NEW AND NOTEWORTHY

APP4MC 2.2 (Jul 2022)

General description of platform changes

Model extensions

- New utility functions (Stimuli event model)

Product

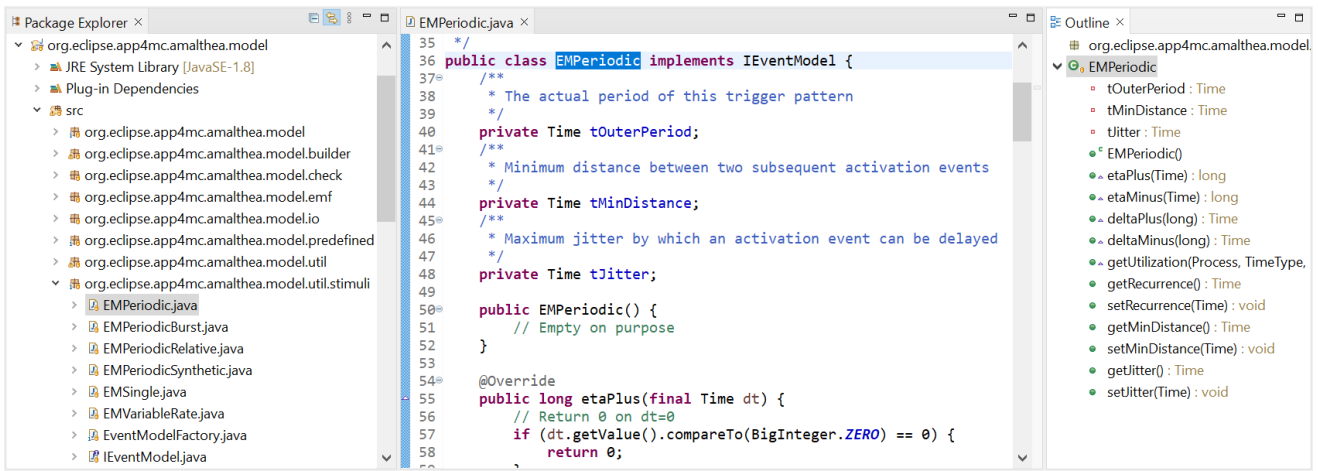
- Updated Runnable dependencies visualization
- Validations:
  - New APP4MC.sim validations
  - Duplicate ID check moved to EMF invariants (available as live validation)
- Extended help: Installable platform extensions

APP4MC 2.2

Utility functions - Stimuli event model

Utility functions - Stimuli event model

The package provides event models corresponding to typical activation patterns in order to enable the application of common performance analysis techniques.



Further information

- Publication: Complex event models for automotive embedded systems
  https://doi.org/10.1016/j.sysarc.2021.102343
- Presentation: Timing Analysis support for complex trigger patterns
  https://panorama-research.org/news/2021/12/22/timing-analysis-support-for-complex-trigger-patterns/

New IDE extension examples

IDE extension examples

introduced with APP4MC 2.1

New examples for **developers** who want to extend the IDE

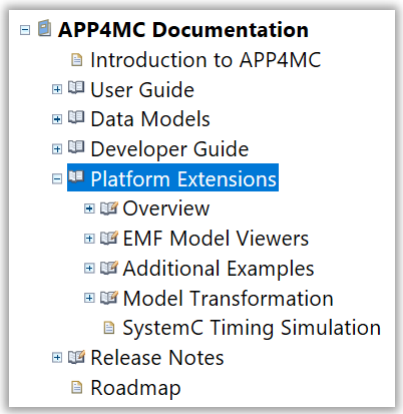
- Editor actions
- Validations
- Visualizations

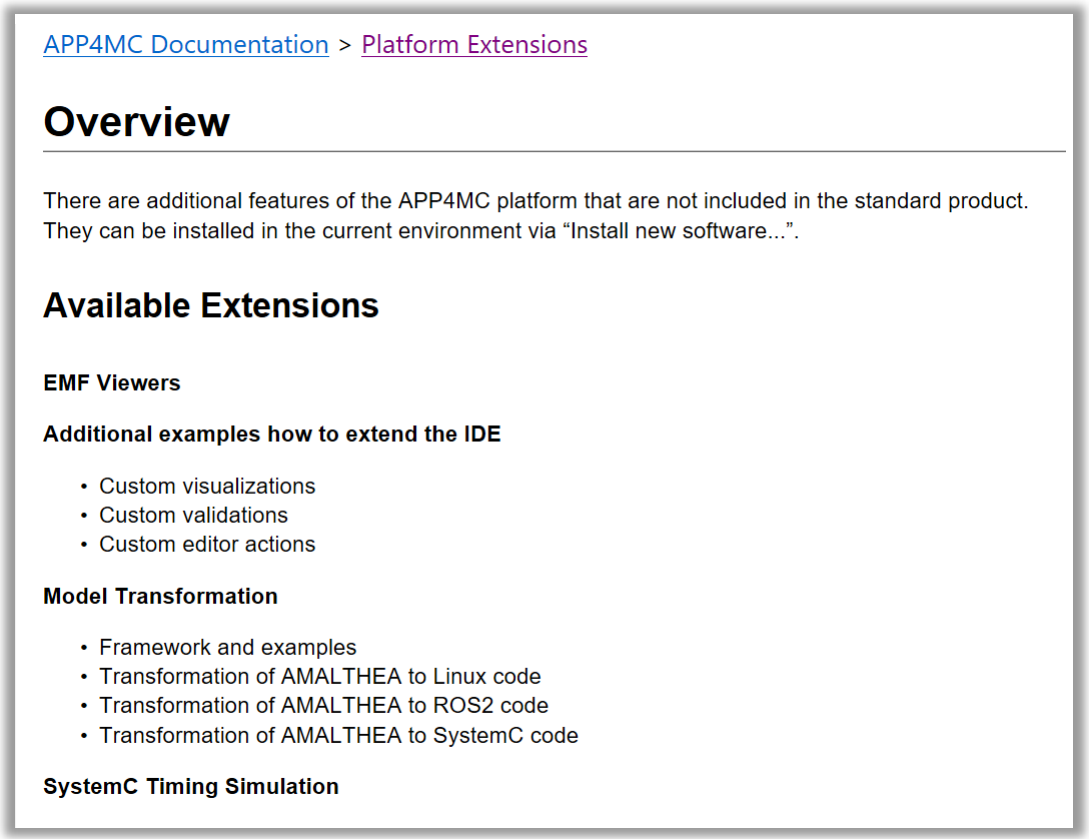
Steps to use the examples

- Start the APP4MC product
- Install additional plugin from APP4MC update site
- Create new examples in the current workspace
- Run an Eclipse Application (runtime instance) to see the effects

IDE extensions documentation

added with APP4MC 2.2





APP4MC Documentation > Platform Extensions

Overview

There are additional features of the APP4MC platform that are not included in the standard product. They can be installed in the current environment via “Install new software...”.

Available Extensions

EMF Viewers

Additional examples how to extend the IDE

- Custom visualizations
- Custom validations
- Custom editor actions

Model Transformation

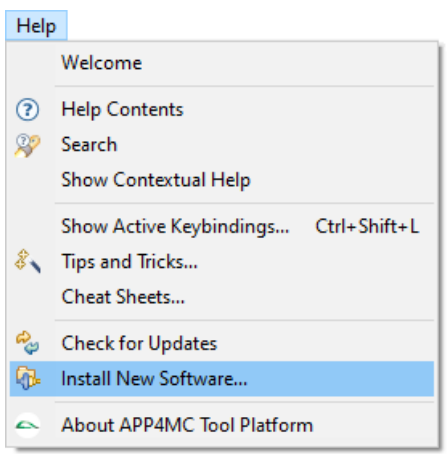
- Framework and examples
- Transformation of AMALTHEA to Linux code
- Transformation of AMALTHEA to ROS2 code
- Transformation of AMALTHEA to SystemC code

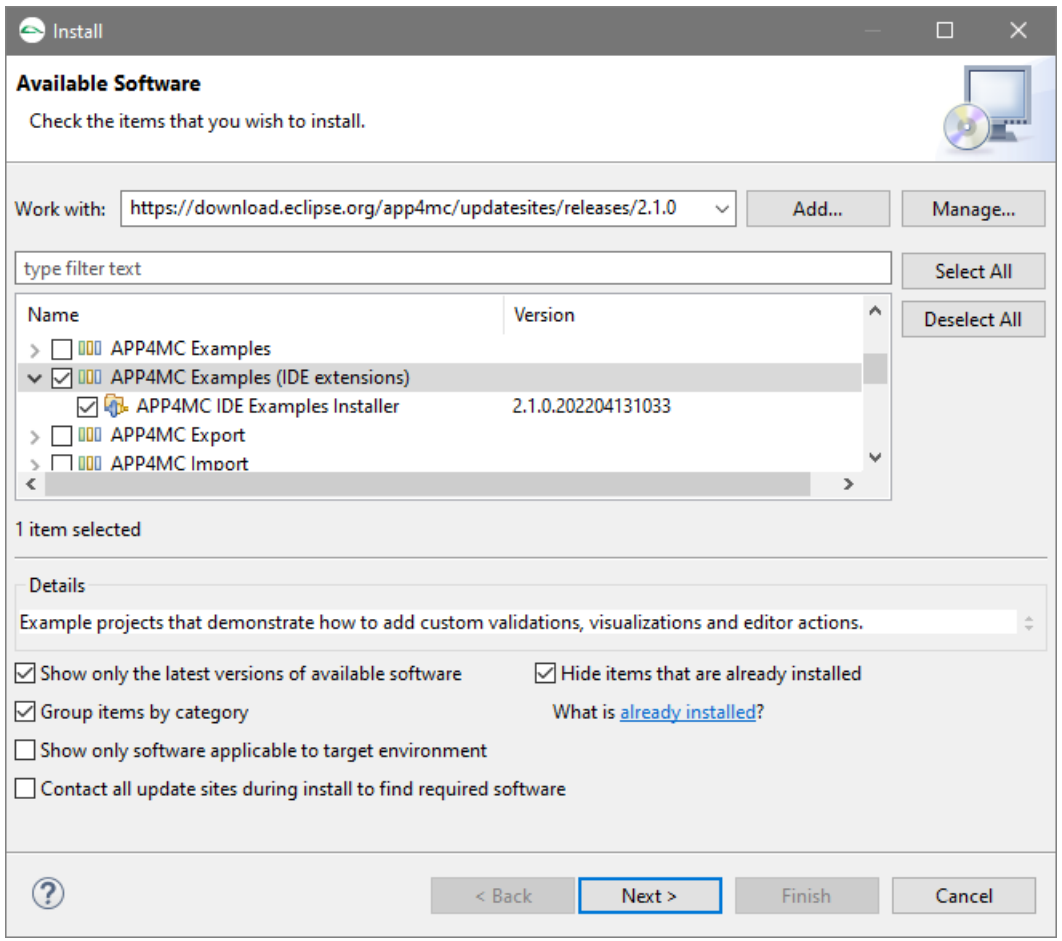
SystemC Timing Simulation

https://www.eclipse.org/app4mc/help/latest/index.html

IDE extension examples

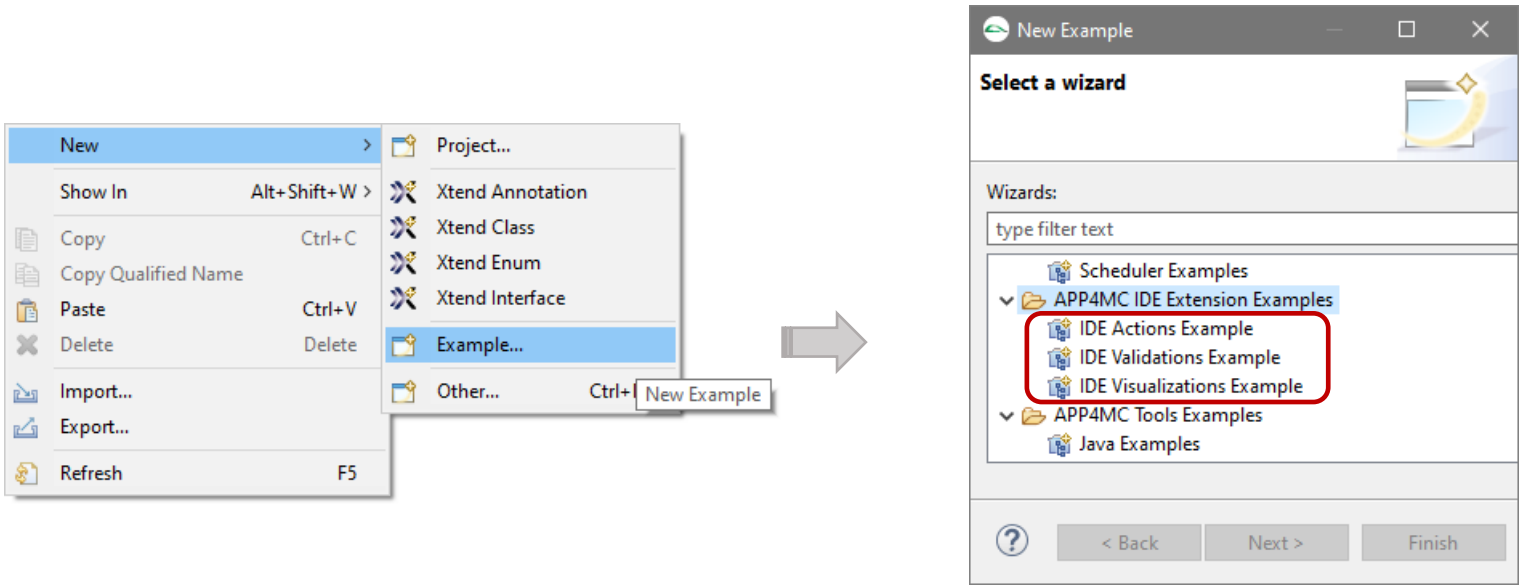
Add IDE examples installer





IDE extension examples

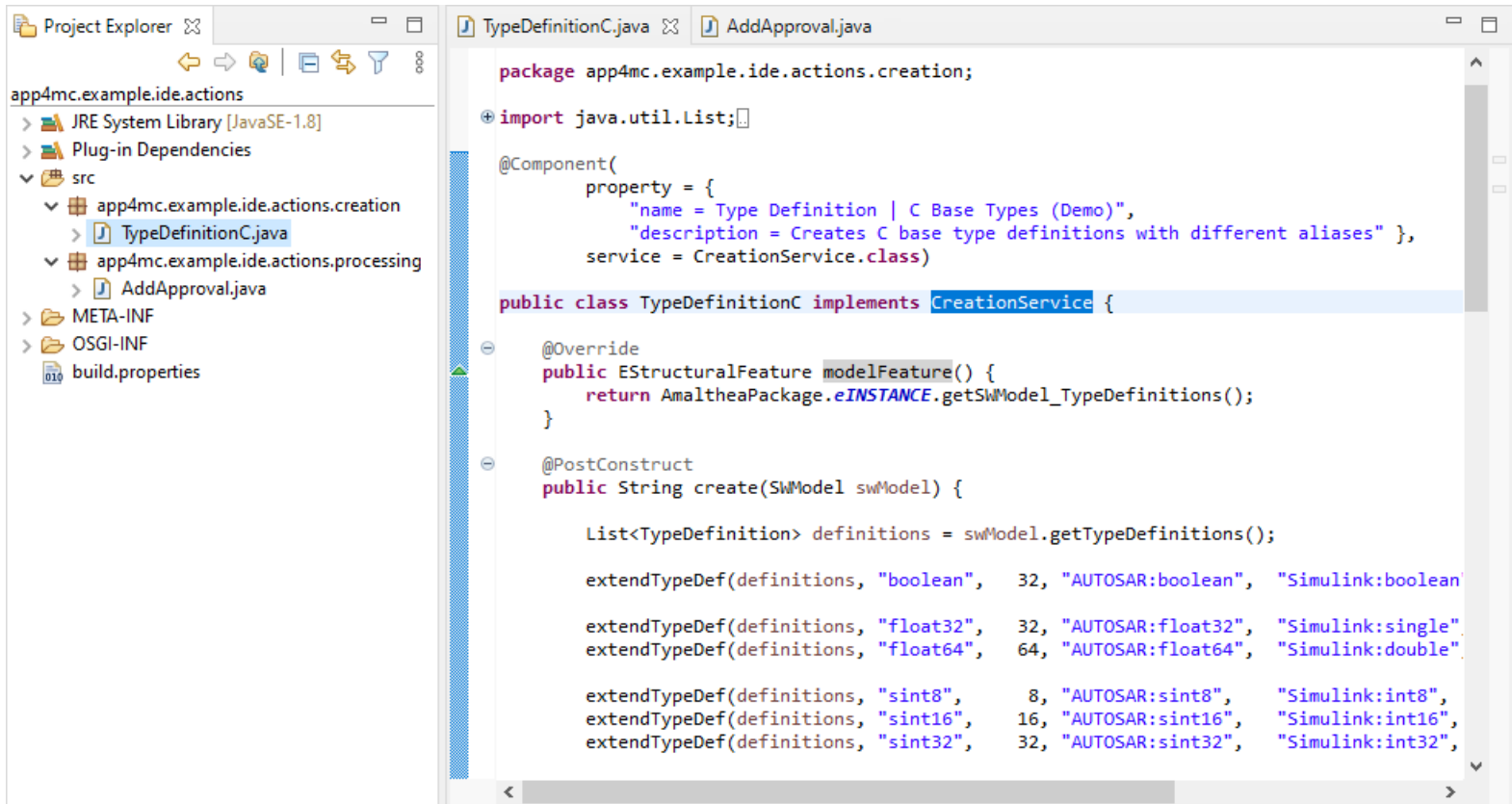
Create IDE examples



IDE extension examples

Editor action example

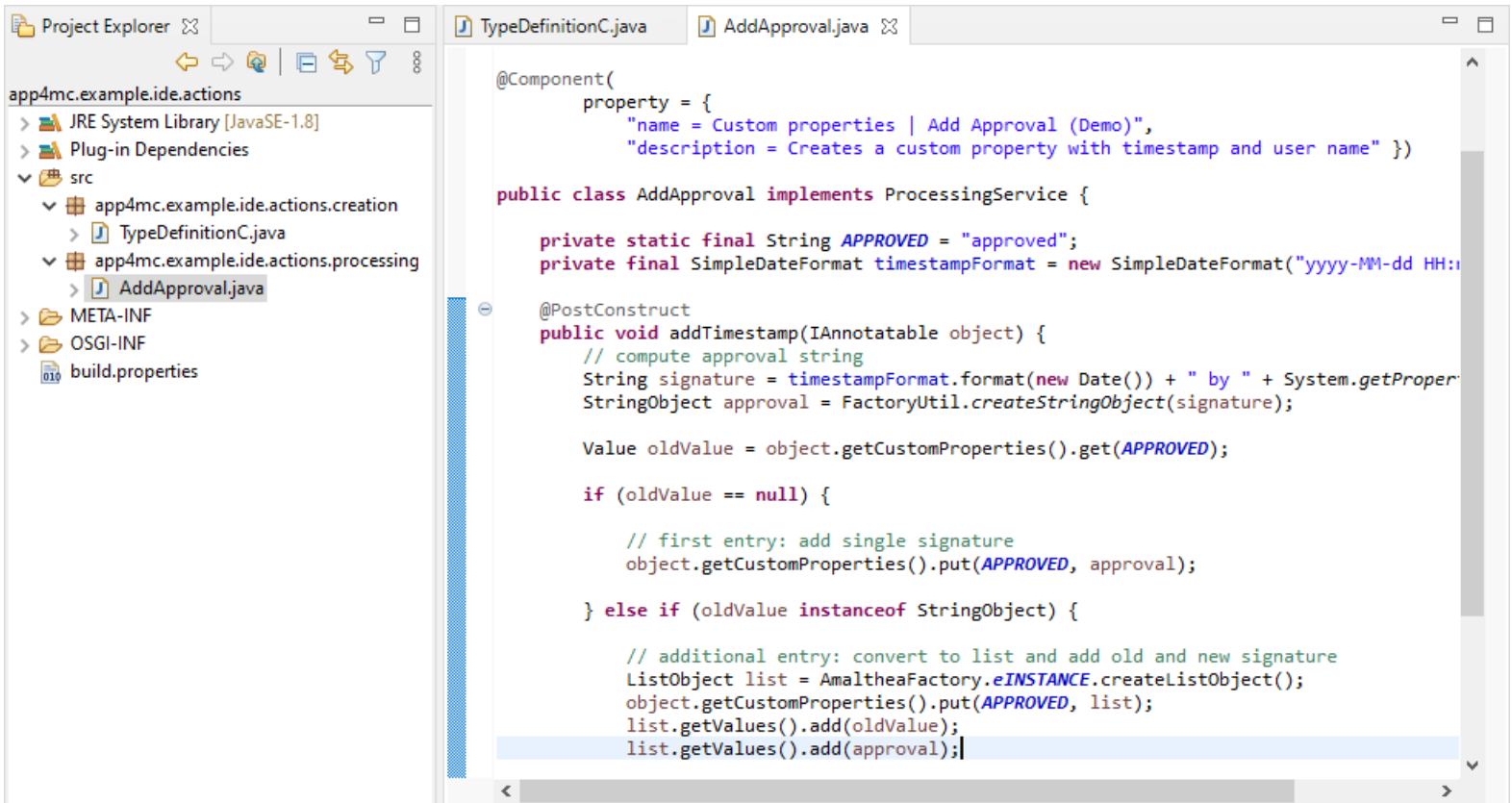
- Creation



IDE extension examples

Editor action example

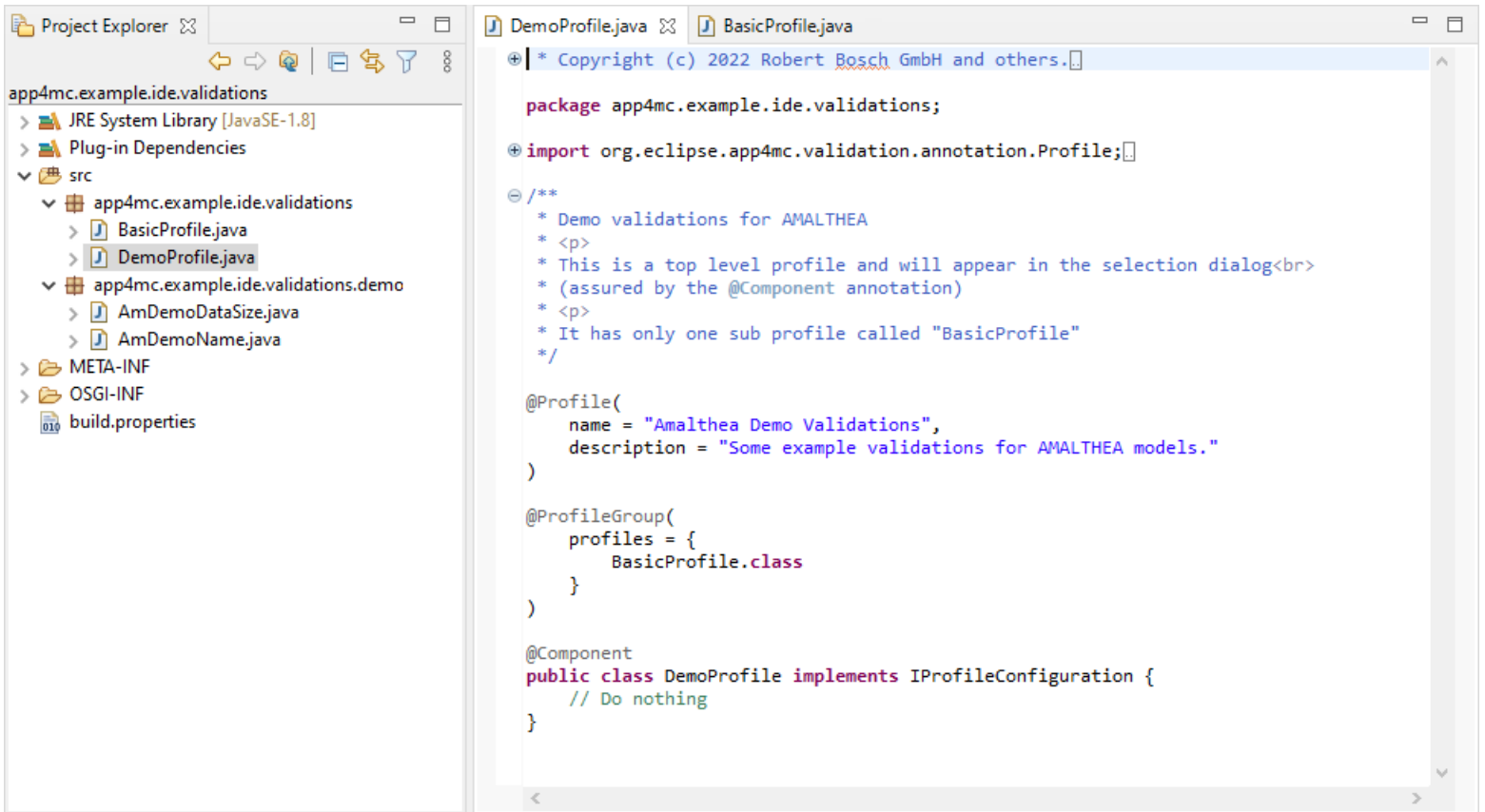
- Processing



IDE extension examples

Validation example

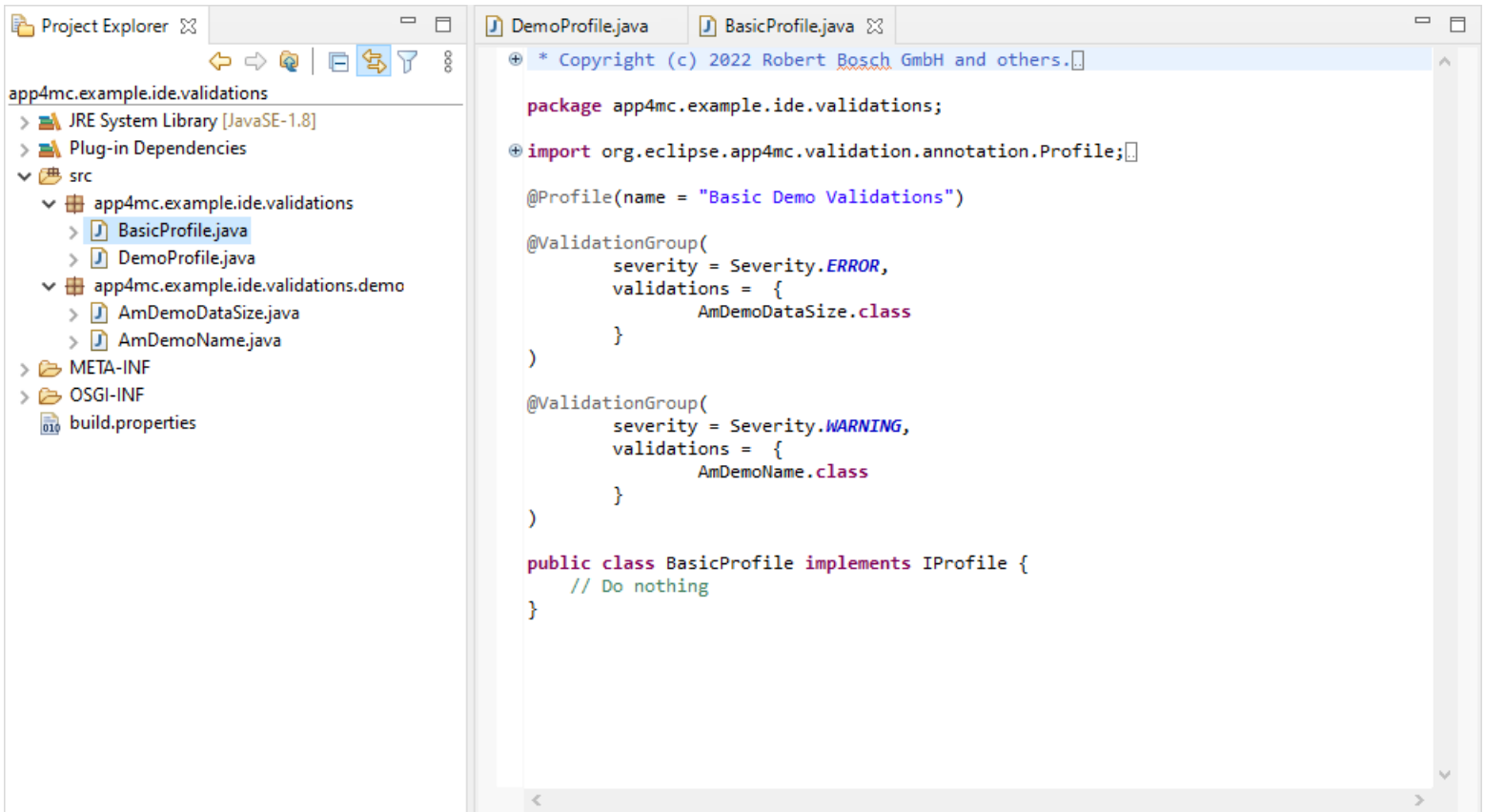
- Top level profile



IDE extension examples

Validation example

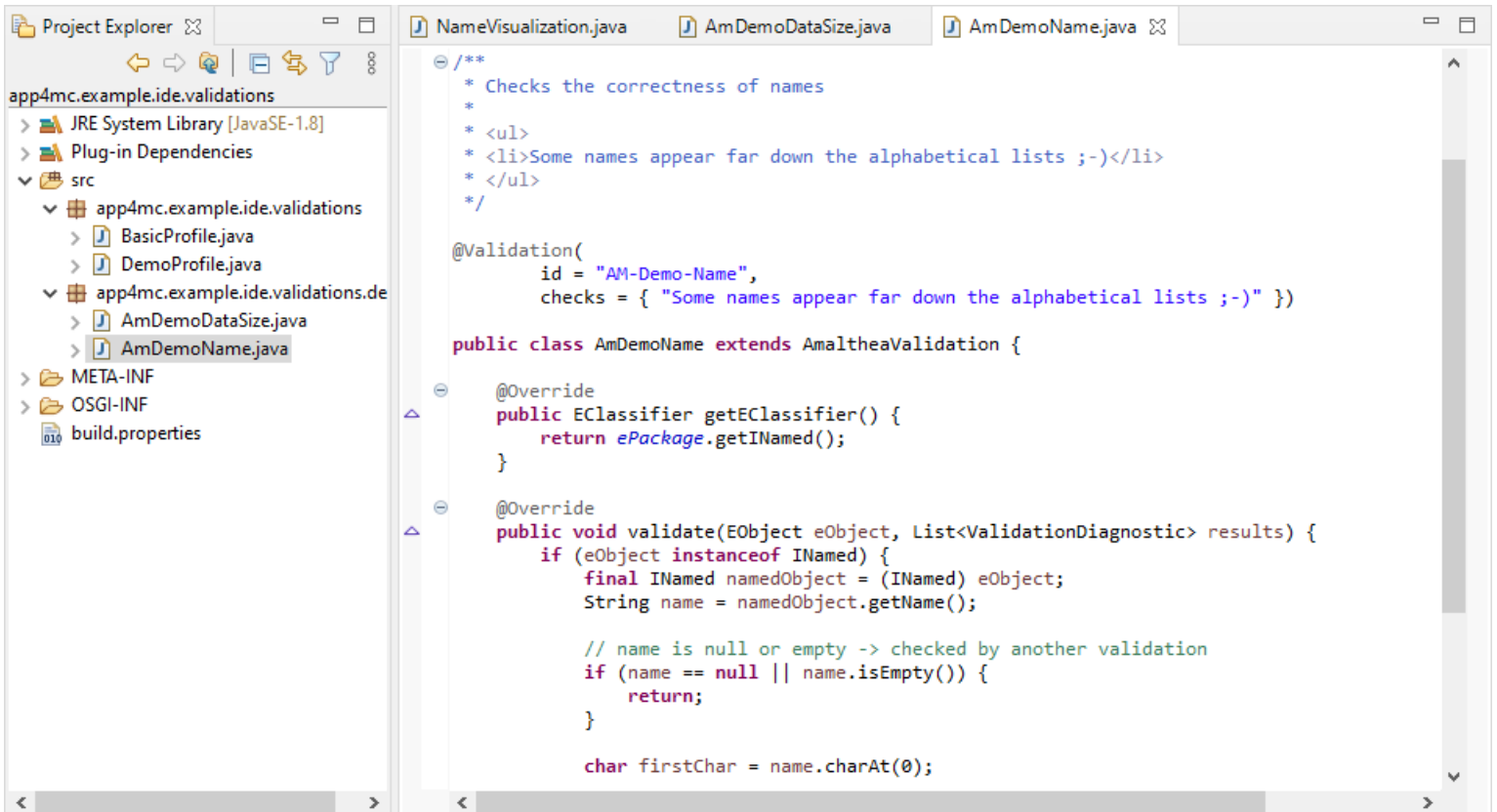
- Profile



IDE extension examples

Validation example

- Validation

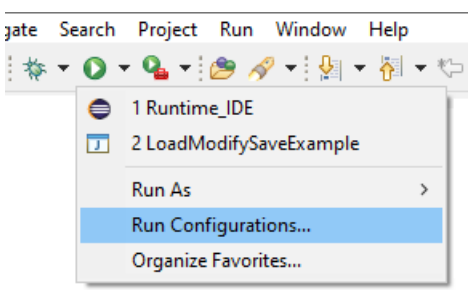


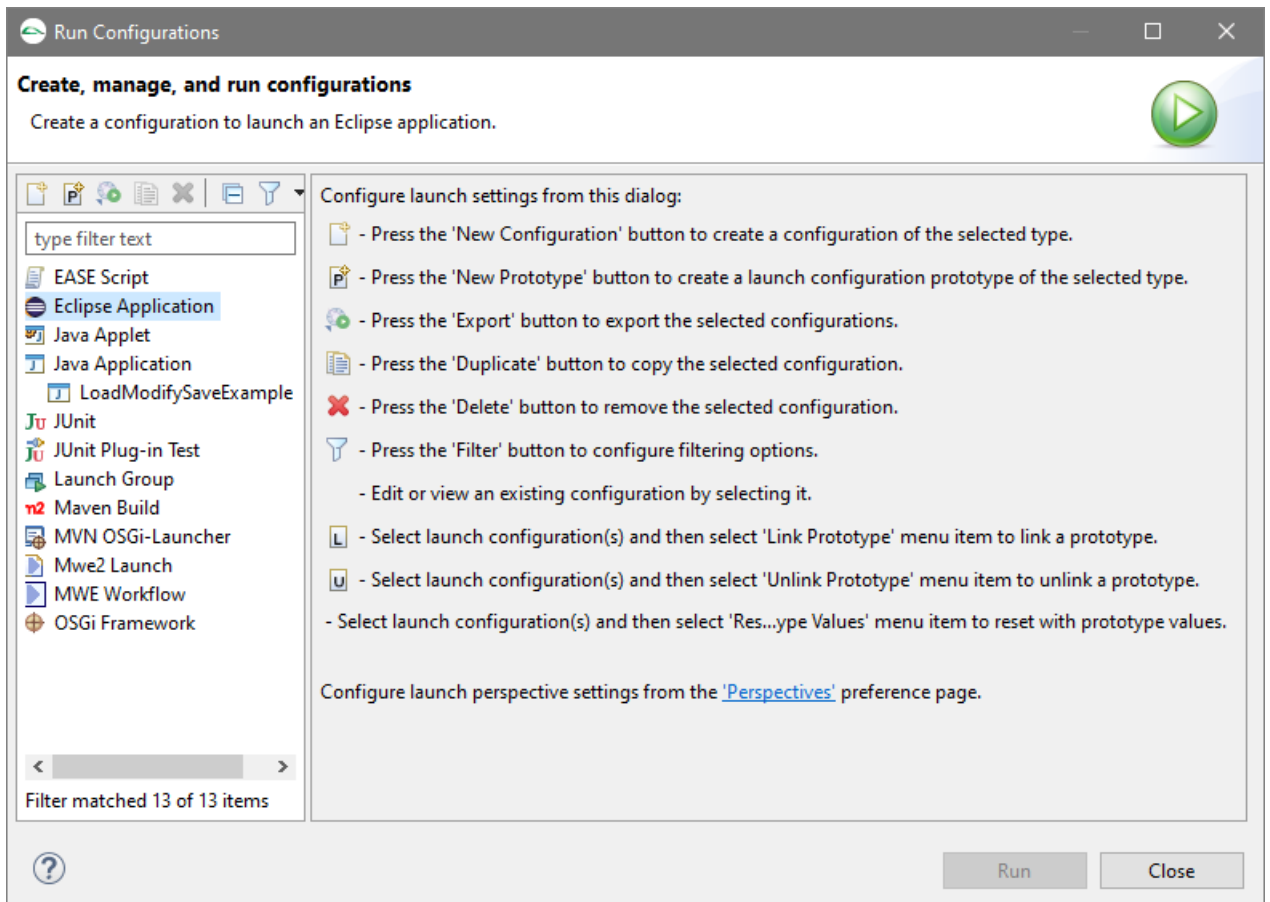
IDE extension examples

Visualization example

IDE extension examples

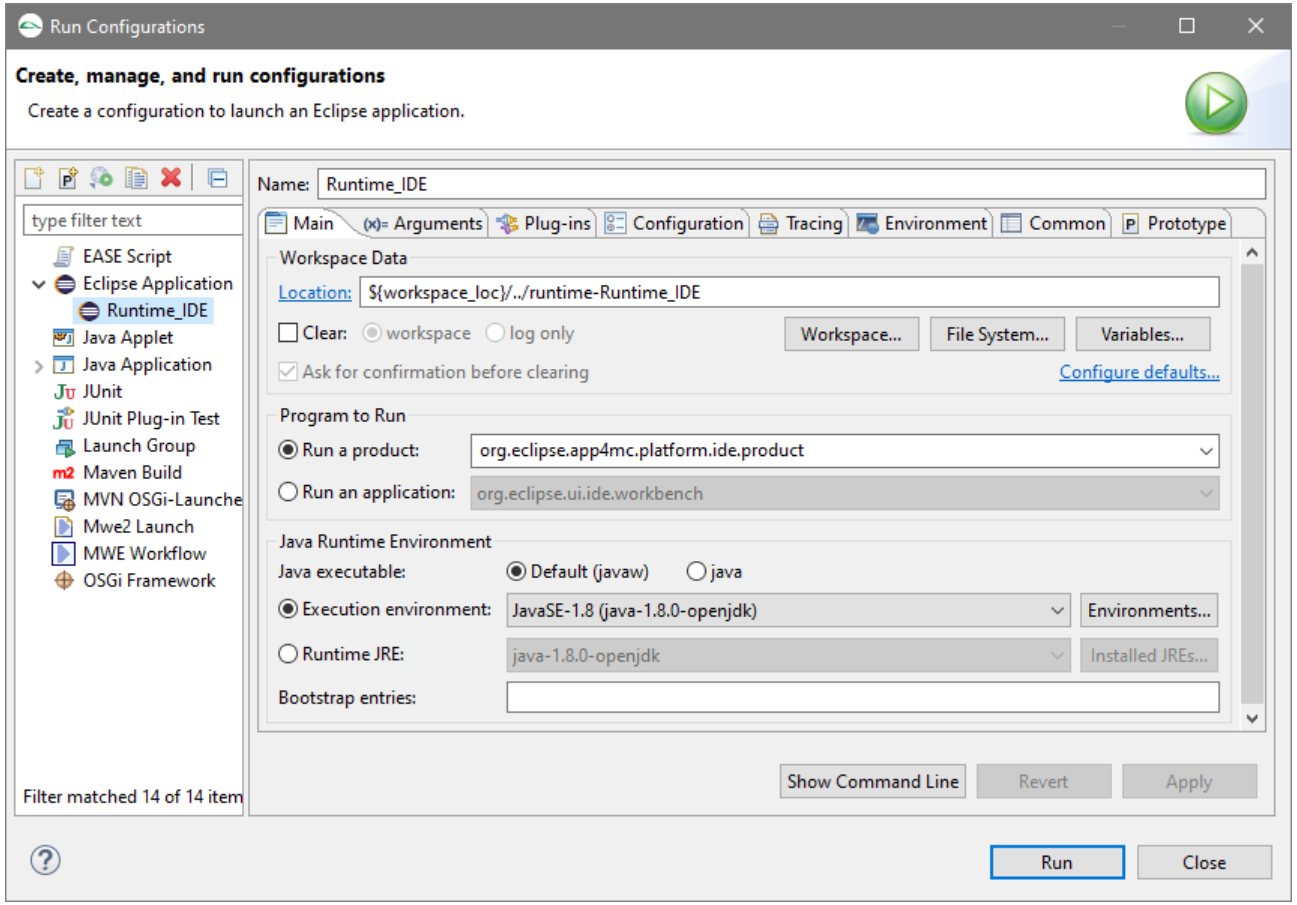
Run an Eclipse Application





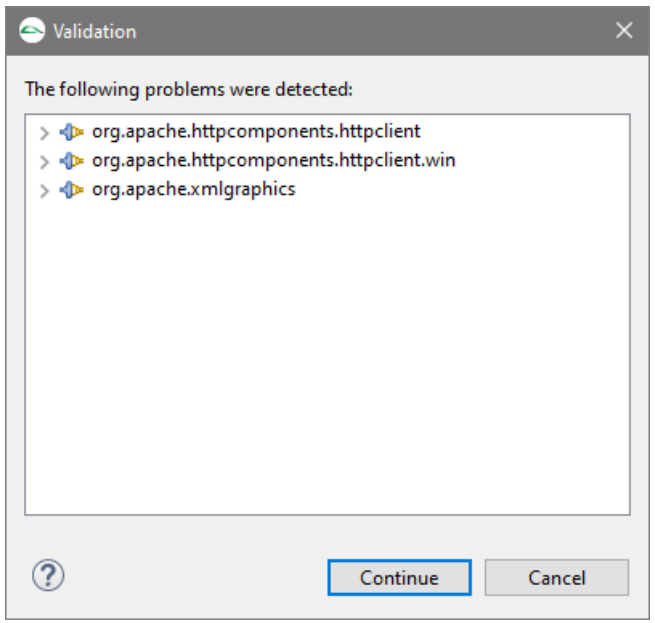
IDE extension examples

Run an Eclipse Application



IDE extension examples

Run an Eclipse Application



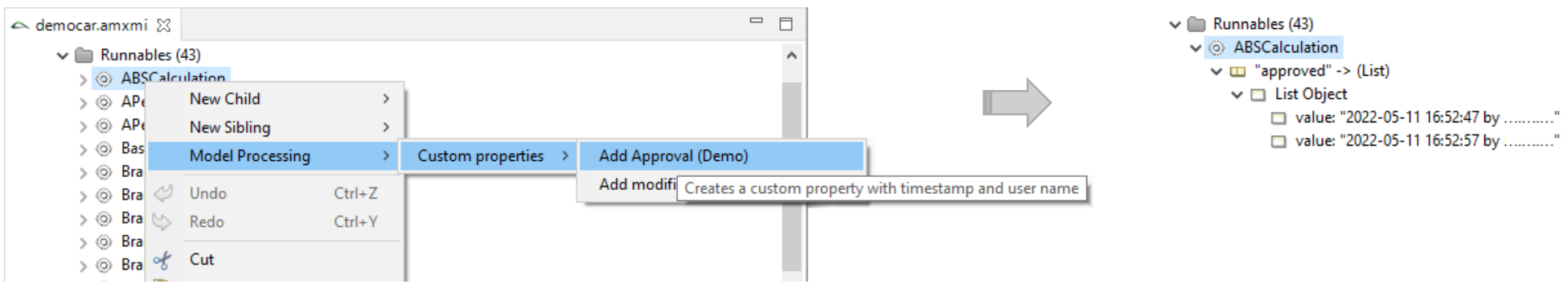
Ignore this validation

-> Continue

IDE extension examples - Runtime

Additional features:

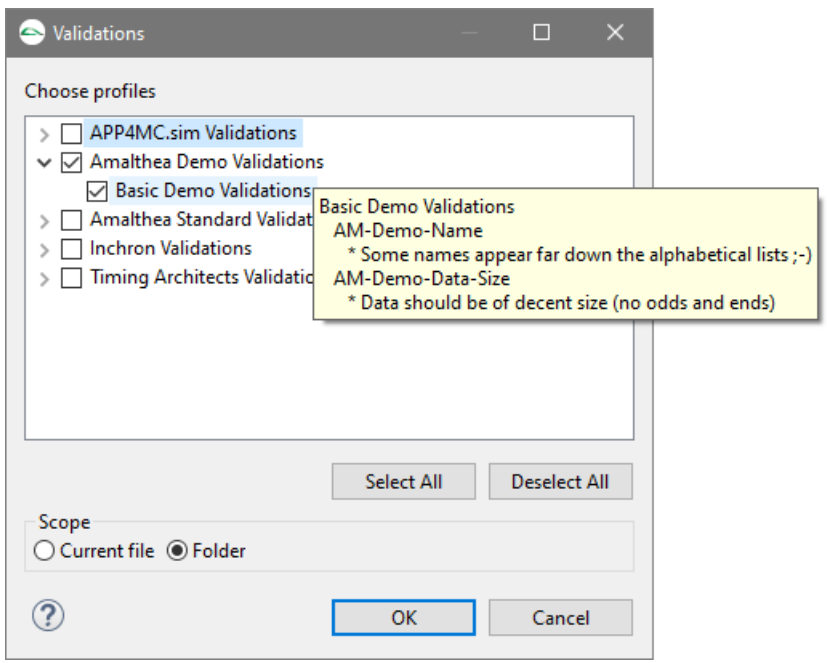
- New Processing Action



IDE extension examples - Runtime

Additional features:

- Basic Demo Validation



IDE extension examples - Runtime

Additional features:

- New Visualization