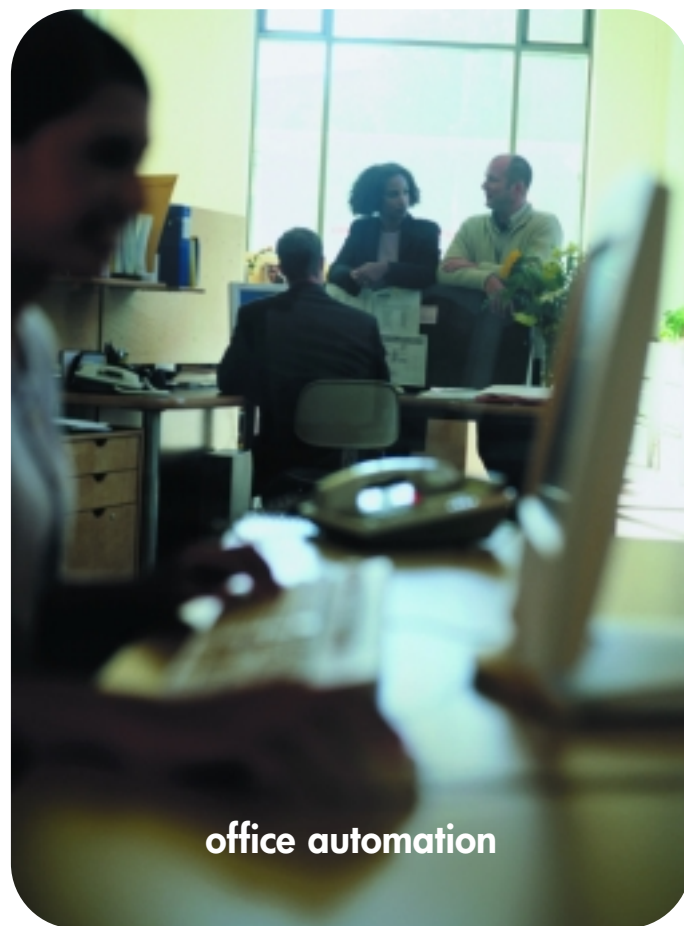


hp embedded software

software for
intelligent appliances



office automation



mobile multimedia



hp embedded software

In the emerging market for information appliances, the rules are changing. Products are blurring as they enter a new, smarter era of appliances tied to e-services. And the future, though bright, can seem more unpredictable than ever.

Yet in this sea of flux, one thing remains constant: that there's a clearly escalating demand for information appliances—ones that will foster fresh new ways of communicating, of doing business, of forging partnerships, of living in our homes, and of enjoying life itself.

At the center of this emerging information appliance market is HP's Chai Appliance Platform, an integrated suite of software products designed to power the next generation of memory-constrained intelligent appliances. This innovative embedded software platform from HP extends e-services from enterprise systems to intelligent appliances. And it provides device manufacturers with considerably more functionality, and the added ability to easily customize their products to get them to market faster, at a lower cost.

Today? Chai software is being designed into a broad spectrum of appliances, including internet-connected handheld devices, digital TV set-top-boxes, printers, mobile multimedia systems, Internet home automation controllers and beyond. Industry leaders such as Delphi Automotive Systems, Hitachi, Siemens and Thompson Multimedia, along with HP, are building their latest products with Chai software inside.

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hp chai appliance platform overview

Why the Chai Appliance Platform? HP specially designed Chai for embedded developers and manufacturers, to offer a powerful, complete solution that saves on development time and manufacturing costs—while freeing you to be as innovative as you can be at the application level.

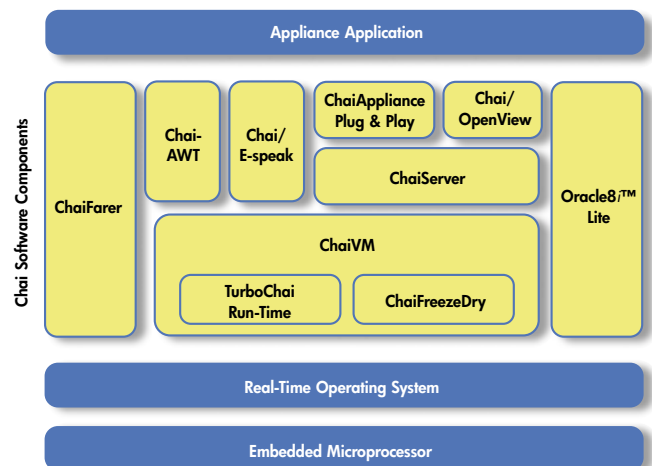
At its core, the Chai Appliance Platform is an open software platform for creating intelligent information appliances that support Web connectivity and communications through major industry software standards. Chai offers device manufacturers an easy, integrated suite of run-time software products that you can use with Chai's development tools and support services to quickly design new intelligent devices.

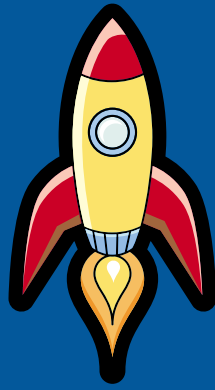
focus: integrated appliance platform products

With Chai, you use one architecture, versus a mix of single products, to solve all your appliance software development needs. You simply choose the building blocks you need to design your appliance—which leaves you more time and budget for what's most important: developing the application for your device.

Take a look at the chart below for a map of the Chai Appliance Platform's products. Following this chart is a description of each product.

chai appliance platform





time-to-market

ChaiVM, a key component of the Chai Appliance Platform, is a complete environment for running Java™ programming language applications on your information appliances. ChaiVM provides a smaller memory footprint and better performance and scalability than competitive products and maintains compliance with the Java Programming Language Specification and the Java Virtual Machine Specification.

ChaiVM 4.0 Highlights: ChaiVM represents a major advance in new levels of scalability—from a simple virtual machine to a full Java application environment that includes a complete set of class libraries for embedded environments. Also included in ChaiVM are performance enhancements that enable real-time Java applications to execute with deterministic response times of less than 125 microseconds.

ChaiAWT offers graphics support for window displays through a collection of Java classes and native methods that provide generic windowing objects (scroll, bars, frames, etc.) along with generic window event management.

TurboChai, an Ahead-of-Time (AOT) compiler, brings a twenty-fold increase in performance to Java applications running on information appliances. With TurboChai, you can compile all, or just portions, of your Java application to machine code—and get execution performance close to applications written in C or C++. The TurboChai compiler can execute on any Java language-enabled platform.

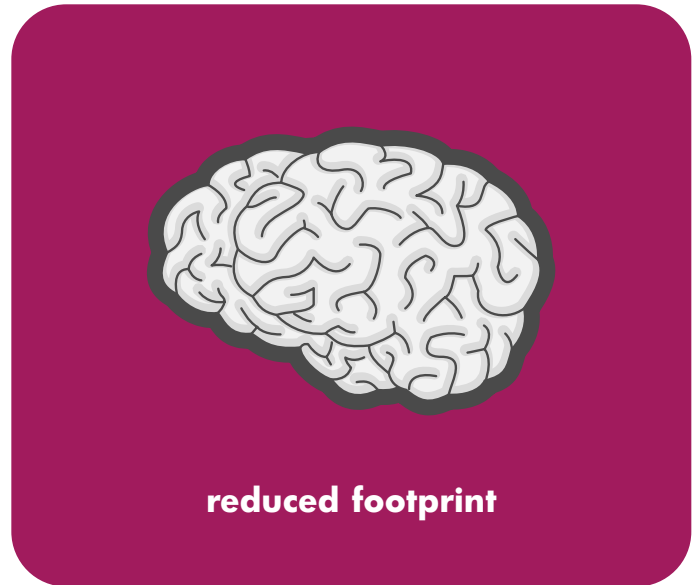
ChaiFreezeDry, HP's breakthrough technology, is designed to help you drive your information appliance development costs down while increasing functionality in your products. This space-optimizing class loader consolidates and runs Java applications in a concentrated form. The result? ChaiFreezeDry can shrink the size of Java applications by a factor of two to a factor of ten.

ChaiServer, a Web-based application server, integrates applications written in the Java programming language with Web Server technology. With ChaiServer, you can access, communicate with, and control all your devices and their applications directly via the Web.

ChaiAppliance Plug and Play enables devices to spontaneously connect to a network, announce themselves and their services, and communicate with other devices and services using the ubiquitous standards of the Internet—verses proprietary technologies. ChaiAppliance Plug and Play is the first implementation of the Universal Plug and Play specification in the Java programming language.

Chai/E-speak allows you to easily enable a Chai appliance to become an “on-ramp” and “off-ramp” to HP's e-services. The Chai/E-speak base product is a client library specially made for embedded device manufacturers. You simply link your application to this library. The library itself provides the connectivity function that handles the communication between your application and the e-speak core.





ChaiFarer is a highly modular, embedded Web browser designed for easy customization for your device's specific user interfaces and display requirements. ChaiFarer supports the latest Web standards, including XML, HTML, XHTML, and HTTP, with support for authentication and popular graphic image types.

Chai/OpenView enables the use of HP OpenView Network Node Manager for easy access and management of your intelligent appliances in a system, using standard management and Web protocols.

Chai/Oracle8i Lite Integration, a unique product in the marketplace, was created out of an alliance between HP and Oracle® to develop and promote mobile e-services through the integration of the Chai Appliance Platform and Oracle8i Lite. Oracle8i Lite is a small-footprint client database that brings all the power of enterprise systems and applications directly into the hands of

mobile users. Chai/Oracle8i Lite offers the first solution that enables intelligent appliances to take advantage of the portability of Java applications, combined with the mobilization and synchronization of centralized applications and data.

Chai Training, Support, & Solutions HP offers a full line of quality support services, from online assistance to custom engineering, training, and consulting. These services can maximize return on your development investment by helping you achieve your time-to-market goals.

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To learn more about HP's Chai Appliance Platform, or to find out how Chai can power your next generation of intelligent appliances, visit the Chai Web site at www.chai.hp.com or call us (toll-free) at **1 877 287 9204**; (in California) **408 447 3686**.