

igniteXML

Customize and adopt defence sector standards, including DoDAF to create your Canonical Model



Model Manager



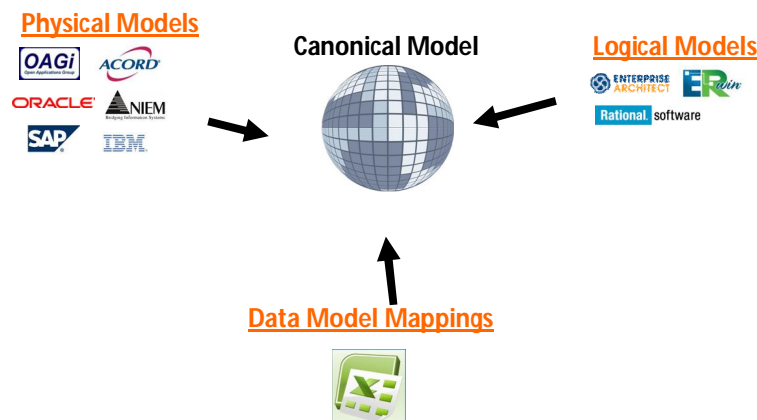
Business Analyst



Integration developer

The defence sector has over the years collected a huge number of information system silo's making point-to-point integration very complicated and hugely expensive. Many organisations are implementing non point to point Enterprise Integration strategies and in doing so, have realized it is essential to adopt a single Canonical Model to ensure data interoperability for data in motion.

Multiple sources blended into a single model



An effective Canonical Model will need to span both the Logical level (so it can be understood by the business) as well as the Physical Level, as ultimately it will be used to generate XML messages with their mappings to backend systems.

There is often great value in leveraging industry standard physical models as the basis of an organizations or project's Canonical Model. For example, the most commonly used standard in the defence sector is DoDAF. These standards have created a well defined and general message standard that addresses message content, naming standards and message architecture using common business language. These can be a great starting point for finance sector organizations looking to apply a reusable, extensible and open standard to their modelling approach.

The flip side of these standards is that they are very large, as well as being complex, especially when it comes to extending them to fit your specific circumstances.

Consequently most people who adopt these standards need to find a way to easily extend them and trim the combined model (model + custom extensions) in order to produce runtime payloads that are efficient.

In the schema management world this is very hard to achieve. Multiple versions of the model are created by multiple people as the Canonical Model is created and updated to meet business and integration needs. Each version needs to be collaboratively managed which is very hard to do when using XML Editors and Source code repositories in the Schema Management world. This task becomes even harder when the standard is updated and the task is to try to work out the implications of the changes to the extended model and XML schemas used in production.

XML messages that are created from the model should ONLY contain what is need for the message requirement. For example using DoDAF and a schema editor, it very hard to trim the standard down. Consequently many early attempts to adopt these standards result in messages with a lot of “schema bloat”. This can have a huge impact on performance. We recently worked with a company that were stuck in the schema management paradigm and were deploying messages across their ESB that were so large they had to switch off the validation options due to performance reasons. This is a high risk strategy.

Re-using the Model NOT XML Schema



In the Canonical Model Management world, schema is decomposed into an object model where every object is individually managed in a collaborative repository. Extensions, updates, changes, versions, and impact analysis are done at an object level with a role based approval process. Model managers are able to attach metadata to individual objects to provide data lineage, drive model adoption, and assist with mappings.

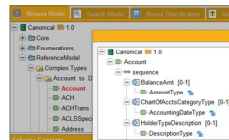
It is easy for the model manager to import standards like DoDAF into igniteXML. When doing so these large models are automatically broken down into our object model which mirrors the structure of the schema world. Once imported, the model is easy to extend in a way that takes account of the need to handle later updates from the standards bodies.

The model is made available to integration developers and business analysts as reusable objects allowing them to easily navigate the model, find what they are looking for, build or reuse specifications and select components to auto-generate XSD messages and mapping reports.

The integration developers can make full use of the web based trimming functionality in igniteXML to remove the schema bloat and produce runtime optimized messages and schema that are 100% compliant with the standard but are a fraction of the size. This ensures all messages are consistent and derived from the latest version of the model – igniteXML combines governance and reuse.



A common reference point for all



Business Analyst

Reference the model in specifications



Integration Developer

Build Messages and mappings from the model

- All messages
 - 100% consistent
 - Optimized for runtime
 - Clearly understood
 - Easy to maintain
 - Mapped to data model

- The result...
 - Reuse and Agility
 - Runtime performance
 - Less work
 - Lower costs
 - Data governance

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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