

# The Open Source AADL Tool Environment (OSATE) Graphical Editor 14 February 2019

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#### What is RSESC?

- One of the 10 independent non-profit Research Centers operating under the Office of the Vice President for Research and Economic Development at UAH
- Multi-disciplined and affordable team of professionals with decades of experience in understanding customer requirements
  - Space and earth based mission payload design, fabrication and integration
  - Rotorcraft research, engineering and sustainment
  - Unmanned systems design and integration
  - System engineering, logistics development/management and project management
  - Structural, safety, reliability, failure analysis, and material science and
- Core Member of the ASSURE Team supporting the FAA Unmanned Aerial Systems (UAS) Center of Excellence
- Member of the Systems Engineering Research Center (SERC)
- Vertical Lift Consortium (VLC)
- Member of the C5 and CEED OTA Consortiums

















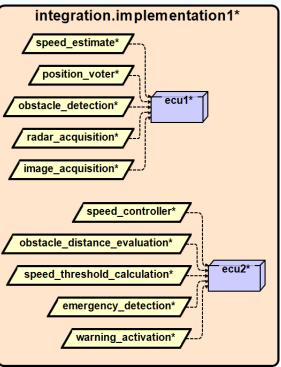


## What is the OSATE Graphical Editor?

- Part of OSATE that allows viewing and editing AADL models graphically.
- Open-source
- Uses graphics defined in the AADL standard.

#### Textual

#### **Graphical**









## Capabilities

- Diagram editing
- Diagram annotations
- Model editing
- Bind model elements
- Display flows
- Display AADL properties
- Automatic layout
- Alignment tools

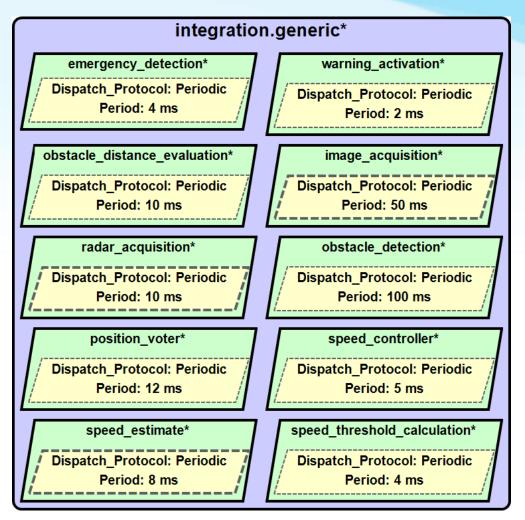


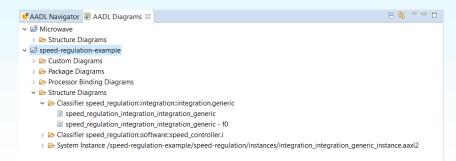
Diagram created using the OSATE speed-regulation example



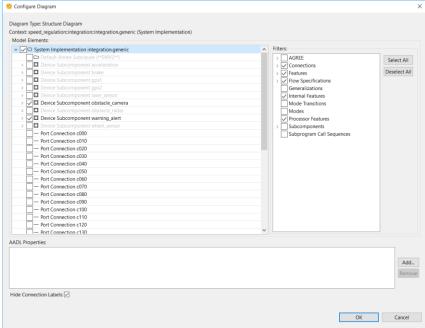


## Capabilities

#### **Navigation**



#### Configuration





## Extensibility

- Diagram contents
- Tooltips
- Properties view
- Menu items

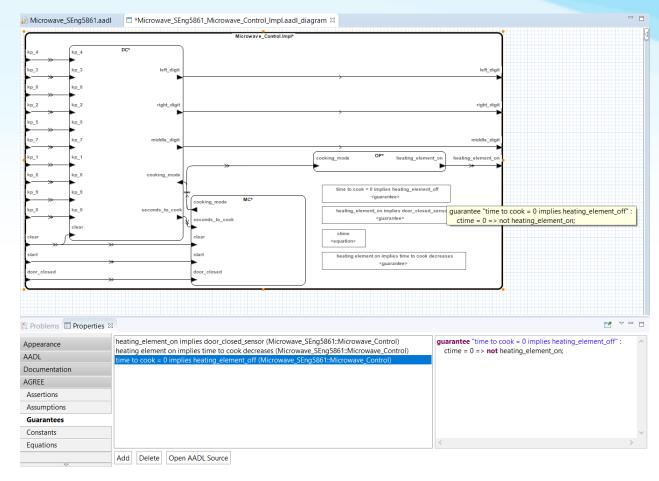


Diagram creating using the SMACCM Microwave example





## **Booth**

- Answer Questions
- Demonstrate capabilities
- Suggestions



