Stood for AADL

AADL committee
Salt Lake City, 18 April 2007

Who we are

Ellidiss Software
www.ellidiss.com

UK based company
TNI Europe Ltd
Tools sales office
Tech support for CP-Hood:
Eurofighter Typhoon
Tornado
Nimrod
Hawk trainer
Huygens space probe to Titan
...

Ellidiss Technologies
www.ellidiss.com

Fr based company
New tools development
R&D center
Tech support for Stood:
Airbus A380
Airbus A340
Eurocopter Tiger
EH-101/US-101 helicopter
ISS European Robotic Arm
Galileo
...

Independent tool vendor:

flexible commercial approach
strong technical commitment
full range of industrial services:
(training, tool customization, support, ...)

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Stood architecture

import legacy code (Ada, C)

*import model (HOOD, **AADL**)*

import requirements

editors

database

customization

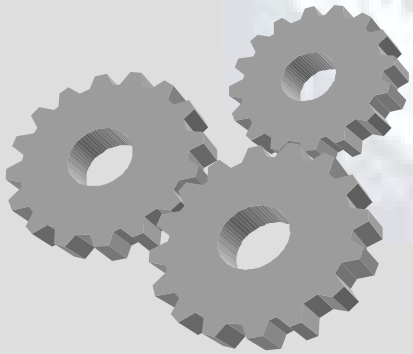
meta model

*export model (HOOD, **AADL**)*

code gen & round-trip (Ada, C, C++)

document gen (HTML, PDF, Word, ...)

model checkers (have been DO-178B qualified for the A380)



LMP: Logical Model Processing:
formal and declarative
m2m and m2t transformations

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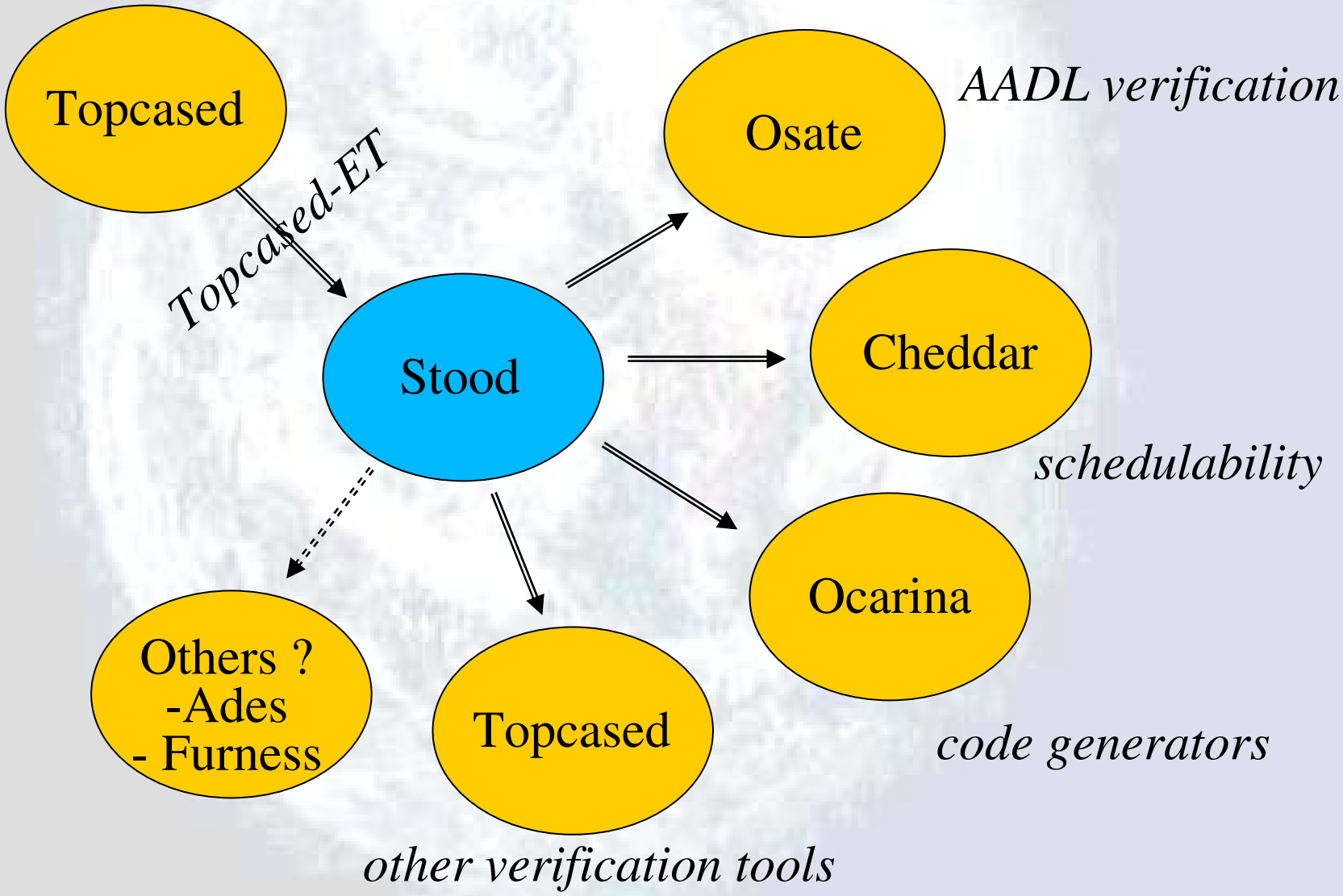
Stood in the AADL world



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Stood "specials"

- Light weight standalone tool
- Methodology inherited from HOOD
  - mainly Top-Down
  - mainly Instance based
- Tool level concepts:
  - Project: global context, legacy code, requirements
  - Design: sub-systems, libraries, templates
  - Session: multi-user, conf/version management
- Modelling entry points (use cases)
  - Libraries of reusable components -> AADL package
  - System modelling -> AADL system
  - Software production -> AADL process
- Document oriented component description: ODS
  - AADL properties
  - textual comments
  - annexes
  - code fragments
  - customizable to match standards: DO-178B, MIL-STD-498, ...

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Road map

- Previous versions:
  - Stood 5.0 (May 2005): textual AADL I/O
  - Stood 5.1 beta (Jan 2006): graphical editor
  - Stood 5.1 final (Oct 2006)
- Stood 5.2
  - commercial solution
  - distribution initially planned Jan 07
  - postponed to include feedback from R&D projects
  - new target date: mid May 07
  - download site: **www.ellidiss.com**
- Adele
  - open source solution
  - new AADL graphical editor for Topcased
  - will support Airbus SW modelling requirements
  - will be used as a base for SPICES modelling tool activities (CCM; HW/SW co-design)
  - initial prototype: summer 07
  - taking into account Airbus inputs: end 07
  - taking into account SPICES inputs: 2008