

Introduction

This 2 day hands on course is designed for GIS professionals, software engineers and data modellers, who wish to gain detailed knowledge of GML and building GML Application Schema. On completion of the course, attendees will have gained comprehensive knowledge of:

- GML Resources & GML Schemas
- Model Driven Architecture and UML
- Geometry
- Extending Existing Schemas
- Tagged Values, Complex Properties
- Feature Relationships, Measures
- Web Feature Service
- GML Simple Features Profile

Prerequisites

Ideally attendees should attend Snowflake's XML Primer and GML Fundamentals courses prior to attending this course. Should this not be the case, attendees should be familiar with the concepts of XML / XML Schema and have a basic understanding of GML.

Course Methods and Materials

The course will be delivered by PowerPoint presentation and supported hands-on workshops. There will be plenty of opportunity for questions and answers. Materials include hardcopies of course slides and notes, and workshop material.

Workshop Content

Workshops run throughout this 2 day course and use a variety of tools including: XML editors, UML diagramming tools, Shape Change, Snowflake's GML Viewer and GO Publisher Desktop.

Costs

Cost per delegate for this 2 day course is £750 (excl VAT). This includes all materials, lunch and refreshments.

Further Information

For further information, please email: training@snowflakesoftware.com or call us on +44 (0) 23 80 238232.

Course Content

Where do I find things?

- The GML Specification
- Profiles
- OGC Schemas
- Application Schemas
- Tools and Resources

GML Schemas

- GML2 & GML3 Schema files

Model Driven Architecture and UML (with workshop)

- Model Driven Architecture
- UML Packages
- UML Class Diagrams & Stereotypes

Geometry (with workshop)

- Types of Geometry
- Basic Geometries
- Primitive Geometries
- Complex Geometries
- Aggregate Geometries

Extending Existing Schemas (with workshop)

- Dividing schemas between files
- Dividing schemas between Namespaces

Tagged Values

Complex Properties (with workshop)

- DataType & ObjectType
- UML Association

Feature Relationships

Measures (with workshop)

- Units of Measure
- Dictionaries

Web Feature Service (with workshop)

- getCapabilities
- describeFeatureType
- getFeature

GML Simple Features Profile (with workshop)

- Feature Type encoding
- Property Encodings
- Allowed Common Facets
- Conformance Level
- Geometry Restrictions

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