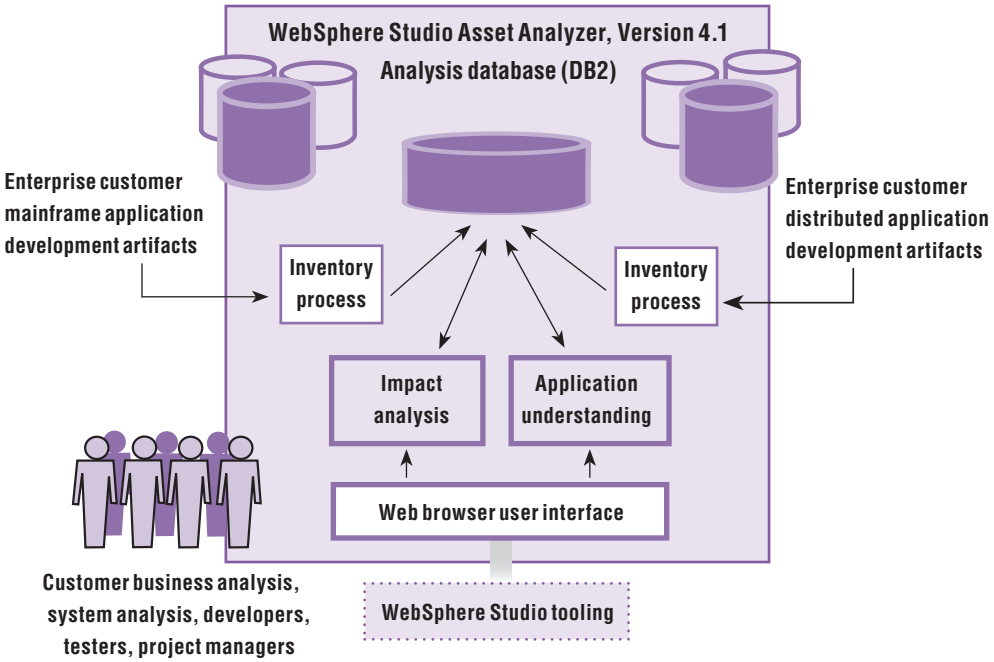
WebSphere® software

IBM WebSphere Studio Asset Analyzer for Multiplatforms, Version 4.1

Highlights

- ***Increases developer and analyst productivity by automating the discovery phase of a development cycle***
- ***Helps reduce the complexity of software projects by delivering up-to-date knowledge of application components from the code itself***
- ***Improves process and team efficiency by making the same application insight available to all team members***
- ***Helps shorten the learning curve for new developers***
- ***Helps developers better understand application dependencies on a variety of levels***
- ***Minimizes risk in application maintenance by enabling a more thorough analysis of proposed changes***
- ***Helps find existing application assets which are, or could be, components to be reused in Web or Web-services applications***
- ***Provides a scalable, enterprise-wide repository of mainframe and distributed application insight***
- ***Enables integration with other tools through its open architecture***



WebSphere Studio Asset Analyzer, Version 4.1 helps you maintain, extend and transform existing applications.

Existing applications are an IT organization's biggest asset, and maintaining them consumes a large portion of the typical IT budget. To maximize business efficiencies, you need to find new ways to increase maintenance productivity and reduce costs. You also need to devote a greater portion of your IT budget to projects that add new business value. By doing this, you can respond with more flexibility to changing markets and IT requirements—and enable existing applications to integrate with Web services and a service-oriented architecture (SOA).

IBM WebSphere® Studio Asset Analyzer for Multiplatforms, Version 4.1 helps you maintain, extend and transform existing applications through rapid application understanding, impact analysis and assistance with building connectors. You can modernize your existing enterprise assets by using the knowledge provided by WebSphere Studio Asset Analyzer. For IBM @server® zSeries® and distributed environments, the product provides information about finding and reusing application code and the components that connect that code. For your Java™ 2 Platform, Enterprise Edition (J2EE) environment, WebSphere Studio Asset Analyzer can help you understand the code that is running in your run-time environments. With WebSphere Studio Asset Analyzer, you can build and deploy applications that include mainframe and distributed components. And the product can grow with your business to become an integral repository for insight about business-critical application assets.

Designed to meet your business needs

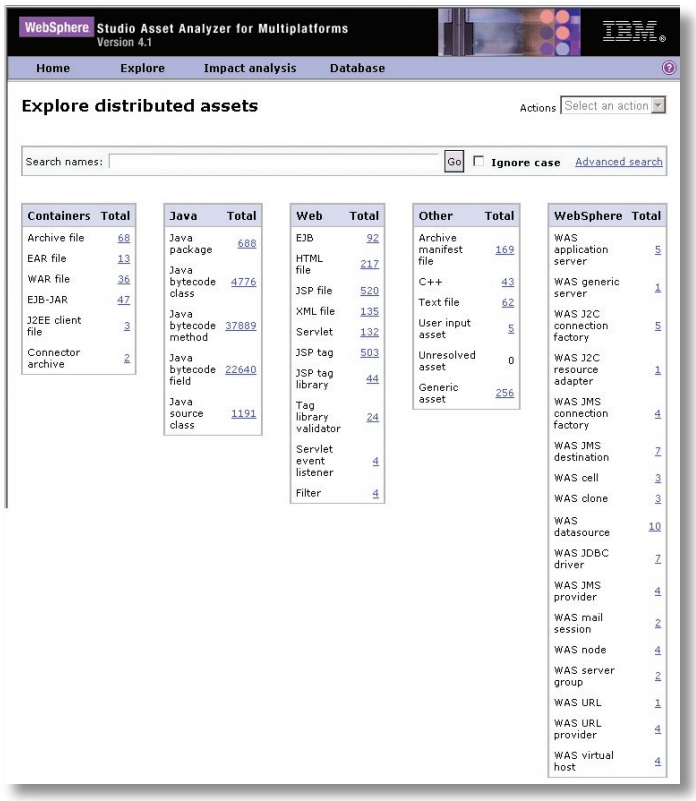
WebSphere Studio Asset Analyzer consists of the following components:

- *Source scanners running on IBM z/OS®, IBM AIX® or Microsoft® Windows® systems*
- *Java scanners running on AIX or Windows systems*
- *An application metadata repository in IBM DB2® on z/OS systems*
- *Web applications running on z/OS, AIX or Windows systems*

The product's open architecture offers:

- *Interactive access to WebSphere Studio Asset Analyzer application insight through a Web browser.*
- *Programmatic access through either direct Structured Query Language (SQL) queries or a Web-services application programming interface (API).*
- *The option to write your own scanner for your unique source components and import application metadata into WebSphere Studio Asset Analyzer.*

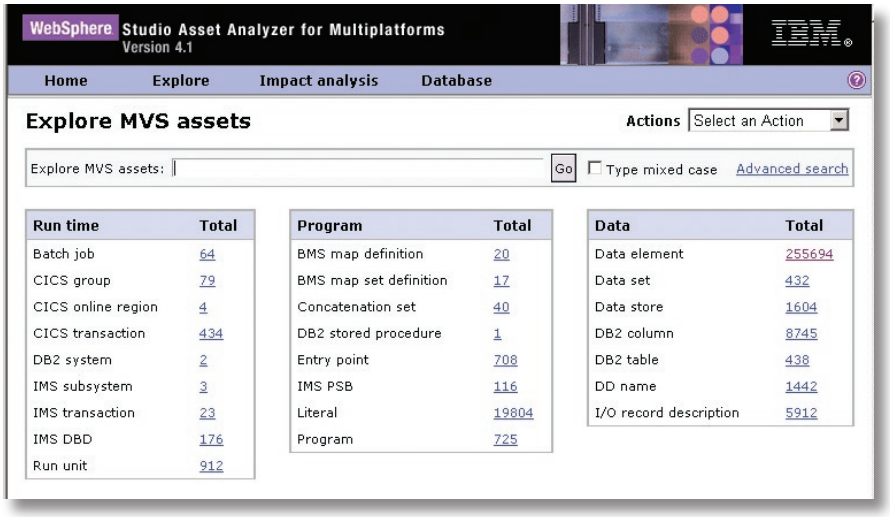
WebSphere Studio Asset Analyzer scans mainframe and distributed software assets, storing related application information in a DB2 repository that resides on the mainframe.



WebSphere Studio Asset Analyzer enables you to discover and explore many types of distributed application assets.

You do not have to download your zSeries application inventory to a workstation, nor do you have to upload your distributed application inventory to a mainframe. WebSphere Studio Asset Analyzer scans the source where it resides, whether in partitioned data sets (PDS) or partitioned data sets extended (PDSE) on the mainframe, directories on Windows or AIX systems, or in one of a number of source configuration management (SCM) systems.

For distributed assets, WebSphere Studio Asset Analyzer supports scanning from IBM Rational® ClearCase® software, IBM Configuration Management Version Control (CMVC), code version system (CVS) and Merant PVCS. For mainframe assets, Serena ChangeMan ZMF and SCLM are supported. Other SCM systems are supported through a user exit that calls a program you supply, which then calls the SCM system (which requires some programming). Web applications can be scanned from an IBM WebSphere Application Server instance running either Windows or AIX operating systems.



WebSphere Studio Asset Analyzer enables you to discover and explore many types of MVS application assets.

Scan applications more effectively

WebSphere Studio Asset Analyzer, Version 4.1 provides enhancements designed to help improve the product's already robust scanning capabilities. With this release, you can use IBM Enterprise COBOL, Version 3.3 and IBM Enterprise PL/I, Version 3.3 compilers when scanning source code for WebSphere Studio Asset Analyzer—helping to make scanning exactly consistent with the compilers. And by identifying syntax- and semantic-related issues that could hinder your progress, WebSphere Studio Asset Analyzer helps simplify the task of migrating to the latest levels of the compilers. If you have older COBOL or PL/I source code, the WebSphere Studio Asset Analyzer internal language scanners remain available for your use.

Other enhancements to scanning capabilities include:

- *Expanded COBOL and PL/I support, including SQL CALL and SQL CREATE PROCEDURE statements and DB2 syntax introduced in IBM DB2® Universal Database™, Version 8.*
- *The ability to identify PL/I-controlled variables and file declarations, which makes it easier to migrate PL/I application source code to the latest enterprise version of PL/I compiler.*
- *Updated distributed-artifact support, which enables WebSphere Studio Asset Analyzer, Version 4.1 to scan IBM WebSphere Application Server, Version 5 and Version 5.1 run-time environments. This capability helps developers understand the topology and application structure of running Web applications. J2EE, Version 1.3 artifacts are also supported.*

Increase productivity

A number of enhancements have been made to WebSphere Studio Asset Analyzer, Version 4.1 that were designed to improve productivity. Custom queries enable you to create, name, save and rerun your own SQL queries to more easily mine WebSphere Studio Asset Analyzer metadata to meet your unique information requirements. Results of these queries appear as detail pages that you can easily return to without having to go through the normal search and navigation process. Bookmark capabilities make it easy to retrieve preconfigured summary and detail pages provided by WebSphere Studio Asset Analyzer. Bookmarking also helps simplify the task of returning to pages with search results you designate as important in your daily work.

You can now use distributed artifacts as the starting point (seed) of an impact analysis, enabling you to determine the impact of changes to assets, such as Java packages, JavaServer Pages (JSPs) and data sources, as well as many other distributed asset types.

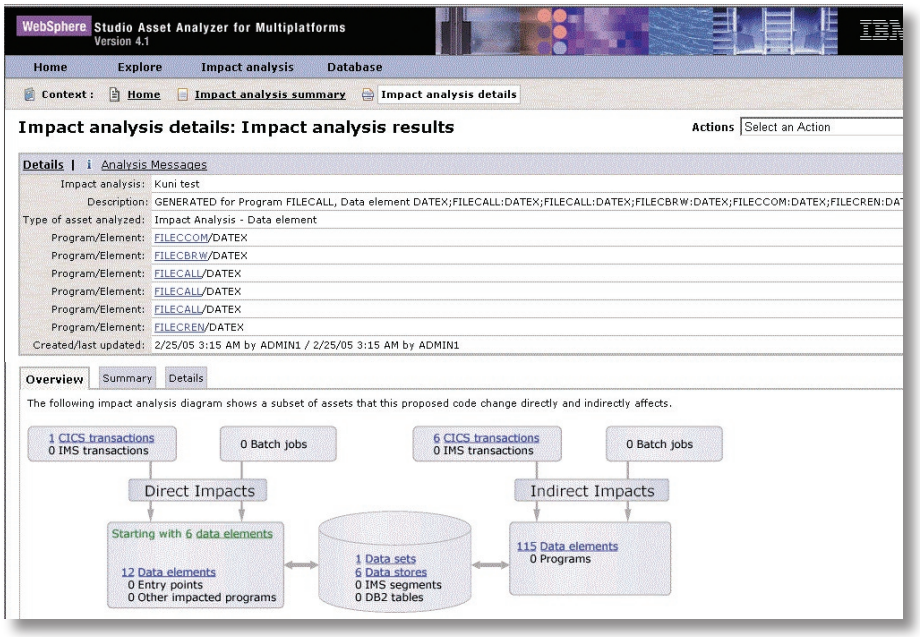
The more flexible impact-analysis user interface enables users to interact more directly in the analysis process.

- *A wizard-driven interface that you can use to create impact analyses.*
- *The ability to indicate the scope of analysis, such as analysis only within programs or across program boundaries, by specifying a level for analysis.*
- *More informational messages to indicate status when creating and performing analyses.*
- *Tabbed output on the impact-analysis details page, enabling you to move quickly among summary, detailed and graphical views of the results of an impact analysis.*

New options for viewing data elements enable you to see only the data elements of interest for your particular task at hand (top-level only, used, or used and declared). WebSphere Studio Asset Analyzer also simplifies installation and configuration by no longer requiring the IBM Net.Data® prerequisite, without sacrificing product function.

Leverage your application insight by integrating other tools

WebSphere Studio Asset Analyzer, Version 4.1 provides a Web-services interface that externalizes much of its application insight and makes this insight accessible to other commercial or homegrown tools. For example,



WebSphere Studio Asset Analyzer enables you to determine how proposed changes directly and indirectly impact applications throughout your enterprise.

IBM Asset Transformation Workbench uses this interface to initiate an impact analysis in WebSphere Studio Asset Analyzer and retrieve the results of this analysis. WebSphere Studio Asset Analyzer can pass a list of all application components and their locations in your source-code management system to the IBM Asset Transformation Workbench for download and further analysis in the Asset Transformation Workbench.

The Flashline Registry also uses this Web-services interface to populate its registry with the applications and components you designate. Together, WebSphere Studio Asset Analyzer and Flashline Registry promote application reuse and better IT governance by making mainframe and distributed application assets and their interdependencies visible to development teams and IT managers.

Take advantage of expanded platform support

Adding to the existing z/OS and Windows support, this release of WebSphere Studio Asset Analyzer includes support for IBM @server pSeries® on AIX, both for scanning application assets and as a deployment platform for WebSphere Studio Asset Analyzer Web-based applications.

Automate the discovery phase of the development cycle to help maximize productivity

The analysis phase of an application's development cycle can consume as much as one-third of total development costs. WebSphere Studio Asset Analyzer helps lessen these costs by increasing developer and analyst productivity through automating the discovery phase of a development cycle. With WebSphere Studio Asset Analyzer, you can help reduce the complexity of software projects by providing access to up-to-date knowledge of all application components from the source code — and supplementing outdated or nonexistent developer and analyst documentation.

WebSphere Studio Asset Analyzer helps improve process and team efficiency by making the same application insight available to all team members. It also fosters team understanding and helps improve communication through customized annotated metadata.

WebSphere Studio Asset Analyzer can enhance productivity by helping to shorten the learning phase for new developers, and by helping developers comprehend application dependencies at multiple levels, including:

- *Jobs and transactions*
- *Files and databases*
- *Programs and applications*
- *Programming languages, such as COBOL, PL/I, Assembler, C, C++, Java and various distributed text formats, including HTML and XML*
- *Systems, such as IBM CICS®, IBM IMS™, WebSphere Application Server, IBM WebSphere MQ and DB2*
- *Platforms, such as on z/OS, pSeries, AIX and Windows systems*

With WebSphere Studio Asset Analyzer, you can reduce the risk involved in routine application maintenance and operational changes by providing a more thorough analysis of proposed changes. You can verify that you have all the source components for an application — at your main work site or at your disaster-recovery site.

Putting knowledge to work

WebSphere Studio Asset Analyzer can help you understand your core business applications and extend these applications into your on demand operating environment. As you gain a greater understanding of your applications, you can start the change process efficiently—while minimizing the risk to your current business operations.

Combine WebSphere Studio Asset Analyzer with other IBM products to maximize business value.

- *IBM WebSphere Studio Enterprise Developer offers a single integrated development environment (IDE) to help you develop and maintain a new generation of COBOL, Java and Web-services applications.*
- *IBM CICS Interdependency Analyzer provides a detailed understanding of your CICS application inventory through run-time analysis of CICS systems.*
- *IBM Asset Transformation Workbench simplifies and accelerates large mainframe application-transformation projects.*

For more information

To learn more about IBM WebSphere Studio Asset Analyzer, Version 4.1, contact your IBM representative or IBM Business Partner, or visit:

ibm.com/software/awdtools/wsaa/

IBM WebSphere Studio Asset Analyzer, Version 4.1 at a glance

Hardware requirements

- Any hardware configuration supported by the licensed programs specified below

Software requirements

Run-time requirements

One of the following:

- z/OS, Version 1.1 or later
- IBM OS/390®, Version 2.10 or later

One of the following:

- IBM DB2 Universal Database for z/OS and OS/390, Version 7, Service Level UQ82348 or later
- IBM DB2 Universal Database for z/OS, Version 8 or later

Note: *RUNSTAT in IBM DB2 Utilities Suite for z/OS, Version 7.01 or later is required to tune WebSphere Studio Asset Analyzer repository performance.*

One of the following:

- IBM WebSphere Application Server for z/OS and OS/390, Version 4, Service Level W401605 or later, installed on the host with WebSphere Studio Asset Analyzer
- IBM WebSphere Application Server for z/OS, Version 5.1, Service Level W510004 or later, installed on the host with WebSphere Studio Asset Analyzer
- IBM WebSphere Application Server Advanced Edition, Version 4.0.3 or later, installed on a server or workstation running Microsoft Windows XP Professional with Service Pack (SP) 1 or later; Microsoft Windows 2000; or Microsoft Windows NT®, Version 4 with SP4 or later
- IBM WebSphere Application Server Enterprise, Version 5.1 or later, installed on a server or workstation running IBM AIX, Version 5.2; Windows XP Professional with SP1 or later; Windows 2000; or Windows NT, Version 4 with SP4 or later

To access WebSphere Studio Asset Analyzer from a client workstation:

- Microsoft Internet Explorer, Version 5.5 or later

Note: WebSphere Studio Asset Analyzer uses Adobe technology to render graphics in Scalable Vector Graphic (SVG) format. At the time of this publication, the Adobe Web browser plug-in for SVG exists in its most robust form only for Internet Explorer.

To access WebSphere Studio Asset Analyzer programmatically:

- WebSphere Application Server, Version 5.1, if using the WebSphere Studio Asset Analyzer Web services API framework that is new in Version 4.1
- Any DB2 client or other method of issuing SQL commands against the WebSphere Studio Asset Analyzer repository in DB2

Scanning requirements

If you plan to scan DB2 catalog information, any of the following:

- DB2 Universal Database for z/OS and OS/390, Version 7 or later
- DB2 Universal Database for z/OS, Version 8 or later

If you plan to scan WebSphere applications, any of the following:

- WebSphere Application Server Advanced Edition, Version 4.0.3 or later, installed on a server or workstation running AIX, Version 5.2; or running Windows XP Professional with SP1 or later, Windows 2000, or Windows NT, Version 4 with SP4 or later
- WebSphere Application Server, Version 5.1 or later, installed on a server or workstation running AIX, Version 5.2; or running Windows XP Professional with SP1 or later, Windows 2000, or Windows NT, Version 4 with SP4 or later

If you plan to use the IMS support in WebSphere Studio Asset Analyzer:

- IBM IMS/ESA® Database Manager, Version 5 or later
- IBM IMS/ESA Transaction Manager, Version 5 or later

One of the following:

- IBM IMS Library Integrity Utilities for z/OS, Version 1 or later
- IBM IMS Library Management Utilities for OS/390, Version 1 or later

If you plan to use the CICS support in WebSphere Studio Asset Analyzer:

- IBM CICS Transaction Server, Version 1.3 or later

To scan distributed assets and to view related source code within WebSphere Studio Asset Analyzer, one of each of the following products must be installed on an AIX or Windows server or workstation:

- WebSphere Application Server Advanced Edition, Version 4.0.3 or later
- WebSphere Application Server Enterprise, Version 5.1
- IBM DB2 Connect™ Enterprise Edition, Version 7.02
- DB2 Connect Enterprise Edition, Version 8.01 with Fix Pack (FP) 6
- Java Runtime Environment (JRE), Version 1.3.1 or Version 1.4

If you plan to use the COBOL and/or PL/I compiler-based scanning support that is new in WebSphere Studio Asset Analyzer, Version 4.1:

- IBM Enterprise COBOL for z/OS, Version 3.3 with Service Level UQ97019
- IBM Enterprise PL/I for z/OS, Version 3.3

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