

Registry Requirements for RFP

(17 January 2003)

OASIS is requesting proposals from parties interested in providing software for and building a registry as described below. The purpose of the registry is promote cooperation and collaboration between OASIS technical committees (TCs) and with the committees and working groups of other standards development organizations (SDOs) by sharing information about work being developed. The multi-level registry will store information about the SDO (including OASIS), its committees, and work, specifications, and glossary entries developed by the committee.

The registry will be developed in phases, as follows:

- Phase 1: OASIS information only (TC status, specs, glossary, etc.) All functionality in place, but only used for OASIS information.
- Phase 2: Open to submissions by other orgs; no additional functionality; migration of XML.org Registry schema objects into the registry.
- Phase 3: Additional functionality for federation (i.e. linking to other orgs' registries; cross registry searching).

This RFP is for the first phase only, but the registry must be built such that the additional functionality of Phase 3 may be added later. The target launch date for the first phase is 2Q2003.

Description of the OASIS Registry

- The registry will have a layered model; each layer is its own database, all linked relationally in a hierarchical pattern as follows:
 - The root layer is Market, which points to the SDO layer and to the Company layer
 - The Company layer points to individual companies
 - Companies point to Products and to Specifications; many-to-one relationships are allowed, as multiple companies can cooperate in the creation of a single product or single specification, and each individual company can also produce multiple products and specifications.
 - Products and Specifications can point to each other (i.e. a product can be based on various specifications, and a specification is implemented in various products).
 - The SDO layer points to individual SDOs. (Phase 1 will have only OASIS; Phase 2 will include other SDOs.)
 - The SDO (e.g. OASIS) will point to individual Technical Committees (TCs). The SDO can also point to groups of TCs (i.e. OASIS Joint Committees and Member Sections) which in turn point to the individual TCs.
 - Each TC can point to Specifications and Glossary Entries.

- Each Company, SDO, Product, TC, JC, Glossary Entry etc. will have metadata (to be defined by OASIS by the start of the development project; based generally on Dublin Core).
- Each Specification will use the Standards Registry metadata, and will point to the specification document that may be stored in this registry, in the Kavi document repository, another registry belonging to another organization, or a URL.
- The Kavi system (or other applications) must be able to query or update the Registry for metadata associated with a TC and for metadata associated with a Specification.
- Entries for any of the above levels can be submitted by an authorized submitter, who will be pre-qualified by the admin to ensure that the person is the proper authorized representative of the OASIS TC (or later the other SDO). The registry will authenticate this user either by a username/password login or through a digital certificate.
- To submit information, the submitter must first be authenticated, then select the type of information to submit. Fields for metadata corresponding to the appropriate layer or object will appear on the entry screen. Links to levels higher or lower in the hierarchy can be entered also; searching functionality must be provided in order to make matches to establish these links. After completion of data entry the server should send via email a summary of the submission to the submitter, who must approve the entry by returning a token before the information is entered in the registry. The submitter should also have the ability to edit the information before returning the token.
- Users may search registry information by type (hierarchical level), fields associated with each type, etc.
- The GUI for data entry and searching should be user-friendly and intuitive, and should not require documentation to use. Pull-down lists and other such user helps should be used.
- The registry should have API support (i.e. a documented programmatic interface into the registry) to facilitate integration and/or connection to other registries, in order to allow for automated queries and updates by other systems (Kavi, other orgs' registries, etc.). Permission will be required for data updates by other systems.
- The registry software system should provide Admin tools to allow editing/deleting of users and submissions, usage and traffic reporting, resetting passwords, etc.
- The registry should be architected so that (for Phase 3) federation capabilities can be added at a later date (a user can perform searches across multiple registries with a single query). The registry should provide publishing/subscribing capabilities, so that external organizations can submit information into the registry through an API, so that OASIS can publish information out of the registry to other registries, and so that users of the registry can subscribe to receive automated periodic updates of selected information.

Development/maintenance requirements

- Proposals should include development of the entire system; alternatively, the proposal could include a foundation that can be built upon with minimal development resources (i.e. OASIS internal resources).
- Proposals should include one year maintenance agreement for software patches and bug fixes.

Platform requirements

- Registry application must be based on an OASIS specification (i.e. ebXML Registry or UDDI)Application should run within an open source framework i.e. the application's supporting framework (server OS, application server, database server, web server, etc) are comprised of open source components.
- Application should support a distributed architecture.
- Registry should run on Linux or Solaris server (or, proposal must include provision to OASIS of other hardware, OS, and maintenance/service contract).
- Base registry must include an API

Proposal requirements, selection criteria

- The proposal must state how the above requirements will be fulfilled, and a proposed timeline for architecture, development, implementation, and rollout.
- The proposal should include the cost of registry software, development and maintenance resources, etc. and how the cost can be fully or partially offset by non-cash considerations such as exchange for OASIS portal sponsorships, public exposure/recognition, etc.
- Preference will be given to OASIS Sponsor members first, then to other OASIS members, then to non-members.

Interested parties should notify OASIS (via Karl Best at karl.best@oasis-open.org) within seven days of their intent to submit a proposal; completed proposals are due after 15 days.