



ENOLA

Developing Domain Specific Languages in MagicDraw

October 2024

About US

LEAVE THE PAST IN THE PAST

IT'S TIME TO EVOLVE, DIGITALLY

WE ARE A TRAINING, COACHING, AND CONSULTING FIRM DEDICATED TO THE RAPID EVOLUTION OF OUR CLIENTS WITHIN THE DIGITAL UNIVERSE. OUR SERVICES ARE DIRECTED TOWARDS:

- DIGITAL ENGINEERING/TRANSFORMATION
- MODEL BASED SYSTEMS ENGINEERING
- ENTERPRISE ARCHITECTURE
- SOFTWARE ARCHITECTURE
- DATABASE ARCHITECTURE
- ONTOLOGIES
- COLLABORATION SERVER MANAGEMENT

MISSION

Enola WILL train, coach, and mentor your staff to be independently successful as quickly as possible.

Yes, our mission is to work ourselves out of a job!

COURSE DESCRIPTION

Developing Domain Specific Languages in MagicDraw is a one-day advanced course designed to provide a basic introduction to the core concepts and features of Domain Specific Languages (DSL) in MagicDraw.

This course provides a mix of module-based lectures and live, hands-on, instructor led demonstration. Our trainers are all experienced practitioners who understand the balance of theory and practicality.

Prerequisites:

Applying SysML with MagicDraw

Required Software:

No Magic's MagicDraw (version 19.0+) with the SysML plugin or equivalent No Magic or Dassault Systèmes CATIA Magic products.

Take-Aways:

- Foundational understanding of capabilities and best practices for developing DSLs in MagicDraw

AGENDA

- Course Introduction
 - DSL Concepts & Overview
 - Profiles
 - Stereotypes
 - Tags & Tagged Values
 - Customizations
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COURSE CONTENT

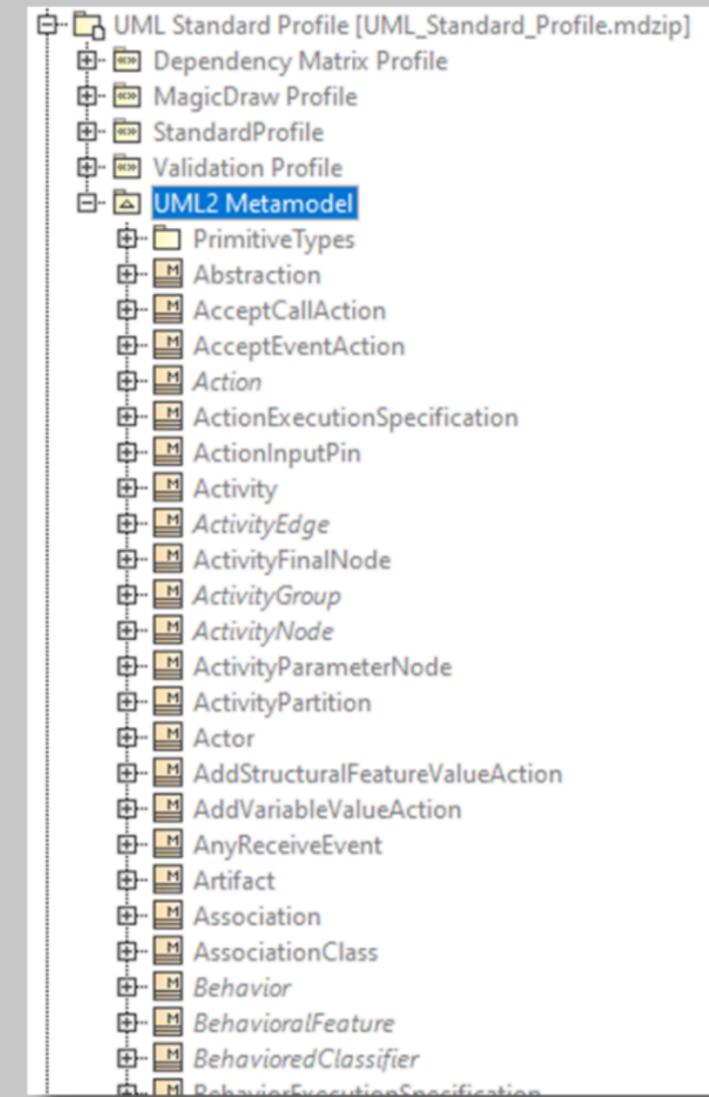


DSL Concepts & OVERVIEW

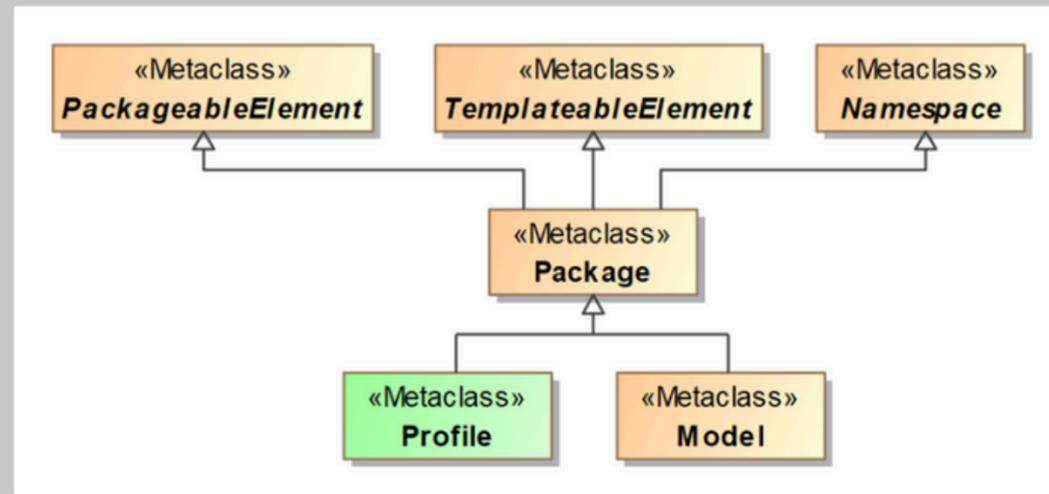
A DSL consists of terms and language associated with a particular domain, like “Power & Propulsion”.

This module covers:

- Key Concepts and Terms
- Metaclasses
- Stereotype vs Stereotyped Elements



PROFILES



A profile is a special kind of UML Package that contains collections of Stereotypes, customizations, domain specific data types, and other elements related to DSL.

This module covers:

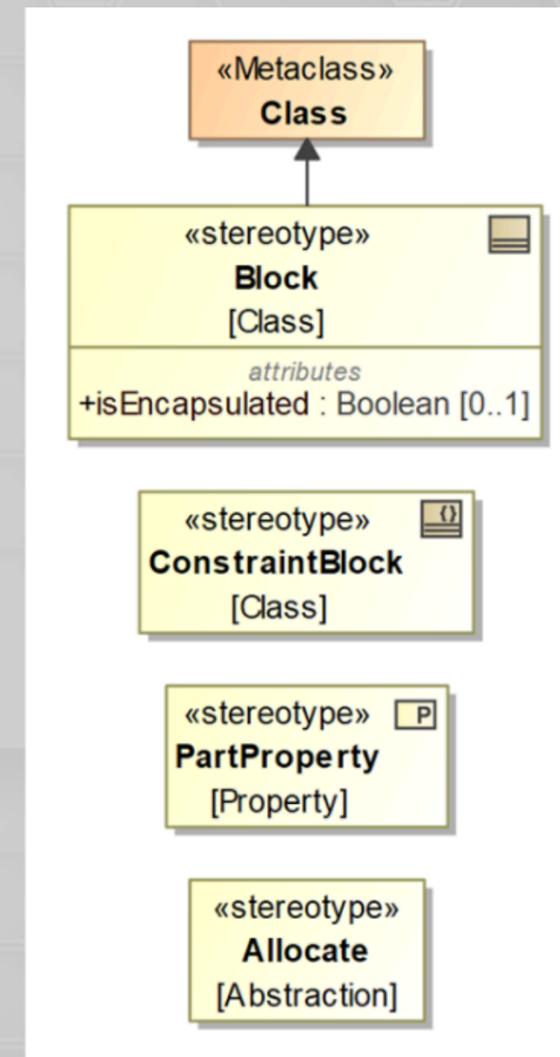
- Profile Overview
- Package Import Relationship
- Profile Diagrams
- Creating Profiles
- Reuse & Management

Stereotypes

Stereotypes are a type of class which defines how and existing metaclass may be extended as a part of a profile, allowing users to extend the vocabulary or UML and SysML.

This module covers:

- Overview of Stereotypes
- Extends Relationship
- Pros & Cons of Stereotypes
- Creating, Editing, and Using Stereotypes
- Core Metadata
- Inheritance
- Applying vs Refactoring
- Invisible Stereotypes

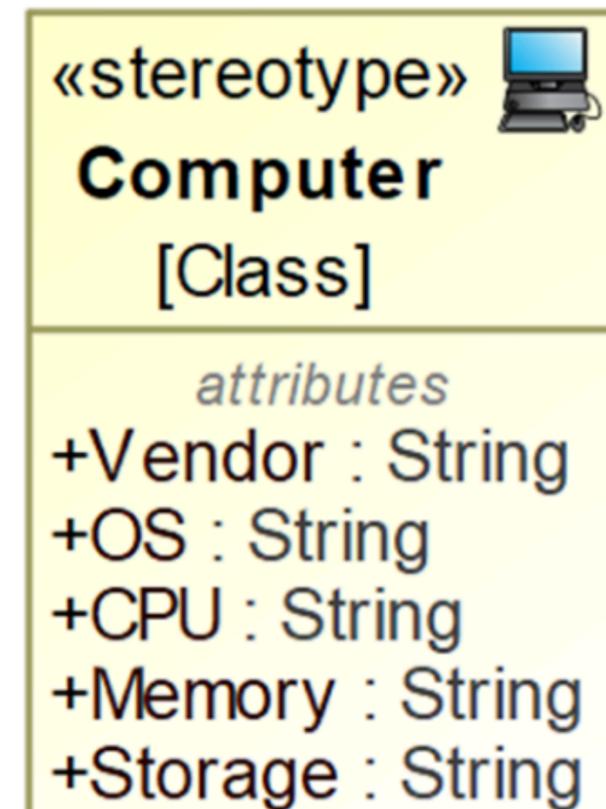


Tags & Tagged VALUES

The properties of a stereotype are referred to as Tags, which add new attributes to the element(s) that the Stereotype is applied to.

This Module Covers:

- Tags Overview
- Tags vs. Tagged Values
- Examples
- Creating Tags on Stereotypes
- Default Values & Multiplicity
- Editing Tagged Values

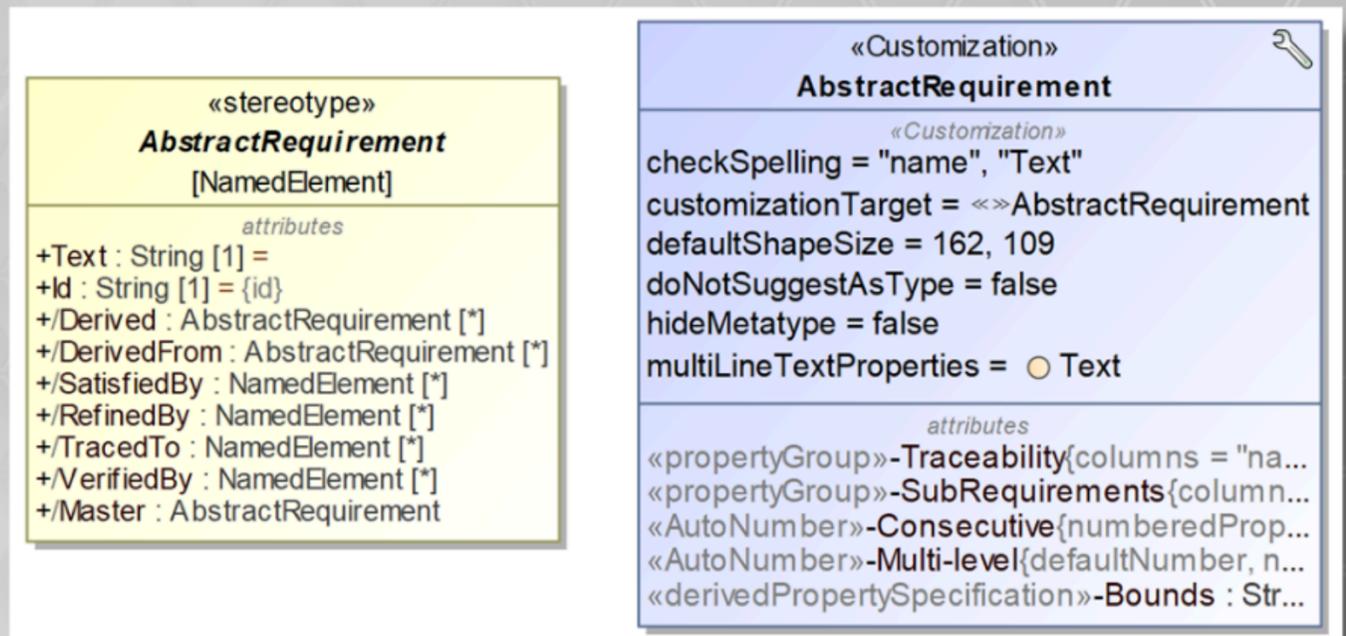


Customizations

Customization Elements and their properties provide a mechanism for more advanced control of the appearance, rules, behavior and more for Stereotyped elements.

Within this module we cover:

- Customization Overview
- What can Customizations Do?
- DSL Development Process
- Customization Element Properties
- Additional Properties





CONTACT US

www.enola.com



training@enolatech.com



+1 877 281 7341



[linkedin.com/company/enolatech](https://www.linkedin.com/company/enolatech)

