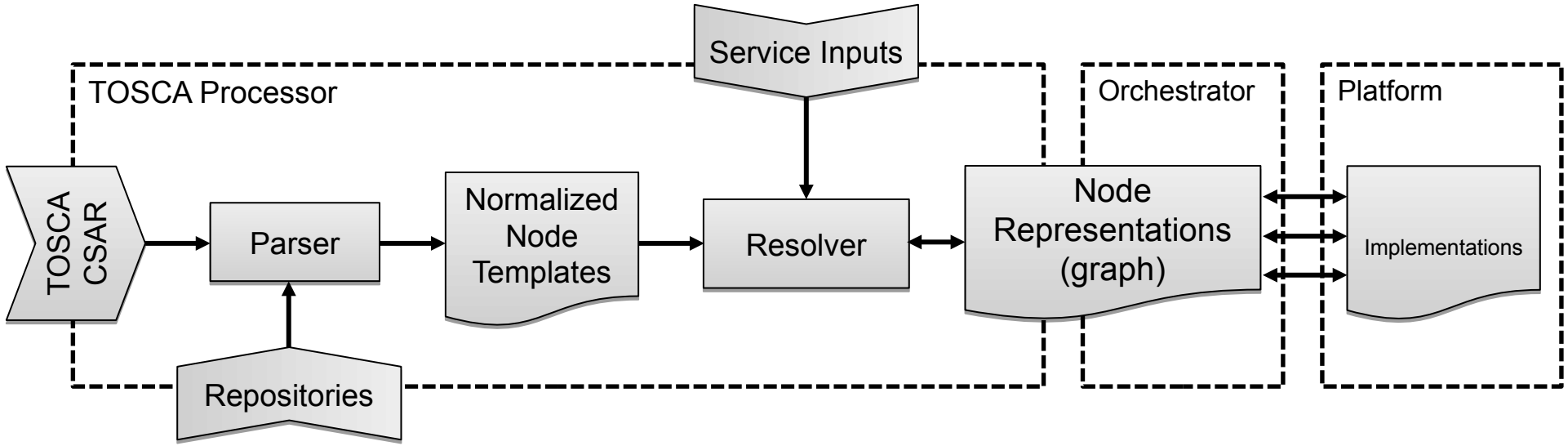
Generic TOSCA Processor



1. Parser
- Accepts a single TOSCA service template plus imported TOSCA “units” (files without a “topology_template”)
- Can (optionally) import these units from one or more repositories, either individually or as complete profiles
- Outputs valid normalized node templates and unresolved requirements (one-to-one equivalency)

2. Resolver
- Applies service inputs
- Satisfies all requirements and creates the relationship graph (an unsatisfied requirement results in an error)
- Converts normalized node templates to node representations (one-to-one equivalency *[cardinality?]*) *[a full TOSCA orchestrator can manage these instead of the external orchestrator/platform]*
- Calls intrinsic functions (on demand for all the above) using the graph of node representations

3. Out of the scope of the processor
- (Continuously) turns node representations into zero or more node instances (one-to-any)
- (Continuously) calls operations on node instances
- (Continuously) updates node representation attribute values (error if they do not adhere to TOSCA type constraints) *[we still don’t know how to handle multiplicity]*
- (Continuously) reactivates the resolver: outputs and even satisfaction of requirements may change
- (Optionally) changes the node representations themselves for day 2 transformations