

# No Magic & MARTE

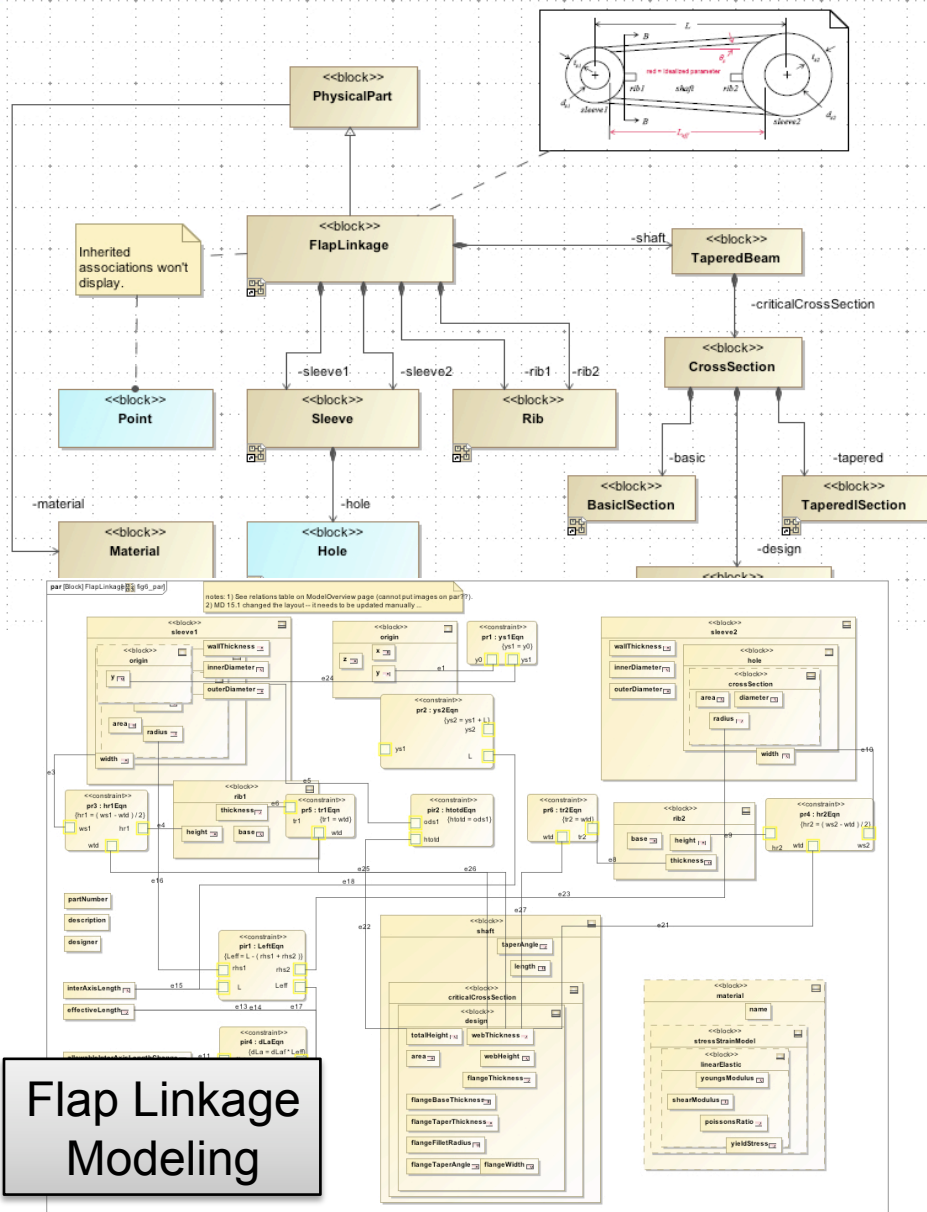
## No Magic Committed to MARTE

- Leverage SysML
- Tool integration
  - Compatible with Eclipse
  - Parametric solvers and other analysis integration
  - MDA
  - Requirements management
    - DOORS
    - Cameo RM (No Magic)
- Future Eclipse-based modeling tools



## No Magic SysML

- Committed to being the best in the market
- Embrace related technologies/tools (no vendor lock-in)
- Live constraint check
- Seamless integration with other profiles
  - UML
  - UPDM
  - MARTE (that's the plan!)
  - Others



- Published MARTE XMI is *not* standard XMI 2.1
- EMF-based
- MagicDraw can read, but requires message to treat as a profile
- More maintenance of implementations
- Need compliance tests!
- Integration with SysML

The nice thing about standards is that there are so many of them to choose from.

Andres S. Tannenbaum

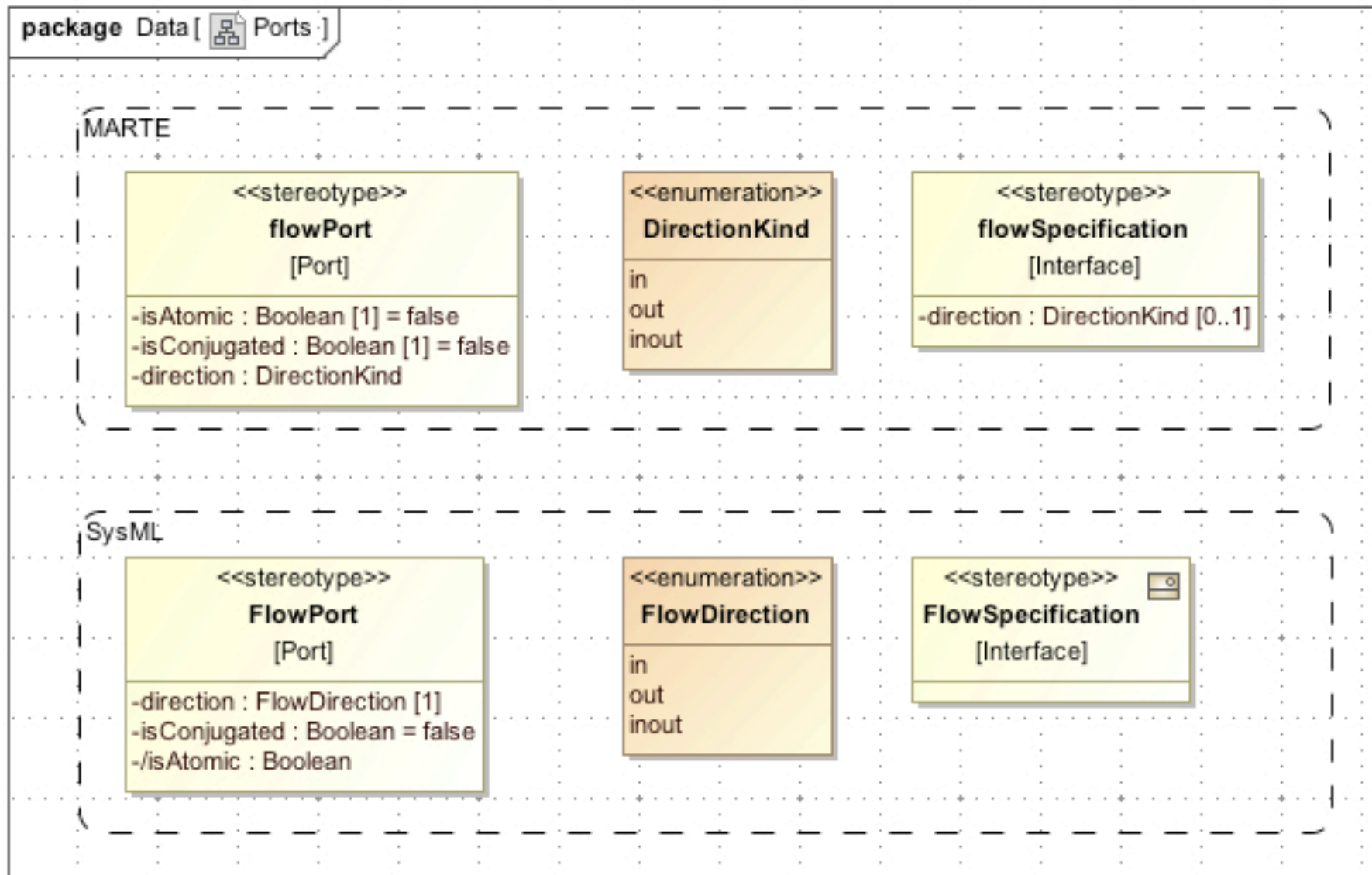


- MARTE duplicates parts of SysML
  - Adds additional beyond SysML
  - Complicated interchange
- Questions of compliance
- MARTE to/from SysML/  
MARTE requires transformation

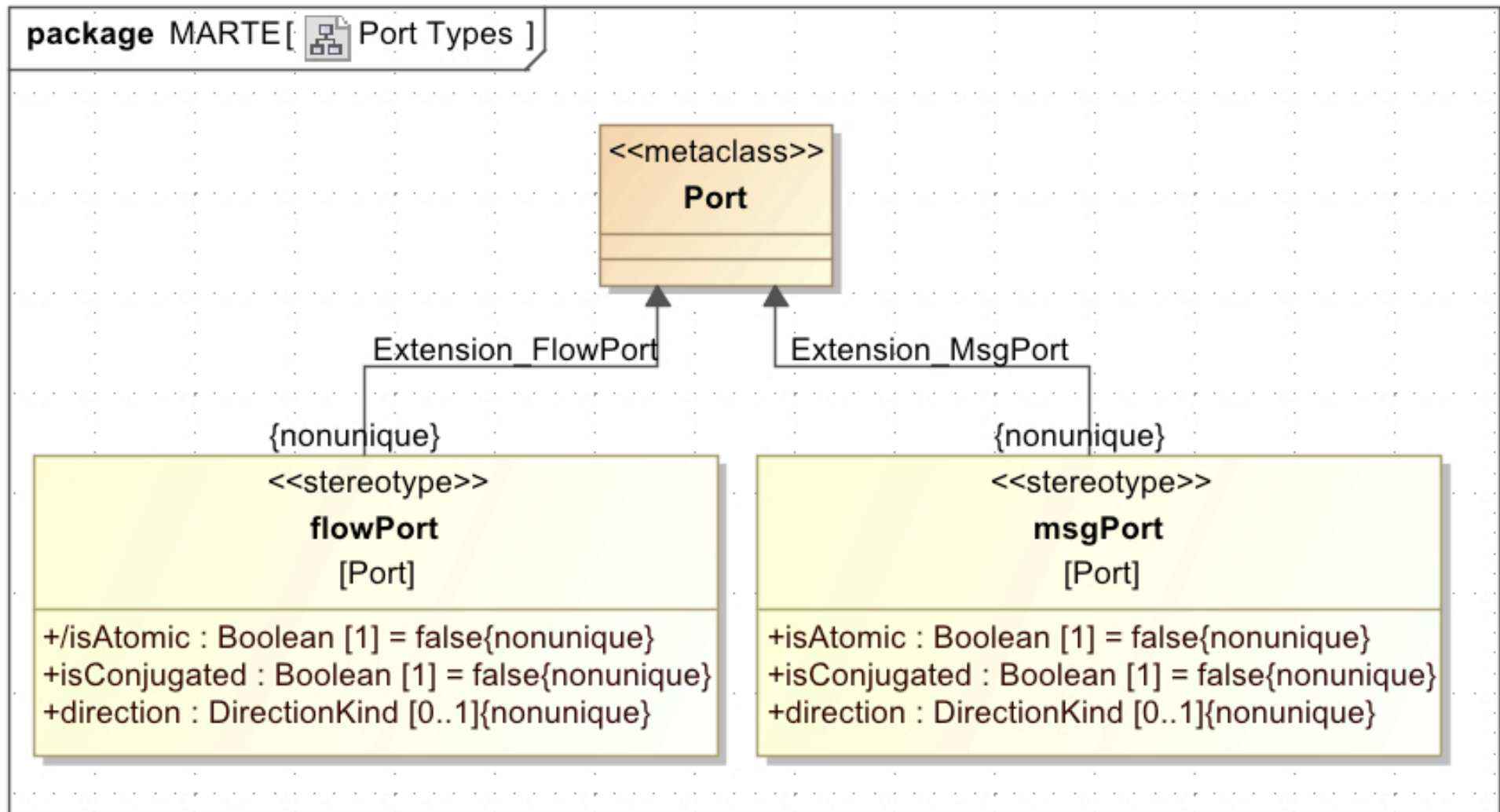




## Example: Ports



## More Ports



Note: Additional Message port in MARTE is a Port, not a type of FlowPort.

## The Challenges

- Convenient DSL diagram pallets for engineering domains
- More interfaces to engineering tools
- Model interchange (part catalogs)
- Examples, examples, examples!





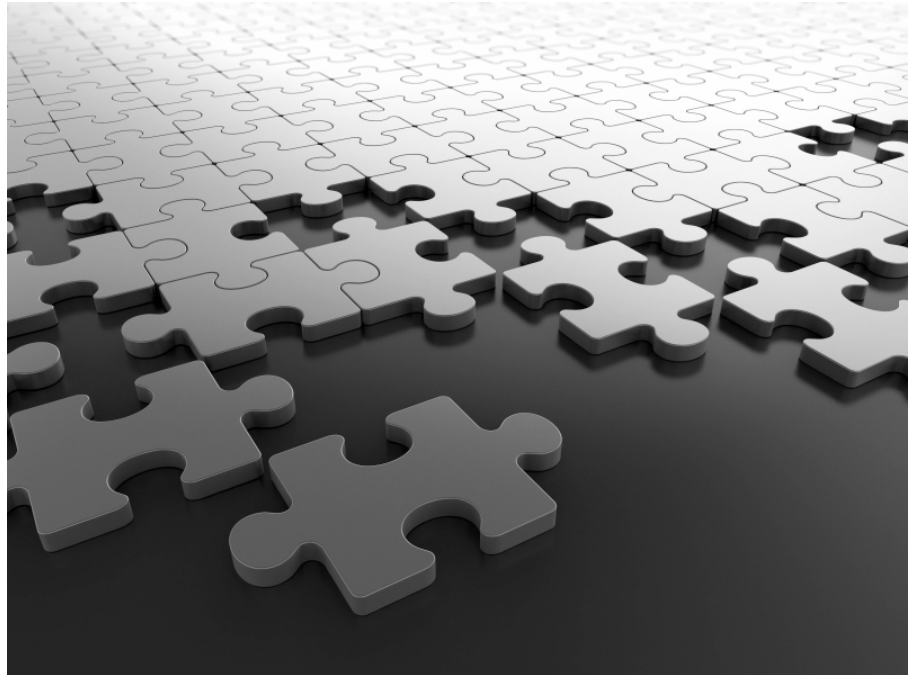






- SysML/MARTE Profile
- Transformation rules for EMF-based MARTE models
- Integration with other tools (Solvers, etc.)
- DSL representation to hide UML
- Compliance to current spec + current changes
- Preview release

- Parametrics already working in SysML
  - InterCax ParaMagic plugin
  - Mathematica now
  - Others soon
  - Adding behavior
- MARTE DSL to be released soon in preview



Thank You

[danielb@nomagic.com](mailto:danielb@nomagic.com)