COMM is an ontology for multimedia annotations, expressed in OWL, based on MPEG-7.
- Perfect for generating fine-grained comprehensive descriptions of multimedia assets.
- But results in complex RDF graphs that can make the search for multimedia content inefficient and its selection to an end-user inappropriate → need for simplification.

**Semantic annotations** for each abstract region resulting from the segmentation process. The design pattern enables to have multiple semantic annotations attached to a segment through a single method, i.e. a user can precisely describe the scene using several concepts and properties from domain ontologies.

**Media profile** section describes the characteristics of the digital data that contains the multimedia content. For example, a digital image can be stored in multiple physical locations, in different resolutions (thumbnail, full size), encoded in different formats (jpeg, tiff, png, bmp) and each compression algorithms may have a particular set of parameters.

**Image segmentation** represents a method of segmentation or a run of a segmentation algorithm that can include some parameters. Several methods can be jointly used for describing a segment. Hence, it is possible to represent the collaborative annotations from several users, or the annotation of a user that completes the result from an automatic annotation algorithm such as a concept detector.

Get more information at:
http://comm.semanticweb.org/

Reference