

Common Information Model Workshop

A Common Information Model (CIM) can overcome semantic chaos by enhancing your ability to define and manage how data is described, structured and organized into messages that are meaningful to your business. Governance, Risk Management, and Compliance (GRC) and security policies are provided the precision needed to be effective. Integration and SOA programs

There is no ideal CIM; you must design your CIM to meet your specific business realities. Participants will learn in this 3 day seminar the architectural principles that underlie a successful canonical information model, work together to examine existing efforts and collaboratively derive a model most suitable for your organization. A follow-on 2 day working session to reorganize existing work and create an initial CIM helps assure that the seminar has ongoing value to the organization.

Goals

- Assure a working understanding of XML and XML Schema
 - Review existing schemas such as MISMO, IFX and OAGIS
- Understanding of XML based information architecture principles
 - Validation strategy
 - Design guidelines
 - Canonical architectures
- Align CIM development processes with the organization's processes
 - How to maintain and develop a CIM
- Develop a customized CIM Architecture

Deliverables

1. All workshop presentations and papers
2. Customized XML Schema Best Practices Document
3. Customized CIM Architecture Documentation

Participants

The workshop is designed for data architects, as well as IT management and development professionals. Ideally, the workshop will have participation from all the teams required for a successful SOA program: including members from EAI, B2B, messaging middleware, service bus, XML integration appliance operations teams.

Agenda

1. Pre-workshop Session – Introduction to XML and XML Schema
2. Introduction
 - Canonicals – definition and challenges
 - Barriers and Semantic Chaos
 - Goals: visibility, variability, flexibility
 - Run v. Design-time solutions
 - Reconciliation – mapping and transforms
 - *Exercise – Goal Discussion*
3. Governance Overview

4. Validation
 - Purpose of schema
 - How, when, what and where to validate
 - *Exercise – Outline your Validation Strategy*
5. Development Processes
 - 9 steps to creating a CIM
 - *Exercise – Overlay CIM lifecycle with your project lifecycle*
6. XSD Design Guidelines
 - XSD mechanics and best practices
 - Namespaces and structural components
 - Structure: Salami Slices, Venetian Blinds, and Russian Dolls
7. CIM Architecture
 - Canonical data, schema, model
 - Vocabulary Based Design: levels and ontology
 - Structure Overview: atomic types, core components, business components, messages
 - Component Examples: CCTS, OAGi, UBL
 - Naming standards
8. Atomic Types
 - Review datatypes
 - Best practice review
 - *Exercise: CIM datatypes*
9. Core Component Types
 - Component development
 - Canonical implementation(s)
10. Business Components
 - Identifying business objects
 - Creating reference models
 - Business Objects
 - Class models
 - Context
 - Facets
11. Message Structures
 - Nouns and Verbs
 - Request/Response models
 - Namespaces
 - Versions
12. Preparing the vocabulary for sharing
 - Terms and the dictionary
 - Reference models
 - File organization