



IBM Software Group

WebSphere® Process Server V6

WebSphere® Integration Developer V6

Administrative Overview



@business on demand.

© 2005 IBM Corporation
Updated November 10, 2005

This presentation will focus on the administrative features of WebSphere Process Server and WebSphere Integration Developer V6.0.

Goals

- Explain the architecture for administrating WebSphere Process Server
- Understand the different locations for administrating WebSphere Process Server in the Administrative Console

The goals of this presentation are to cover the administrative model of WebSphere Process Server and to provide a brief look at the different features and resources available through the Administrative console.

Agenda

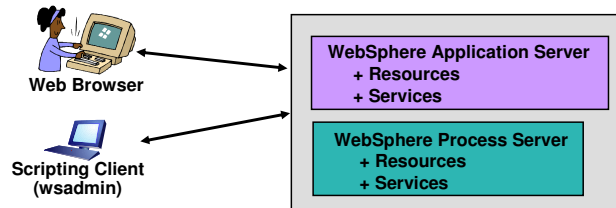
- **Administrative Overview**
- Summary



This section will provide an overview of administrative capabilities.

WebSphere Process Server Administration

- Similar administration model and tools as with WebSphere Application Server®
 - ▶ Extended to support administration of WebSphere Process Server resources and services
- Web browser based Administrative Console
 - ▶ Administrative console is a standard Java™ 2 Enterprise Edition (J2EE) Web application available at <http://localhost:9060/ibm/console>
 - Server must be active to use the console
- Command line tool wsadmin
 - ▶ Additional types and attributes for WebSphere Process Server



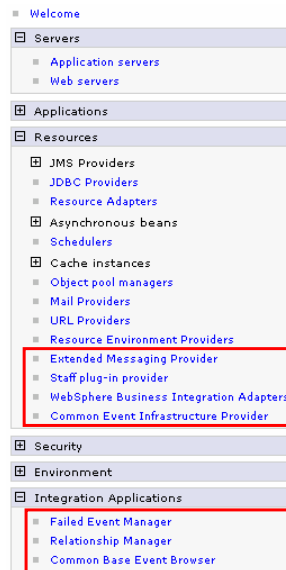
Since WebSphere Process Server V6.0 is built on top of WebSphere Application Server V6.0, it utilizes the same administrative model. The administrative console is the primary means of managing resources, services, and applications installed in the environment. Wsadmin can also be used from the command line to manage the server. Both of these interfaces can also be used to manage WebSphere Process Server resources, allowing you to apply WebSphere Application Server administration skills directly to managing WebSphere Process Server.

The screenshot displays the IBM Administrative Console interface. At the top, it shows the IBM Software Group logo and the title 'Areas for Administration'. The left-hand navigation pane is organized into several categories: Servers, Applications, Runtime, Security, Environment, and Integration Applications. The 'Integration Applications' category is highlighted with a red box, containing 'Failed Event Manager', 'Relationship Manager', and 'Common Base Event Browser'. The main content area shows the configuration for 'Application servers > server1'. It includes a 'General Properties' section with fields for Name (server1), Run in development mode, and Parallel start. The 'Container Settings' section is also visible, with 'Business process container settings' and 'Human task container settings' highlighted by red boxes. Below this, the 'Business Integration' section lists various services like Application Scheduler, Business rules, Events service, etc. The bottom of the page features a colorful bar and the text 'Administrative Overview' and '© 2005 IBM Corporation'.

The main areas in the Administrative Console where WebSphere Process Server resources and services can be administered are shown here. There are other areas in the Administrative Console where WebSphere Process Server items are administered, however these are minor. The resources section has been extended to include resources specific for integration applications running on WebSphere Process Server. There is also a section called Integration Applications, which are system applications provided with the product for working with specific areas of service components. There are also specific settings within each server definition for integration applications running on WebSphere Process Server and a couple of options under container settings. In addition, there is a business integration section where you can configure additional services used by integration applications.

Resources and Integration Applications

- Definitions for resources used with services and by applications
- Services must be enabled for full functionality with resources
- Most resource definitions include JNDI name value
- Additional application management capabilities available with Integration Applications



Resources used by integration applications can be managed under the resources section of the administrative console. The extended messaging provider is a feature that was available with WebSphere Business Integration Server Foundation V5.1, and although it has been deprecated in WebSphere Process Server V6.0, it is still available. If you use the human tasks feature, you must configure the staff plug-in providers provided for you by default, especially if you will be using an LDAP registry for assigning work items. If you use WebSphere Business Integration Adapters, you can view the state and manage these from this location as well. Finally, the common event infrastructure provider can be configured for message destinations that event consumers can bind to and receive messages from. Under the Integration Application section, there are some additional capabilities to work with artifacts and the results of your integration applications, including the Relationship Manager and the Failed Event Manager. With the integration of these three applications in the console, access to them can be restricted once you enable security in your environment.

Container and Business Integration Settings

Application servers

Application servers

- Setup Business Process Container and Human Task (Manager) Container on server
 - ▶ Other setup options available
 - ▶ Some configuration on actual applications still required
- Replay pending messages to retry execution of business processes and human tasks
 - ▶ Refresh Staff Query
- Business Integration services can be enabled\disabled
 - ▶ Specific to server
- Business Rules and Selectors viewed and available for download

h provides services required to run enterprise applications.

Container Settings

- Web Container Settings
- EJB Container Settings
- Business process container settings
- Human task container settings
- Container Services
- Business Process Services

Business Integration

- [Application Scheduler](#)
- [Business rules](#)
- [Events service](#)
- [Extended Messaging Service](#)
- [Selectors](#)
- [Staff service](#)
- [WebSphere Business Integration Adapter Service](#)
- [Web service reference service](#)



Administrative Overview

© 2005 IBM Corporation

7

The other two areas on the console where integration applications can be administered are shown here. Under each server there is a container settings section which has areas where you can configure the business process container or the human tasks container for production. This section can also be used to install these features using the Web interface if the option to configure process choreography was not selected at profile creation time and you are planning to run business processes or human tasks in a production environment. You will be prompted to supply the type of data source to create, messaging resources, and security aliases to be used for accessing these resources. For either the business process or human tasks container set up, a database is required, which must be created and configured outside the Administrative console. For human tasks, there is the ability to refresh the staff queries to pick up any changes to the user registry and update the existing work items. This can be very resource intensive if there have been a lot of organizational changes or if there a lot of outstanding work items. The Business Integration section provides links that allow you to configure a variety of services and perform other operations. The Business Rules and Selector links allow you to access items that you have updated and bring them back into the WebSphere Integration Developer tool environment. The staff service, extended messaging service and events service links allow you to disable these capabilities with a single click. If for instance, you are not using human tasks, it could be beneficial to disable the staff service in order to free up resources on the system.

Agenda

- Administrative Overview
- **Summary**



This section will provide a summary of this presentation.

Summary

- Administration model for WebSphere Process Server is identical to WebSphere Application Server
- Web browser based administration through the Administrative console
- Command line administration through wsadmin
- Features, services and resources grouped for easy administration in the Administrative console

The key point of this presentation is that WebSphere Process Server is built upon WebSphere Application Server and therefore provides a very similar administrative model for managing resources and services, as well as applications running on the process server. Administrative tools include the Administrative console, wsadmin, and ANT scripts and tasks. For administration through the Administrative console, you will find features, services, and resources grouped logically together for easy location and modification.

Trademarks, Copyrights, and Disclaimers

The following terms are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both:

IBM	CICS	IMS	MQSeries	Tivoli
IBM (logo)	Cloudscape	Informix	OS/390	WebSphere
e-business	DB2	iSeries	OS/400	xSeries
ALX	DB2 Universal Database	Lotus	pSeries	zSeries

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

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

Intel, ActionMedia, LANDesk, MMX, Pentium and ProShare are trademarks of Intel 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 registered trademark of Linus Torvalds.

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

Product data has been reviewed for accuracy as of the date of initial publication. Product data is subject to change without notice. This document could include technical inaccuracies or typographical errors. IBM may make improvements and/or changes in the product(s) and/or program(s) described herein at any time without notice. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. References in this document to IBM products, programs, or services does not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM Program Product in this document is not intended to state or imply that only that program product may be used. Any functionally equivalent program, that does not infringe IBM's intellectual property rights, may be used instead.

Information is provided "AS IS" without warranty of any kind. THE INFORMATION PROVIDED IN THIS DOCUMENT IS DISTRIBUTED "AS IS" WITHOUT ANY WARRANTY, EITHER EXPRESS OR IMPLIED. IBM EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. IBM shall have no responsibility to update this information. IBM products are warranted, if at all, according to the terms and conditions of the agreements (e.g., IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided. Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products in connection with this publication and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. IBM makes no representations or warranties, express or implied, regarding non-IBM products and services.

The provision of the information contained herein is not intended to, and does not, grant any right or license under any IBM patents or copyrights. Inquiries regarding patent or copyright licenses should be made, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

© Copyright International Business Machines Corporation 2005. All rights reserved.

Note to U.S. Government Users - Documentation related to restricted rights-Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract and IBM Corp.