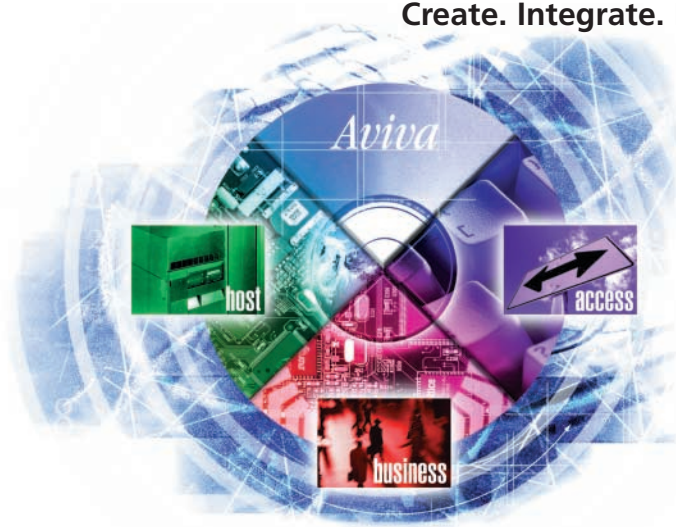# Aviva® Host Integration SDK™

Create. Integrate. Innovate.

Integrate host data to create customized, secure server-based applications

Aviva Solutions has developed the Aviva Host

Integration Software Developer's Kit

(AHI SDK) to enable systems integrators and

developers to create new, secure server-based

applications. AHI SDK integrates legacy

information running on IBM mainframe,

AS/400, DEC and UNIX operating environments

into new Java applications, servlets and Java

Server Pages (JSPs).

Aviva Host Integration SDK packages powerful

and flexible Java libraries, components and

tools with advanced features, intuitive samples

and online documentation.

Industry trends are moving further away from traditional host access, to the more value-based proposition of host integration. Integrating current host-based information to create new, customized applications leverages the investments corporations have in their business intelligence, while exploiting their potential to yield increased revenues.

How do you capitalize on this? The answer is Customization. Customization made easy through the implementation and use of toolkits designed to provide corporations with the edge they require.

Ultimately it is a question of profit. Stiff international competition has turned the need for ROI into an absolute. Corporations prosper or perish. In order to prosper, the customer must profit - from the information they are privy to, from ease of doing business with their chosen partner, from their overall satisfaction within the customer/supplier relationship paradigm.

Are you going to trust your corporation's future to just any .com or technology vendor? Certainly not. It takes experience, ingenuity and a track record of proven successes to win.

It takes
Aviva Solutions.

Aviva®
solutions

Aviva Host Integration SDK

Create. Integrate. Innovate.

Revitalize your existing

legacy information

and extend host-based

data to modern Web

and portal environments.

Reduces Application Development Time
Aviva Host Integration SDK radically simplifies screen scraping. Time-to-develop server-based applications is reduced from hours to minutes through the automatic generation of 'Hostlets' - unique to Aviva Host Integration SDK!

Easy to Learn, Easy to Use
Aviva Host Integration SDK enables developers with little or no mainframe knowledge to create secure Java applications for accessing host data. A variety of samples as well as comprehensive guides, references, and tutorials let you start building your customized server-based applications quickly and easily.

Supports Standard Application Servers
Aviva Host Integration SDK components run on all industry-leading application servers including Oracle9i Application Server, iPlanet Portal Server, BEA's WebLogic™ Server, and IBM's WebSphere Server.
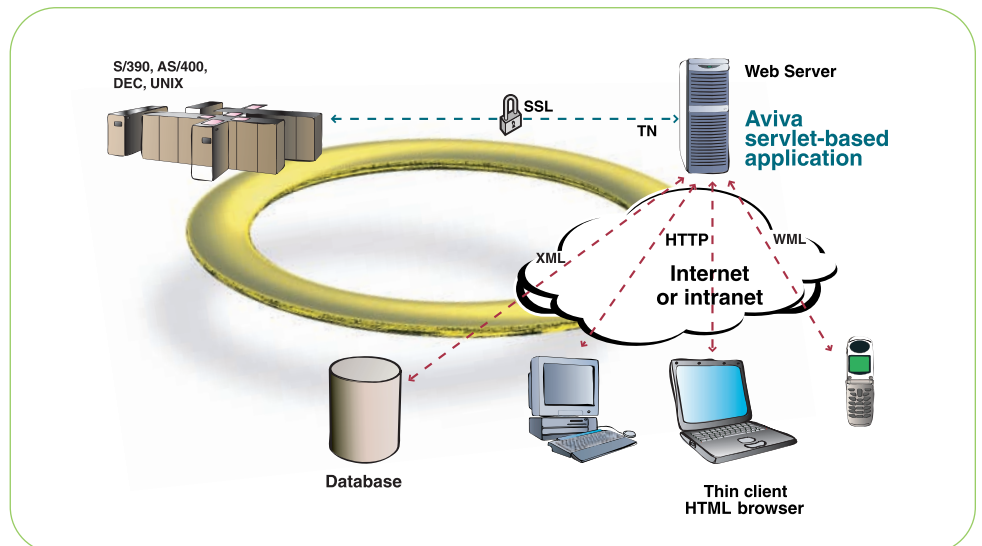
Operating System Portability
Aviva Host Integration SDK is written entirely in Java and can be ported to any OS in accordance to the Java promise: "Write once, run anywhere".

Aviva Host Integration SDK comes complete with flexible, robust and intuitive tools and also provides detailed, easy-to-use documentation and samples to get you going. Key benefits include:

- Robust, reusable components for programmatic Web access to legacy applications

- Includes full support for XML, SSL, and JavaBeans

- Automatic "Hostlet" generation

- 100% Java - components run on all industry-leading platforms

- Easy-to-use samples - sample Java applications, servlets and JSPs created with ACL, Aviva JavaBeans, XML and OHIO

- Comprehensive guides and tutorials

- Detailed HTML-based online help

- Complete integration with standard visual IDE

- Host simulation for off-line testing and troubleshooting of servlets and applications

S/390, AS/400, DEC, UNIX

SSL

TN

Web Server

Aviva servlet-based application

XML

HTTP

WML

Internet or intranet

Database

Thin client HTML browser

Aviva Host Integration SDK™ components can be used to create customized servlet-based applications that extend host information for e-business opportunities.

Aviva solutions

Hostlet Technology

Unique to Aviva Host Integration SDK! A *'Hostlet'* is Java code automatically generated by the Aviva Developer Assistant (ADA) tool capturing the host transaction in real-time. Web application developers can easily integrate 'Hostlets' into customized applications, saving you development time and reducing error.

Flexible, Easy-to-Use Development Tools

Aviva Host Integration SDK simplifies and accelerates the development of applications by alleviating the burden of screen scraping! And, the Aviva Trace Player is a great tool for testing or demonstrating your applications off-line.

Aviva Developer Assistant – this easy-to-use tool records host navigation sequences and automatically generates Hostlets; Java code that encapsulates the host transaction behavior. With this unique tool, any Web or Java developer can easily integrate the Hostlets into new and unique Web applications. Developers can also test their Hostlets by running the associated Java application Prototype.

Aviva Trace Player (ATP) – simulates a connection to a host using a pre-recorded Telnet trace file. The Aviva Trace Player lets you record the complete activity of a host session for playback later. It is a truly excellent tool for demonstrations, testing, training or troubleshooting applications!

Powerful Application Programming Interfaces (APIs) and Libraries

Aviva Host Integration SDK provides systems integrators with four powerful and flexible programming interfaces through which to integrate host data and create new secure Java-based applications, servlets and Java Server Pages (JSPs) for accessing IBM mainframe, AS/400, DEC and UNIX-based host applications.

Aviva Class Library (ACL) – the foundation upon which all other Aviva APIs are built. ACL encapsulates the complete protocol stack, up to and including 3270, 5250 and VT220 data stream handling for multi-host connectivity.

- Rich, scalable APIs – based on event-driven object model, provides session management and presentation data services

Extended Markup Language (XML) API – the Aviva XML API is used to develop XML-enabled applications, servlets or JSPs, providing an alternative for communicating with mainframes and AS/400s. XML technology offers extensive flexibility in transforming host data to presentation formats such as HTML and wireless markup languages such as WML and HDML.
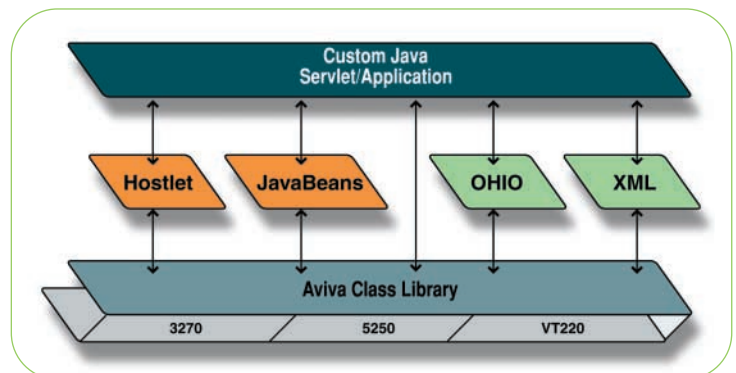
- Provides interoperability with heterogeneous enterprise systems (.NET, EJB,...)

Aviva JavaBeans – binary components that conform to Sun's standard JavaBeans specifications. Aviva JavaBeans can be manipulated visually from within an application builder to quickly and easily create new Java-based solutions. Applications written using the Aviva JavaBeans allow users to connect to a host and fully interact with it in a graphical environment.

- Rapid Application Development!

OHIO – easy to use, with capabilities similar to HLLAPI, Aviva Host Integration supports the most current draft version of OHIO (Open Host Interface Objects Interface).

- Vendor independence – writing an OHIO application enables seamless migration from vendor to vendor

Aviva Host Integration SDK™ development libraries available for the creation of customized solutions.

Consulting and Training Services

You may not be in the business of host integration, or application integration, but we are. We offer consulting and training programs designed to meet your specific needs. Trust Aviva Solutions to deliver. Put our experience to work for you.

SSL Security Support

Whether you are extending your new applications over the intranet, Internet or extranet, protecting the integrity of your host-based information is crucial. That is why we have designed Aviva Host Integration SDK to support SSL encryption. With Aviva Host Integration SDK, the applications you develop are secure, as well as reliable. What's more, using the built-in Aviva Security Redirector, non-SSL servers can be enabled to provide secure connections as well.

Aviva Security Redirector - adds a new dimension to host access security for any TN server running on a mainframe or AS/400.

Certificate Management Utility (CMU) – to create and manage client and server certificates

Aviva Host Integration SDK - Technical Specifications

Capabilities
- 100% Java components supporting TN3270(E), TN5250(E)and VT220 connectivity to IBM mainframe, AS/400, DEC, and UNIX operating environments
- Security-enabling components providing weak or strong SSL encryption service (SSL version only)
- APIs for XML, Java Beans, OHIO, and direct access to the connectivity engine via the Aviva Class Library (ACL) API

Development Platform Requirements
- Java-enabled Web browser such as Microsoft Internet Explorer 6.0 and Netscape Navigator 6.1
- Sun's Java 2 Software Development Kit, Standard Edition (J2SE JDK) version 1.3.1 or later
- Windows NT, Windows 2000, Windows XP
- Java Beans that can be used within visual IDEs such as Visual Café
- 128 MB RAM minimum (256 MB recommended)
- 30 MB of hard disk space

Deployment Requirements

Java Virtual Machine
- Sun's Java 2 Runtime Environment (JRE) version 1.3.1 or later

Application Servers and JSP Engine
- BEA WebLogic Server
- iPlanet Portal Server
- IBM's WebSphere Server
- Oracle9i Application Server
- Tomcat servlet engine

Aviva
solutions

Proven Solutions for
Secure Host Access and Integration