



GLUE schema

Context

- Abstract modelling for Grid resources
- Mappings from the abstract schema to concrete schemas used in Grid Information Services (GIS)

Description

- Current projects that are participating in this activity is EGEE, LCG, OSG, Globus, NorduGrid
- Current release is 1.2, 1.3 working version
- Glue Schema specification 2.0 in planning
- The schema is defined in various UML diagrams

GLUE schema use case

- Grid resources must be described in a precise and systematic manner to be discovered
- Specification provides an abstract modelling for Grid resources that can be used to define mappings to concrete schemas for Grid information Services
 - Mappings into LDAP, XMLSchema, OldClassAd

GLUE schema specification

- presents a description of core Grid resources at the conceptual level by defining an information model, that is an abstraction of the real world into constructs that can be represented in computer systems (e.g., objects, properties, behavior, and relationships)
- proposed information model is not tied to any particular implementation
- can be profitably used to exchange information among different knowledge domains
- Glue schema can also be mapped on data models that are specific of GIS's
- Site
 - administrative concept used to aggregate a set of services and resources
 - these set is installed and managed by the same set of persons (administrators)
 - Properties: SysAdminContact (Email), SecurityContact (Email), Location, Latitude, etc.

GLUE schema core entities

- include the site concept and an abstraction for the service concept
- A site can aggregates n clusters, n StorageElements, n Services (that consist of n ServiceData)

Links

- <http://glueschema.forge.cnaf.infn.it/Main/HomePage>