

**Opportunities for IBM software  
development partners and customers**  
June 2004



## **The IBM Software Development Platform Partner Ecosystem**

*Peter Stolinsky*  
*IBM Software Group*

---

**Contents**

---

- 2 Executive summary**
- 3 Software development as a strategic resource**
- 4 Overall objectives of the IBM Software Development Platform**
- 4 Characteristics of the IBM Software Development Platform**
- 6 Example of the value of the IBM Software Development Platform**
- 7 The ecosystem surrounding the IBM Software Development Platform**
- 8 The Eclipse tools integration platform**
- 12 Components of the IBM Software Development Platform**
- 17 The Rational suite of development tools**
- 20 Support for the IBM Business Partner ecosystem**

**Executive summary**

The IBM Software Development Platform offers IBM customers and Business Partners a simplified, modular approach to automating and integrating the software development process across people, software and systems. Open and proven, it enables companies to develop software to better respond to their competition and customers.

Today, an ecosystem of hundreds of IBM partners adds value to the IBM Software Development Platform. These companies provide complementary technology and services for Eclipse, WebSphere® Studio Workbench, WebSphere Studio and Lotus® Domino® software as well as for the Rational® suite of products. Their products and services span the entire application development life cycle, from analysis through design, testing and deployment.

These IBM Business Partners also reap great value from the IBM Software Development Platform—by using the platform in their own development efforts and by leveraging the technology, technical support and marketing resources available in the IBM Software Development Platform ecosystem.

IBM Business Partners are the core of the ecosystem. They bring great value to users of the IBM Software Development Platform by adding both horizontal and domain-specific expertise to help customers build software for e-business on demand™ environments.

IBM continually improves the IBM Software Development Platform and the support programs backing the ecosystem. Thus, it is getting easier and more valuable for partners to belong to the ecosystem and help drive customer successes. This white paper describes the ecosystem and the value it brings to IBM Business Partners and joint customers.

### **Software development as a strategic resource**

One of the major success factors for enterprises following an on demand business model is software development capability. More than ever, corporate responsiveness and agility depend on IT initiatives. This is reflected onto software development teams as they integrate existing applications with customers and partners, modernize applications, extend packaged applications with custom capabilities, build new applications and deploy applications to production environments.

Software development capability is a strategic corporate resource. Because software helps businesses understand and respond to their customers and competitors, it is essential to the on demand business model. It can add agility to business processes, lower costs through automation and enable real-time decision making—the ramifications are endless.

Based on IBM's experience with thousands of projects, software development teams that implement the following four imperatives deliver higher quality software, more quickly and at a lower cost:

- *Develop iteratively*
- *Focus on architecture*
- *Continuously ensure quality*
- *Manage change and assets*

IBM is committed to helping ensure the success of customers whose businesses depend on software. These four software development imperatives are the foundation of a multifaceted, integrated IBM Software Development Platform that can help developers build, integrate, extend, modernize and deploy software-based systems.

### **Overall objectives of the IBM Software Development Platform**

IBM's primary objective for the IBM Software Development Platform—and the broad partner ecosystem that surrounds it—is to assist customers in optimizing their software development processes to improve their ability to operate as on demand businesses.

Because the IBM Software Development Platform has an extensible architecture based on open standards, IBM Business Partners and customers can choose from a range of complementary approaches and tools from IBM and other industry participants. All participants in the ecosystem can extend the IBM Software Development Platform.

### **Characteristics of the IBM Software Development Platform**

The IBM Software Development Platform is an open, proven and complete integrated application development environment. The platform transforms the way software is built by providing a unified approach that is customizable and scalable to fit all projects and team sizes. The following are highlights of the IBM Software Development Platform.

**The platform takes a holistic view** of the application development life cycle and its challenges. The on demand business model requires that development platforms support a rich, integrated development and deployment experience. Most developers view their job holistically: they need to address the full life cycle, from understanding their business to monitoring and managing running applications. While they are looking for the best products for each phase of the life cycle, they are also looking for tools that integrate software and processes across the life cycle. They want to be able to see the “big picture,” examine the implications of changes in the life cycle and optimize their activities in terms of quality, efficiency and use of resources. They want their development process to be business driven and to be an integral part of business goals.

**This comprehensive software development platform** combines products and services from multiple sources to meet the development needs of corporate developers, individual developers, software vendors and systems integrators.

By supporting open source and multiplatform environments and helping ensure easy integration of new tools, the IBM Software Development Platform can expand the opportunities for developers, software vendors and services companies to grow their offerings and pursue new business opportunities.

**The platform can lower the cost** of developing and integrating new applications within existing environments as well as make providing extended functionality easier, less costly and faster to achieve. Developers want to focus on adding value, not developing IT underpinnings and infrastructure.

**The platform is open** and proven at producing cross-platform solutions. Application programming interfaces (APIs) are clearly defined; the supporting infrastructure is well implemented; and a broad and diverse community is committed to enriching the overall platform as well as deriving incremental value from it.

**The platform can accelerate the development, integration and deployment** of enterprise solutions. The IBM Software Development Platform offers a simplified, modular approach to automating and integrating the business and process of software development across people, software and systems. This approach enables companies to better respond to competitive and customer demands.

The IBM Software Development Platform includes a set of application life-cycle management tools for Microsoft® Windows®, UNIX®, Linux®, Domino and mainframe platforms, and provides support for a variety of programming languages, integrated development environments (IDEs) and operating environments. It enables development for multiple platforms and open source platforms and ensures interoperability across teams and disciplines. It also helps to facilitate reuse of processes, skills and life-cycle tools.

The IBM Software Development Platform, complemented by its partner ecosystem, offers a complete and modular set of tools by spanning all the capabilities of software development:

- **Requirements and analysis:** IBM solutions help developers analyze the financials of a proposed project and document both its business and technology requirements.
- **Design and construction:** IBM offers a broad spectrum of code-based, model-driven and rapid application development solutions for developing high-quality software.
- **Software quality:** IBM testing tools accelerate quality assurance activities by building a valuable foundation of reusable test artifacts.
- **Software configuration management:** IBM change management solutions include version control, software asset management and defect and change tracking.
- **Process and project management:** IBM offers team solutions to manage change and requirements, to model and test systems and to assess and report progress using a proven development process.
- **Deployment management:** IBM offers deployment capabilities to integrate changes efficiently into production environments and monitor their impact on the IT infrastructure.

**This extensible platform** facilitates the integration of new functions and platforms. Modularity supports quick time to value by enabling developers to adapt to new standards and include them in the platform. Both IBM and members of the ecosystem extend and enhance the IBM Software Development Platform. As new standards, such as Unified Modeling Language (UML) 2.0 and the Reusable Asset Specification (RAS), are ratified by standards organizations, IBM expects them to add additional value to the platform.

#### **Example of the value of the IBM Software Development Platform**

Unisys Corporation uses the IBM Software Development Platform to help better serve its customers and deliver differentiated services in the fiercely competitive systems integration business. The IBM Software Development Platform, including its Rational tools and best practices, helps Unisys implement model-driven architectures and develop Web services. As part of its 3D Visual Enterprise approach, Unisys creates a digital map of its client's business—from business strategy to infrastructure implementation.

To facilitate these services, Unisys needed a set of tools and processes that could be extended beyond the traditional software development space. It needed to incorporate business architecture as well as detailed services-based architecture into the visual model of the client's entire infrastructure. "Our decision to use Rational solutions was not based on any one tool; it was the notion that this is a holistic strategy of how to build a solution," says Ed Ferrara, architect director at Unisys.

The Unisys team focuses on increasing the reusability of its software and making the most of the intellectual capital in its organization. According to Ferrara, it is the combination of Rational tools, including modeling tools such as IBM Rational Rose® XDE™ software; support for UML; best practices for software development; and the IBM Rational Unified Process® or RUP® platform that provides a complete solution for his company's needs. "Using UML and the IBM Rational Unified Process, as well as BPEL (Business Process Execution Language)-based representations of our client's business architecture, we can get disparate populations—different groups—all understanding exactly what we are doing and what we are building."

This approach enables Unisys to rally all its developers and consultants around a common language and process for software development—UML and RUP—and then builds on RUP and the IBM Software Development Platform tools to enable reuse of software artifacts across teams and projects, thus providing leverage for Unisys consultants and customers in the company's consulting engagements.

#### **The ecosystem surrounding the IBM Software Development Platform**

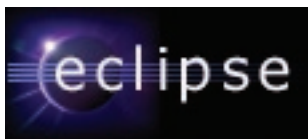
IBM Business Partners enrich the IBM Software Development Platform to meet a wide range of developer and project team needs. They provide application and industry expertise, implementation services and extensions to the platform. The openness and modularity of the IBM Software Development Platform helps IBM and its partners continually add value to the software development process. This ability for partners to extend the IBM Software Development Platform has created a strong ecosystem that is flourishing.

The IBM Software Development Platform ecosystem creates the *ecosystem effect*. This is a virtuous growth cycle in which, as more partners join the ecosystem and add value to the IBM Software Development Platform, the platform becomes richer and more valuable to both partners and customers—which in turn attracts even more partners and customers contributing to and gaining from the increasing value of the IBM Software Development Platform.

The IBM Software Development Platform partner ecosystem comprises a broad range of IBM Business Partners—some focusing on technology development and others on services delivery—all striving to help developers and project teams using the platform. Examples of additions made by ecosystem members to the IBM Software Development Platform include:

- **Horizontal extensions** to enable incremental functionality for specific tasks, such as project risk management, project impact assessment and so on
- **Horizontal integrations** with other development tools, applications and frameworks to support the application development life cycle
- **Domain-specific extensions** to enable functionality for specific industries and industry applications

The ecosystem is a key reason that the IBM Software Development Platform is a technology leader today. IBM plans to continue improving the technology and program framework supporting the ecosystem—to make enriching the ecosystem even easier and more valuable for partners and to drive greater customer success.



#### **The Eclipse tools integration platform**

The IBM Software Development Platform is based on the Eclipse universal platform for development tools integration. The Eclipse Foundation is a nonprofit, member-supported corporation that hosts community-based open source projects. As a founding member, IBM contributed US\$40 million in software tools to start the Eclipse project. Eclipse creates royalty-free technology and a universal platform for development tools integration, modeling, testing and rich-client construction that offers deep levels of semantic integration.



This platform provides an open environment for enterprise development with the capability to support all phases of the application development life cycle, including analysis, requirements, design, development, testing, software configuration management, defect tracking, project management and so on.

The main components of Eclipse include a universal platform for development tool integration and a Java™ development environment built using the platform. Many organizations extend the platform and build tools with it to support specific kinds of development approaches and technologies. At the heart of the Eclipse platform is an extensive toolset with core capabilities plus support for extensions through a plug-in architecture. When developers build solutions based on Eclipse, they often create a set of plug-ins that extend and customize the Eclipse platform.

Eclipse enjoys broad industry support from a wide range of software vendors and corporate developers. More than 50 major software companies are members of the Eclipse Foundation, contributing software and using Eclipse technology within their products. Developers have made more than 21 million download requests for the Eclipse universal platform. This provides a maturity and breadth to Eclipse and spurs ongoing development and increasing value.

Figure 1 shows the core Eclipse framework and some of the extension APIs.

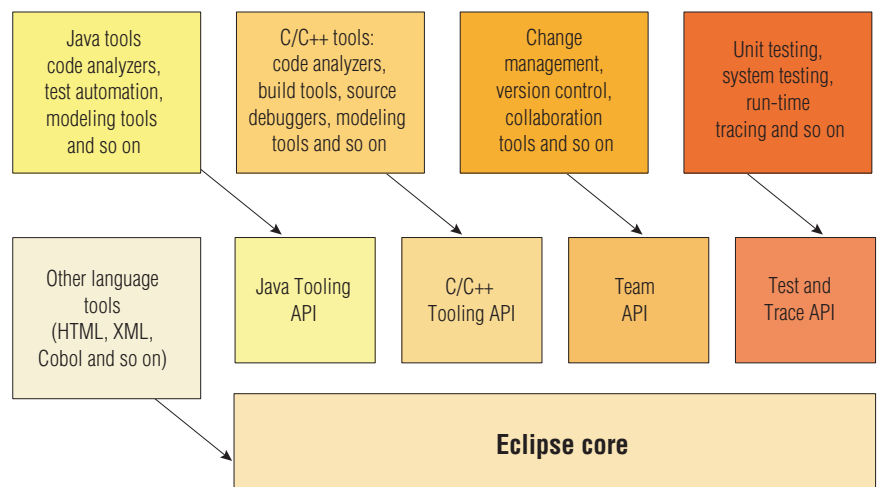


Figure 1: Components of a development-tool chain based on the Eclipse framework and their potential integration points

### ***The Eclipse Modeling Framework***

The Eclipse Modeling Framework (EMF) is a fundamental part of Eclipse, enabling the platform's modeling capabilities to interoperate with other tools and applications. Developers can use the modeling framework and code-generation facility to build tools and other applications based on a structured data model. Described in the XML Metadata Interchange (XMI) specification (an Object Management Group specification for adding information descriptors to data), EMF provides tools and run-time support to produce a set of Java classes for the model; a set of adapter classes that enable viewing and command-based editing of the model; and a basic editor. Models can be specified using annotated Java, XML documents or modeling tools such as Rational Rose, and then imported into EMF.

Most important, EMF provides the foundation for interoperability with other EMF-based tools and applications. EMF acts as a common "alphabet" for all tools and applications to interoperate using the Eclipse platform.

The Unified Modeling Language standard for representing business and data models works in conjunction with EMF. Using this common language, two applications that use the same API can exchange meaningful information with each other. Recently, UML has evolved based on industry and user feedback. IBM, in conjunction with the Object Management Group (OMG) and other industry participants, is focusing significant efforts on developing UML 2.0.

### ***The Eclipse C/C++ Development Tools project***

The Eclipse Foundation is expanding the capabilities of Eclipse to support the millions of developers using C and C++. The C/C++ Development Tools (CDT) project is working to provide a fully functional C and C++ IDE for the Eclipse platform. The CDT project has released version 1.2 and is currently working on a feature release designated as version 2.0, targeted to be finalized later this year. Several CDT project members have released commercial products based on CDT 1.2, including QNX, Red Hat, Timesys and Tensilica.

***The Eclipse Hyades project***

The Eclipse Foundation has launched a new open source project focused on full life-cycle integration of advanced test and trace facilities for automated software quality. The Hyades project framework will make it easier to integrate a broad range of functional verification, quality assessment and load-testing tools with the Eclipse platform's workbench and other tools. Now in its early form, the Hyades Testing Framework provides a single view of test assets and the testing life cycle for all tools in the IBM Software Development Platform. It facilitates integration of test activities throughout the life cycle, encouraging test-first approaches to development and enhancing traceability from test artifacts to other artifacts in the life cycle.

With its shared open integration framework, Hyades supports better tool interoperability and gives developers greater choices in vendors and access to a richer set of offerings. The breadth and flexibility of the Hyades framework enables it to support the entire testing life cycle. Hyades does not specify a testing methodology, providing flexibility and substantial scope for services partners to add value. This will allow Hyades-based tools to address a full range of Automated Software Quality assurance processes—from static code analysis through automated functional testing and performance testing.

Hyades will implement an OMG-defined UML testing profile in which Test Case, Test Trace, Test Objective and Verification artifacts are maintained. Test objectives related to performance and scalability can be evaluated for a range of real-world deployment environments, including alternate mixes of server and network interconnection technologies. New approaches to quality assessment testing that link the initial requirements definition, an object-oriented model of the application and test-management evaluation tools will also be supported.

The Hyades framework extends the functionality of the IBM Software Development Platform and makes it easier for software vendors, system integrators and others to integrate their tools with the IBM platform.

**Components of the IBM Software Development Platform**

The IBM Software Development Platform is built with a set of shared components and models targeted to serve each member of a software development team (see Figure 2). All of the models are defined using EMF, which enables them to interoperate with other tools and applications.

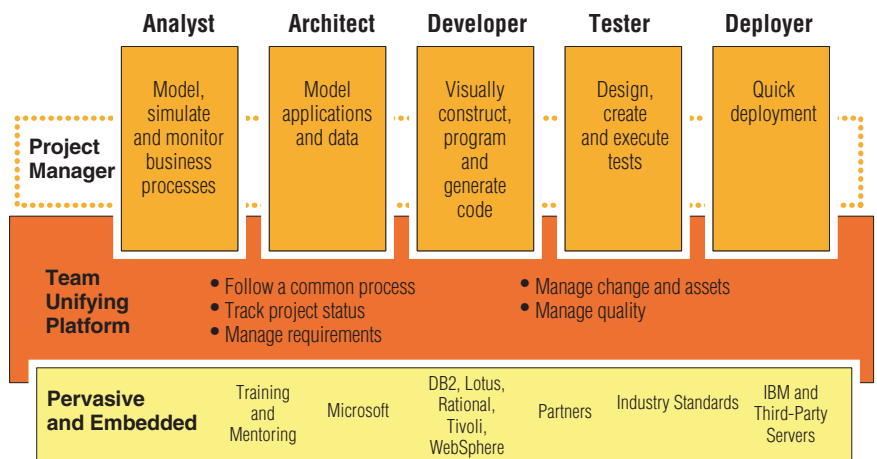


Figure 2: The IBM Software Development Platform supports development teams and individuals in the development process

The IBM Software Development Platform also takes advantage of an infrastructure for teamwork, including requirements management, code management, test management, systems management, security and project management. The infrastructure is built using IBM middleware components including WebSphere Portal, WebSphere Application Server, DB2®, Lotus Domino and Tivoli® Identity Manager and Configuration Manager. Openness enables integration with other leading middleware and application solutions.

IBM is committed to evolving the IBM Software Development Platform to maintain the platform’s leadership position and increase its value to IBM partners and customers. One focus will be on increased integration among the core components. Another is to further enhance developer and team productivity. IBM will also increase openness to help others easily integrate

new components into their own solutions. IBM plans to update and enhance the elements of the IBM Software Development Platform on a regular basis to leverage the latest technology innovations and contributions of other organizations.

The following sections describe the various IBM products that are part of the comprehensive IBM Software Development Platform. Also described are the activities of ecosystem members and how they add value to the platform.

#### ***IBM WebSphere Application Server***

The IBM WebSphere Application Server is a platform for building and deploying mission-critical J2EE™ applications. Vendors of third-party products have the opportunity to add significant value to WebSphere deployments. As a result, WebSphere is more than just a platform for applications. It also enables a significant group of companies to help build, test, deploy and manage J2EE applications. Thus, enterprises have a wide choice of vendors and products, enabling them to find a solution to almost any unique need.

#### ***IBM WebSphere Studio Workbench***

The WebSphere Studio Workbench is the primary IBM tool optimized for developing applications for the WebSphere Application Server. Based on the Eclipse framework, the IBM WebSphere Studio Workbench is a run-time integration platform that enables tool providers to build platform-neutral, enterprise-ready application development tools.

The WebSphere Studio tool development kit (TDK), included with WebSphere Studio Workbench, helps tool builders create plug-in tools for WebSphere Studio Workbench that integrate with one another.

IBM Business Partners can gain several benefits from working with WebSphere Studio Workbench, including:

- **Access to new and growing markets** by building products for IBM's leading-edge e-business run-time environments such as WebSphere Application Server and MQSeries® products
- **Reduced time to market** through exploitation of open-standard APIs and use of the base WebSphere Studio Workbench tool technology
- **Quick and easy addition and removal of tool components**, enabling last-minute packaging decisions to respond to changing market requirements
- **Reduced development costs** and the ability to focus often limited development resources on core competencies by leveraging the base tool technology from IBM
- **Leverage of IBM marketing resources** by developing tools that integrate with IBM tools through WebSphere Studio Workbench and by becoming involved in IBM marketing programs



The “Ready for IBM WebSphere Studio” software validation program certifies integrations and plug-ins for IBM’s Java IDE family and WebSphere Studio Workbench.

#### **IBM Tivoli software**

The following Tivoli software products are part of the IBM Software Development Platform framework.

**Infrastructure monitoring:** IBM Tivoli Monitoring watches over essential system resources to detect bottlenecks and potential problems and to automatically recover from critical situations. Using IBM Tivoli Monitoring with Rational testing tools, developers can simulate multiple clients, projecting how a system is likely to respond under load. They then can set accurate performance objectives for the software under development, which are measurable during the test phase using the same Tivoli Monitoring software.

**Identity management:** IBM Tivoli Identity Manager provides the security within the IBM Software Development Platform, enabling developers to add security access, identity management and privacy management to protect software development projects.

The Tivoli Identity Manager can also be used to assign the appropriate tools to each individual developer. Roles such as developer, architect and tester can be assigned, allowing authorized access and customized benefits—for example, automatically loading personal machines with the tools needed from a central source—based on the individual’s identity.

The Tivoli Identity Manager can do the same within the software being developed. Tivoli Identity Manager includes a suite of security functions that are very easy to deploy—its single sign-on and automated password management can help cut project costs.

**Configuration management:** The IBM Tivoli Configuration Manager automates the distribution of code and provides the ability to undo changes if problems are encountered, thus restoring the original environment. Its software distribution module enables rapid and efficient deployment of complex mission-critical applications in development and production environments to multiple locations from a central point.

***Lotus software products and tools***

IBM Lotus software products and tools can enhance the productivity of everyday business processes. Lotus products connect people to business processes, information, applications and other people. The IBM Software Development Platform includes the following Lotus products which provide business partners with better team collaboration, simplified development and improved workplace productivity.

**IBM Lotus Domino:** IBM Lotus Domino Software is a multiplatform foundation for collaboration and e-business. This enterprise-class messaging and collaboration system is built to maximize worker productivity by unleashing the experience and expertise of individuals, teams and extended communities. It helps maximize server availability with clustering, transaction logging, server fault recovery and automated diagnostic tools and helps reduce the time and cost of software deployment and configuration.

**IBM Lotus Domino Designer:** IBM Lotus Domino Designer® software helps developers rapidly build nearly any IBM Lotus Notes® or Lotus Domino collaborative application to maximize organizational efficiencies. Developers can rapidly build, test and deploy open, security-rich, mission-critical business applications. Using the Lotus Domino Toolkit for WebSphere Studio, developers can start building JavaServer Pages™ simply by dragging and dropping existing Domino design elements such as forms, views and agents.

**IBM Lotus Enterprise Integrator:** IBM Lotus Enterprise Integrator® software allows the high-performance, scalable exchange of data between Lotus Domino and relational database systems as well as native access to those database systems. With point-and-click ease, developers can create, manage and schedule batch and real-time access to provide integration with relational systems such as DB2 and Oracle databases or enterprise resource planning (ERP) systems such as SAP. This product enables the rapid creation of automated business-process solutions that can increase employee productivity.

**IBM Lotus Workplace Builder:** The IBM Lotus Workplace Builder is an application development framework for building project-based collaborative applications.

#### ***DB2 Universal Database***

The IBM DB2 Universal Database™ (UDB) plays an important role in the IBM Software Development Platform by enabling developers to write in one format and by supporting development for both Java and Microsoft .NET applications. All elements of the DB2 portfolio—database servers, business intelligence software, enterprise content management software, data management tools and information integration software—support the e-business on demand model.

The IBM DB2 and Linux Validation Program forms the basis of the “Ready for IBM DB2 Software for Linux” certification. This program provides a process for ensuring that DB2 UDB operates successfully within a variety of Linux environments. It specifically tests for DB2 UDB interoperability with operating system-level software on Linux. Vendors that have undergone the Linux validation process can use the certification in their marketing



campaigns to promote the fact their product has been tested with DB2 UDB for interoperability, thus assuring customers and partners of the robustness of such a solution.

***The Rational suite of development tools***

For many years, IBM Rational Suite® tools have set the benchmark for software development infrastructures in thousands of corporations worldwide that are committed to realizing the competitive advantage that software brings to the on demand business model.

Rational, now part of the IBM Software Development Platform ecosystem, has a long history of partnering with software vendors and service providers to extend Rational tools. Starting with the RoseLink program, Rational created a strong ecosystem around Rational Rose, which helped to drive this product to its leading position in visual modeling—a position it maintains to this day. And several Rational software vendor and services partners have built strong businesses around this ecosystem, extending Rational Rose and providing services to customers implementing it in their organizations.

The ecosystem around Rational tools has led to the development of hundreds of plug-ins that work with the Rational platform, from process plug-ins using the RUP IBM Rational Process Workbench® tool to asset management repository integrations with Rational ClearCase® software. IBM Rational is continuing to focus on enhancing both the role-based and team infrastructure functionality of its solutions and to ensure the capability for a broad range of technology and services partners to integrate and extend the IBM Software Development Platform using its open APIs and the benefits of its partner programs.

Flashline Inc. is benefiting from the broad scope of the IBM Software Development Platform. Flashline uses the IBM Software Development Platform to increase enterprise visibility into how teams are creating and using software assets, allowing IT managers to determine whether they are in compliance with corporate and architectural mandates and to reduce duplicate efforts. As projects are deployed, Flashline automatically tracks both time and costs saved through the reuse of existing assets. Software developed and managed in any of the IBM Software Development Platform tools can be leveraged across projects and throughout an enterprise. Through its integration with ClearCase, Flashline captures and extends metadata about key software assets, making them easier to discover, evaluate and reuse in multiple projects. As projects are deployed, Flashline automatically tracks both time and dollars saved through the reuse of existing assets. Through integration with IBM Rational ClearQuest® software, asset details such as defects and change requests are included with asset metadata within Flashline. Flashline is a RAS repository, managing both Reusable Asset Specification (RAS) and non-RAS assets, and integrates with a broad set of the IBM Software Development Platform components, including ClearCase, ClearQuest, XDE and WebSphere Studio Application Developer.

The following is an overview of the Rational products that form a key underpinning of the IBM Software Development Platform.

**IBM Rational ClearCase:** As a leading software configuration management solution, Rational ClearCase has a long history of helping developers manage software and provide a stronger user experience through integration with IDEs. ClearCase integrates with several IDEs, including WebSphere Studio Application Developer, QNX Neutrino and Green Hills RTOS.

Flashline and LogicLibrary, two IBM Business Partners that focus on asset-based development, are working with IBM Rational to advance solutions in asset-based development and component reuse (see sidebars).

**IBM Rational Rose XDE:** Rational Rose and Rational Rose XDE software, leaders in the visual modeling market, provide open APIs to facilitate partner integrations through plug-ins. The combination of these open APIs, strong technical support from partners and a thriving and long-standing ecosystem has spurred partners to develop numerous complementary products. From horizontal tools such as the Flashline Registry and LogicLibrary Logidex integrations with Rational Rose and Rational Rose XDE to the JacZone WayPointer UML modeling tool, the Rational Rose XDE ecosystem is thriving.

LogicLibrary Logidex 3.0 for J2EE features seamless integration with Eclipse, WebSphere Studio Application Developer and Rational Rose XDE, enabling rapid collaboration among key developer tools.

**IBM Rational Unified Process or RUP:** With the introduction of Rational's J2EE process plug-in for RUP in 2001, the RUP ecosystem was born. Following the release of several Rational-developed plug-ins was the launch of the Rational Process Workbench (RPW), designed specifically to facilitate partner plug-ins for RUP. Showing the power of the ecosystem to extend the platform, the introduction of RPW spawned a series of plug-ins and extensions, ranging from the Fair Issacs RUP Plug-in for Business Rules and the Klocworks RUP Plug-in for Existing Software Reuse to Jaczone's incorporation of RUP best practices in its Waypointer UML modeling tool.

**IBM Rational TestStudio:** Rational’s strong market position has spawned strong partner involvement around its test products. Products such as Scapa StressTest are integrated with Rational’s test products to broaden their value. Referring to his company’s partnership with Rational, Scapa CEO Mike Norman says, “We are very excited to be working in partnership with IBM Rational Software, one of the undisputed leaders and intellectual powerhouses of the software tools industry. We have already seen the benefits of integrating our product with IBM Rational Visual Test® software, and with the additional integration of IBM Rational Suite TestStudio® software, we provide a first-class test management framework option for our customers. It also allows them to manage our Citrix testing tool in the same TestStudio they use to manage their existing Rational test tools.”

Codagen Technologies offers model-driven architecture tools to support the development of both J2EE and Microsoft .NET applications. Codagen Architect integrates with Rational Rose XDE to take advantage of the IBM Software Development Platform and its unique capabilities to support both J2EE and .NET development. Using Codagen Architect with XDE increases the level of abstraction of application modeling and architecture, promotes the separation of business logic from implementation and enables developers to concentrate on application logic rather than architectural code.

LogicLibrary's Logidex is a software development asset (SDA) metadata catalog that simplifies the creation, migration and integration of enterprise applications. Logidex provides broad support for the IBM Software Development Platform, including integration with IBM WebSphere Studio, Eclipse, IBM Rational XDE and IBM Rational ClearCase and support for the Reusable Asset Specification (RAS) and the IBM Rational Unified Process (RUP). Logidex, validated as Ready for IBM WebSphere Studio Software, tightly integrates with both WebSphere Studio and Eclipse. The Logidex RAS Plug-in for Rational XDE makes it easy for developers to search, access and use RAS assets and to import them into XDE for their UML-based development activities. The Logidex ClearCase Asset Adapter enables users to quickly and easily incorporate legacy software assets from ClearCase into a Logidex library. Logidex's workflow capabilities allow enterprises to configure approval processes that support adherence to RUP. Logidex's support for the IBM Software Development Platform allows business analysts, architects and developers to easily capture software assets and artifacts and bring them directly into their Eclipse or WebSphere Studio workspace—enabling the reuse of software assets throughout the enterprise and helping customers reduce the time and complexity of their application development and integration projects.

#### **Support for the IBM Business Partner ecosystem**

The IBM PartnerWorld® program provides access to technology, world-class technical support, software development tools, education and co-marketing opportunities for partners that work with IBM technologies.

Serving more than 90,000 IBM Business Partners, the IBM PartnerWorld program provides a core set of benefits to all members plus specialized additions for partners that support certain IBM brands—including Rational, WebSphere, Lotus and DB2—and the IBM Software Development Platform.

***Programs for the IBM Software Development Platform***

Specific activities are designed for partners that extend the IBM Software Development Platform and offer value-added services around the platform. IBM plans continued enhancements to the PartnerWorld program for partners that are focused on the IBM Software Development Platform. For example, the various “Ready for IBM” programs—including “Ready for IBM WebSphere Studio” and “Ready for IBM DB2 Software for Linux”—provide additional targeted support, enablement, marketing and promotion aligned with a specified IBM offering. IBM plans to add a comprehensive validation and certification program for IBM Software Development Platform partners, which will be called the “Ready for IBM Rational Software” program. This program will also provide partners with specific additional support, enablement and marketing benefits.

The developerWorks® Web portal contains technical assistance and educational materials for PartnerWorld members that are writing applications to run on IBM and other platforms. It is rated one of the best developer Web sites by Summit Strategies.

At the end of 2003, approximately 3.5 million developers were registered with developerWorks. In addition, developerWorks was honored with the 2004 Jolt award for best community site at the 2004 SD (Software Development) West conference.

***Moving to a vertical solutions orientation***

IBM PartnerWorld continues to evolve to better serve the needs of IBM's partners and adapt to today's changing business environment. In this on demand world, IBM customers want complete solutions tailored to their industry. As a result, during 2004 IBM is aligning itself to work with software vendors on an industry or vertical-market basis.

New go-to-market and enablement programs and initiatives will help IBM Business Partners better serve on demand opportunities. Likewise, the technical and marketing assistance from PartnerWorld will reflect that orientation. The combination of PartnerWorld's strong support for IBM Business Partners and the value of the IBM Software Development Platform ecosystem will continue to help corporate developers, individual developers and services companies derive value and stay competitive in this on demand world.



© Copyright IBM Corporation 2004

IBM Corporation  
Software Group  
Route 100  
Somers, NY 10589

Produced in the United States of America  
June 2004  
All Rights Reserved

IBM, the IBM logo, the e-business logo, ClearCase, ClearQuest, DB2, DB2 Universal Database, developerWorks, Domino, Domino Designer, e-business on demand, Lotus, Lotus Enterprise Integrator, Lotus Notes, MQSeries, PartnerWorld, Rational, Rational Process Workbench, Rational Rose, Rational Suite, Rational Unified Process, Rational Visual Test, RUP, TestStudio, Tivoli, WebSphere and XDE are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries or both.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc., in the United States, other countries or both.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Linux is a trademark of Linus Torvalds in the United States, other countries or both.

Other company, product and service names may be the trademarks or service marks of others.

References in this publication to IBM products or services do not imply that IBM intends to make them available in all countries in which IBM operates.

All statements regarding IBM future direction or intent are subject to change or withdrawal without notice and represent goals and objectives only. ALL INFORMATION IS PROVIDED ON AN "AS-IS" BASIS, WITHOUT ANY WARRANTY OF ANY KIND.



---

**IBM Project information**

---

<b>Form Number:</b>	G507-1000-00	<b>Title:</b>	The IBM Software Development Platform Partner Ecosystem
<b>Announce date:</b>	00/00/00	<b>IBM Contact:</b>	Leanne Holizta 303-223-4964

---

**Agency information: The TDA Group**

---

<b>Job Number:</b>	G507-1000-00	<b>Contact:</b>	Bob Tabke - 650.948.3140 x.107
<b>File name:</b>	G507-1000-00.indd		
<b>Based on:</b>	none		
<b>Version:</b>	1	<b>Location:</b>	IBM/White Papers/SWG Ecosystem WP
<b>Station:</b>	Amy	<b>Operator:</b>	aev
<b>Trim size:</b>	8.5 x11	<b>Output size:</b>	8.5 x11
<b>Output device:</b>	pdf	<b>Output style:</b>	pdf
<b>Line screen:</b>	72 ppi	<b>Colors:</b>	RGB

**Document fonts:** BBodoni-Medium, BBodoni-MediumItalic, Helvetica, Helvetica-Condensed, Helvetica-Condensed-Bold, Helvetica-Condensed-BoldObl, Helvetica-Condensed-Light, Helvetica-Light, IBMBodoni-Italic, IBMBodoni-Light, IBMBodoni-LightItalic, IBMBodoni-Regular, IBMHelv, IBMHelv-Bold, IBMHelv-BoldOblique, IBMHelv-Cond, IBMHelv-Cond-Bold, IBMHelv-Cond-Light, IBMHelv-Light, IBMHelv-LightOblique, IBMHelv-Oblique

---

**Graphic Data Chart**

---

<b>File Name:</b>	<b>Page #</b>	<b>File Type:</b>	<b>Usage rights</b>	<b>Photographer</b>	<b>Stock House</b>
ibmpos.eps	3	IBM owned	All		
Ecosys_fig1.eps	9	TDA created	All	illustration	
EclipseBannerPic.tif	8	IBM provided	All	logo	
SDP_Graphic.eps	12	TDA created	All	illustration	
WebSphere.eps	15	IBM provided	All	logo	