Policy Framework Update

Policy Framework Team
Istanbul Achievements
Apex-PDP Enhancements

- Integration with Strimzi Kafka for both input & output events.
Apex-PDP Enhancements

- Analytics
- Trigger Event
- Output Event
- APEX-PDP
- Actors (CDS, SDNC, SO, etc.)
- Action (Netconf, Rest, gRPC, etc.)
Apex-PDP Enhancements

Analytics → Apex-PDP

- Actor (CDS)
- Actor (SO)
- Actor (SDNC)
Apex-PDP Enhancements

Analytics \rightarrow \text{Trigger Event} \rightarrow \text{Apex-PDP} \rightarrow \text{Actor (CDS)} \rightarrow \text{Actor (SO)} \rightarrow \text{Actor (SDNC)}
Apex-PDP Enhancements

• Reduced verbosity in apex policy definition.

• Optimized logging – around 60-70% reduction in logs with no information loss. ELK stack is much happier now 😊
Apex-PDP Enhancements

• Engine instances are now dedicated for each Tosca policy.
Apex-PDP Enhancements

- Ability to send multiple output events, thereby triggering multiple actions in actors/controllers parallelly.
- Adds more flexibility to use case designers.
- Can support complex use cases with parallel & sequential execution requirements.
- Improve stability in production deployments.
- Expose possibilities for monitoring & alerting deployments.
Policy Audit Capabilities

Admin

Create
Delete

Deploy
Undeploy

API

PAP

Policy Audit

Policy DB

DMaaP

Apex-PDP

Drools-PDP

Xacml-PDP
System Metrics

- All Policy components are now exposing system (default jvm) metrics via Prometheus.
- Users can now plugin Prometheus & Grafana tools to visualize & monitor stats exposed by policy components.