ONWEB®

Leverage your host systems and enterprise information systems with speed, ease, and flexibility

OnWeb offers a comprehensive development and deployment platform that enables you to transform your host applications to Web applications. You can aggregate and compose data from multiple screens across multiple host systems and present them as Web pages. Using OnWeb you can create new business services by reusing functionality from your host systems and integrating with enterprise applications such as ERPs, CRMs, and SCMs. This is all done non-invasively with unprecedented flexibility and deployment speed.

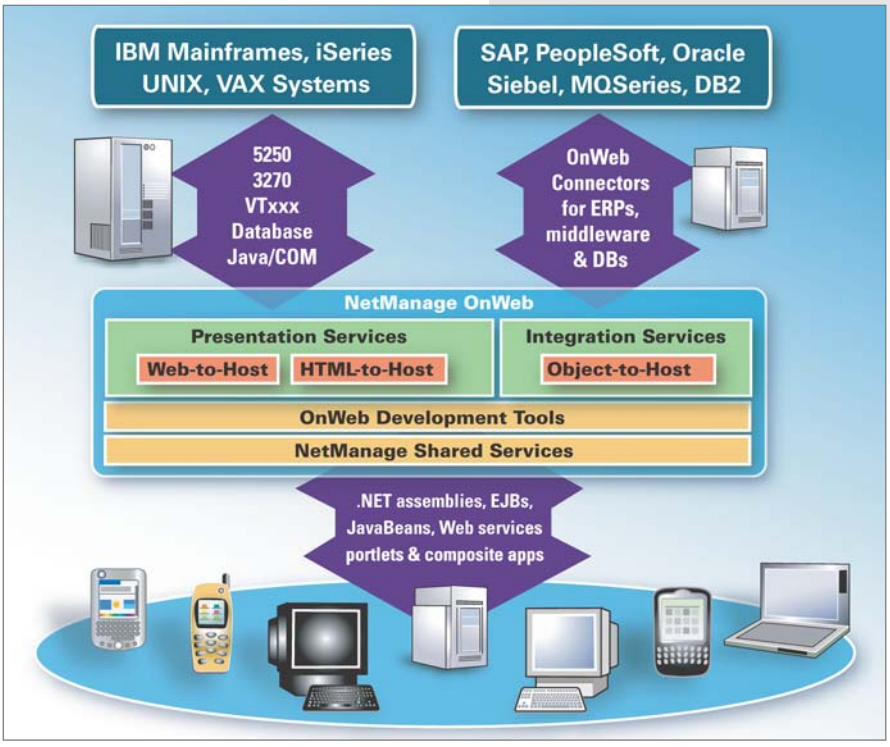
While some vendors focus on host application transformation and composition, they fall short in enterprise application integration. In contrast, other vendors are strong in integration and process management, but lack the technology and skill to work with host-based systems.

NetManage has proven and validated host access, publishing, and integration solutions with a large, satisfied customer base. Now with OnWeb and its wide array of application connectors, NetManage can help you bring together both host systems and enterprise applications to create standard-based Web-enabled composite applications.

As a result, OnWeb becomes a powerful and flexible platform for creating robust and scalable composite applications, leveraging your existing IT investment, and helping you move towards a service-oriented architecture (SOA).

Benefits

- **Realize service-oriented architecture (SOA) by building reusable components and composite applications**
- **Reduce cost and risk of developing new applications and services by reusing existing business data and logic**
- **Web-enable, integrate, aggregate, and automate host and back-end systems**
- **Increase efficiency and productivity, and realize significant ROI via reuse and rapid development**
- **Stay informed and in control by monitoring user access to applications and information**



OnWeb Product Suite

OnWeb is a central component of the NetManage solutions, consisting of:

- OnWeb Development Tools
- OnWeb Server
- OnWeb Connectors
- OnWeb Web-to-Host

NETMANAGE®

ONWEB®

OnWeb Development Tools

OnWeb provides easy-to-use visual development tools for publishing host applications and building reusable components, such as .NET assemblies, Web services, JavaBeans, EJBs, and portlets from host transactions and processes. The development tools can also be used for creating integrated Web-based and mobile presentations for composite applications and host screens. Little coding is required when you use OnWeb drag-and-drop tools.

Simple point-and-click operation allows you to navigate a host application, capture a "green screen," apply templates, insert graphics/buttons/menus, format text, and visualize the customized screen in your preferred HTML editor. Fields from screens across multiple hosts can be aggregated and composed into a single HTML page.

Presentations can be thin or zero footprint. In the case of HTML clients, you can apply different HTML templates for single users or workgroups. You can also customize presentations without any coding using HTML editors. The presentation can also be for mobile devices such as PDAs, smart phones and cell phones.

The development tools can insert scripts between screens or embed them in screen action sequences – including branching logic, start and stop recording, and reusing of scripts within other applications.

The standard components built using the OnWeb tools such as Web services and EJBs can be deployed onto the appropriate standard execution environment. The host publishing applications are deployed onto OnWeb Server.

Object-based components enable developers to build, prototype, and enhance applications with minimal coding, allowing rapid development of components and business services.

OnWeb development tools can be used as a standalone application or can be extended into popular integrated development environments (IDEs), such as Microsoft Visual Studio .NET 2003 or Borland JBuilder. These are Windows-based tools and the artifacts they generate can be deployed on a variety of Unix and Windows platforms.

OnWeb Development Tools Features and Benefits

- Visual, graphical, intuitive, rapid development environment to dramatically reduce application development cycles
- Capture host screen navigations into Web pages, reducing the number of screens and improving process flow
- Generates reusable components such as Web services, portlets, .NET or J2EE components from host transactions that can be leveraged in new business applications or integrated with existing applications
- Run as standalone tools or plug into popular IDEs to reduce the training cost associated with new programming environment

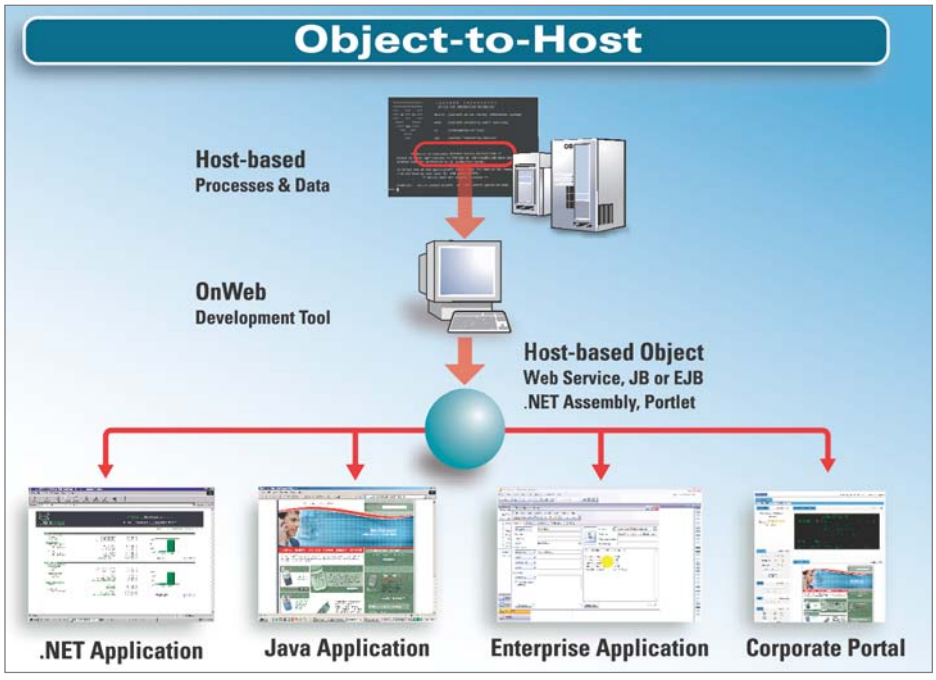
OnWeb Server

OnWeb Server is a highly scalable, secure, and robust server that provides the presentation of host-based applications and integration services of host and non-host based applications.

OnWeb Presentation Services enables mapping of one or more human-based transactions or processes to Web-based presentations, such as Web pages or portlets. OnWeb instantly converts 3270 and 5250 screen-based applications into HTML pages for presentation in a Web browser. No programming is necessary. Data fields from multiple host applications and host screens can be aggregated and composed into a single Web page. This can help you improve and optimize the application process flow by reducing the number of host screens accessed across multiple host systems.

OnWeb Integration Services enables you to capture specific host functionalities as reusable components – Web services, .NET assemblies, EJBs, JavaBeans, or portlets. This exposes the host functionality for reuse. You can then leverage these components in building new applications, orchestrate them to create new business processes, or enhance and extend existing ones. Such applications can also integrate with non-host enterprise applications via application-specific OnWeb Connectors.

OnWeb complements existing application server platforms, providing back-end connectivity and front-end presentation and composition functionality. For example, OnWeb develops EJBs that can be deployed on various application servers. Currently supported application servers include:



Automate host-based processes and data into reuseable components that can be used in building other applications.

IBM WebSphere, BEA WebLogic, Sun Application Server, and JBoss.

OnWeb Server Features and Benefits

- Transforms host applications into Web applications in hours and days instead of months
- Provides access, presentation, and integration services for EISs
- Secure
- Load-balancing across a cluster of servers to ensure scalability and minimal down time
- Multi-platform – runs on Windows, Solaris, Linux, and AIX to accommodate existing deployment environments

OnWeb Connectors

Besides host connectivity, OnWeb provides an extensive set of standard-based, high-performance, bi-directional, read-write adapters for the most popular packaged applications (SAP, Oracle, PeopleSoft), middleware (MQSeries, CICS), and databases (DB2, Oracle, SQL Server, Sybase) that are easy to configure and deploy.

Using OnWeb Connectors, you can integrate non-host back-end systems along with your host applications into composite applications.

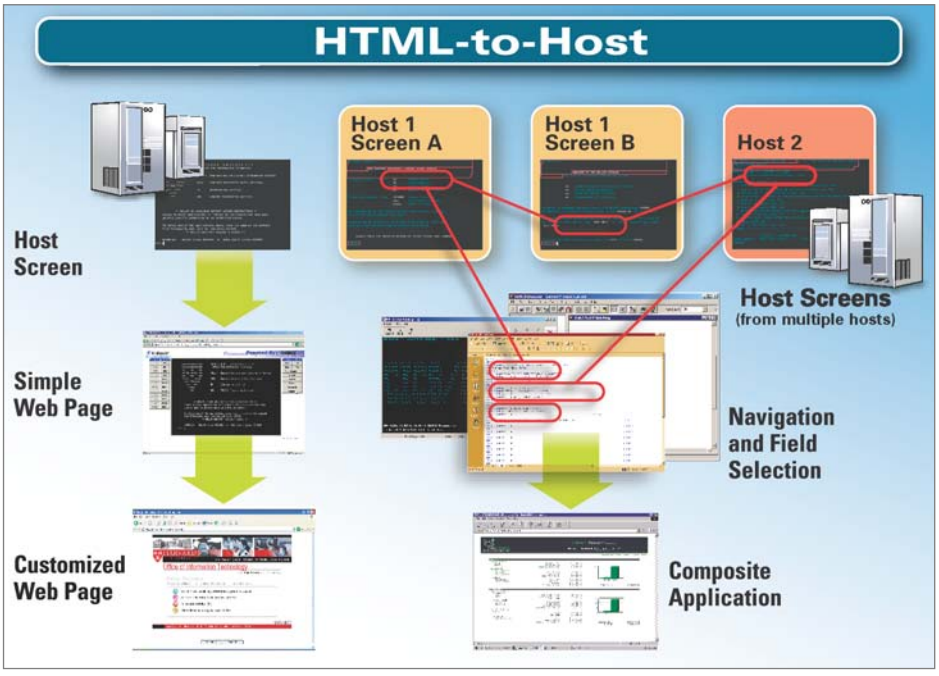
OnWeb Connectors Features and Benefits

- Out-of-the-box configurable adapters for enterprise applications, middleware, databases, and more
- Based on adapter standards such as JCA (Java Connector Architecture) and .NET
- Fast and efficient – no integration broker overhead
- Enable access to many heterogeneous data sources and application functionality

OnWeb Web-to-Host

A secure, browser-based host access solution that reduces the cost and complexity of accessing host applications

OnWeb Web-to-Host provides you with secure and affordable access to your host application in a browser, thus centralizing the control and maintenance of your screen emulators. Through a single Web browser, OnWeb Web-to-Host delivers a reliable host connection to mission-critical applications and data residing on virtually any host. Web-to-Host is easy to deploy and centrally administer for thousands of users in heterogeneous environments. Web-to-Host provides you with a bridge and a smooth migration between RUMBA (or other PC-to-Host solutions) and OnWeb HTML-to-Host because all NetManage solutions share a common shared foundation.



OnWeb enables you to customize the presentation of screen-based host information systems, as well as combine information from multiple hosts to create a composite application

OnWeb Product Family Highlights

Conversion tools and complete end-to-end migration

RUMBA/OnWeb Web-to-Host macro conversion tools let users convert pre-existing RUMBA and Web-to-Host scripts or macros into OnWeb macros. With this feature, NetManage offers complete end-to-end migration – from thick-client PC-to-host emulation to thin-client to HTML-to-host zero-footprint solutions.

For example, customers who have RUMBA installed in their environment are now able to seamlessly translate the macros they are currently using into macros that work with OnWeb.

OnWeb also provides SSL support for OnWeb Server to IBM host connections. In addition, OnWeb supports single sign-on (SSO) for clients to IBM iSeries applications utilizing the Microsoft/IBM Kerberos authentication protocol.

Support for Web services and service-oriented architecture

Web services is one of the main enabling technologies for SOA. This is an important method of integrating data from disparate systems and for defining reusable components with well-defined interfaces.

OnWeb provides a complete solution to deliver host data via Web services and make it consumable by other applications. OnWeb supports the Web services industry standards, including SOAP and WSDL.

OnWeb BizTalk Adapter

OnWeb also provides an adapter for BizTalk Server 2004 that enables OnWeb applications to participate in BizTalk processes as performers.

The OnWeb BizTalk 2004 Adapter allows existing host business logic to be used in new BizTalk-based applications offering real-time bi-directional access to host systems. The adapter is fully integrated into the BizTalk development environment and automatically generates BizTalk schemas.

Integrate with a wide range of EISs via OnWeb Connectors

OnWeb provides an extensive set of standards-based adapters that enable simple and scalable integration with many EISs – various applications (SAP, Oracle, PeopleSoft), middleware (MQSeries, CICS), and databases (DB2, Oracle, Sybase) that are easy to configure and deploy. This enables you to tackle the integration projects that involve both host and non-host systems.

Support for portal integration

OnWeb enables the generation of standards-based portlets that encapsulate one or more host-based business functions. These portlets can then be deployed to any 3rd-party portal implementation that supports the JSR168 portlet standard.

Access via mobile devices

OnWeb applications can also be accessed via mobile devices. A Web service built in OnWeb that captures a back-end application, can be consumed by a mobile application on a device such as a PDA. This allows your mobile users to have access to latest real-time data and update the back-end systems in real-time on the go.

Web-based administration, monitoring, and reporting

OnWeb provides a Web-based administration application that allows the administrator to configure users and set up user management, monitor user activity and generate reports. This provides the administrator in charge with control and information about the business and can be the basis for providing business performance metrics.

User management and security

Security is a key issue for mission-critical applications involving sensitive financial and customer information. OnWeb integrates with existing LDAP for authentication. OnWeb also support anonymous users, as access without ID and password may be required for certain applications.

Product Specifications and System Requirements

OnWeb Web-to-Host

Client OS Environment

Windows 98 SE, Windows NT SP6, Windows XP, Windows 2000

Macintosh OS X

Linux Clients

Web Browser Environment

Internet Explorer 5.5+, 6.0+

Netscape Navigator 6.2+, 7.0+

Web Server Environment

Any Web-enabled Server

FTP File Transfer To/From

Any FTP Server, including IBM, UNIX and Microsoft

SSL Authentication/Encryption

Standard for IBM and UNIX Host Connections

SSH Authentication/Encryption

Standard for UNIX Telnet and FTP Host Services

OnWeb Server

General Specifications

RunTime Server Operating System

Microsoft Windows 2000 Server and Advanced Server

Microsoft Windows 2003 Standard and Enterprise Edition

Sun Solaris 8 and above

RedHat Enterprise Linux

AIX 5L and above

OnWeb Development

Microsoft Windows XP Professional

Microsoft Windows 2000 Server and Advanced Server

Microsoft Windows 2003 Standard and Enterprise Edition

Supported Host Connections

Mainframes (3270 protocol)

AS/400, I-Series (5250 protocol)

UNIX and Linux Servers (VT protocol)

Any Database (ODBC protocol)

Presentation Environments

Browsers and Mobile devices

Internet Explorer 5.5 and 6.x

Netscape 4.5+, 6.2.x, and 7.x

Mozilla Firefox 1.0

Mozilla 1.5 (UNIX only)

Microsoft environment (Web services, COM interface, .NET Assembly)

J2EE environment (EJBs, JavaBeans, Portlets, Web services)

OnWeb Connectors

Packaged Applications

SAP R/3

JD Edwards

PeopleSoft

Siebel

Oracle Applications

TPM and Middleware

CICS

IMS

MQSeries

Databases

Oracle

DB2

Sybase

Informix

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