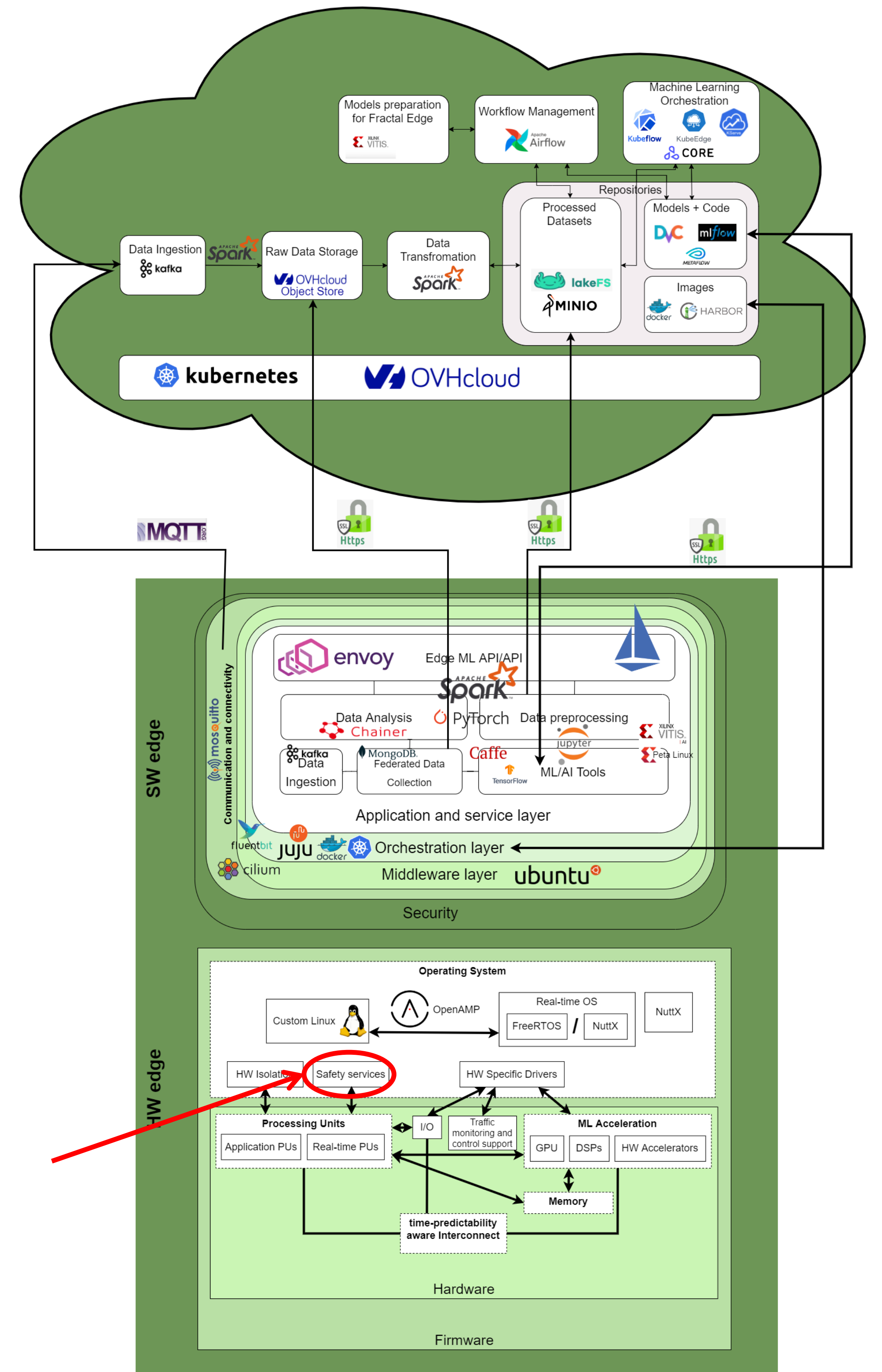


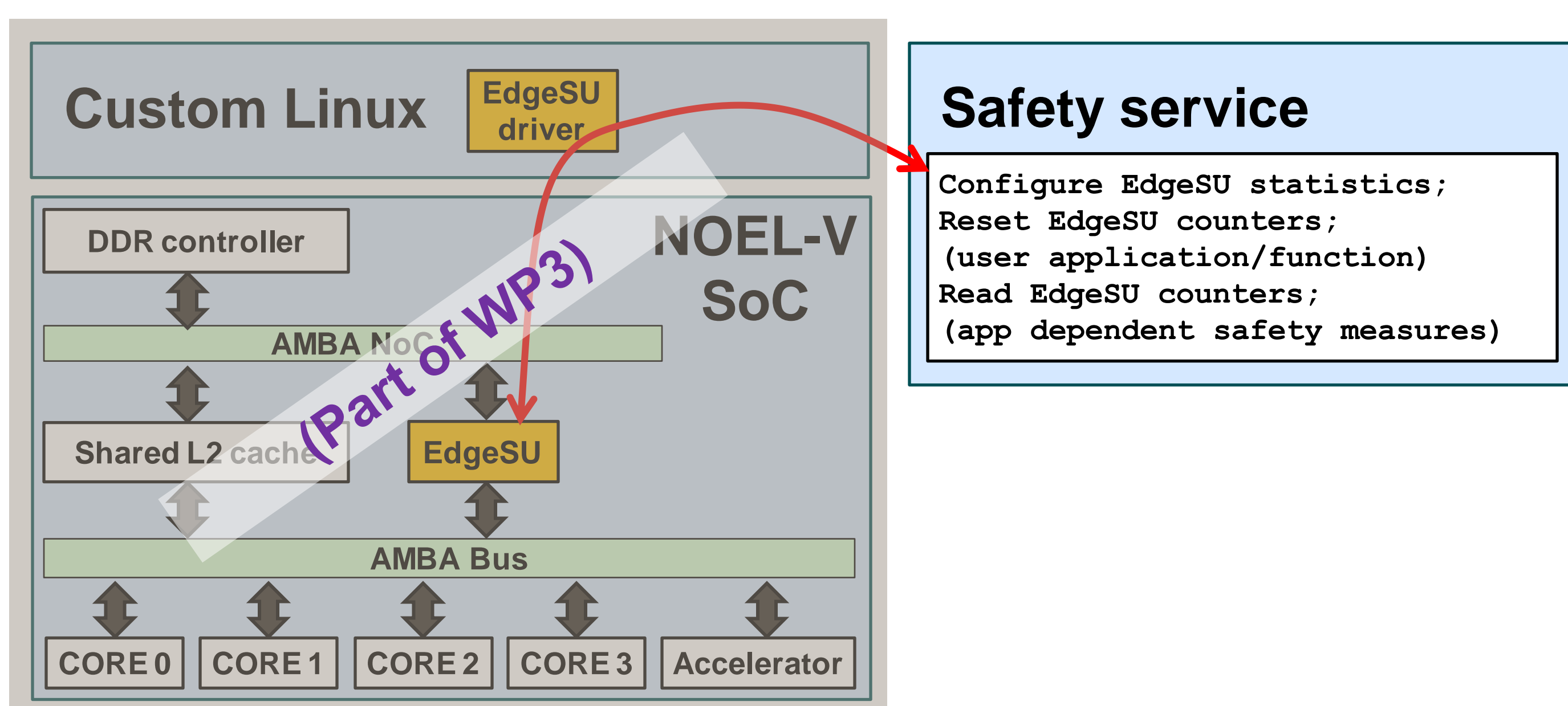
### Component description

### Component location

- Objective of the component:
  - Services to configure the multicore-aware monitoring unit and retrieve information on the multicore interference observed (WP4T43-01)
- Fractal Features associated:
  - SAFETY → MONITORING → PERFORMANCE (WP4T43-01)
- Inputs/Outputs:
  - (input) pointer to the time critical end user application/function whose interference must be monitored by the EdgeSU
  - (output) interference measured by the EdgeSU by the corresponding application/function
- Integration:
  - NOEL-V
  - UC-7



### Images/Diagrams to describe the component and its processes



### Get started

The components can be used to implement timing related safety services to manage scenarios where a core or accelerator causes too much interference on other cores or accelerators.

The integration with the UC is as follows:

1. Configure EdgeSU statistics;
2. Reset EdgeSU counters;
3. (user application/function) ← Time critical end user application
4. Read EdgeSU counters;
5. (app dependent safety measures) ← Application-dependent safety measure where interference measured is compared against pre-defined thresholds and, upon violation, system-level actions are taken (e.g., operate in a degraded mode if too many violations occurred)