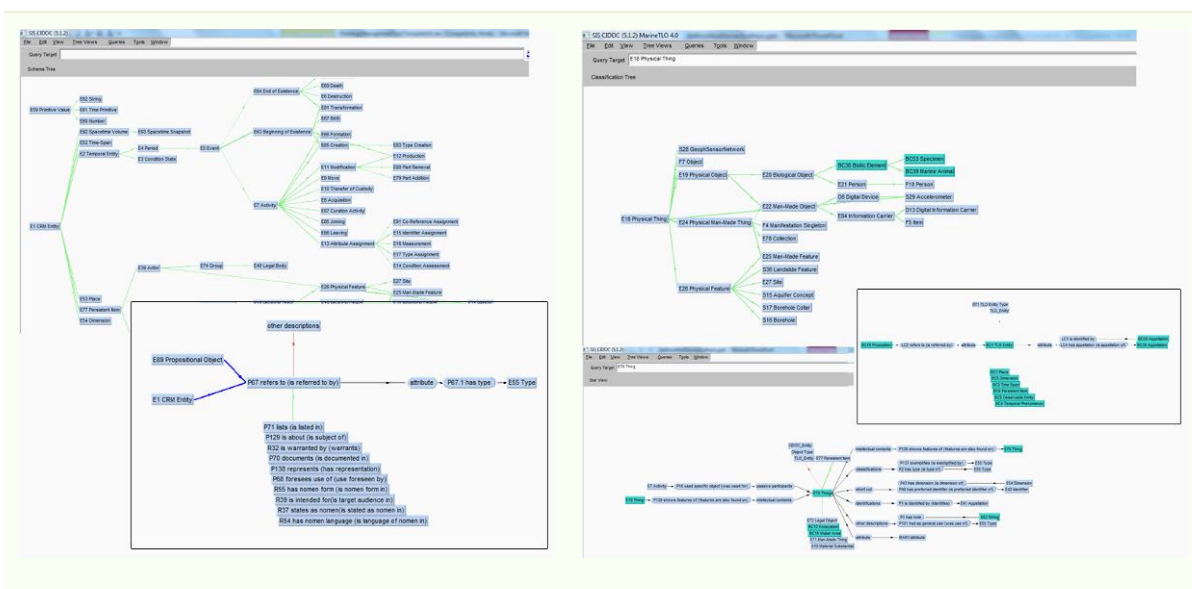# Ontology Management Tool

Overview

The Ontology Management Tool (OMT) is a free, open source **ontology editor and viewer** tool.

OMT is a system to create and maintain ontologies. Its distinct features are the provision of functionality for modifying or creating dynamically individuals, classes, relationships, metaclasses, relationships types within and between ontologies, and the presentation of arbitrary views of the network with colored graphs. It is a unique tool to analyze and view graphically the logical structure and consistency of ontology.

The OMT system is an application of the **Semantic Index System**, a general purpose object-oriented semantic network database, product of FORTH-ICS.

Target Domains

An ontology describes the concepts and relationships that are important in a particular domain. Ontologies range from taxonomies and classifications, database schemas, to fully axiomatized theories. In recent years, ontologies have been adopted in many business and scientific communities as a way to share, reuse and process domain knowledge. Ontologies are now central to many applications such as scientific knowledge portals, information management and integration systems, electronic commerce, and semantic web services.

The OMT can be used for designing, consistency checking, viewing database conceptual models, domain models, and knowledge-based applications with ontologies.
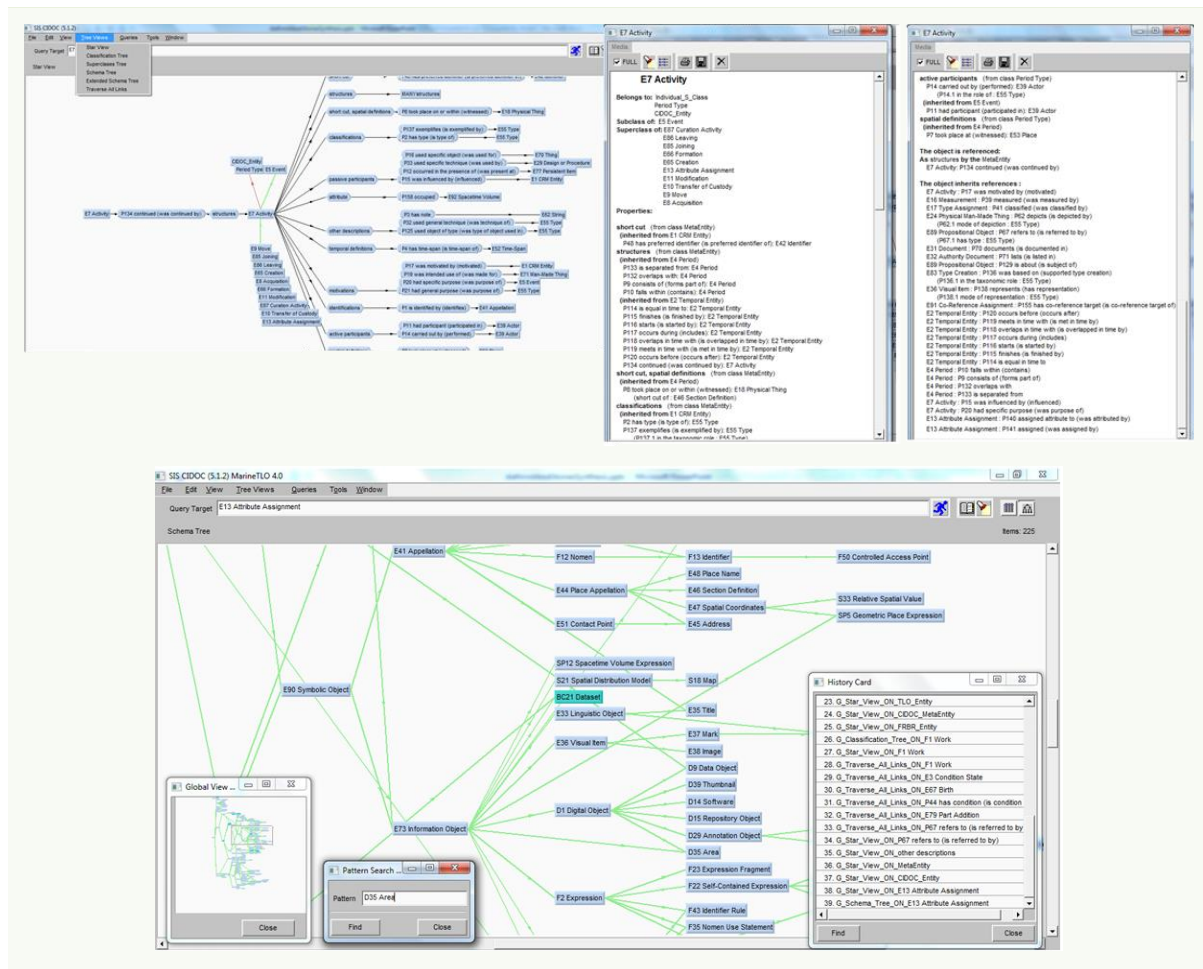
Description

OMT implements a rich set of knowledge-modeling structures and actions that support ontology creation, manipulation in text formats or interactively, and visualization in graph and text formats. OMT can be customized to provide domain-friendly support for creating knowledge models and entering data. Further, OMT can be extended by way of a C++ based Application Programming Interface (API) for building knowledge-based tools and applications.

The OMT graphical user interface allows unconstrained navigation within and between different ontologies and the execution of predefined queries and graphical views to identify concepts for cataloguing.

The OMT Tool supports modeling ontologies via a desktop client. In OMT, ontologies can be entered as a batch text in TELOS statements or interactively.

It has been used in managing and viewing ontologies CIDOC, FRBRoo, MarineTLO.

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