Next Generation Showtrace

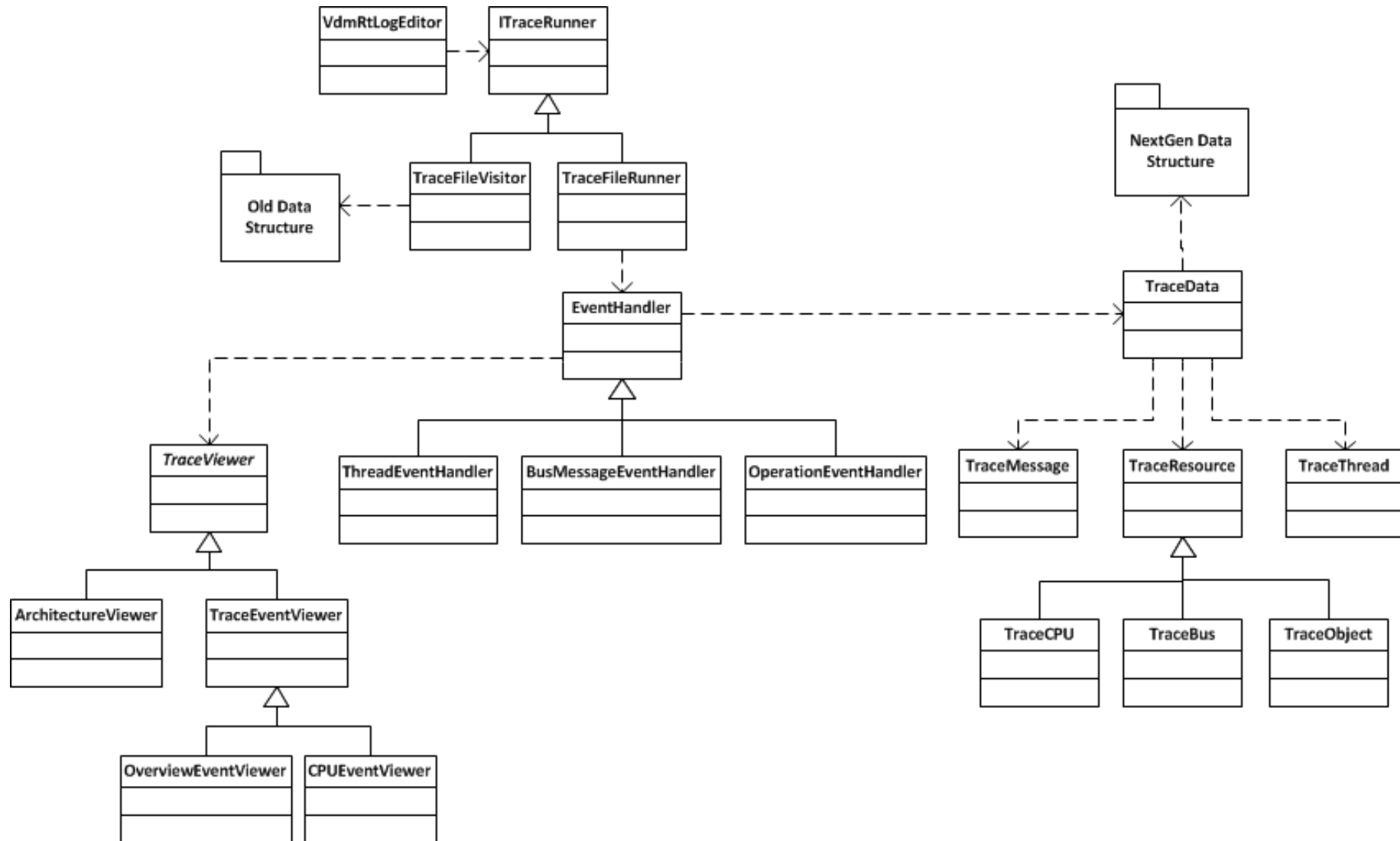by Peter W. V. Jørgensen

Showtrace

- Displays execution traces graphically
- Current version
  - Traces stored in text files
  - Doesn't scale well for large traces
  - Based on Java code generated from VDM

The next version of showtrace

- Next generation showtrace
  - Traces stored in binary format
  - Introduces a completely new design
    - A clean separation between view and model
  - Code for drawing is not generated
  - Events only handled once
  - Independent of VDMTools
  - Developed by
    - Martin Askov Andersen
    - Mads Von Qualen
    - Peter Jørgensen
  - Code location: astv2_showtrace branch

Architecture

Work left to do

- Execution overview shown in fixed size panel
  - Currently we try to draw entire model
- CPU event viewer missing bus messages

Demonstration

- Time for a small demonstration..