

SOA, Semantics, & Data Science

Example Projects and Domain Solutions



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The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Topics Summary

- **Domains**
 - Domestic and International
- **Project Areas**
 - Round up of current work
- **Technology and Resources**
 - Tools, Links and Project Sites



- Visual tools
- Drag and drop mapping
- Code-free methods
- Open source
- NIEM XML, JSON, PDF, SQL
- BPMN

Sample Domain Areas

➤ DoD Corp of Engineers

- COBie Smart Building initiative

➤ States

- Election Night Results reporting
- California Child Welfare Courts Application

➤ Municipal

- Pharmacy and Shelter facilities search

➤ Federal

- Education and PESC new NIEM domain
- State Department – Person lookup services
- CBP – TRADE export standards update



International

➤ Canada

- NIEM adoption tools support – French / English

➤ Mexico

- NIEM adoption tools support - Spanish

➤ Europe

- JOINUP project participation
- GITB test bed
- Language localization – French, Spanish, Italian and Norwegian

➤ Japan

- METI project participation for Open Data and government
- Japanese language localization



Project Specifics

➤ California Child Welfare PoC

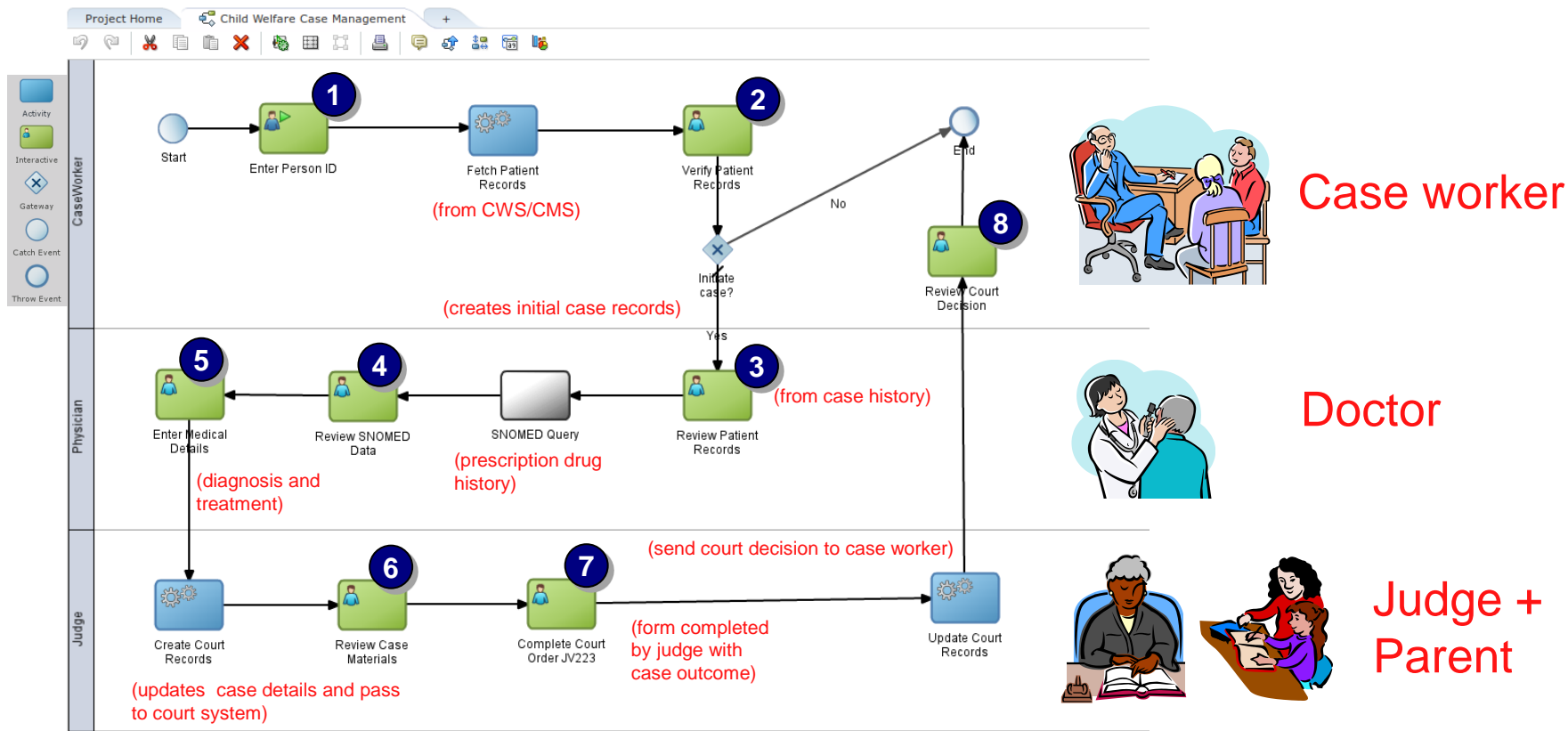
- SOA + Oracle BPM + Open-XDX web services
- Rapid development using the Oracle platform and tools
- XML and JSON services built from SQL stores
- NIEM Court Report exchange
- Fillable PDFs bridge from legacy process
- Open source resources

➤ Chicago Pharmacy search

- Open Data APIs from SQL database via JDBC / DNI
- Drag and Drop visual code-free methods
- Deploy to Java hosting service
- Open source solution stack

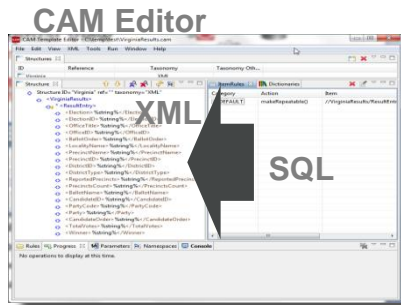


Business Process Workflow Diagram (WYSIWYE)



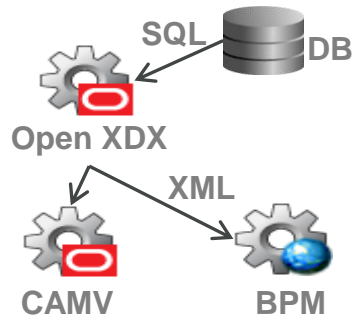
Development / Deployment Conceptual View

Design



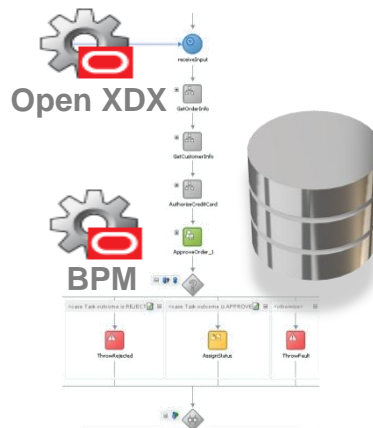
- Visual Editor
- SQL Browser
- Dictionaries
- Drag and Drop

Test



- Generate Data
- Validate Data
- Share Data

Deploy



- Open XDX
- Web Services
- Oracle BPM

Delivery



- Device
- Browser
- Server

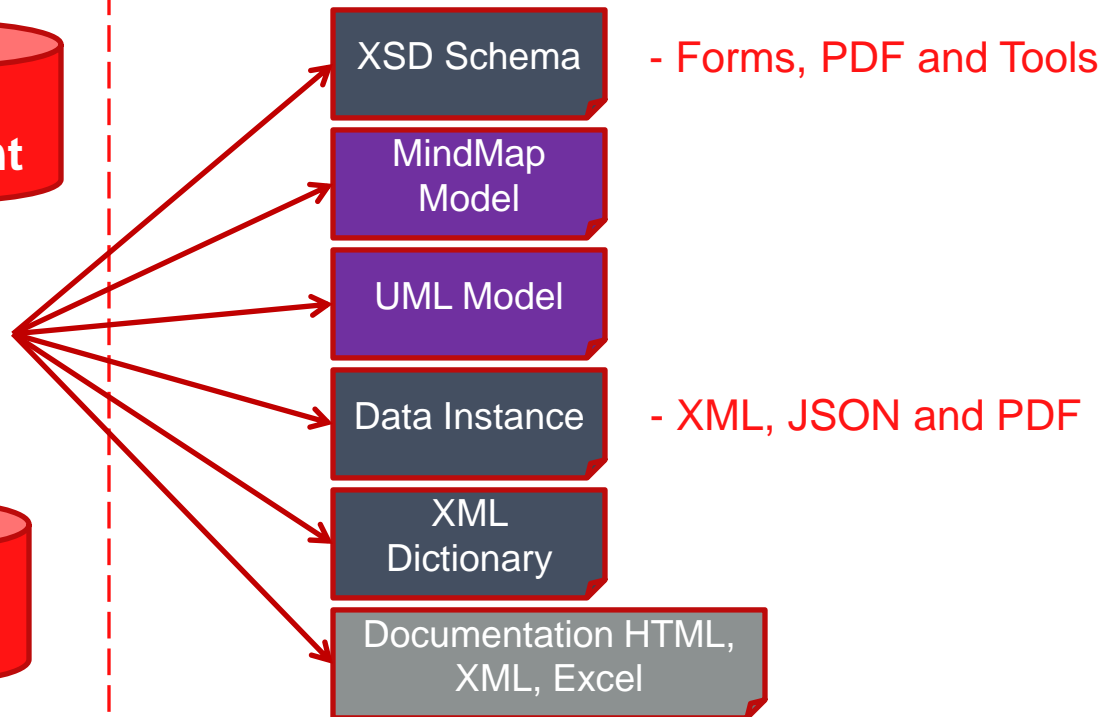
CAM Editor Tools

Visual Editing and Mapping



SOA / NIEM solution artifacts

Target Renderings



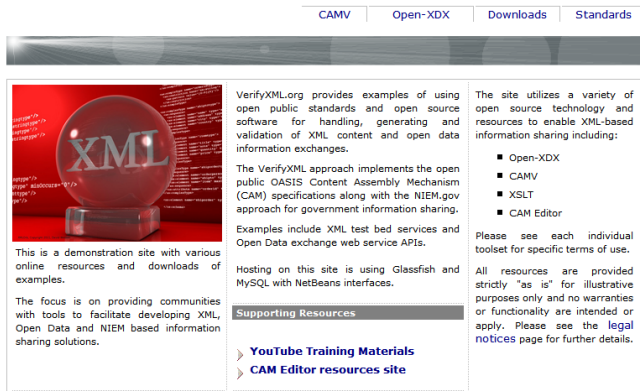
Resources and Links

- Open-XDX and CAM editor software tools
 - <http://www.cameditor.org>
- Product Information on Oracle BPM Suite
 - <http://www.oracle.com/us/technologies/bpm/suite/overview/index.html>
- Java Developer Magazine article “BPM without Barriers”
 - <http://java.ulitzer.com/node/2269751>
- Forbes Article
 - <http://www.forbes.com/sites/oracle/2013/09/05/how-to-convert-data-silos-into-open-data-exchanges>

Open-XDX Specific Resources

VerifyXML

CAMV | Open-XDX | Downloads | Standards



VerifyXML.org provides examples of using open public standards and open source software for handling, generating and validation of XML content and open data information exchanges.

The VerifyXML approach implements the open public OASIS Content Assembly Mechanism (CAM) specifications along with the NIEM.gov approach for government information sharing.

Examples include XML test bed services and Open Data exchange web service APIs.

Hosting on this site is using Glassfish and MySQL with NetBeans interfaces.

Supporting Resources

- ▶ [YouTube Training Materials](#)
- ▶ [CAM Editor resources site](#)

The site utilizes a variety of open source technology and resources to enable XML-based information sharing including:

- Open-XDX
- CAMV
- XSLT
- CAM Editor

Please see each individual toolset for specific terms of use.

All resources are provided strictly "as is" for illustrative purposes only and no warranties or functionality are intended or apply. Please see the legal notices page for further details.

VerifyXML Related NEWS

- 05/09 **White House announces Open Data policy - dawn of a new age of informat..**
The White House today released an Executive Order -- Making Open and Machine Readabl.
- 04/26 **Analysis of JSON use cases compared to XML**
Background Before there was either XML or JSON there was EDI. JSON is very reminisce..
- 03/27 **New CAM Editor v2.4 release with enhanced Collaboration tools**
The focus for this release is improved collaboration support including better dictio..
- 03/02 **Migrate Excel text CSV / SQL Server CSV -> SQL TABLE CREATE / INSERT d..**
Loading CSV text data into a MySQL database table is an art form. Obviously the text ..
- 01/12 **The non-UTF-8 encoding character invalid byte sequences error**
An ongoing issue for XML transactions processing is UTF-8 character conformance. In ..
- 11/05 **XML Rules Engine and Validation Tutorial with NIEM**
Our new XML Validation Framework tutorial video is now available. See how to easily..
- 10/25 **SQL to XML open data and NIEM training video posted**
Learn how to build a working XML query/response system with SQL database accessing a..

www.VerifyXML.org

GitHub



VerifyXML

Washington DC
admin@verifyxml.org
<http://www.verifyxml.org>
Joined on May 13, 2013

4 public repos
1 member

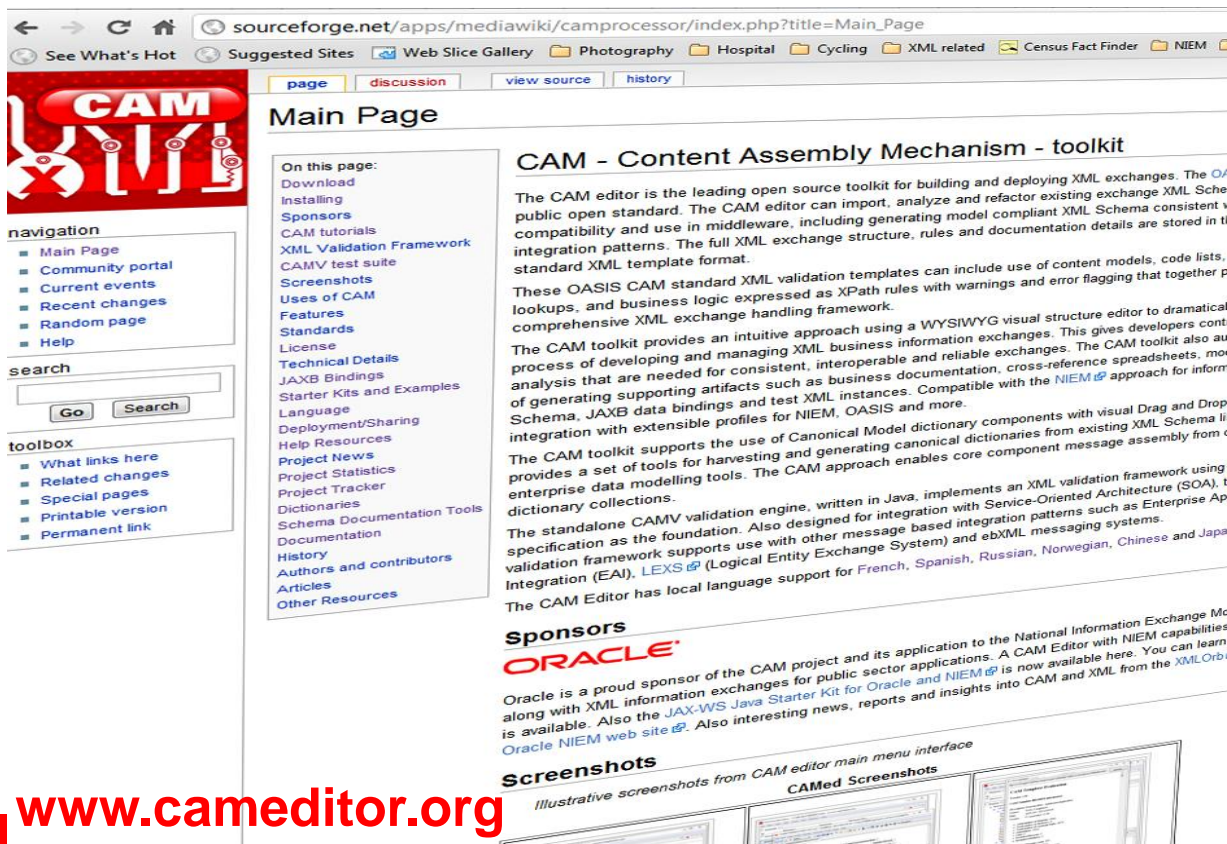
SNAPSHOT OF PROJECT ACTIVITIES

Showcase site for
integration exchanges using
NIEM and Open Data

Global Test bed initiative for
Information Exchange
(GITB)

CAMV validation tools

CAMeditor.org Project Site



SNAPSHOT OF PROJECT ACTIVITIES

165,000+ CAMeditor.org page visits to site

165+ countries have downloaded tools;

30% of visitors are from U.S.;

800+ downloads weekly

3,500+ student views of online video training resources

8 languages now available

www.cameditor.org

www.niemtrainingvideos.org

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