WP3 Node Architecture & Building Blocks

WP3T31-01: Edge-oriented monitoring unit WP3T34-01: Driver for Edge-oriented monitoring unit



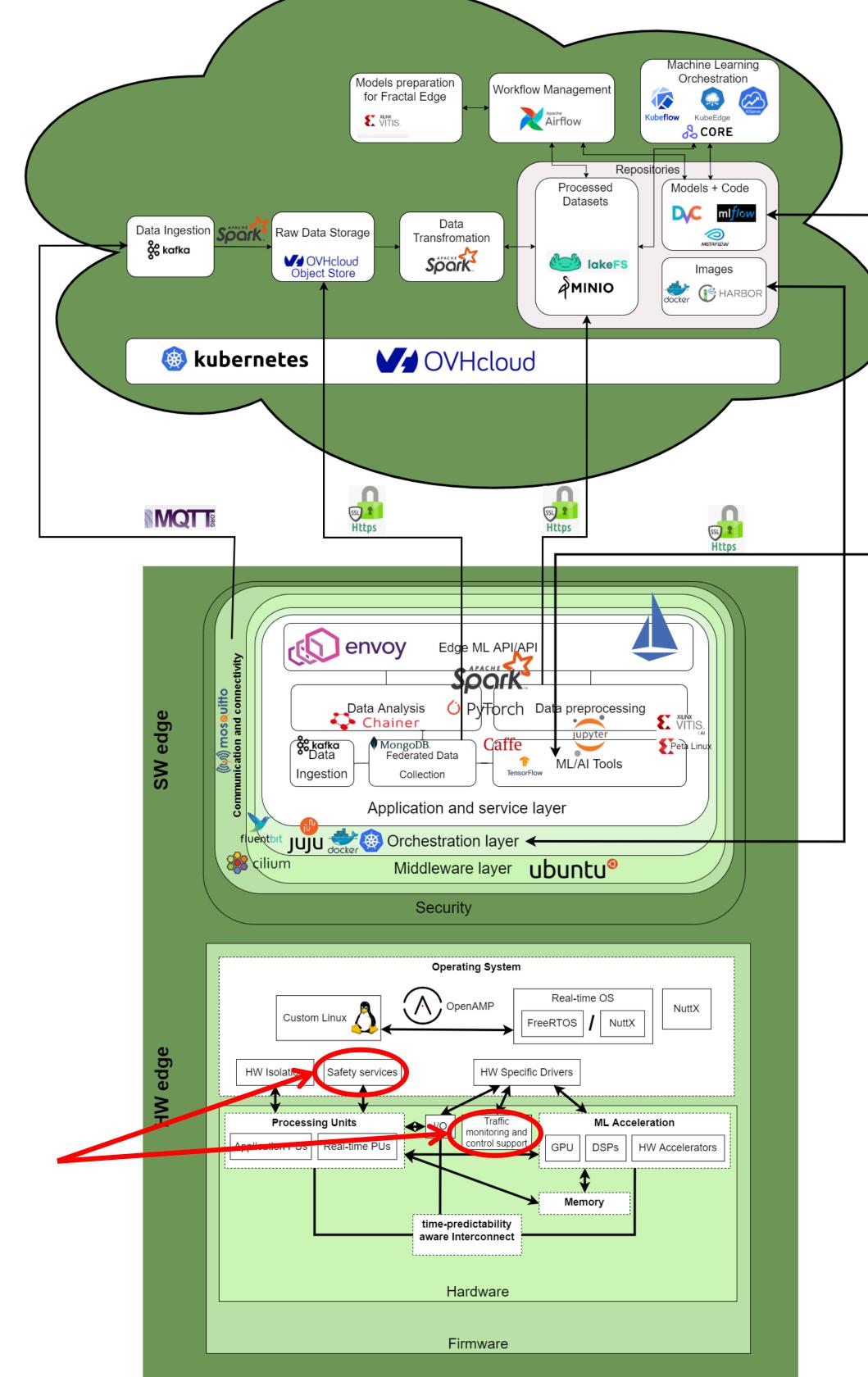


Component description



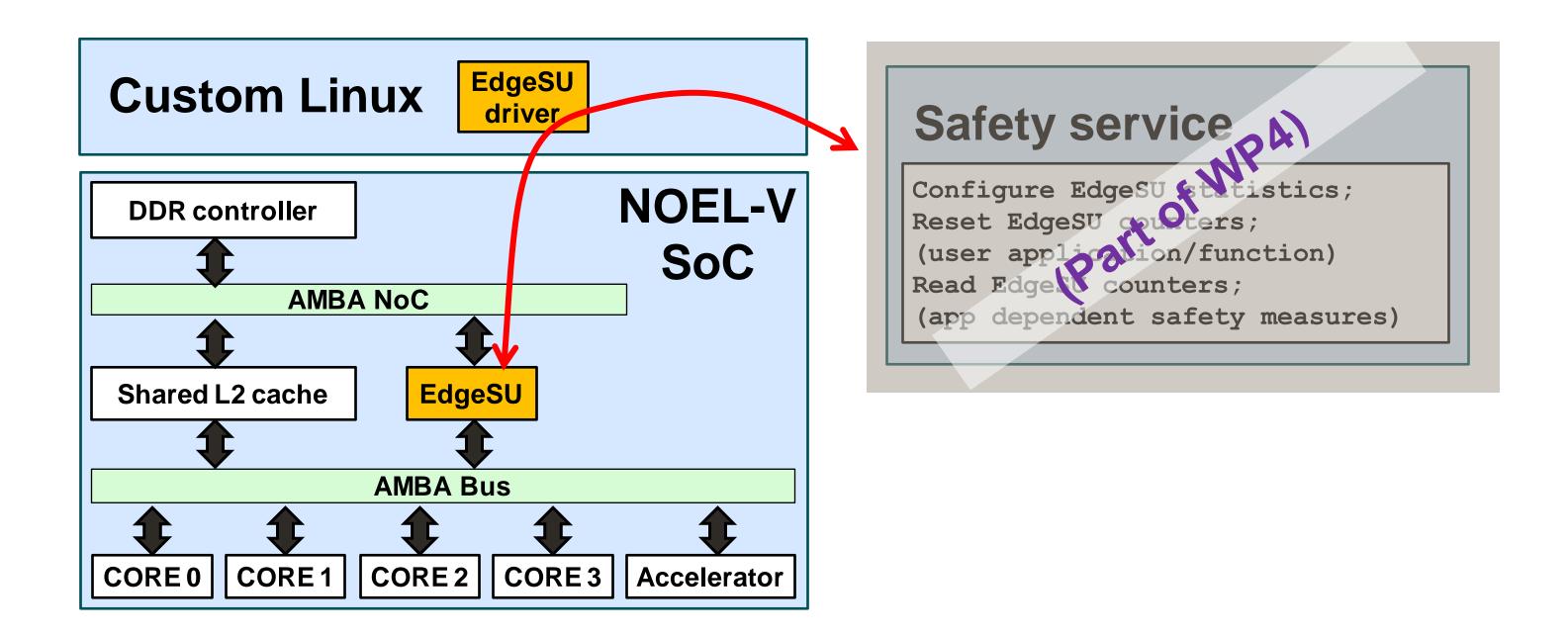
Component location

- 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 \rightarrow EXTENSIBILITY \rightarrow PORT CONNECTIONS \rightarrow 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





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)





