

Software Selection Criteria Schema

This is a list of criteria group and subgroup headings.

Criteria groups and subgroups

Supplier-related Requirements

1. Company competitiveness
 - 1.1. Company history and current performance
 - 1.2. Development and maintenance capability
 - 1.3. Quality management
2. Customer interfaces to the supplier
 - 2.1. Technical Support
 - 2.2. Education
 - 2.2.1. Training
 - 2.2.2. Documentation and tutorials

Functional Requirements

1. Architecture
 - 1.1. Basic architectural characteristics
 - 1.2. Tool integration
 - 1.3. Rule-engine integration
 - 1.4. Scalability
 - 1.5. Multiple repositories
2. Integration with the environment
 - 2.1. Java application integration
 - 2.2. CASE Tool integration
 - 2.3. Application Server integration
 - 2.4. EJB Integration
 - 2.5. Relational Database Integration
 - 2.5.1. Database Interface
 - 2.5.2. Mapping creation without database schema
 - 2.5.3. Mapping creation from a database schema
 - 2.6. Integration of custom tools

- 3. Repository
 - 3.1. Basic repository object types
 - 3.1.1. Users
 - 3.1.2. User groups
 - 3.1.3. Roles
 - 3.1.4. Business ramblings
 - 3.1.5. Business rules
 - 3.1.6. Rule groups
 - 3.2. Repository structure
 - 3.3. Extensibility of repository
- 4. Business Rule Languages
 - 4.1. "Business ramblings" language
 - 4.2. Natural language-like formal rule language
 - 4.3. Native business rule language
- 5. Business rule execution environment
 - 5.1. Java conformance
 - 5.2. Rule engine pooling
 - 5.3. Parallel execution of rule engines
 - 5.4. Pattern-matching algorithm
 - 5.5. Notification events
 - 5.6. Dynamic rule manipulation
 - 5.7. Rule engine features
 - 5.7.1. Rule Interpreter
 - 5.7.2. Pattern matching
 - 5.7.3. Object assertion and retraction
 - 5.7.4. Loading and execution of rules
 - 5.7.5. Detection and resolution of conflicting rules
 - 5.7.6. Pattern-matching optimization
 - 5.8. Rule engine configuration
- 6. Development Environment
 - 6.1. Business rule editor
 - 6.1.1. Basic features

- 6.1.2. Business ramblings editor
- 6.1.3. Business rule editor (natural language-like rule representation)
- 6.1.4. Business rule editor (native rule language representation)
- 6.2. Mapping editor
 - 6.2.1. UML mapping editor
 - 6.2.2. Class mapping editor
- 6.3. Debugger
 - 6.3.1. Breakpoints
 - 6.3.2. Watchpoints
 - 6.3.3. Stepwise execution
 - 6.3.4. Inspection
 - 6.3.5. Rule execution tracing
- 6.4. Deployment editor
 - 6.4.1. Specification of deployment sets
 - 6.4.2. Activation of unapproved rules for testing
 - 6.4.3. Inferencing method specification
 - 6.4.4. Specification of conflict-resolution strategy
- 6.5. Deployment tool
 - 6.5.1. Rule compiler
 - 6.5.2. Deployment to specified rule engine
 - 6.5.3. Error handling
 - 6.5.4. Dynamic deployment
- 7. Workflow support
 - 7.1. Support for rule elicitation, analysis and design workflow
 - 7.2. Support for the rule development workflow
 - 7.3. Support for the deployment workflow
 - 7.4. Dynamic development and deployment workflow
- 8. Administration
 - 8.1. User management
 - 8.2. User group management
 - 8.3. Rule group management
 - 8.3.1. Rule group creation and deletion

- 8.3.2. Check-in/check-out at rule group level
- 8.3.3. Freeze und unfreeze at rule group level
- 8.4. Rule Administration
 - 8.4.1. Rule creation, modification and deletion
 - 8.4.2. Rule check-in/check-out
 - 8.4.3. Rule status modification
 - 8.4.4. Rule activation and deactivation
- 8.5. Trace control
- 8.6. Log File Administration
- 8.7. Rule Execution Monitoring
- 8.8. Repository administration
 - 8.8.1. Repository backup
 - 8.8.2. Repository restore
 - 8.8.3. Manual repository replication
 - 8.8.4. Scheduled repository replication
 - 8.8.5. Repository synchronization
- 8.9. Repository export and import
 - 8.9.1. Export
 - 8.9.2. Import
- 9. Reporting
 - 9.1. Available reports
 - 9.2. Object selection
 - 9.3. Report generation
 - 9.4. Printing
- 10. Miscellaneous
 - 10.1. Business rules reverse engineering
 - 10.2. Rule editor embedding capability
 - 10.3. Installation and deinstallation

Non-functional Requirements

- 1. Performance
 - 1.1. Rule engine performance

- 2. Recoverability
 - 2.1. Repository recoverability
- 3. Portability
 - 3.1. Rule engine portability
 - 3.2. Tool and repository portability
- 4. Learnability
 - 4.1. Documentation
 - 4.2. Online help feature