

WP3 Node Architecture & Building Blocks

WP3T31-01: Edge-oriented monitoring unit

WP3T34-01: Driver for Edge-oriented monitoring unit



Developed by:
Barcelona Supercomputing Center
Centro Nacional de Supercomputación

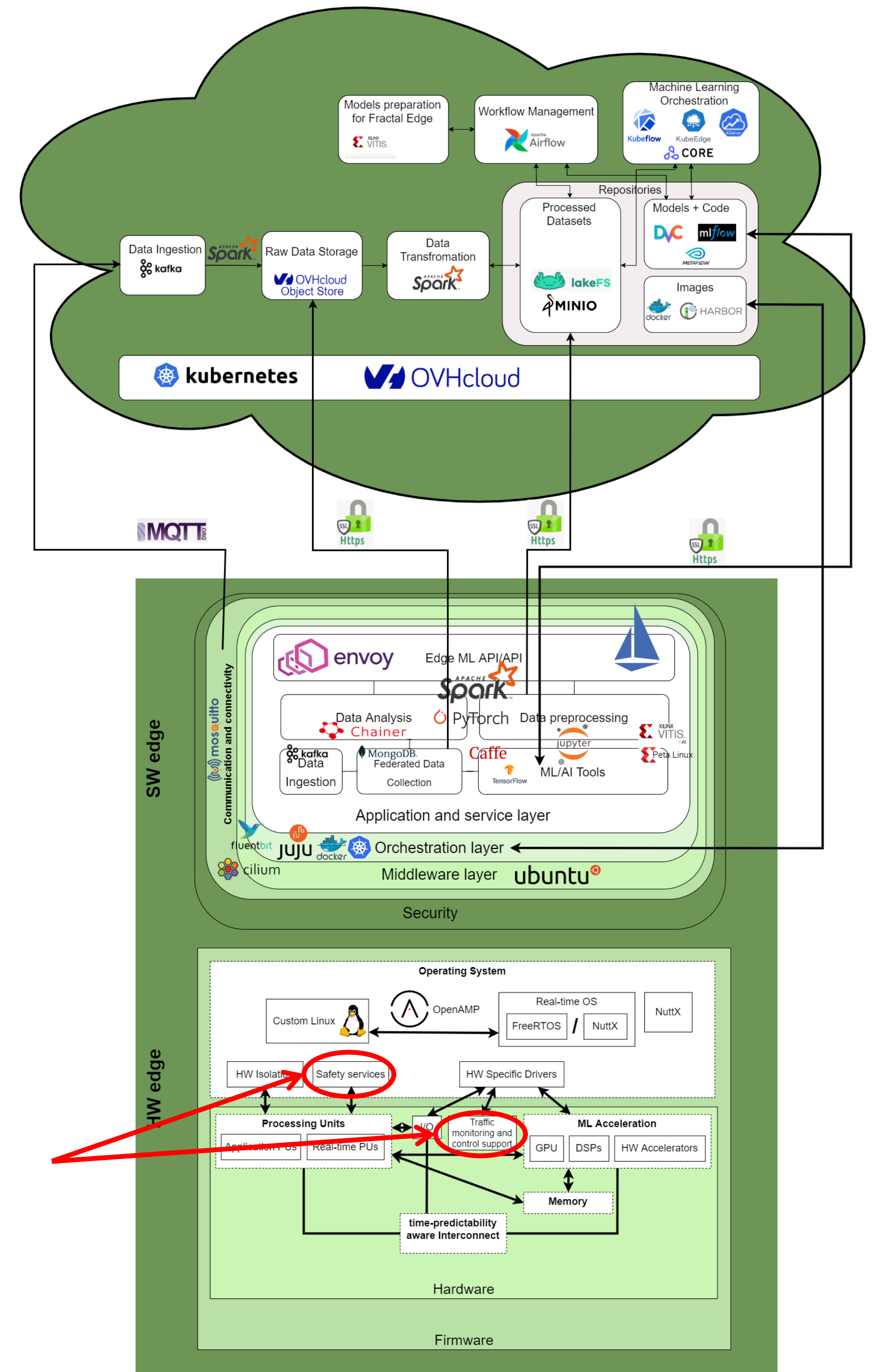


Component description

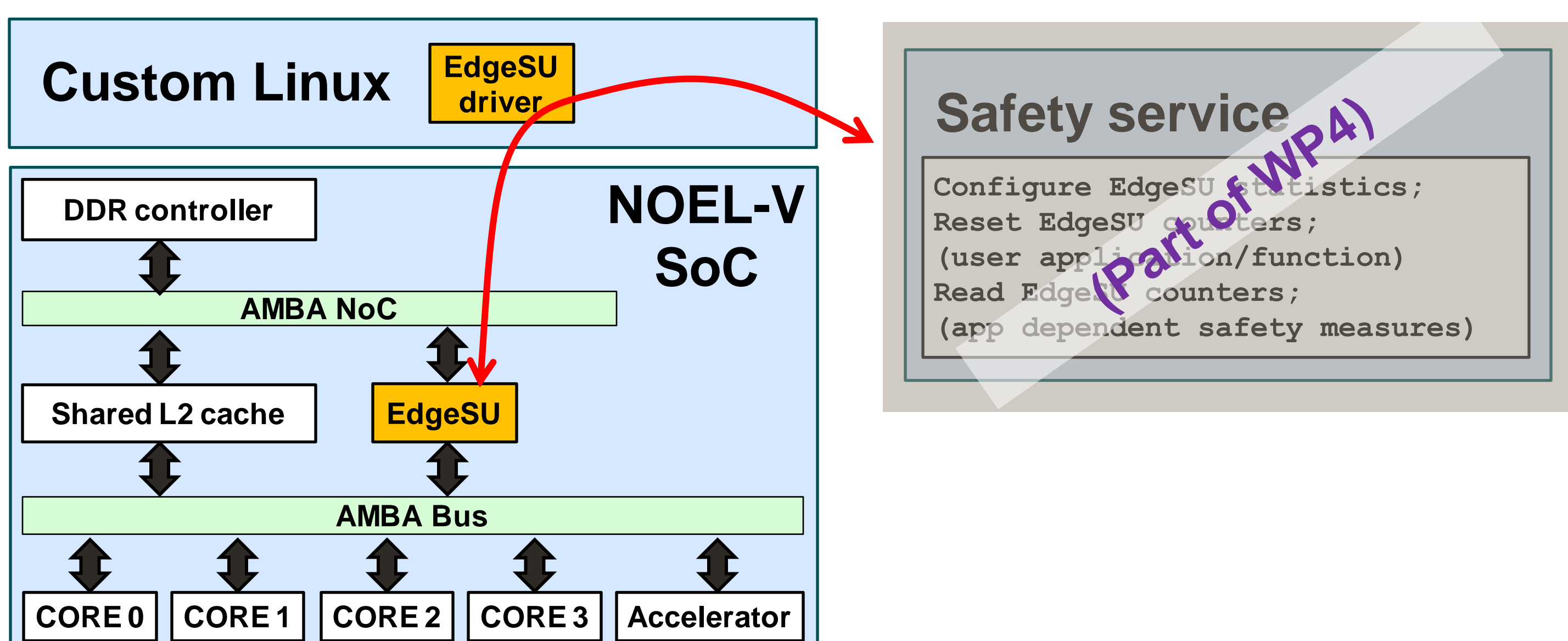
- Objective of the component:
 - AXI-compliant statistics unit to support safety measures and validation in the context of edge systems (WP3T31-01)
 - Driver for the statistics unit supporting safety measures and validation in edge systems. (WP3T34-01)
- Fractal Features associated:
 - SAFETY → MONITORING → PERFORMANCE (WP3T31-01, WP3T34-01)
 - ADAPTABILITY → EXTENSIBILITY → PORT CONNECTIONS → AXI PORTS (WP3T31-01)
- Inputs/Outputs:
 - (input) specific statistics to be used in the EdgeSU
 - (output) values read from the corresponding counters of the EdgeSU
- Integration:
 - NOEL-V
 - UC-7



Component location



Images/Diagrams to describe the component and its processes



Get started

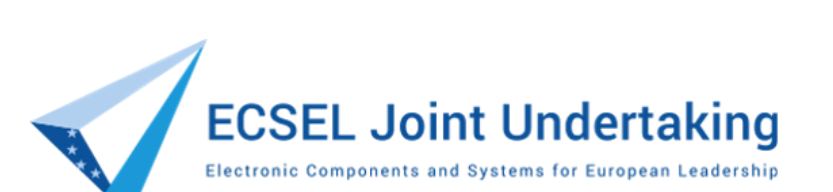
The components can be used with the appropriate safety service in WP4 to measure how much interference a given core or accelerator experiences, and who generates such interference.

1. Configure EdgeSU statistics;
2. Reset EdgeSU counters;
3. (user application/function)
4. Read EdgeSU counters;
5. (app dependent safety measures)

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