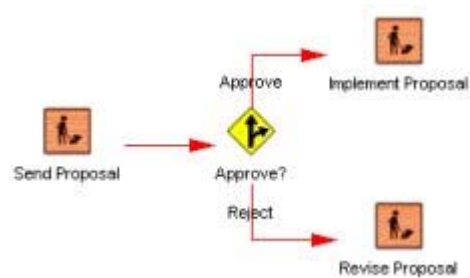# Nouveau Alliance® Workflow Automation Service™ v. 3.2

Nouveau Alliance Workflow Automation Service is a powerful workflow process automation system that makes it easy to create enterprise-ready, workflow-enabled applications in much less time and with far greater capabilities than other, less flexible alternatives. It provides true distributed development and debugging, and scalable deployment without the overhead of traditional enterprise systems.

The Benefits of Workflow Automation

Workflow automation, separates critical "business logic" from the rest of an application. As conditions change, you simply modify the workflow without modifying the entire application. Because workflows are simple, domain experts can quickly modify the logic of a workflow-enabled application, without calling on programmers who may be unfamiliar with the domain. Your organization saves time, and significantly reduces the risk of modifying, requalifying, and redeploying your entire application.

Features and Benefits

Nouveau Alliance Workflow Automation Service offers a number of features and benefits for creating workflow-based process automation solutions.

Scalable Performance

Nouveau Alliance Workflow Automation Service offers scalable performance across the enterprise. It provides a powerful distributed processing model for workflow processes. Thanks to its intelligent P2P architecture, workflow definitions, instances, activities, classes, and other resources are available anywhere in the peer network.

Advanced Workflow Capabilities

Nouveau Alliance Workflow Automation Service includes advanced workflow capabilities that meet needs of the most demanding automation tasks including:

- conditional branching
- parallel execution
- subworkflows
- iteration and looping
- named entry points
- exception handling
- mobile execution
- breakpoint processing
- pause/resume
- single-stepping
- RDBMS access
- email and messaging
- file and document access
- run external commands

Ready-to-Use Components

Nouveau Alliance Workflow Automation Service features a library of pre-defined workflow nodes and activities that you can extend using Java or over a dozen scripting languages including VBScript on Microsoft Windows and AppleScript on Mac OS X.

Simplified Deployment

Nouveau Alliance Workflow Automation Service simplifies deployment. You can transparently add a workspace anywhere in the peer network, and move a workspace from one server to another to distribute processing load. Remote workflow processes automatically "discover" the workspace and its workflows with no additional programming or administrative overhead.

Ease of Integration

Nouveau Alliance Workflow Automation Service is easy to integrate with existing applications and software infrastructure. It can be run as a stand-alone server, or it can be embedded in an existing Java application, in a servlet engine as an application context, or in an EJB server as a container or session object.

Remote Debugging and Monitoring

Nouveau Alliance Workflow Automation Service's dynamic process management enables you to debug and monitor workflows as they are running. Stepping over nodes and activities, stepping into sub-workflows, and examining values during execution are all simple to do. You can also open, debug, and modify remotely running workflows, enabling you to quickly find and fix problems during and after deployment

Security

Nouveau Alliance Workflow Automation Service utilizes the security services of the Nouveau Alliance Collaboration Server. User authentication uses JSSE and standard directory services such as LDAP, NIS,

and Microsoft Active Directory. Workspaces and their workflows can be fully encrypted using strong security through JCE/JSA algorithms, and support secure communications using SSL/TLS/HTTPS technologies. You can select the level and type of security that are right for your application.

New in Version 3.2

Professional and Department Editions

Professional Edition provides workgroup P2P sharing and execution of workflows and real-time collaboration. *Department Edition* is an economical self-hosted version that supports users department-wide with no per-user installation.

Universal Scripting Framework

Create new workflow activities in Java or in popular scripting languages such as JavaScript, Ruby, Perl, Python, Tcl, Scheme. Automate your desktop using VBScript in Microsoft Windows and AppleScript in Mac OS X.

Workflow Enabled Servlets

Create web applications graphically with FlowSpace. Use *Workflow Servlet* to create servlet logic using workflows. Enables domain experts to define and modify business logic without extensive knowledge of web programming.

Integrated DerbyDB RDBMS

Store and retrieve relational data from this full-featured, fully integrated RDBMS at no extra cost. Configure data sources external to workflows. Allows easy integration with other commercial and open-source database products.

Run Workflow Command Line Tool

Run or resume workflows from the command line using the *runworkflow* tool. Now run workflows from command scripts, or from desktop tools such as *iCal* on Mac OS X, *Task Scheduler* on Microsoft Windows, or *cron* on Unix.

Sample Workflow Applications

Complete workflow applications, including detailed whitepapers that show how they are built, and ready-to-run example templates.

Requirements

Nouveau Alliance® Workflow Automation Service runs within the Nouveau Alliance® Collaboration Server, and supports a wide variety of hardware, operating systems, databases, and directory services.

Dependencies

Required Software
- Java 2 Platform Standard Edition v. 1.5 SDK (or higher)
- Nouveau Alliance Collaboration Server v. 3.2 (or higher)

Optional Software
- FlowSpace Workflow Developer v. 3.2 (or higher)

Platforms Supported

- Windows 2000/XP/Vista
- Windows Server 2003 for x86 or IA64
- MacOS 10.3 for PPC or x86 (or higher)
- Solaris 9 for for Sparc or x86 (or higher)
- HP-UX 11 for PA-RISC or IA64 (or higher)
- Redhat Fedora Core 4 for x86 (or higher)
- Redhat Linux Release 9 for x86 (or higher)
- Redhat Ent Linux ES 4.0 for IA64 (or higher)
- Linspire 6 for x86 (or higher)
- Ubuntu 7 for x86 (or higher)
- SuSE Linux 9.0 for x86 (or higher)
- SuSE Enterprise Server 9 for IA64 (or higher)

Supported Databases

- Oracle
- DB2
- SQL Server
- MySQL
- DerbyDB
- Other JDBC compliant databases

Supported Naming and Directory Services

- LDAP
- NIS
- Microsoft Directory Service
- Nouveau Alliance Naming and Directory Service v. 3.2 (or higher)
- Other JNDI supported directory services

To Learn More

To learn more about the benefits of Nouveau Alliance Workflow Automation Service, and how it can be integrated with your applications, contact Nouveau Systems.

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