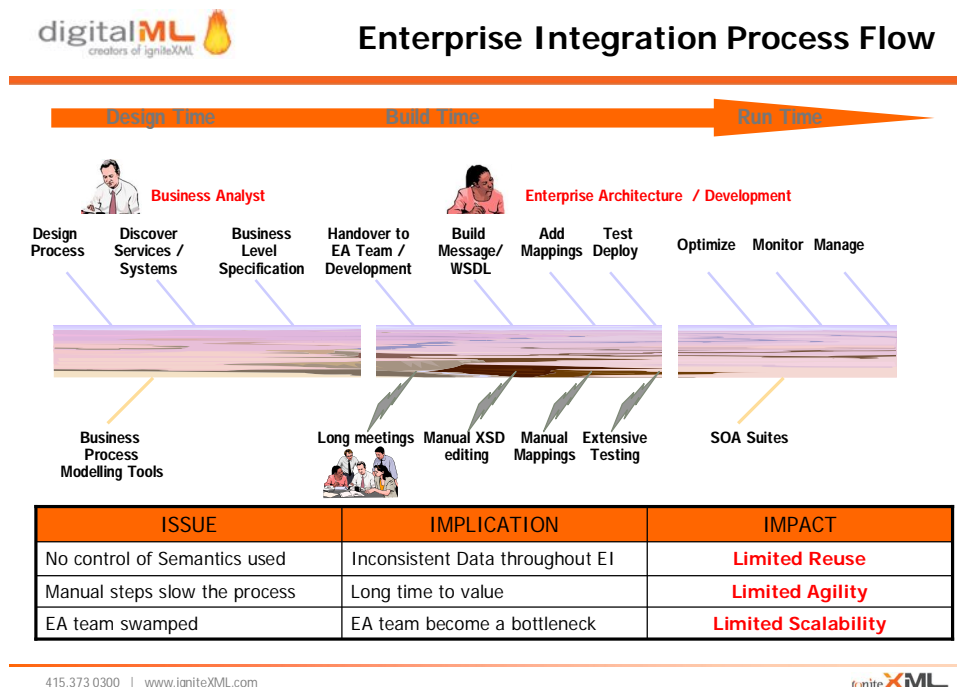


## Combining Logical and Physical Models in a single Canonical Model

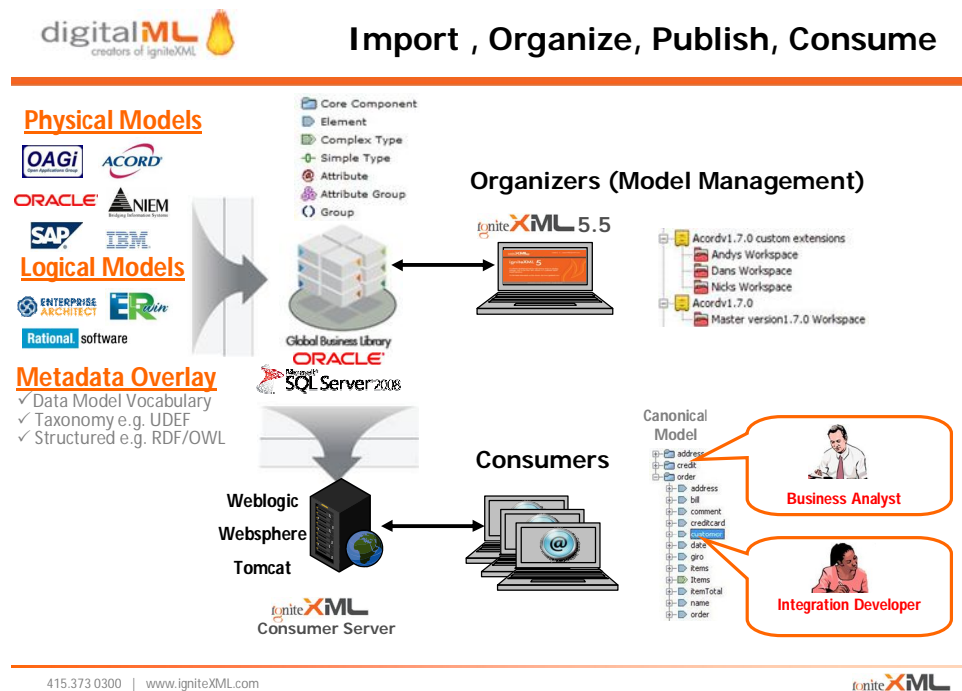
Most Enterprise Integration efforts suffer from a similar challenge: Business Analysts think in one way, developers in another, and both are asked to use models created by Architects. This gap is often reflected in the tooling used by the different groups. Architects and Data Analysts like to use logical modelling and process modelling tools like Erwin and Enterprise Architect. These tools are very powerful and excellent for what they do, however they work at an abstract level and consequently it is hard to get them to generate the physical XML messages and mappings required to be implemented in the run time and often have to be augmented with multiple spreadsheets.



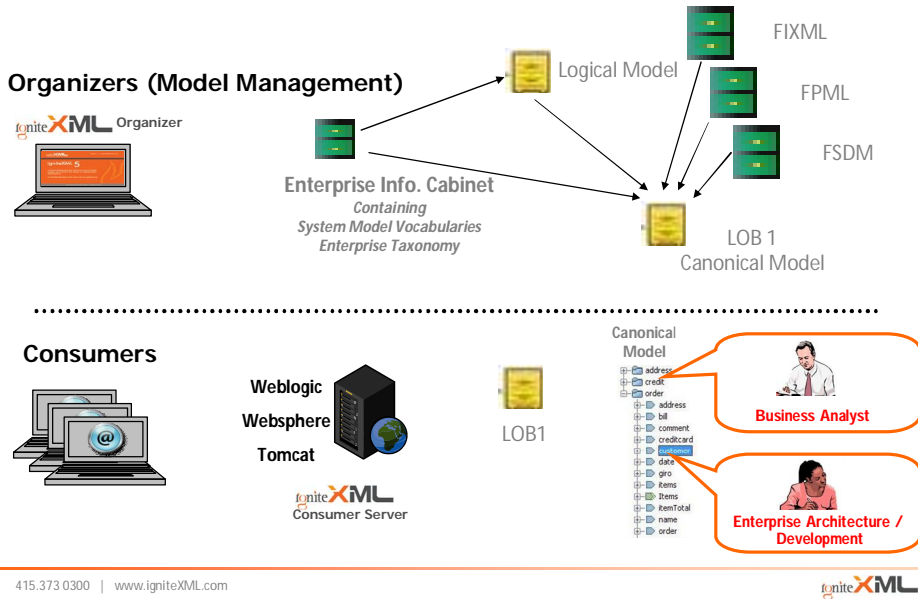
This approach forces developers to interpret the output from the logical models, manually manipulate XML Schemas to try to build the runtime messages and mappings required, and try to stay aligned to the common business language while meeting project deliverables. This process is time consuming, error prone and results in inconsistencies in the messages as well as messages that are bloated and slow down runtime performance.

The solution to this issue is to have a Canonical Model for data in motion which is constructed from a combination of components from both the Logical Model and the physical model. This model is then overlaid with the metadata required to map the Canonical Model to the existing systems and managed and made available as reusable components in a collaborative repository.

igniteXML is the only solution available that allows organizations to achieve this Canonical Model Management and Adoption. igniteXML has two components; the Organizer and the Consumer Server. The Organizer is used by the Model Managers to collaboratively build and maintain the Canonical Model. Here the Organizers can easily import Logical Models and physical models (e.g. OAGi, FIXML, FpML, ACORD) into separate “Cabinets.” They then create a Canonical Model Cabinet where they pull in pieces from the two models to construct the combined model. In addition mappings can be overlaid onto the model as metadata on the model components. This allows the Canonical Model to map back to the Logical Model and maintain data lineage.

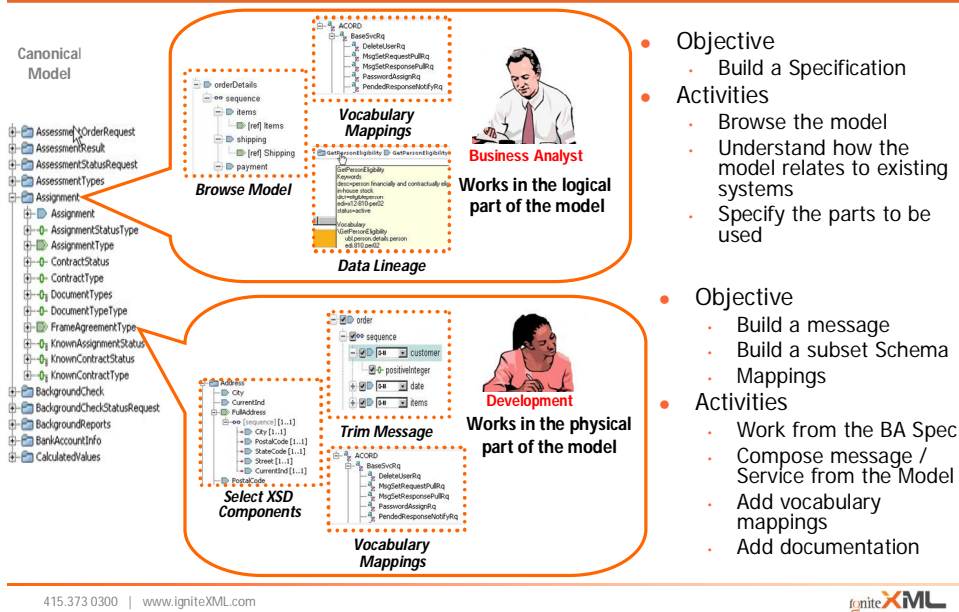


## To...Cabinet Structure



With this done the model is ready to be published to the igniteXML Consumer Server. This is a Web Server product which allows Business Analysts to build specification for the parts of the model to be used and how they should be used. These specifications can then be used by the Developers to automatically build runtime optimized messages and services that are derived from the Model along with the required mappings to the back end system.

## Using the Model at different levels



By allowing organizations to combine Logical Data Models with physical models and overlay metadata, the Canonical Model Management approach ensures Architects, Business Analysts, and Developers are all able to use a common business language. This approach ensures the significant information exchange requirements with business partners and internal applications are met and the models and metadata are managed over time and across multiple versions. The Canonical Model becomes easy for analysts and developers to consume, and use of the model becomes faster than continuing to build point-to-point interfaces.

### **digitalML**

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.

#### **North America Corporate Headquarters:**

digitalML-USA Inc.  
580 California Street, Suite 1600  
San Francisco, CA 94104  
Tel: 1.415.373.0302 Fax: 1.415.373.0307  
Email: [jbogard@digitalml.com](mailto:jbogard@digitalml.com) and [support@digitalml.com](mailto:support@digitalml.com)

#### **UK Corporate Headquarters:**

digitalML Ltd.  
Atrium Court  
The Ring  
Bracknell, Berkshire, RG12 1BW  
Tel: 44 1344 390542  
Email: [jsindall@digitalml.com](mailto:jsindall@digitalml.com) and [support@digitalml.com](mailto:support@digitalml.com)