

AquaLogic BPM 6.0: New Features Overview



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Introduction

BEA AquaLogic BPM Suite

AquaLogic BPM (ALBPM) is the market-leading business process management platform. ALBPM provides an integrated collection of software to support the modeling, implementation, execution and monitoring of end-to-end business processes, helping company's continuously optimize their entire business process lifecycle. AquaLogic BPM Suite uniquely marries capabilities that support the ad hoc, collaborative activities of people, with rich integration and orchestration technologies, providing a single platform to cover the complete range of human and system business process challenges. While many BPM suites are optimized for a single audience – either IT or business users – BEA is the only company with a proven solution that fully supports both groups on their quest for process excellence.

Introducing BEA AquaLogic BPM Suite 6.0

Drives Better Business Decisions, Improves IT Flexibility

The July 2007 release of AquaLogic BPM Suite 6.0 boasts a broad range of new capabilities optimized for the largest, most complex enterprises, while continuing to offer powerful, intuitive tools for both IT and business.

More Business Value

Early adoption of BPMS and the measurement of real value has only increased the business' appetite for more. ALBPM 6.0 increases its effectiveness as a business-driven system by helping the business become:

- **More Collaborative: Intuitive Process Participation**
AquaLogic BPM 6.0 enables business users to work on process tasks within their context of choice: enterprise portals, process-oriented applications built using BEA AquaLogic Pages, RSS-based readers, email clients, Microsoft Outlook, and more.
- **More Intelligent: Smarter Decisions Based on Activity Analysis**
Many processes involve decision points where certain guidelines are in place, but where the final decision must be carefully considered by a human. ALBPM 6.0 lets organizations learn from past decisions by capturing actions, offering guidance based on

results and allowing advanced simulation testing. As data becomes statistically significant, it can lead to tighter parameters or activity automation.

- **More Dynamic: Define and Change Business Rules with Ease**

Any well-mapped process contains a number of implicit or explicit business rules that define how processes should run. In ALBPM 6.0, business participants can define these rules through the web and change business rules on-the-fly. This saves costly downtime and allows the business to respond even faster than processes change in the ERP paradigm.

More Support for IT

As more companies move from department-only process projects to strategic, enterprise-wide BPMS adoption, a scalable process management platform becomes critical. ALBPM 6.0 improves upon its position as a broad BPM foundation in the following ways:

- **More Control. Less Risk: Enhanced Process Testing and Simulation**

ALBPM 6.0 offers expanded options capabilities for end-to-end process testing, allowing developers to quickly identify issues before processes are put into production. Additionally, production BPM data can also be loaded into the process simulation engine, offering near real-time evaluation of processes and an opportunity to slightly modify as-is processes instantaneously. Changing processes can thus be as fluid and adaptable as the business they support.

- **More Scalable: Industry-leading SOA integration**

ALBPM features pre-built integration with AquaLogic Service Bus to optimize the management and governance of processes, and the discovery of usable service-oriented assets. When complemented by existing integration with AquaLogic Service Registry, this yields some of the strongest SOA support in the industry.

- **More Flexible: Most Comprehensive Standards Support**

ALBPM 6.0 builds on its history of offering the broadest support for industry standards, and is the only product that supports BPMN 1.0, XPD 2.0, UDDI 3.0, BPEL 2.0 and WS-Security in one unified engine. Additionally, all tooling available for ALBPM is based on Eclipse, the industry's most popular framework for

developer tooling. This unprecedented level of standards support allows developers to fully leverage existing skill sets, incorporate standards best practices, and easily transfer process models between different modeling and execution environments.

- **More Manageable: Improved Usability and Configuration**
ALBPM 6.0 simplifies the configuration experience for deploying process applications, reducing the overall time and effort it takes to deploy applications. Additionally, ALBPM 6.0 improves the usability of the modeling and process design experiences, helping process developers create and deploy process applications faster.

Feature Overview

More Collaborative: Intuitive Process Participation

Process-enable your tool of choice.

An updated user experience framework within ALBPM 6.0 called WorkSpace Extensions provides support for a variety of end-user experiences, helping participants engage in process activities through a number of different mediums, including enterprise portals, stand-alone process workspaces, email clients and RSS readers.

The updated framework provides support for BEA WebLogic Portal and BEA AquaLogic Interaction, as well as a set of pre-built, customizable portlets based on the Java Server Faces (JSF) standard, which can be deployed other Java-based portals.

Figure one shows a typical user's process inbox displayed in the process workspace.

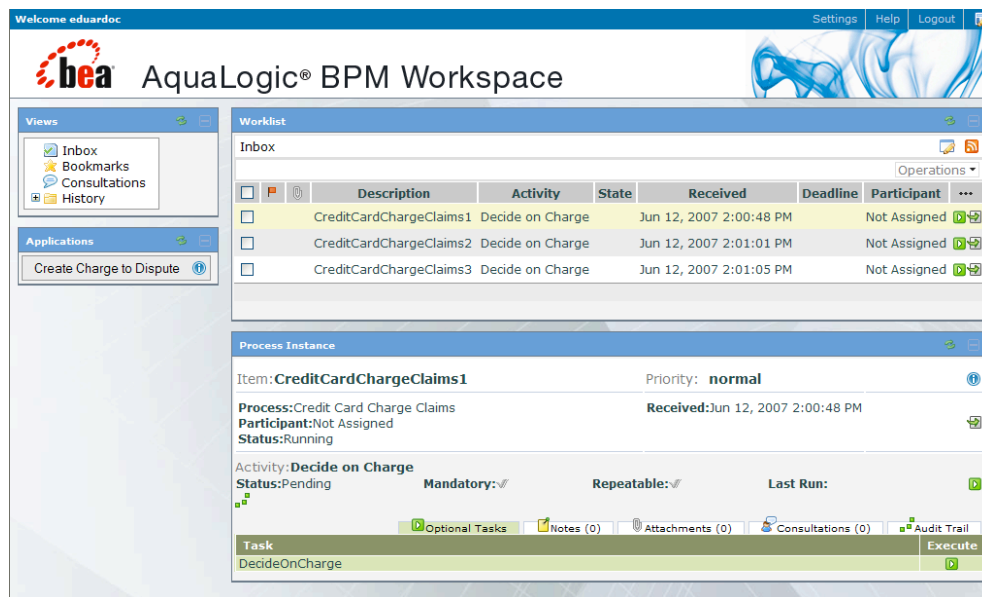


Figure 1 -- JSF WorkSpace: Build once, deploy everywhere.

This approach features an important benefit for IT administrators: Build once, deploy everywhere. The result is higher participation and adoption of process applications, simplified maintenance, lower training costs, and greater return on investment.

Advanced collaborative BPM with AquaLogic User Interaction

AquaLogic BPM Collaboration Edition (ALBPM CE) combines the capabilities of BPM, Portal and Collaboration into a single, integrated software platform. This combination helps business users work more effectively and allows developers to create richer, more sophisticated process applications. Projects deployed in ALBPM CE are wired for today's collaborative work style: processes are tied to email threads, discussion forums, expertise locators, wikis, blogs, and more.

Version 6.0 of AquaLogic BPM Collaboration Edition comes pre-loaded with the capabilities to tie people, process, documents and collaborative activities together. Two simple help illustrate the benefits of ALBPM CE:

- Online documentation can significantly improve user uptake, reduce training costs, improve process performance, and yield more predictable outcomes of processes. ALBPM CE allows process developers and owners to insert online help and documentation into any step in a process. Business users and IT developers can iterate quickly and collaboratively on this documentation: if one member makes an unwarranted change, another member can revert back to a previous version.
- The customizable WorkSpace in AquaLogic User Interaction, as seen in Figure 2, allows process items in a participants inbox to be directly associated with the relevant documents, discussion items, email threads, and activities related to that process instance. If a sales manager is provided with a contract for approval, he can view the contract, make changes, and send it on to the next step all within the same interface.

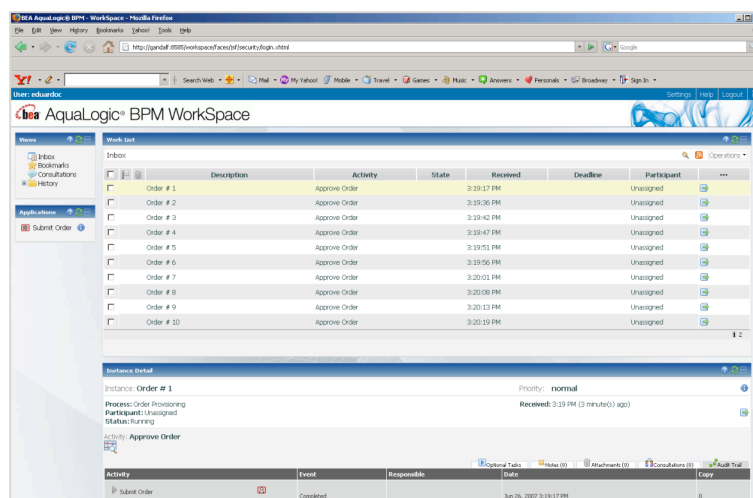


Figure 2 – Wired for today's work: AquaLogic BPM Collaboration Edition

Integration to WebLogic Portal

AquaLogic BPM 6.0 WorkSpace Extensions provide integration to BEA WebLogic Portal (WLP), yielding a rich process portal that assembles participant activities into a WLP-enabled process workspace. Users within WLP-powered portals enjoy a rich and powerful interactive process participant experience.

Figure 3 shows an example of process participant activities surfaced through WebLogic Portal.

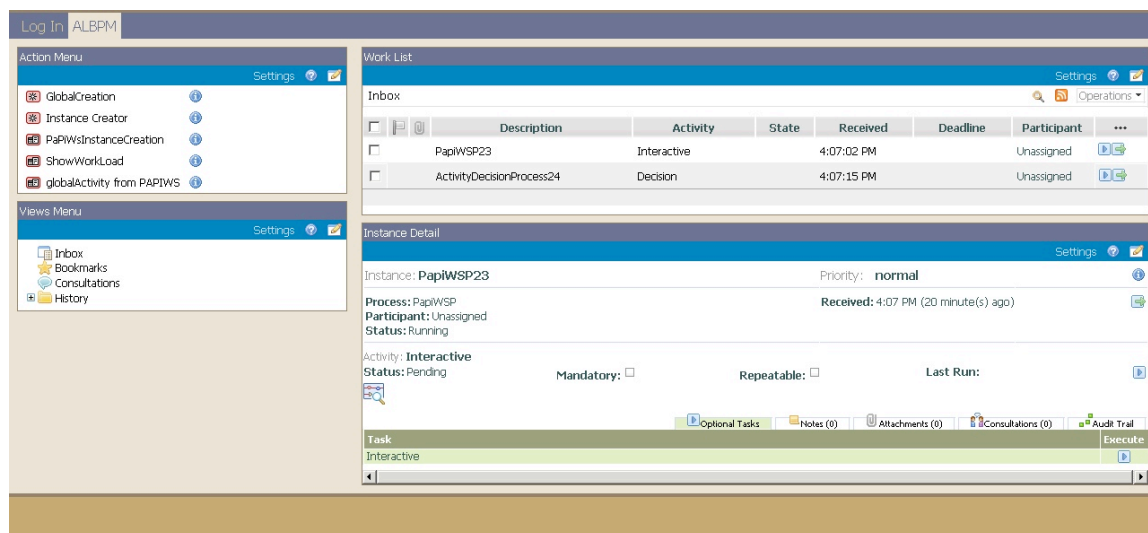


Figure 3 – Work list, Actions Menu, Views Menu and Incident Detail displayed through WebLogic Portal.

Process participation through RSS.

RSS feeds are rapidly gaining popularity as a simple mechanism to tame the forces of information overload. RSS allows an individual to subscribe to a stream of information – typically from a web site or news feed -- which can then be filtered to prioritize recent activity or certain criteria.

Applying RSS to process tasks enables a participant to more immediately survey process activities and to-dos, and “opt-into” those process activities and tasks most beneficial to their role, and filter those activities according to priority or activity.

The two figures below illustrate the RSS capabilities featured in ALBPM 6.0. In Figure 4, an HR administrator’s Outlook inbox is filled with various requests for promotions to manager, generated through a business process managed in AquaLogic BPM.

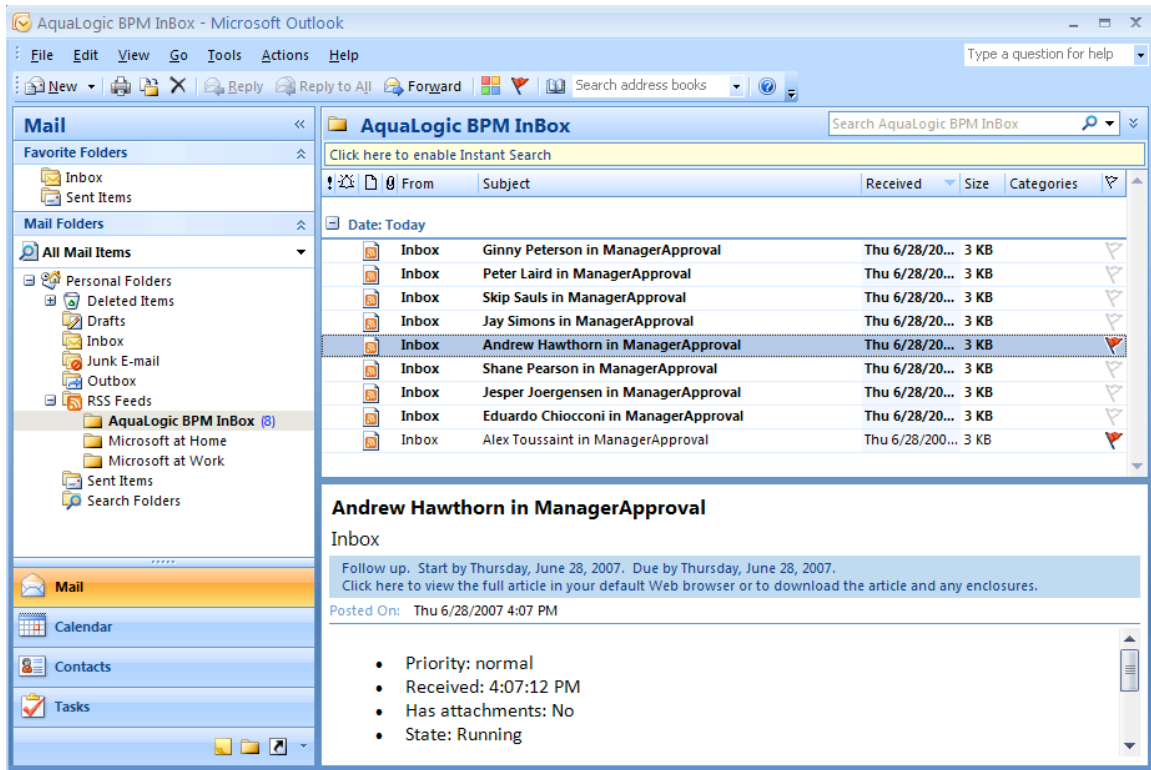


Figure 4 –The approval form for Andrew Hawthorn’s promotion to manager, as seen from the HR analyst’s Outlook inbox.

Figure 5 displays the RSS feed ALBPM generates for pending approvals from an Order Management process, displayed using the FireFox RSS reader.

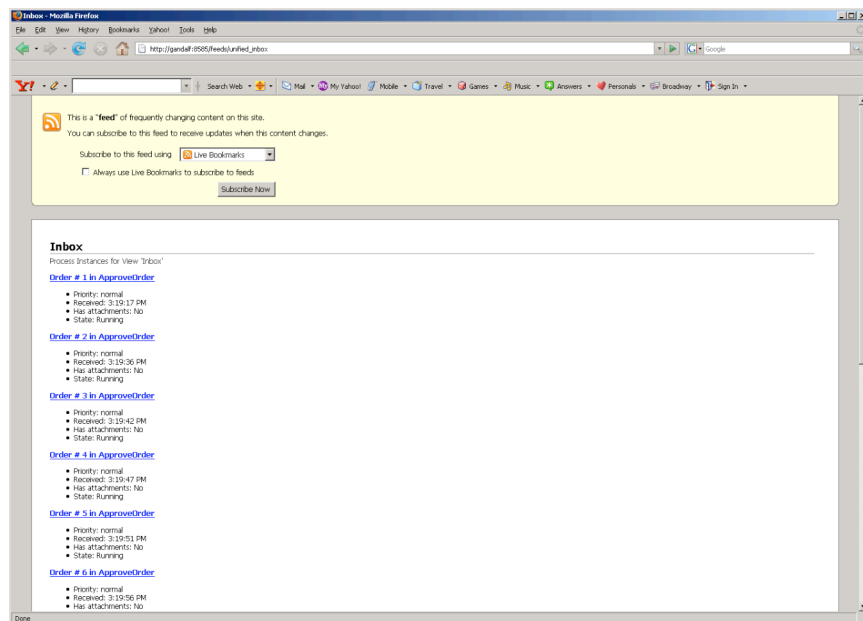


Figure 5 – Order management RSS events as seen in Mozilla Firefox reader

More Intelligent: Smarter Decisions Based on Activity Analysis

Decision Activities

Take a look at any real-world process and you'll see a series of decision points. Is the prospect solid enough to move into the pipeline? Does the invoice need revisions? Should these trades be approved?

To improve productivity, process analysts will often look to automate the routine activities and decisions within a process. In some cases, it's relatively easy to determine the criteria used to make a decision. However, there can often be many criteria making up a specific decision. How can the process analyst determine which factors drove the decisions?

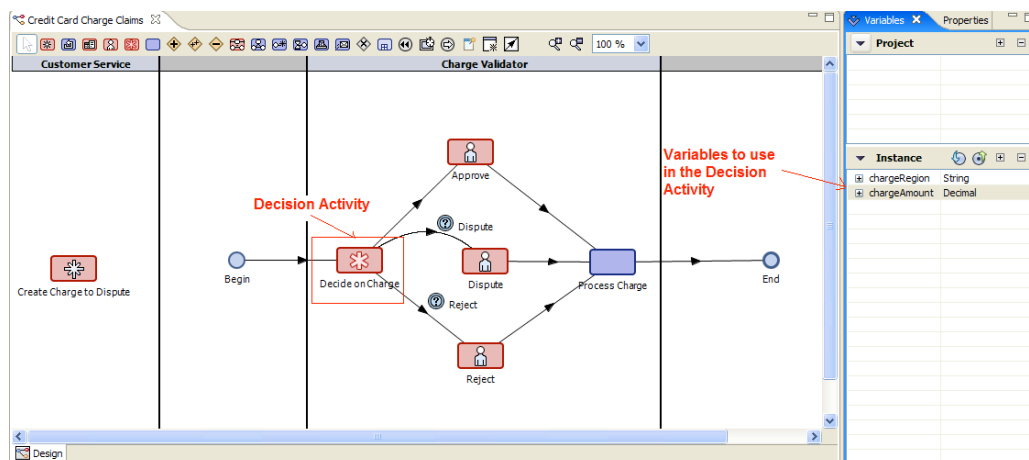


Figure 6 – Decision Activity

ALBPM 6.0's Decision Activities capture the decision taken by an end user, as well as record pre-defined process variables and/or defined key process indicators (KPIs).

By capturing real-time information about what factors make up a decision – such as the size of the block of trades, the exchange, the amount, or the person making the decision – the process analyst can develop detailed trend analyses to determine how to

Charge Amount: 102
Charge Region: US

OK Cancel Approve (53%) Reject (47%) Dispute

Figure 7 - Human interface showing Decision Activity aggregated results

optimize (or automate) future outcomes. Additionally, these trends can be aggregated to help influence the decision of the user to create more consistent results. AquaLogic BPM 6.0 features a sophisticated algorithmic recommendation engine to help influence the effectiveness of future decisions based on the analysis of past activity.

Improved Business Activity Monitoring dashboards

BPM provides managers with tremendous visibility into how their businesses are functioning. The way they visualize and monitor these activities is through Business Activity Monitoring (BAM) dashboards. Sales managers see how close they are to quota before signing off on a huge discount. HR managers can monitor the progress of their team to recruiting goals.

ALBPM 6.0 features a new graphic rendering engine for displaying process activity metrics for business users, with more granular interactivity for end-users to drill-down and drill across. All BAM dashboards and KPIs created in previous releases of ALBPM are compatible with the 6.0 charting engine. Only the underlying rendering engine has changed; the Dashboard structure and metadata remain consistent with previous versions.



Figure 8 – New BAM Dashboards

More Dynamic: Define and Change Business Rules with Ease

GUI Business Rules Editor

Business rules drive many of the steps within business processes. Take a simple example:

- If a sales order is below \$50k, a manager or above can approve it.
- If a sales order is greater than \$50k, but less than \$500k, it must be approved by a VP or above.
- If more than \$500k, it requires the CEO's approval.

What happens when the business experiences a sudden surge in \$60k orders? What happens when the new CEO decides she wants to review all orders above \$100k?

Business users need simple, straightforward ways to define and change the business rules that guide process outcomes. Business users want the capacity to create, reuse, delete or modify these rules without going to IT or disrupting existing processes. And these rules should be centrally managed, so authorized people can change a rule once and propagate that change to any process that uses that rule.

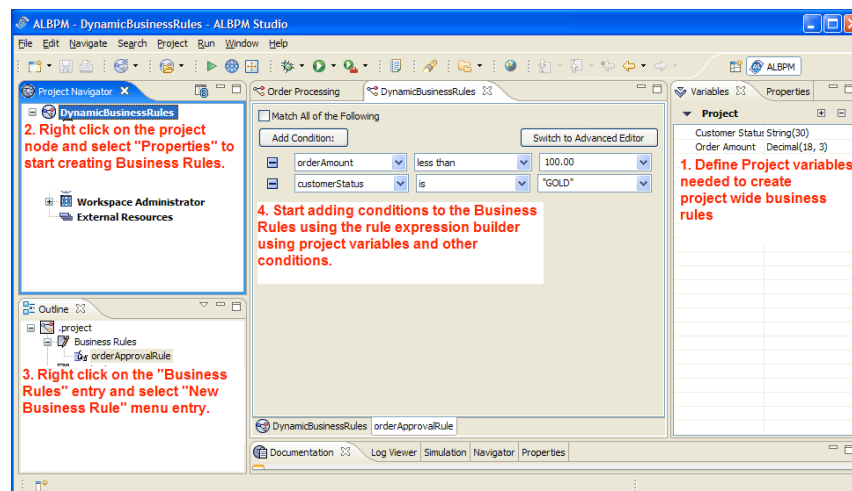


Figure 9 – Steps to define a project-wide rule

ALBPM 6.0 includes a graphical rules editor (see Figure 9) as a part of both Designer and Studio, the developer and process modeling environments that are part of the ALBPM Suite. Every aspect of rules creation and management – from the definition of conditions, to the management and reuse of rules, to the deleting and versioning of rules – is code-free and business-friendly. The rules capabilities are

abstracted from the process model, allowing rules to be dynamically updated through the web.

Once a rule is defined, the same rule can be reused in any business process created within a project.

More Control. Less Risk: Enhanced Process Testing and Simulation

Round Trip Simulation

Simulations are often used to model as-is or to-be processes, but the underlying data used to formulate the assumptions in those simulations is often incomplete and hypothetical.

ALBPM 6.0 expands on its simulation capabilities by offering support for Round Trip Simulation, where production deployment data can be loaded in to simulation engine. Round Trip simulation provides a more accurate simulation model by capturing statistical information about the processing instances in production during a specified period of time. Rather than *guesstimating* that five minutes is the average time it takes a manager to process a health claim exception, you can deploy the process and measure the exact average. This data can then be used as the basis for other similar actions where real data does not yet exist.

More Flexible: Most Comprehensive Standards Support

BEA offers the broadest and most complete support for BPM standards, and ALBPM 6.0 extends BEA's position as the standards leader. ALBPM currently offers unmatched support for:

BPMN (Business Process Management Notation): a standardized graphical notation for drawing business processes in a workflow. BPMN's primary goal is to provide a standard notation that is readily understandable by all business stakeholders and can serve as common language for a shared model that is understood by the business during process design and that can be extended and deployed by IT.

BPEL (Business Process Execution Language): BPEL is designed to provide a definition of web services orchestration, specifically the underlying sequence of interactions, and the flow of data from point-to-point.

XPDL (XML Process Definition Language): The most common standard for business process definitions.

AquaLogic BPM is unique in the market by providing a single engine that supports each of the major BPM standards, including BPMN 1.0, XPDL 2.0, UDDI 3.0, BPEL 2.0 and WS-Security. The ability to run XPDL and BPEL in parallel on the same BPM Process Execution Engine gives customers the best of both worlds by blending human and system centric business process implementations into a single system.

Eclipse Based IDE

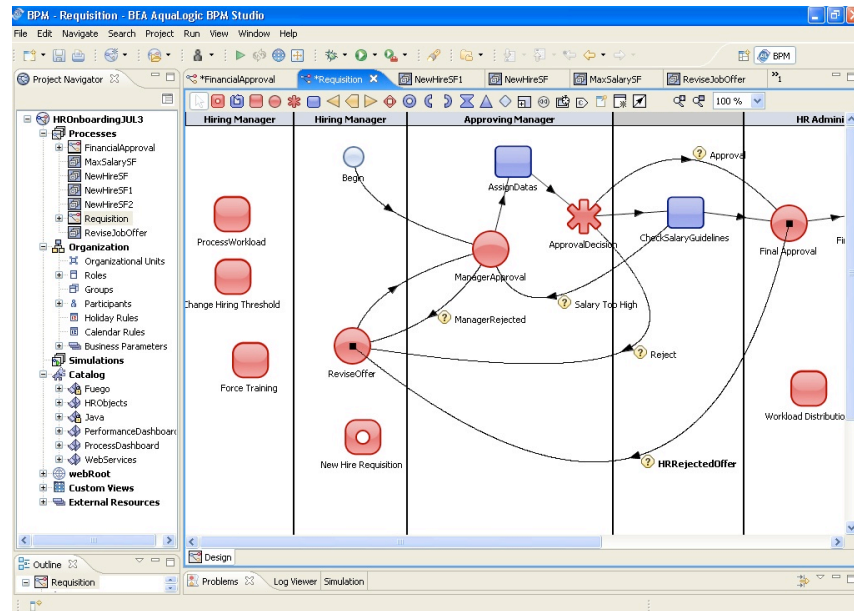


Figure 10 – Familiar Eclipse tooling improves developer productivity.

Eclipse is the most commonly used IDE in the world, and to improve developer productivity and reduce developer training, BEA placed significant effort in deploying ALBPM 6.0 into the Eclipse 3.2.2 framework. The ALBPM Studio interface was completely redesigned to use the Eclipse interface and plug-in to the Eclipse IDE framework, while maintaining the modeling layout and tools familiar to ALBPM Studio users.

Additional capabilities also include available Source Control Management (SCM) extensions, and a pluggable architecture that allows the deployment of ALBPM Studio Eclipse Plug-ins into an existing Eclipse installation (such as BEA Workshop). This allows a developer to consolidate all of their tooling into a single IDE.

XPDL 2.0

ALBPM 6.0 offers unmatched support for XPDL 2.0, which provides customers several important benefits:

- In XPDL 2.0, extensions to XPDL 1.0 are embraced by default in new constructs.
- Improves interoperability with other BPM vendors.
- Improves BPMN support with bi-directional mappings between BPMN flows and XPDL 2.0.

Projects implemented in ALBPM 5.7 that are imported to ALBPM 6.0 will automatically be converted to XPDL 2.0.

BPEL 2.0

ALBPM 6.0 introduces support for BPEL 2.0, and provides the ability:

- Import BPEL 2.0 business processes into an ALBPM Project.
- Model BPEL 2.0 service orchestration business processes in ALBPM Studio.
- Execute BPEL 2.0 service orchestration business processes in the ALBPM Process Execution Engine.

BPEL Process Modeling

ALBPM Studio provides BPEL Business Process modeling capabilities through the Eclipse Project BPEL Editor Plug-in. Figure 11 below shows the major editor panels for modeling BPEL 2.0 based business processes.

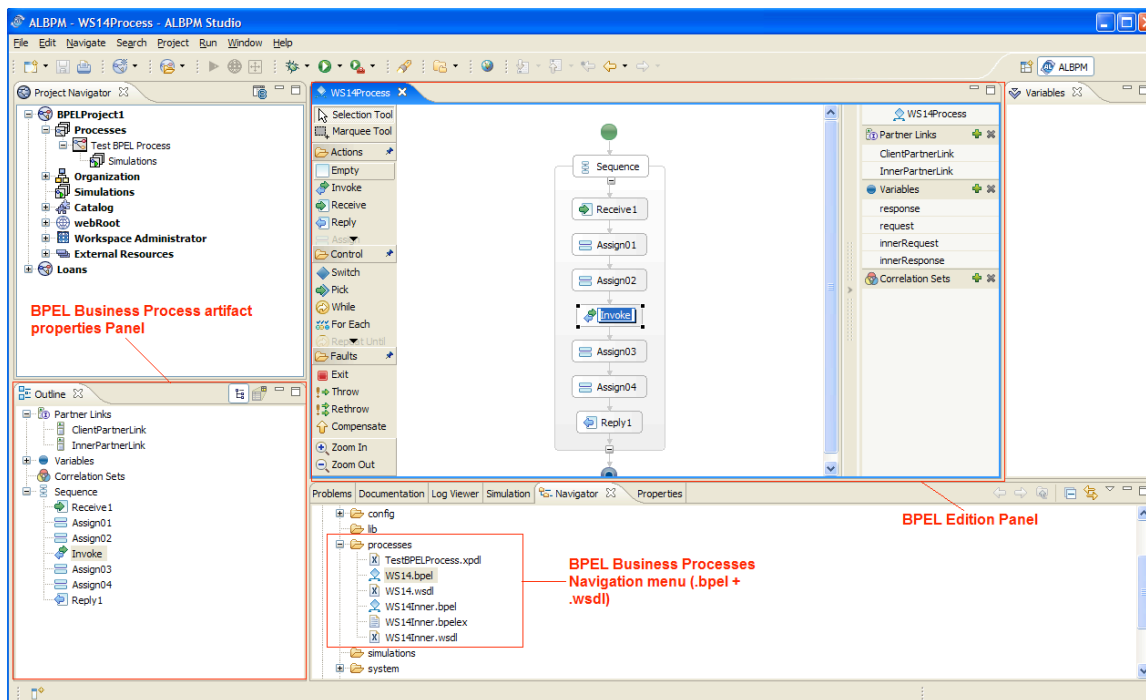


Figure 11 – Native support of pure BPEL 2.0 means complete investment protection. Your developers do not need to learn proprietary extensions, and your BPEL assets are immediately portable to other vendors and interoperable with other BPEL components.

BPEL Business Process Execution

The ALBPM 6.0 Process Execution Engine was optimized to support the execution of BPEL 2.0 business processes. Because ALBPM 6.0 implements BPEL 2.0 without extensions, any BPEL 2.0-compliant business process, from any vendor that offers BPEL 2.0 support, can be imported and executed within ALBPM 6.0. Additionally, any BPEL business process implemented in ALBPM 6.0 Studio can be exported to another BPEL Process Execution Engine, if needed.

Accessing BPEL Business Processes

Once an ALBPM Project containing BPEL processes has been deployed, the BPEL business process WSDLs can be easily accessed as Web Services, as seen in Figure 12.

BEA Aqualogic™ BPM Web Services Console	
ALBPM deployed Web Services:	
Service Name 'ws14InnerService'	
Style:	Document Literal
WS-Security Authentication:	none
HTTP Basic Authentication:	disabled
Endpoint:	http://ECHI0CC001:9000/albpmServices/BPELProject1/ws/ws14InnerService
WSDL:	here
Service Name 'ws14Service'	
Style:	Document Literal
WS-Security Authentication:	none
HTTP Basic Authentication:	disabled
Endpoint:	http://ECHI0CC001:9000/albpmServices/BPELProject1/ws/ws14Service
WSDL:	here

Figure 12 – Accessing BPEL WSDLs

WS-Security

ALBPM 6.0 embraces the WS-Security specification for both the consumption of Web Services and the production of Web Services (e.g., PAPI-WS or Processes exposed as Web Services). ALBPM implements the “User Name Token Profile” authentication mechanism that is one of the most widely used mechanisms for security. It consists of providing a principal and a credential that the Web Service will use to authenticate and validate each SOAP request.

Web Service Introspection and WS-Security

With tens, or even hundreds, of developers producing thousands of web services, discovering the correct web service, and ensuring the service end points are accurate, can often be challenging.

When a Web Service is discovered or introspected, its WSDL can contain a WS-Policy section containing information about authentication. This authentication section inside the policy needs to be specified based on the WS-Security specification. At introspection time, the ALBPM Web Service discovery framework will look for this section and present it to the developer where the principal and credentials can be provided.

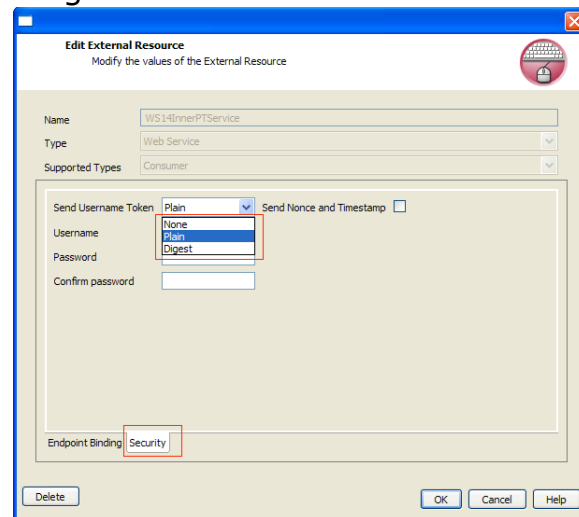


Figure 13 shows the existence of a new "Security" Tab in the definition of a Web Service, where it is possible to configure the User Name Token Profile based on a Plain or Digest implementation.

Figure 13 – WS-Security means easier, faster, more secure consumption of Web Services.

ALBPM Web Services and WS-Security

In the same manner that ALBPM can consume Web Services securely, ALBPM can include a WS-Policy section including a WS-Security asset describing the security required to successfully invoke an ALBPM Web Service. The security configuration is done as part of the PAPI-WS Web Application configuration in ALBPM's Admin Center or in the Process Administrator.

WS-I Compliance

Interoperability is a key benefit to any Web Service. ALBPM 6.0 has done an extensive Web Service certification and has passed the WS-I Compliance test. This certification assures that the Web Services that ALBPM produces can be consumed by any Web Service client application, on any platform (i.e.: .NET or Java).

Web Service Doc Literal Support

ALBPM now produces Document Literal Style Web Service definitions in the corresponding WSDL, allowing a much richer definition of Web Services. A major area of improvement is the support for complex input and output arguments when exposing a business process as a Web Service. XML Schemas composite and complex structures can now be used as input parameters to create a new instance or notify an existing instance in the middle of a business process.

PAPI-WS (Web Services API)

The previous version of the PAPI-WS (Process API for Web Services) had a sub-set of the functions available in the Java-based PAPI. This new version of PAPI-WS contains the full gamut of operations, and is bundled in its own separate Web Application (as opposed to the original PAPI-WS deployment that needed to co-exist within the WorkSpace Web Application). This separation allows developers to fine tune their PAPI-WS implementations without impacting any existing WorkSpace Web Application.

Of course, PAPI-WS also adheres to the WS-Security User Name Token Profile specification. This provides advantages in several areas but the major two are:

- Better security: integration with other Web Service infrastructures (mainly in SOA practices).
- Integration simplification: since in the new PAPI-WS it is no longer necessary to create a session before making a SOAP call. In the new PAPI-WS API, the authentication information goes along in the SOAP header piggy-backing the credentials to establish the backend ALBPM authentication on the same single SOAP Request.

Java 5

ALBPM 6.0 is completely compiled using JVM 1.5, leveraging all of the enhancements of the 1.5 bytecode generation. This is the most stable and reliable JVM to date.

More Scaleable: Industry-leading SOA integration

ALBPM 6.0 improves the integration with core BEA service infrastructure products, enhancing the relationship between BEA's BPM and SOA technologies and providing reference implementations for how to integrate ALBPM with other SOA products.

AquaLogic Service Bus integration

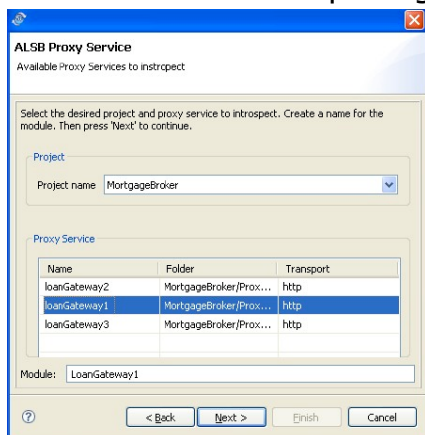
ALBPM 6.0 introduces several features to smoothly consume and publish services in the AquaLogic Service Bus Engine, including:

- Discovery of Services deployed in AquaLogic Service Bus
- Easy integration of Services deployed in AquaLogic Service Bus
- Optimized service invocation from AquaLogic BPM to AquaLogic Service Bus services.

- Ability to register ALBPM business processes exposed as Web Services into an AquaLogic Service Bus Engine.

Discovery of Services deployed in AquaLogic Service Bus

Customers want the capacity to easily find and reuse services deployed throughout the Enterprise. By using AquaLogic BPM in combination with AquaLogic Service bus, developers can easily find and consume processes within their process models using a simple wizard.



Within ALBPM Studio, you can discover ALSB Proxy Services by browsing the AquaLogic Service Bus Registry. Using a simple Wizard screen, a developer can easily pick from the available services based on the principal and credentials provided, as shown in Figure 14.

Easy integration of Services deployed in AquaLogic Service Bus

Once discovered, ALBPM 6.0 provides the capability to easily integrate Service Bus Proxy Services, honoring the security around these services when the authentication is enforced at the SOAP (using WS-Security User Name Token Profile) or Transport level (HTTP/S). These security capabilities are also presented as part of the wizard that drives the service discovery from ALSB.

Register ALBPM processes exposed as Web Services in AquaLogic Service Bus

Equally important is the capacity to publish processes or parts of processes as web services, so that they may be invoked by other applications or reused in other projects.

The Figure 15 below shows how it is possible to use AquaLogic BPM to register a business process as part of a service orchestration defined within AquaLogic Service Bus.

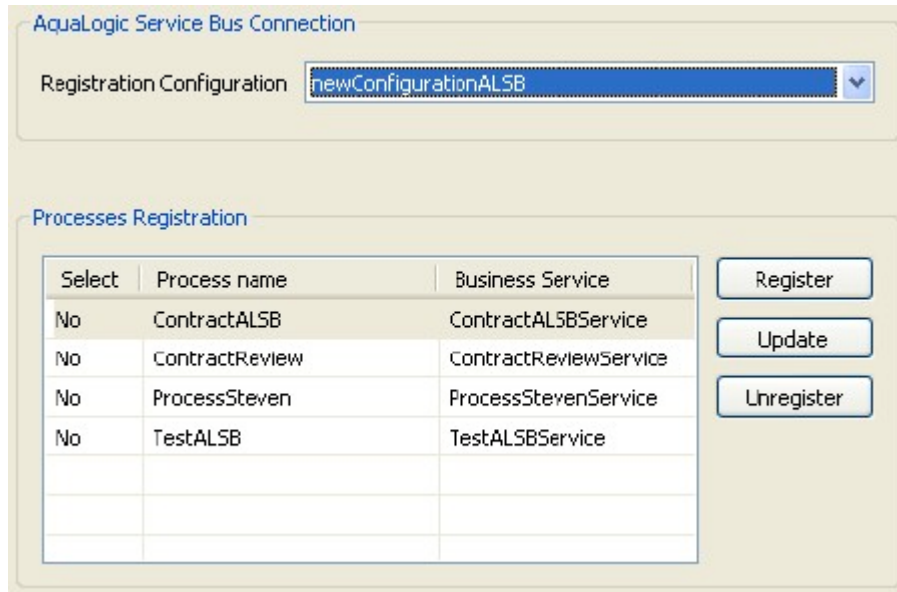


Figure 15 – Registering Processes as Services is easy and straightforward.

AquaLogic BPM and AquaLogic Service Bus – optimized for speed.

If AquaLogic Service Bus and AquaLogic BPM are on the same container, ALBPM will be able to use an optimized transport to invoke services within ALSB using an RMI transport implementation instead of using the default invocation through HTTP. This optimized transport not only accomplishes better throughput but it also provides security and transaction propagation. In lab tests, the RMI transport is 3 times faster than through HTTP.

Similarly, AquaLogic Service Bus will be able to invoke AquaLogic BPM processes through PAPI for a more direct connection and better performance.

More Manageable: Improved Usability and Configuration

Multiple Perspectives

ALBPM 6.0 no longer has separate installers or bundles for ALBPM Designer and ALBPM Studio. When you launch ALBPM Studio, depending on the installed license, Studio will present a launch welcome page that will allow the end user to select the most appropriate perspective, depending on that user's skill-set and profile. The figure below shows this new welcome page. Depending on the selected Profile, the ALBPM Perspective in Eclipse will enable or disable different features.

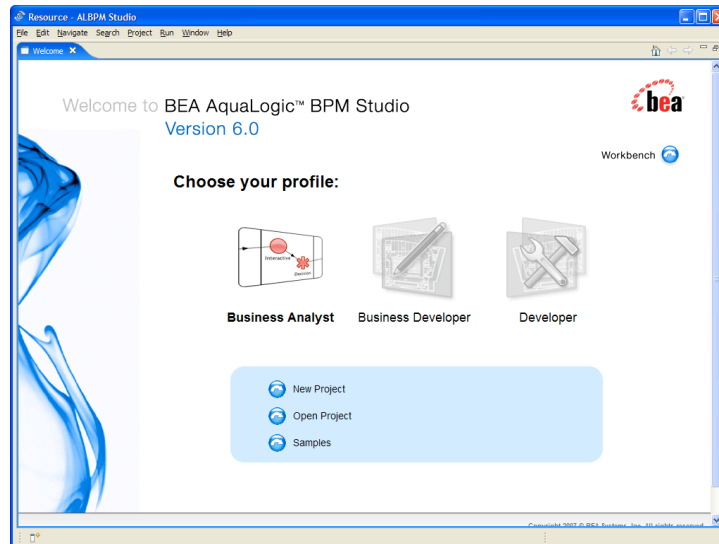


Figure 16 -- One product, tailored to fit many user profiles, enables total collaboration.

Improve productivity – share assets

In ALBPM 6.0 Studio, a process designer or developer can open several projects simultaneously. This enables the designer to compare processes, share or replicate artifacts (processes, components, configurations, and more), and promote best standards. All of this saves time, and improves the quality of the end product.

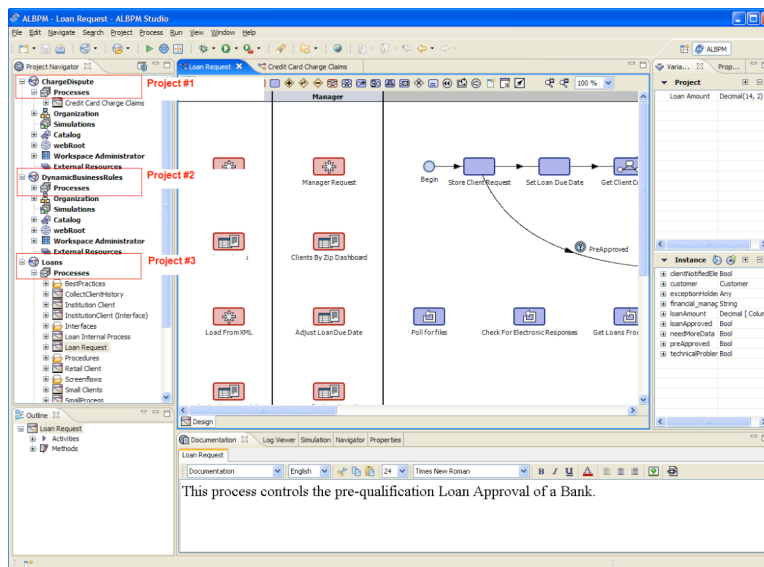
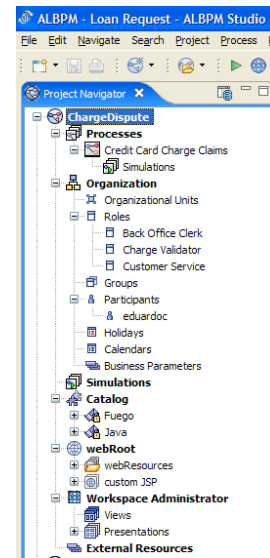


Figure 17 – More reuse: Share artifacts between projects.

More items in the Project Navigator

The project navigator is the single location to manage all project objects. In ALBPM 6.0 Organization was added to manage roles, users, groups, holidays, etc., and all of those artifacts can be managed alongside. Moreover, simulations can be stored and reused as separate project artifacts, right along side all of the other objects in the Navigator.

This improves developer productivity by making it easier and more intuitive to find what you need.



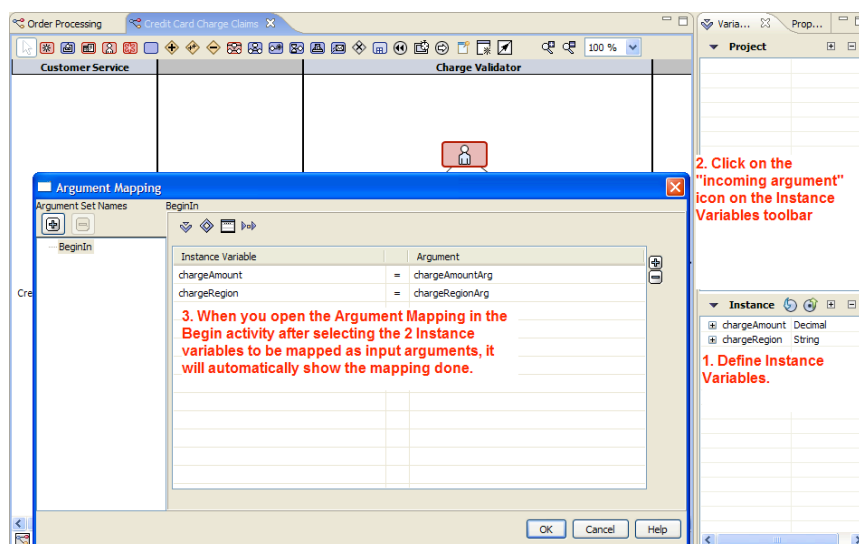
Project Variables

Based on customer feedback, ALBPM 6.0 added "Project Variables" to the definition of a project. These new variables are similar to "Business Variables," but the major distinguishing aspect is that Project Variables are automatically inherited by all business processes created inside the project.

This makes Project Variables much more portable and business-user friendly. Thus, they can be used to define KPIs or as parameters in the definition of Business Rules.

Argument Mapping Improvements

Argument Mappings are significantly simplified in the ALBPM 6.0. Developers can define Instance variables first and then with a single click, define an input or output argument mapping.



After defining the Instance Variable, ALBPM will automatically define the argument variable and define the mapping in the Begin Activity. A similar action can be accomplished for outgoing arguments.

Publish faster with incremental project publication

Large projects have multiple dependencies and triggers, and are often hard to compile and troubleshoot.

New in ALBPM 6.0 Studio is the ability to compile project assets incrementally (creating the BPM Objects, introspecting components, debugging, and more). This incremental publication automatically detects any dependencies with other project artifacts, and will automatically trigger any necessary background compilations. All told, incremental publishing will significantly reduce the time and effort needed to develop large projects.

Configuration Wizard

A consistent request from customers, field sales, consulting, and customer support has been to make the initial set-up and configuration of ALBPM Enterprise environments easier. ALBPM 6.0 meets this need by introducing an improved configuration wizard. Through this wizard, ALBPM Enterprise Standalone and ALBPM Enterprise for WebLogic can be deployed in mere minutes. The new ALBPM Enterprise Environment created by this Wizard includes the following:

ALBPM Enterprise Standalone:

- ALBPM Directory Service Creation
 - o ALBPM Directory Service Database Creation
- ALBPM Engine Creation
 - o ALBPM Engine Database Creation
- Sample Deployment

ALBPM Enterprise for WebLogic:

- ALBPM Directory Service Creation
 - o ALBPM Directory Service Database Creation
- ALBPM Engine Creation
 - o ALBPM Engine Database Creation
- Deployment of Sample Project
- Creation of a WLS single node domain

- Deployment of ALBPM Engine and other ALBPM Applications (WorkSpace, RSS Feeds, PAPI-WS, etc) on the newly created WLS Domain

The figure below shows the Configuration Wizard launched from ALBPM's Admin Center. In addition, the Configuration Wizard can be launched when the ALBPM Enterprise installation for Standalone and WebLogic finishes successfully.

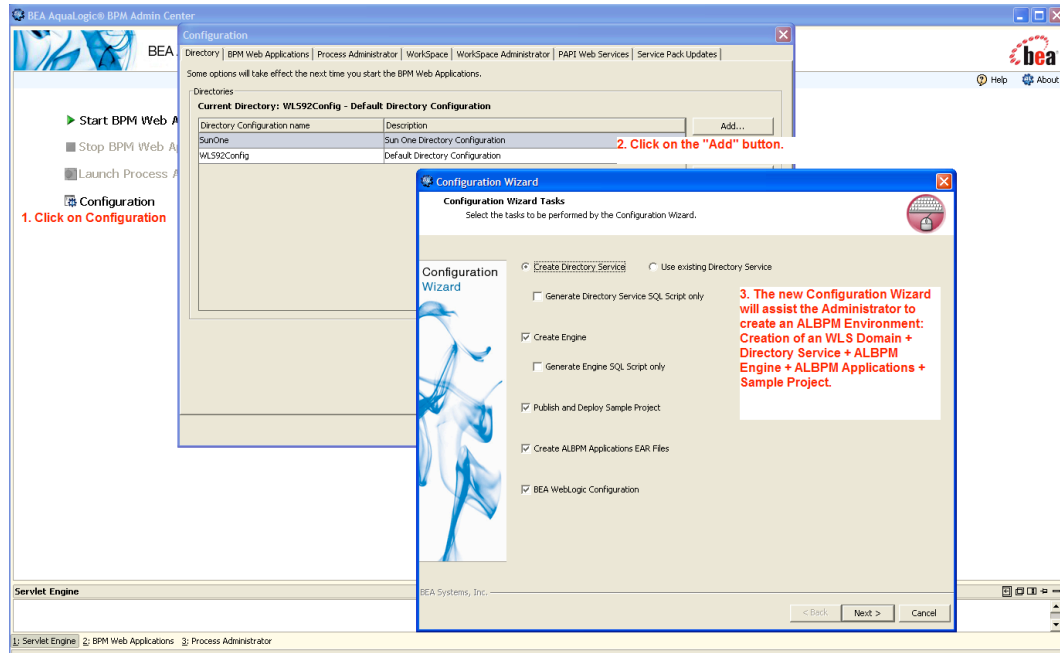


Figure 18 --Installation on WebLogic Server: from 150 separate steps down to just 2.

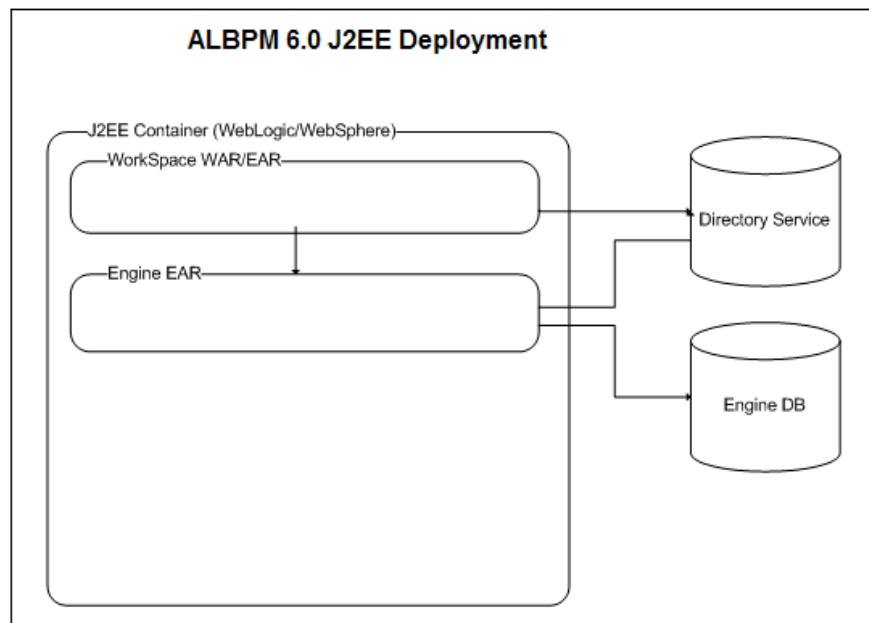
Simplified deployment and maintenance

Maintenance of J2EE artifacts can be cumbersome and costly. Previously, large numbers of EAR or WAR files needed to be created and maintained as part of the business process lifecycle. Every time a new project was modified, ALBPM Administrators needed to generate a new version of the Project Version EAR file and deploy it in the container.

ALBPM 6.0 introduces a simplified deployment model for ALBPM Enterprise Engines deployed on WebLogic or WebSphere J2EE Containers to reduce maintenance costs and improve system agility.

To make it much easier to deploy a new revision (whether minor or major) of an ALBPM Project, without generating the extra overhead,

ALBPM 6.0 features a simplified topology with just two J2EE assets:
The WorkSpace application and the ALBPM Engine EAR.



In 6.0, the ALBPM Engine EAR file can now get the business process compiled code at project publication time directly from the Directory Service and inject it into the Engine EAR classpath dynamically.

This new architecture brings several advantages:

- **Less administration:** From multiple J2EE artifacts to just two.
- **More agility:** no more need to redeploy Project version EAR for every revision
- **More synchronized:** The Engine can dynamically modify the classpath to dynamically replace a project revision.
- **Easier Maintenance:** The Engine EAR will contain all the necessary ALBPM Libraries facilitating the deployment when a new patch needs to be installed. This will also allow the co-hosting of multiple ALBPM Engine EARs on different patch levels on the same J2EE Domain.

Simplifying authentication and authorization.

Integrating multiple directory structures into BPMS products is often challenging and difficult. Most vendors provide limited tooling to assist large-scale Enterprise customers. Often, developers are on their own,

often resorting to replicating authorization and authentication data in multiple places.

ALBPM 6.0's new FDI architecture binds Organization metadata for authentication and authorization to an LDAP Directory Service such as Microsoft Active Directory or Sun One Directory Service. This eliminates the need to replicate any participant's or entitlement information, and keeps that critical data where it belongs: centralized and secure. Moreover, any entitlements defined in the LDAP Directory Service, such as groups assignments or skills, can be immediately accessible to AquaLogic BPM.

New supported FDI configurations include:

RDBMS Configurations:

- Organization Metadata and ALBPM Metadata in Oracle
- Organization Metadata and ALBPM Metadata in MS SQL Server
- Organization Metadata and ALBPM Metadata in IBM DB2

Hybrid Configurations:

- Organization Metadata in Microsoft Activity Directory and ALBPM Metadata in Oracle, MS SQL Server or IBM DB2
- Organization Metadata in Sun One Directory Service and ALBPM Metadata in Oracle, MS SQL Server or IBM DB2

Deprecated Configurations:

- Organization Metadata and ALBPM Metadata in Microsoft Activity Directory
- Organization Metadata and ALBPM Metadata in Sun One Directory Service

Conclusion

The release of AquaLogic BPM 6.0 is a major milestone in the business process management market, presenting in a single BPM Suite the most comprehensive support for system-centric and human-centric business processes and the broadest range of capabilities for business and developer process participants.

ALBPM 6.0 is optimized for the largest, most complex enterprise deployments, while offering powerful, intuitive tools for both IT and business users.