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Standard Form 298 (Rev. 8-98)  
Prescribed by ANSI Std Z39-18
Overview of OSATE2

Eclipse-based AADL editor
- Support for AADL v2.1, up to date with latest standard revisions
- Textual (Xtext-based) and Graphical (Graphiti-based) edition capabilities

Support for quantitative analysis
- SEI-based plug-ins (latency, performance, etc.)
- Third-party plug-ins (code generation, scheduling analysis)

OSS development model
- Public SCM and bugtrack, open to external contribution
- Licensed under EPL license
Statistics update

Code base
- More than 6M lines of code
- Mostly generated

Community
- 1900+ commits over a year!
- More than 20 contributors with ~5 active

Software Quality
- Integrated test suite
- Test Analysis and Model Instantiation

See. https://www.openhub.net/p/osate
Integration of AGREE and RESOLUTE

Collaboration within the AADL/OSATE community

- Hosted on shared github repository (https://github.com/smaccm/smaccm)
- Integrated in the OSATE testing version

Improvements of RESOLUTE

- Support of list and not set for values
- Better casting operations

Integrate RESOLUTE for model validation

- System Requirements (i.e. security, safety)
- Model consistency before invoking other tools (i.e. code generation)
Use of pre-defined RESOLUTE theorems
Improvement of Graphical Editor

Current Improvements

• Processor and Internal Feature Support
• Array Support (e.g. creation, editing dimensions)
• Nested View
• Visualization of Bindings (i.e. processors, memories, etc.)

Planned Improvements

• Improved automatic layout
• Editing Call Sequences
Improvement of Graphical Editor - example
Ocarina Bridge

Connect OSATE with Ocarina

Need to download Ocarina (cf. http://www.openaadl.org)
Invoke Ocarina with OSATE models

Bring code generation capabilities
Currently work for DeOS
Maintenance and Bugfixes

Integration of quick fixes
- Correct mistyped models
- Suggest replacement
- Better user experience

Improvement of Property Editor
- Support of list of list
- Support of ranges
Public Model Repository

Core examples
- Demonstrate main language capabilities
- Modeling patterns & model samples for beginners

Error-Model examples
- EMV2 model constructs
- Demonstration of tools

Case-Studies
- AIR6110
- Public version of existing projects

https://github.com/osate/examples/
Getting Support

Github
- Public bug report
- Source code changes tracking

Wiki
- Maintain research doc.
- Populate with documentation
- Ease community involvement

Mailing-List

Branch to track

View code revision

Bugtrack
Community update – ACVI workshop

AADL dedicated Workshop
Replace the AADL user days
Engage with other communities

Organization of 2015 edition
2014 edition at MoDELS – quite a success
Need to find a location for the 2015 edition

Need suggestion/contributions
Stick with MoDELS? Use another venue?
Please contact us if you are willing to help!
Conclusion

Integration of new capabilities
- RESOLUTE & AGREE
- Ocarina bridge for code generation

New release to come
- Integration of all new features
- Include many fixes and a better user experience

AADL community open to contribution
- Open Development Model (OSS tools & license)
- New discussions support (mailing-list, blog, remote meetings)
Links and other useful information

OSATE-related tools
- Wiki: https://wiki.sei.cmu.edu/aadl/index.php/Osate_2
- Github: https://github.com/osate/
- Ohloh: https://www.openhub.net/p/osate

General AADL discussions
- Main AADL website: http://www.aadl.info
- SEI blog: http://blog.sei.cmu.edu/
- AADL mailing-lists https://wiki.sei.cmu.edu/aadl/index.php/Mailing_List
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