



SNOMED CT and Common Terminology Services 2

Tutor: Harold Solbrig, Mayo Clinic

Audience

Technical – potential implementers and/or consumers of SNOMED CT terminology services.

Learning objectives

An understanding of the purpose and use of the Common Terminology Services 2 (CTS2) specification and how it can be used to publish and access SNOMED CT content and extensions.

An understanding of the purpose for the SNOMED CT CTS2 Implementation Guide – why such a guide is needed for the CTS2 specification as well as why a similar sort of guide would be important for any shared terminology server model.

Outline

The tutorial will cover the following topics

- 1) Introduction to terminology services – purpose, requirements and the need for standards.
- 2) History and status of the Common Terminology Services 2 specification
- 3) Scope and purpose of the CTS2 specification
- 4) Walk through of the IHTSDO CTS2 Implementation Guide
- 5) Implementation examples
 - BioPortal
 - itServer
 - py4cts2
 - NLM Meaningful Use Value Set server
- 6) Discussion of issues and future directions.

Prior reading

1. SNOMED CT Terminology Services Guide http://www.snomed.org/tig?t=tsg2_tsg
2. Release Format 2 in http://www.snomed.org/tig?t=tig_release_files
3. Proposed IHTSDO CTS2 Implementation Guide
https://csfe.aceworkspace.net/sf/wiki/do/viewPage/projects.cts2_implementation_guide_projec/wiki/ImplementationGuide

Additional materials

4. OMG Lexicon Query Services specification <http://www.omg.org/spec/LQS/>
5. HL7/ISO Common Terminology Services (CTS) specification
<http://informatics.mayo.edu/LexGrid/downloads/CTS/specification/ctsspec/cts.htm>
6. OWL 2 Structural Specification <http://www.w3.org/TR/2009/REC-owl2-syntax-20091027/>
7. OMG CTS2 specification <http://www.omg.org/spec/CTS2/>
8. Mayo Clinic CTS2 home page http://informatics.mayo.edu/cts2/index.php/Main_Page