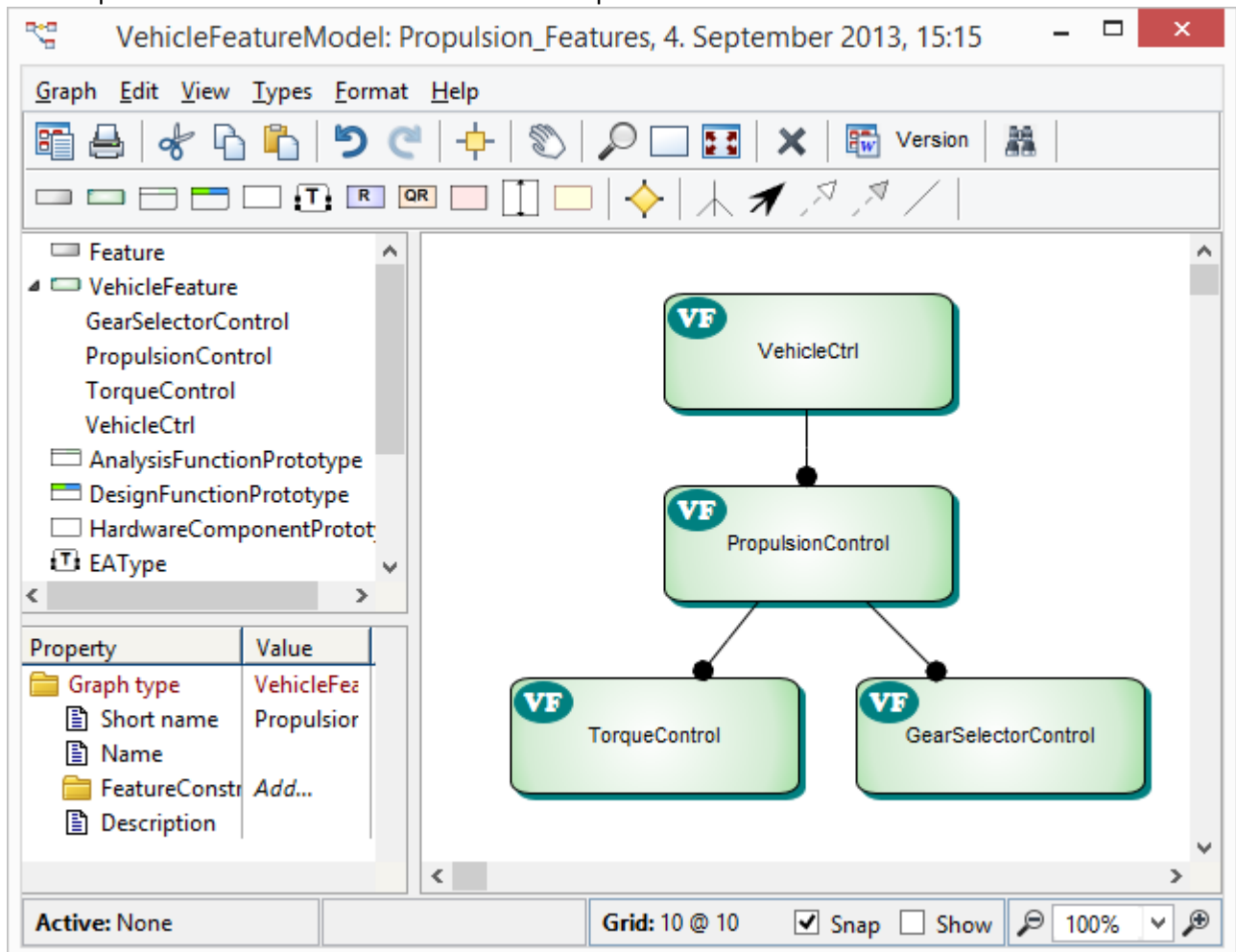# EAST-ADL Example: Propulsion system

- EAST-ADL is used to specify the architecture of Propulsion system. Propulsion system represents a typical powertrain solution for battery electric vehicles.
- Tools used include MetaEdit+ for EAST-ADL
- Parts of EAST-ADL applied:
    - Requirements
    - Features
    - Functional Analysis
    - Functional Design
    - Hardware Architecture
    - Dependability
- Sample model on Vehicle feature model and requirement model

RequirementsModel: PRND_Modes, 5. September 2013, 10:31

Graph Edit View Types Format Help

▲ R Requirement
  PRND_ModeSelection_1
  PRND_ModeSelection_2
  PRND_ModeSelection_3
  PRND_ModeSelection_4
  PRND_ModeSelection_5
  QR QualityRequirement
  RequirementsHierarchy
  RequirementsRelationshipGroup

Property	Value
Graph type	RequirementsMo
Short name	PRND_Modes
Name	
Description	

PRND_ModeSelection_1 Req

Mode switch to Reverse, Neutral, or Drive from the Park mode is not possible unless brake pedal is pressed.

PRND_ModeSelection_2 Req

Mode switch to Neutral from the Drive or Reverse mode is possible when vehicle is moving or standing condition.

PRND_ModeSelection_3 Req

Selecting D from the N positions is possible when vehicle is moving or standing condition.

PRND_ModeSelection_4 Req

Selecting R from the N positions is not possible when vehicle is moving > V_LOWThreshold

PRND_ModeSelection_5 Req

The vehicle defaults to Park when Keyed "Off" and vehicle speed < V_LOWThreshold

Active: None

Grid: 10 @ 10   ☑ Snap ☐ Show   100%