AADL WorkSpace

AADL Committee - 25 Sept 2017 - Fort Worth

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AADL Tool Chains return of experience

- Based on 10 years work in AADL tools coupling
  - Stood -> Osate
  - Stood -> AADL Inspector
  - TASTE -> Ocarina
  - AADL Inspector -> Ocarina
  - RAMSES -> AADL Inspector
  - Capella -> AADL Inspector
  - EEA -> AADL Inspector
- Usual encountered issues
  - What are the boundaries of the current project ?
  - Where and How is the common environment defined ?
  - What may remain specific to a particular tool ?

=> AADL Workspace configuration

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AADL WorkSpace configuration

- at **Standard** level
  - predeclared Property Sets (except AADL_Project)
- at **Tool** level
  - most of AADL_Project (e.g. Supported_*_Protocols)
  - language subsets (at least: supported Annexes)

Administrator

- at **Declarative Model** level
  - some of AADL_Project (e.g. Supported_*_Matches)
  - list of required Packages
  - list of required non-predeclared Property Sets
- at **Instance Model** level
  - root of the instance hierarchy

User

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AADL WorkSpace interoperability issues

- at **Standard** level
  - predeclared Property Sets
- at **Tool** level
  - most of AADL_Project (e.g. Supported_*_Protocols)
  - language subsets (at least: supported Annexes)
- at **Declarative Model** level
  - some of AADL_Project (e.g. Supported_*_Matches)
  - list of required Packages
  - list of required non-predeclared Property Sets
- at **Instance Model** level
  - root of the instance hierarchy

should not be part of tool configuration

not standardized

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AADL WorkSpace recommendations

- Better define the various levels of configuration in the next standard
  - official standard (unique shared reference)
    - core syntax and semantics
    - predefined Property Sets
    - standardized Annexes
  - tool or usage profile (tool configuration)
    - non predefined Property Sets
    - non standardized Annexes
    - subsets
  - project or model (user workspace)
    - list of Packages (Declarative Model)
    - identification of the Root (Instance Model)
- Remain independent of tool implementation technologies