Micro Focus
EnterpriseLink™

Overview

Some of the most powerful and productive assets a company has are the existing business rules, data and processes embodied in its mainframe applications. You can leverage your existing enterprise legacy assets and put them to work in the e-business world with Micro Focus — the industry-standard for legacy application development, transformation and integration — providing three methods or paths to e-enable your company:

Presentation Integration

Apply a new HTML or XML interface to an existing enterprise application, without host changes, using a legacy to Web integration server. Presentation Integration is the most cost-effective method of creating an e-business from legacy applications. As no host changes are required, there is minimal risk involved.

Componentization

Re-use existing enterprise application logic and business processes and extend them into new e-business applications by accessing your mainframe transactions through COM or Enterprise JavaBeans (EJBs) components. Componentization allows you to deploy to open standards and accelerates development of new applications — all while continuing legacy support. Componentization is beneficial because it minimizes the effort required to create business components from mainframe applications. More importantly, it offers this ability without host code changes.

Asset Mining and COBOL Re-use

Move your legacy business systems forward into new technology by extracting business rules in COBOL and deploying them as COBOL COM components or EJBs on application servers. With asset mining, the business rules themselves are extracted in COBOL and then deployed as COM objects or EJBs, while at the same time enabling new development to take place in Visual Basic, C++, Java and more.

Highlights

Micro Focus EnterpriseLink

EnterpriseLink is legacy presentation integration and legacy presentation componentization. EnterpriseLink provides both a Presentation Integration Server that provides a universal interface layer for new and existing applications, and a Component Generator to build robust component interfaces to drive your legacy applications. EnterpriseLink allows you to integrate and extend your mainframe applications to the Web without having to undertake a major programming effort and without making changes to existing production systems. With EnterpriseLink you can:

- Capture host screens and their relationships and quickly map these to new COM or EJB objects, Web pages or XML files
- Construct professional, dynamic Web pages using drag-and-drop assembly

ADVANCED
CYBER SOLUTIONS

- Create re-usable components that can drive your legacy systems from the Web
- Streamline or change your processing by creating new workflows from your existing application without host changes
- Ensure optimal performance and 24x7 availability with load-balancing, fail-over support and non-hierarchical clustering
- Speed application analysis and component generation using Micro Focus Revolve® (included with EnterpriseLink)
- Use Micro Focus Mainframe Express™ (not included with EnterpriseLink) to emulate your legacy applications for developing and testing EnterpriseLink-generated components

Features

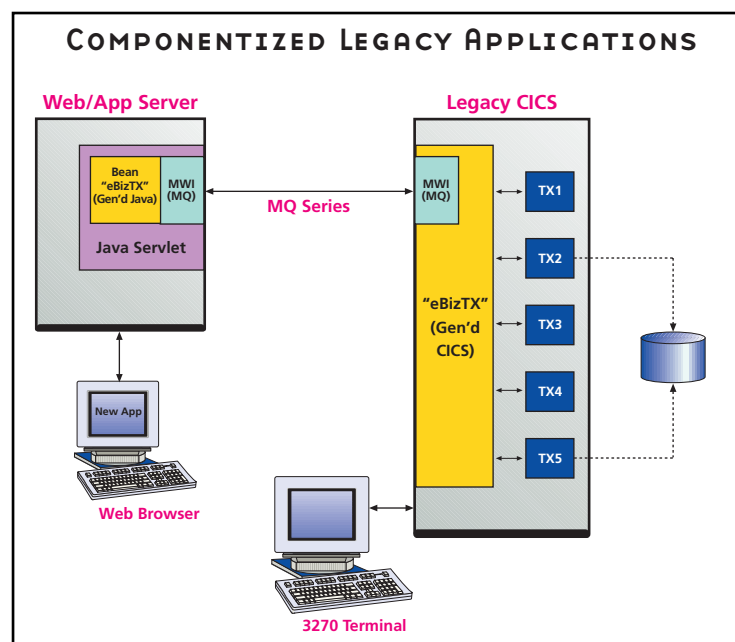### EnterpriseLink Integration Server

EnterpriseLink Integration Server integrates existing application business logic with HTML or XML pages without making any changes to the existing application. Enterpriselink Integration Server is an application server that provides a universal interface layer for new and existing applications. It provides a number of critical functions "on the fly" (at run time) for application integration and delivery. These functions include:

- Automated Conversion Environment – Provides instant 100% web front ends to your existing legacy application with no programming. Enterpriselink provide instant web interface conversion for your terminal driven systems (TN3270 or TN5250). The Integration Server dynamically generates HTML or XML for delivery via HTTP from your existing TN3270 or TN5250 application
- Transformation and Integration – EnterpriseLink's object repository contains the transformation rules specified by the application developer during the authoring phase
- Inter-application Communication – EnterpriseLink enables bi-directional communication between enterprise applications. For example, data from a terminal driven system can be extracted to update a relational database or vice versa, or data from a terminal driven system can be downloaded to a standard PDF form for local printing and viewing

- HTML Delivery – EnterpriseLink can deliver a unified Web browser view of integrated enterprise applications to any device that supports HTML by dynamically converting the objects in the repository into HTML at run time
- XML Delivery – EnterpriseLink can deliver information via XML, using XSL style sheets as required
- Object Delivery – Using SmartCOM, EnterpriseLink-defined Web pages and their objects can be delivered as COM components to C++, Visual Basic, VBScript, ASPs, or other COM-compliant subsystems
- Business Rule Extension – EnterpriseLink SmartScript™ extends the power of Integration Server to provide integration with other enterprise applications
- Web-based System Administration – All major EnterpriseLink System Administration functions can be performed from a Web browser, enabling remote access and preventing scheduled downtime

EnterpriseLink Loader

Loader provides a quick and easy method for capturing and converting host screens and their relationships to each other. During this automated capture process, Loader populates its repository with an object representation of the host system, its fields, attributes, and transitions and users workflow.

Componentized Legacy Applications

Web/App Server

Bean "eBizTX" (Gen'd Java)
MWI (MQ)
Java Servlet

New App

Web Browser

MQ Series

Legacy CICS

MWI (MQ)
TX1
TX2
"eBizTX" (Gen'd CICS)
TX3
TX4
TX5

3270 Terminal

EnterpriseLink Builder

A 100% Java Application, Builder provides everything a Web developer needs to rapidly construct professional, dynamic Web pages from the object representation of the host function captured during the Loader phase. Builder uses a drag-and-drop object assembly metaphor for building Web page templates that are automatically populated with live data when the application is running. Builder is the first legacy presentation integration tool that can run on Solaris and AIX, giving your UNIX developers the tools they need to integrate to mainframe applications.

Builder infers the transformation rules from the author's drag-and-drop actions, freeing the author from manually programming the behavior of each screen element and every screen transition. It can combine many application and data elements: host screens (one or more screens on a single Web page), tables from a host database, data from a relational database outside the host system and even entire Java Applets or ActiveX plugins. The application author can also add special-purpose JavaScript or VBScript to the Web page.
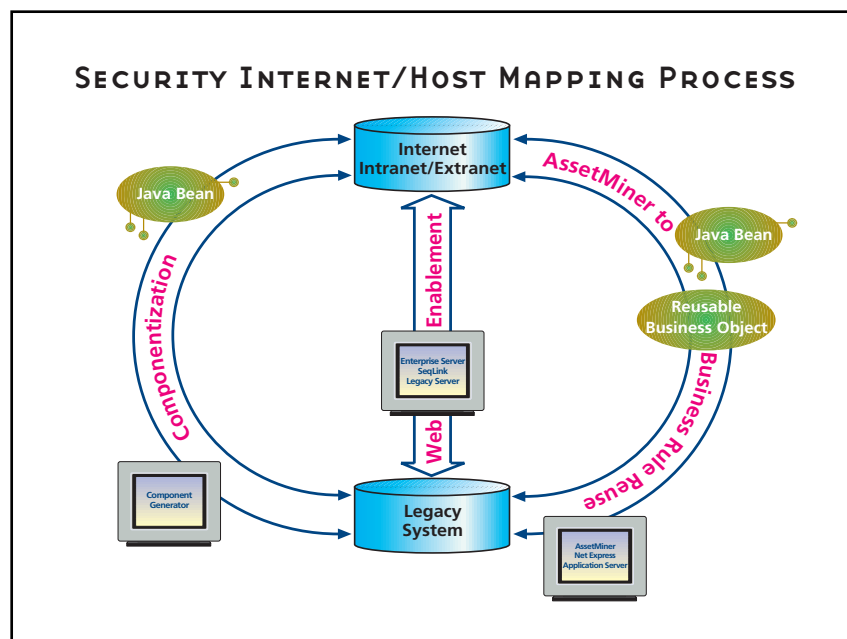
Cluster Server

Cluster Server delivers 24x7 application availability with non-hierarchical clustering and no single point of failure. Additionally, it provides scaling to thousands of users and optimizes performance even with unpredictable spikes in user traffic. It transparently provides load balancing and fail-over for as many servers as needed, to deliver 99.99% uptime for large-scale extranet and Internet applications.

Security Server

EnterpriseLink's Security Policy Manager controls the levels of security to which users connect interactive host applications to the Internet. It allows you to:

• Leverage a host mainframe Security Subsystem, such as IBM's RACF, Computer Associates' ACF2 or TopSecret to authenticate individuals before they access corporate resources

• Define one or more Security Objects, which are made from the security rules, embedded in the applications

• Interface with other standard security processes such as LDAP, SSL, Certificates and PDCs

SECURITY INTERNET/HOST MAPPING PROCESS

EnterpriseLink Component Generator

With EnterpriseLink Component Generator, you can capture complete legacy application business processes and automatically generate reusable, industry-standard components in the form of JavaBeans, EJBs, COM and XML for use throughout your enterprise. With Component Generator you can:

- Maximize return on existing mainframe assets – enable mainframe assets to be integrated into new applications

- Mainframe Components – eBiz Transactions (business-oriented components that can be re-used and integrated with other applications) can be combined with custom and off-the-shelf components to assemble new applications

- Reduce risk – no changes to existing applications are required since eBiz transactions manage all communication with your legacy application

- Support standard component models – JavaBeans, Enterprise JavaBeans and COM

- Enable mainframe assets for use in B2B transactions – visually map mainframe data to vertical industry XML DTDs

- Enable mainframe assets for use in wireless and consumer devices using J2ME

Transform Mainframe Transactions into Reusable eBiz Transactions

While getting to the Web quickly is critical, most companies also want to increase the return on their e-business development efforts through component re-use strategies. Component Generator enables you to encapsulate host transactions and application workflow into new software components called eBiz Transactions. eBiz Transactions make it possible to modernize existing application processes to meet new e-business requirements.

Automatically Generate Industry-standard Components

Component Generator automatically generates all code required to deploy or integrate your legacy applications as e-business applications, including JavaBeans, Enterprise JavaBeans, COM, XML, supporting COBOL modules and middleware components. One hundred percent industry-standard code generation delivers a non-proprietary solution that ensures future flexibility with respect to technology options, and does not require specialized Java or middleware expertise.

EnterpriseLink Workflow Capture Facility

Component Generator's Workflow Capture Facility enables users to capture the screen transitions and user interactions required to perform complete business processes. These workflows can then be generated as re-usable components encapsulating logical units of work, not just data access. As a result, your developers or business partners can develop or enhance e-business applications using components that represent existing business processes without understanding the supporting back-end legacy process.

Automatic Generation of Java Client

Component Generator allows you to automatically generate a Java client to test your components and to use as a starting point for a new GUI front-end. This provides the advantage of testing your generated components immediately using the generated Java client — without taking the time to import them into a Java IDE. You can then use the generated Java client within any industry-standard Java IDE as a starting point for your Java GUI, giving you results quickly.

Customizable DTD XML Mapper

Component Generator developers can import vertical-industry standardized and pre-formatted XML Document Type Definitions and map the fields to the corresponding data fields in their existing mainframe CICS applications. This means that differing legacy mainframe and other applications can easily do what they have never been able to do before — communicate and share data in a format that is standard throughout the industry. This not only opens doors to the sharing of information, it also allows companies and partners to collaborate in an efficient manner, increasing competitive advantage and reducing the overall cost of doing business.

Wireless Connectivity

Component Generator can generate components in Java 2 Platform, Micro Edition (J2ME) and support the development of legacy applications that are connected to consumer devices such as cell phones, two-way pagers, and wireless personal organizers. It will provide legacy connectivity to consumer devices from companies like Motorola, Nokia, NTT DoCoMo, Palm Computing, Research In Motion, Siemens and many others. The result is a highly portable, small-footprint application that ties the unique capabilities of Java technology to the power of legacy.

With Micro Focus EnterpriseLink you can integrate or extend your legacy application and deliver secure, scalable, business-critical applications to the Web or to other enterprise applications. Enterpriselink provides a single solution that delivers J2EE, J2ME, COM, XML and HMTL presentation integration that will help you leverage your investments in S/390, zSeries, CICS, and AS/400 iSeries legacy applications.

Technical Specifications

Hardware/Software Requirements

- IBM AIX
- Sun Solaris 2.6 or higher
- Windows NT
- Windows 95/98/00

Supported Platforms

- Intel Pentium family
- IBM RS/6000
- Sun SPARC – SPARCstation
- Ultra Enterprise Server 450, 4000, 5000,10000
- Windows NT 3.5.1, NT 3.5 (Service Pack 5 or later)
- Windows NT 4.0 (Service Pack 3 or later)
- Windows 2000 – Server components

Supported Web Browsers

- IBM WebSphere
- Netscape FastTrack Server 2.0, 3.01
- Netscape Enterprise Server 3.0, 3.51, 3.61
- iPlanet Enterprise Server 4.0
- Microsoft Internet Information Server 2.0 or higher

About Micro Focus

Micro Focus is the industry leader in COBOL development solutions ranging from traditional maintenance and program understanding to business rule mining, Web-enablement and user-interface transformation. Over 70,000 licensed users at more than 7,000 sites around the world use Micro Focus' unsurpassed breadth of platform support, performance and scalability. Micro Focus offers the most comprehensive suite of development and integration environments to help customers succeed in taking full advantage of the power of their legacy systems. Founded in 1976, Micro Focus is a global company that employs more than 450 people worldwide with principal offices in the United Kingdom and North America. For more information, visit **www.microfocus.com**.

877 772 4450
microfocus.com

Micro Focus Worldwide

Australia . . . .+61 2 9904 6111
Belgium . . . .+32 15 30 81 11
Canada
   Ontario 905 824 7397
   Quebec 800 280 9487
France . . . .+33 (0) 170 929 494
Germany
   Dortmund . . . .+49 231 75 85 0
   Munich . . . .+49 89 96 27 10
Ireland . . . .+353 1 469 3121
Italy
   Milan . . . .+39 02 6943401
   Rome . . . .+39 06 5153931
Japan . . . .+81 3 5401 9670
Netherlands . . . . . .+31 (0) 23 5689 138
Norway . . . . +47 22 91 07 20
Sweden . . . .+46 8 545 13 390
United Kingdom . . .+44 (0) 1635 32646
United States . . . .(+1) 877 772 4450
Other Countries . . . .+44 (0) 1635 32646

MICRO FOCUS