

Canonical Model Management- Getting more from Oracle’s Application Integration Architecture

Oracle’s Application Integration Architecture (AIA) provides common business objects and an architectural starting point for building integration. AIA can save a great deal of effort but igniteXML customers who have chosen AIA as the basis of their canonical model understand that Oracle’s packaged integrations are not 100% complete, they need to be customized, extended, and augmented with other physical and logical models. Instead of treating AIA as the canonical model it is used as a component of the model and tailored to the enterprise, domain, or project. This is true both in terms of aligning it to the logical business models and processes that already exist and in terms of opening AIA up to non Oracle systems and standards. AIA provides a fast track to a canonical based approach, especially if the majority of backend systems are also from Oracle, but customers will need to build up their integration practices, customize and create new Enterprise Business Objects (EBOs) to meet their integration needs, and own the ongoing maintenance of the model.

While there is the ability to extend AIA natively this is difficult to do, especially on a collaborative basis. Instead of working at a file level trying to navigate models and multiple versions using a schema editor, integration and architect teams want a collective repository for consolidating multiple reference models that will be used to extend EBOs, version and manage changes to the EBOs, map the canonical to data models, logical models and industry standards, and ensure XML messages are created from the canonical.

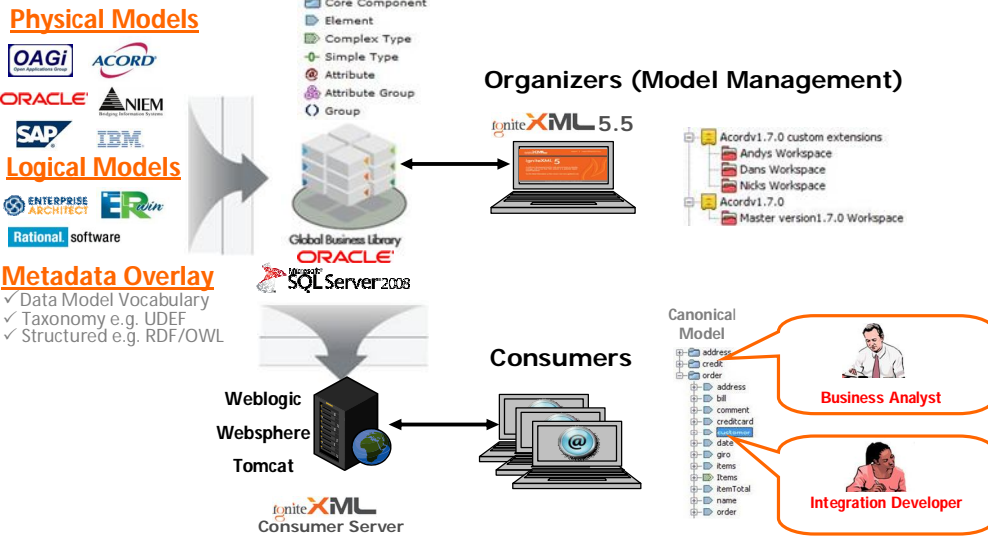


Customer Specific EBO’s & EBM’s

With igniteXML, this is enabled by easily importing AIA and breaking the model down into our patented (USPO 11/258,416) object model in a way that can easily manage future updates from Oracle. These components can be combined with other imported components from logical models (e.g. from Enterprise Architect or Erwin) as well as from other physical industry standard models like OAGi, ARTS, and STAR. When changes are made or updates received from the standard bodies, igniteXML provides a governed process for pushing out updates and shows the impact analysis of the changes at a component level. In addition, metadata such as mappings between EBOs and existing data models or trading partner exchanges can be overlaid onto the objects to create a semantic relationship between objects that have the same meaning but different naming conventions. This allows Architecture teams to capture and create a reusable vocabulary, build up a shared asset that project teams can reuse, and eliminated multiple mapping spreadsheets that are ungoverned and inaccurate.

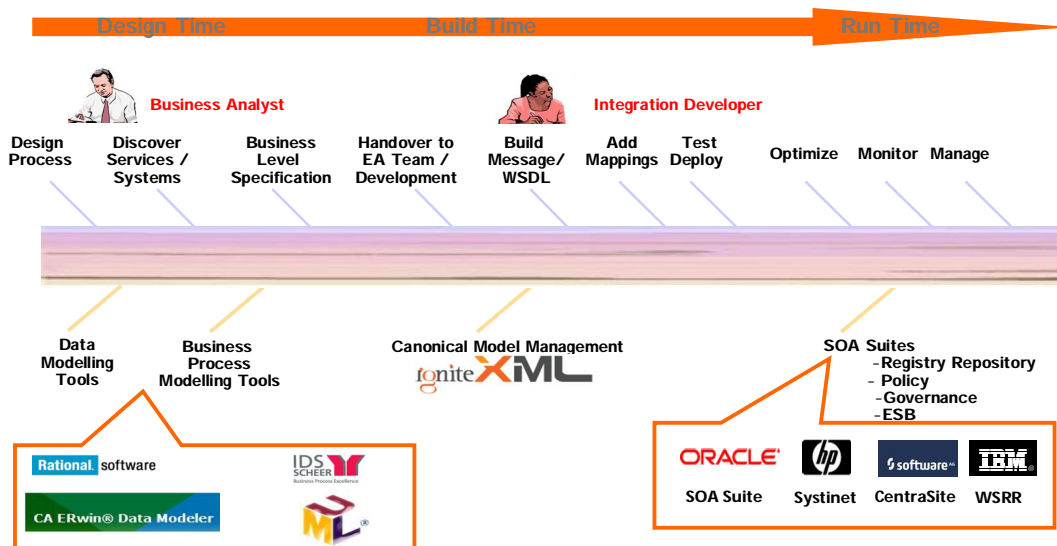
Having combined all these elements into an enterprise specific canonical model (or a set of project or domain models) there is the need for the consumers of this model, typically Business Analysts and Integration Developers, to easily find the pieces of the model applicable to their development requirements and generate small subset EBOs and EBMs. This is achieved using the igniteXML Consumer Server (ICS). ICS is a web environment which is specifically aimed at the consumers of the canonical model. Using ICS, analysts can easily specify what parts of the model to be used for the XML messages and integration developers can easily build runtime messages and mappings from the model. The output of igniteXML, a model derived XML message with documentation and a vocabulary map specification report, are all 100% conformant to the AIA standards and are trimmed down for maximum efficiency in the runtime environment.

Import , Organize, Publish, Consume



igniteXML also enhances existing investments in Oracle Fusion as well as MDM offerings as it serves to bridge a vital gap between modelling and runtime management ensuring governance and data alignment.

Integration touch points



digitalML, the makers of igniteXML, is the enterprise Canonical Model Management company. igniteXML is used by Integration and Service Oriented Architecture (SOA) teams in Fortune 2000 and large Government organizations. Through patented technology, igniteXML has changed the ways that customers manage and ensure adoption of their Canonical Model.

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