



Elements Repository

The Elements Repository is a highly scalable Web-based repository specifically designed for the management and analysis of dynamic, highly-interrelated data and metadata of complex systems and enterprises. Elements Repository can manage the complete lifecycle of information – from initial input through review, versioning, analysis, reporting and retirement – or can act as an analytical warehouse of information drawn from other sources, such as modeling tools, ERP systems, asset management systems, etc. Elements Repository is also a powerful platform for developing custom repository-based applications.

Enterprise-Class Repository for:

- **Enterprise Architecture Data Management and Analysis**
- **Application Portfolio Management**
- **Acquisition Lifecycle Management**
- **Project and Program Planning and Control**
- **Systems Engineering**
- **Text-Centric Knowledge Development and Management (e.g. contracts and other legal documents)**
- **Business Rules Management**
- **Many Others**

100% Web-based

All application functions, including administrative, are available in our Java-based portal interface.

Content Scalability

The Oracle 9i or 10g database and J2EE-compliant Servlet layer allow for massive scalability in both the quantity of data that can be housed and the number of concurrent users that can be supported

Configuration Scalability

The application architecture and user interface allow for easy definition and management of extremely large numbers of different repository element types, allowing support for very complex information models, such as the CADM.

Relational back-end, supporting direct query

All repository metadata configuration is automatically translated into relational database tables, insuring that any system data can be retrieved via SQL without complex translation or interpretation.

XML-based integration architecture

Message-based XML import and export of data and metadata
XSL plug-in layer for compatibility with XMI and any other XML-based export/import or messaging standard

Relationship Visualization and Diagram Auto-generation

Auto-generated diagrams for complex relationship network visualization and automatic production of standard diagram types, such as OV-2s, SV-1s or DFDs.

On-line Reporting

On-line HTML reports are generated on the fly from XSL-transformed XML, allowing easy customization to suit any need.

The generated HTML is automatically live-linked from report to report and back into object editors or collaboration workflow. This allows the reports to be used to manage information review and management tasks as well as for traditional reporting.

Metrics

Metrics Dashboard

Our Metrics Dashboard gives quick access to quantitative information about architecture data, active or historical project-level data and active or historical aggregate data.

Object-level data lifecycle management

Advanced access control model

Elements Repository's access control model supports restriction of create, read, update and delete permissions from the project down to object attribute level

Rights to individual application components can also be defined.

Version Control

A historical record of all changes made to all objects is maintained in the on-line repository.

A visual comparison tool is provided that shows attribute-level difference between versions using color-coding and markup to indicate changes.

All changes are date, time and user-ID stamped for full audit trail capability.

Customizable lifecycle for every object type

Each type of information in Elements Repository can be configured to flow through a different set of states throughout its lifecycle. For example, a Strategic Business Objective may be proposed at a middle-management level and have to migrate through a signoff process up the management and executive chain.

A technology standard may be proposed by a software developer, be peer-reviewed at the developer level, and then get sign-off at the management and Director levels. Elements Repository allows the definition of such lifecycles, including the states, the allowable transitions, the rules for allowing transitions (such as only certain users or user types, or a requirement that a certain attribute have a value), attribute-level access control, per state (e.g. "any user can change any attribute if the object is in an Initial state, but only managers can change the text and no-one can change anything else when it is in a Management Review state"), and transition-based triggers (such as data-cascading or state-cascading rules and email alerts).

Collaborative Workflow Support

Elements Repository provides a number of features to facilitate the collaboration among multiple users that is often required to define and evolve the important information about an enterprise or within a project.

Discussion threads

A hierarchical, threaded discussion facility is embedded in Elements Repository, allowing groups of users or stakeholders to collaborate on the development of content. Each discussion thread itself can have a defined lifecycle (such as deadlines or required participants).

Polling feature

Under some circumstances, a more structured approach than discussion threads is required to solicit feedback on content. In this case, polls can be used to send out questions with a defined set of possible answers to specified users or groups of users. Poll recipients are automatically sent email alerts containing hyperlinks back into Elements Repository. Results are accumulated and displayed in a graph view. Again, a lifecycle can be defined for each poll. Polls can also be accumulated into surveys.

Advanced email alert capabilities

Users can subscribe to objects of interest, so that alerts are sent to them automatically upon any change to that object.

More complex rules can also be defined to send out alerts based on more specific or more general conditions (e.g. if any object of a certain type changes, or if a specific attribute on a specific object changes to a specific value).

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