

Global JXDM Developer's Workshop

November 8-10, 2004

NOTES

1. For questions during the workshop email to: pembley@ghinternational.com
2. Practical exercises (PE) may be walk-throughs by instructor, in-class at your seat, or homework.

08 November - DAY 1		Speaker
1300	Introduction	
	Welcome to New York	NLECTC-NE Rep
	Agenda, admin, logistics	NLECTC-NE Rep
	Introductions and opening remarks by OJP	Ken Gill, OJP
	Keynote remarks	Ken Gill
	Industry welcome	IJIS Institute - Tim Wilson & Greg Pierce
	GJXDM definition, purpose, and intended use	Paul Embley, XSTF Chair
	History and background	
	Who was involved	
	How the program started	
	How GJXDM was developed	
	What documents and specs were used	
	Design criteria and benefits	
	Technical overview of fundamental concepts	Paul Embley
	GJXDM Content	
	Parts of GJXDM and how they relate	
	Types and properties	
	Basic object oriented modeling	
	Class hierarchy (Is-A, Has-A, Type-Of)	
	Inheritance and reuse	
	Metadata	
	Data element naming	
	Namespaces and versioning	
	Referencing	
	Relationships	
	Code tables and enumerations	
	Intro to exchange documents	
1440	Q&A's	
1500	Break	
1520	Return from Break	
	Building exchange documents	Paul Embley
	Reference architecture	
	Methodology for build exchange documents	
	Tools and reference aids for Step 2 (of methodology)	
	Spreadsheet	
	Context definitions	
	Standard mappings (e.g. NIBRS)	

Subset schemas (short discussion of rules and tools)
Using the GJXDM spreadsheet

PE: Build a small document schema and instance with GJXDM

	<p>GJXDM Viewer</p> <p>Online GJXDM Viewer GJXDM Viewer static version (HTML) PE: Find some NIBRS equivalent elements</p>	<p>Greg Pierce</p> <p>Tom Carlson, NCSC</p>
<p>Q&A's</p>		
	<p>PE: Familiarize with GJXDM using the spreadsheet, viewer, and schemas</p>	<p>Greg Pierce</p>
<p>1700</p>	<p>Administrative comments and Dismissal</p>	

0830 Start Day 2

Review PE answers

Greg Pierce

Q&A's

GJXDM baseline concepts, design, rules, rationales, exceptions

Ken Gill

Types and properties

Data graphs

PE: Given a simple data situation, build a model and graph it.

Subject and object types

XML schema encoding of data instances

Rendering in XML Schema

Global definitions

PE: Create a local XML instance

Basic object oriented modeling (through GJXDM examples)

How is the justice data model object-oriented?

Data inheritance

Derivation and substitution

PE: Extend a GJXDM type and use substitution

XML encoding: converting data model types into XML Schema types

Simple types

Complex types with

complex content (CCC)

Complex types with simple content (CSC)

Complex types with no content (CNC)

Element or attribute?

0940 Q&A's**1000 Break****1020 Return from Break**

GJXDM baseline concepts, design, rules, rationales, exceptions (continued)

Ken Gill

Metadata

Multiple subject and object types

Dot notation for multiple object types

Ranges

Namespaces and versioning

Organization of GJXDM namespace

Version sequencing

Enumerations (code tables)

Namespaces and external

enumerations (codes)
 base and proxy schemas
 the "xsd" schema
 How to use (examples)
 PE: Using external code tables
 Multiple codes
 Extending a code table (to add your own)
 PE: Extend a code table with your own local codes

1200 Lunch

1300 Return from Lunch

1320 Q&A's

Data element naming Tim Wilson
 Interpretation of ISO 11179
 Authorized abbreviations
 DateTime, Date, Time
 Special cases with examples
 Code vs. Text
 Text vs. Name
 NameName (exception for ORIID)
 Complex elements

Referencing Tim Wilson
 xsd:ID and xsd:IDREF
 Why idrefs have no content
 Using references (examples)
 PE: Using references
 References defined in the Schema

Relationships Tom Carlson
 Sample relationships
 Implementation of relationships
AssociatedWith, SameAs
 PE: Using Relationships

Relationships - Lessons Learned Greg Pierce
 GJXDM schema subsets (and Wantlists) John Matthews, GTRI
 PE: Illustrate full and subset schema validation

1440 Q&A's

1500 Break

1520 Return from Break

Review PE Answers John Matthews, GTRI
 Building Exchange Document Schemas Tim Wilson
 Reference architecture Tim Wilson
 (1) Gather / define requirements Greg Pierce
 Analyze your document requirements

	Tools	Tom Carlson, Ken Gill
Exposure to PE		Tom Carlson
PE solution and questions walkthrough		Tom Carlson
(2) Search, select, refine		Greg Pierce
	Map requirements	
	PE: Create a mapping from a local document to GJXDM	
	Tools, references, work aids	
	GJXDM Subset Generator	Greg Pierce
	PE: Given requirements, search/select components; build baseline schema	
	PE: Generate subset schemas	

Q&A's

10 November - DAY 3		Speaker
0800	Begin Day 3 Q&A's	
	(3) Build document schema	Tim Wilson
	Document structure, OASIS Integrated Justice TC's recommendations Performance Principles Decisions	
	When there are two ways to do same thing When to use elements outside their GJXDM context	
	Document extension How to extend from DocumentType PE: Convert the local schema to a GJXDM schema PE: Convert the local instance to a GJXDM instance	
	(4) Validate conformance	Tim Wilson
	Xerces-based XML validation tool	
	(5) Validate business rules	Tom Carlson
	constraint schemas PE: Constraint schema example	
1000	Break	
1020	Return from Break Q&A's	
	Industry perspective	Tim Wilson
	GJXDM management concepts	Jim Douglas, Paul Embley & Ken Gill
	Who is using GJXDM Operational release 3.0 Governance and control	
	GJXDM Listserv XSTF process Issue and refinement tracking (feedback) Version management	
1140	Q&A's	
1200	Break	
1300	Return from Break	
	Conformance issues How to stay informed How to contribute	
1430	Closing remarks (and evaluation forms)	Ken Gill & NLECTC-NE Rep