

ActiveBPEL™ 3.0 Server Capabilities Matrix

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ActiveBPEL Server v3.0 Capabilities

Capability	ActiveBPEL Engine	ActiveBPEL Enterprise for .NET, Tomcat	ActiveBPEL Enterprise J2EE and .NET
WS-BPEL 1.1 and 2.0 process execution	✓	✓	✓
Static BPEL analysis	✓	✓	✓
Process persistence (dehydration/hydration)	✓	✓	✓
Browser-based management consoles	✓	✓	✓
Web services event/debug/admin APIs	✓	✓	✓
Service invocation policies (WS-Policy)	✓	✓	✓
Diagram-based debugging/diagnostics	✓	✓	✓
Multiple Expression languages (XPath, XQuery, JavaScript, custom)	✓	✓	✓
Security (WS-Security)		✓	✓
Process versioning		✓	✓
Enhanced process deployment & invocation		✓	✓
Advanced process filtering and alerts		✓	✓
Suspend/Retry processes (API & console)		✓	✓
Guaranteed message delivery (WS-Reliable Messaging)		✓	✓
Multi-level load balancing			✓
Server fault-tolerance			✓
Typical deployment uses	process design & test	small footprint, workgroup	workgroup, enterprise
Deployment platforms	Standalone	Standalone (Apache Tomcat, .NET)	J2EE (JBoss, WebSphere, WebLogic) .NET
Licensing and support	Open source – GPL (subscription support)	Commercial (license & subscription)	Commercial (license & subscription)

ActiveBPEL Server v3.0 Benefits

Capability	User Benefits
WS-BPEL 1.1 and 2.0 process execution	Ensures interoperability and investment protection in a multi-vendor environment.
Static BPEL analysis	Saves development/test/debug time and eliminates many runtime errors.
Process persistence (dehydration/hydration)	Insulates long-running processes from server crashes and environmental problems.
Browser-based management consoles	Provides location-independent administration for active and historical BPEL processes.
Web services event/debug/admin APIs	Provides an open architecture for users who need to customize their environments.
Service invocation policies (WS-Policy)	Allows administrators to define and enforce QoS and security policies, ensuring that BPEL processes behave in a manner that is consistent with business practices.
Diagram-based debugging/diagnostics	Allows developers and administrators to visually pinpoint and resolve production problems.
Multiple Expression languages (XPath, XQuery, JavaScript, custom)	Provides freedom of choice for developers who need to script advanced operations such as complex message mapping, transformation, and custom functions.
Security (WS-Security)	Provides standards-based encryption and authentication to ensure that BPEL solutions are secure to the highest levels within your SOA and Web Services infrastructure
Process versioning	Allows revised processes to be deployed without interrupting in-flight process instances.
Enhanced process deployment & invocation	Allows SOA developers to programmatically interact with BPEL processes using a variety of popular invocation strategies including SOAP/HTTP, POJO, EJB and JMS, MSMQ
Advanced process filtering and alerts	Provides administrators and business analysts with advanced tools for scanning in-flight processes (e.g., "show me all Order processes with a value over \$100").
Suspend/Retry processes (API & console)	Streamlines operations by giving developers and administrators tools to rapidly troubleshoot, fix and restart processes that are stuck in a faulted state.
Guaranteed message delivery (WS-Reliable Messaging)	Permits process to set the policy for guaranteed message delivery between partner services and process (and vice versa)
Multi-level load balancing	Combines the capabilities of application server load balancing technologies with intelligent dispatching to ensure smooth scaling of BPEL processing loads as usage increases.
Server fault-tolerance	Leverages the CPU clustering and failover capabilities of application servers to ensure the highest possible levels of reliability and operational management.
Deployment Platforms	Allows scalable and heterogeneous deployment scenarios from single CPU Windows up to massive WebSphere infrastructure running on Z/OS
Licensing & support	Free to develop, scalable costs for deployment – support available over whole product range

Questions?

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