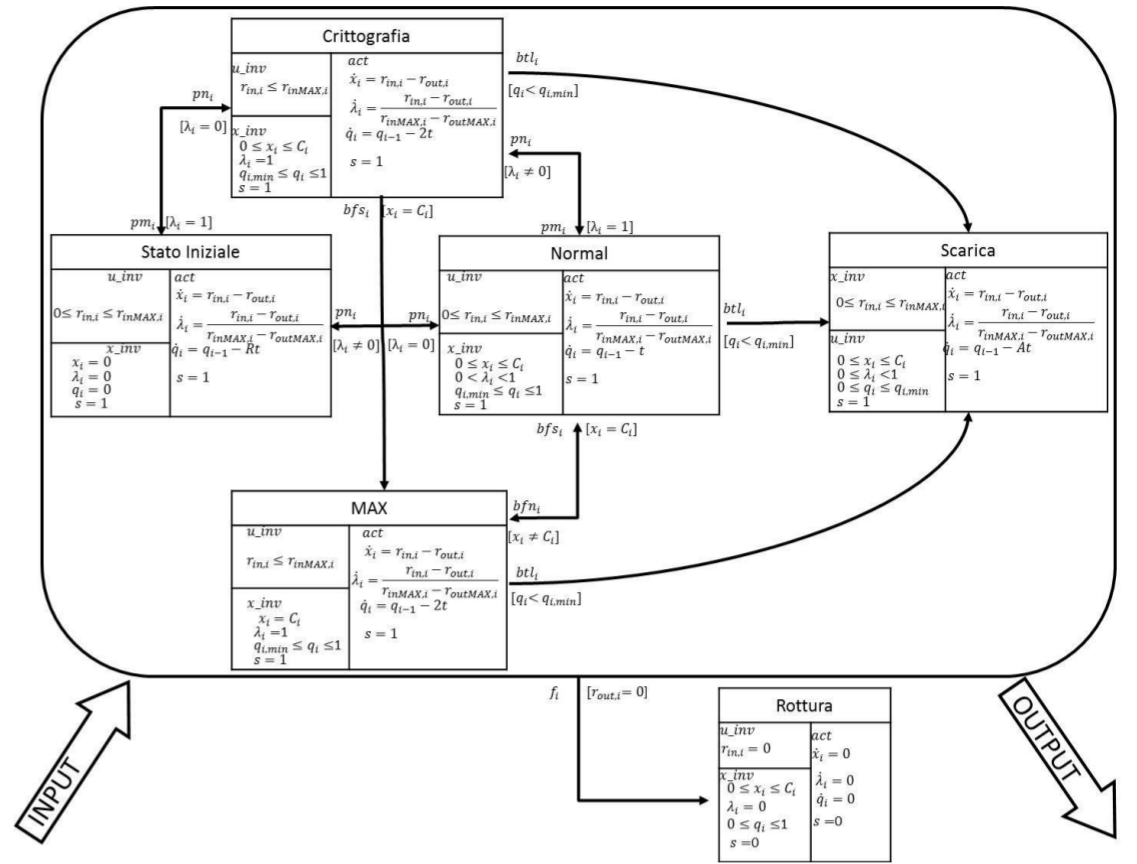


WP5 – SPD Middleware & Overlay
Task 5.2 Core SPD services
Task 5.3 Policy-based management
Task 5.4 Overlay monitoring and reacting system by security agents

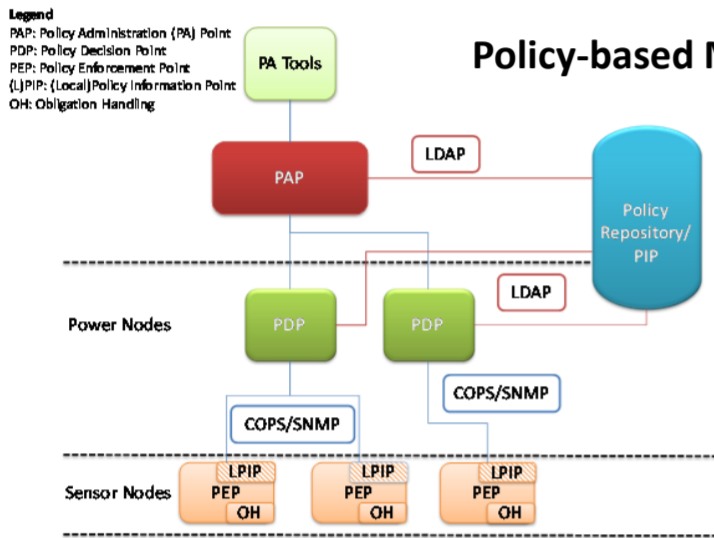
This prototype presents key concepts of pSHIELD Middleware:

- Policy-based management (technological scouting)
- Overlay conceptual architecture, modelling and control algorithms
- Core SPD services and composition demonstration

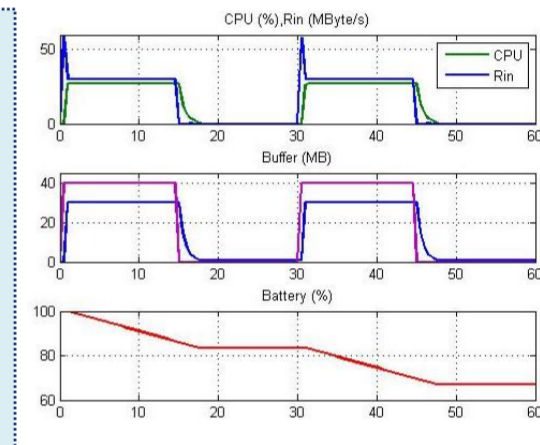
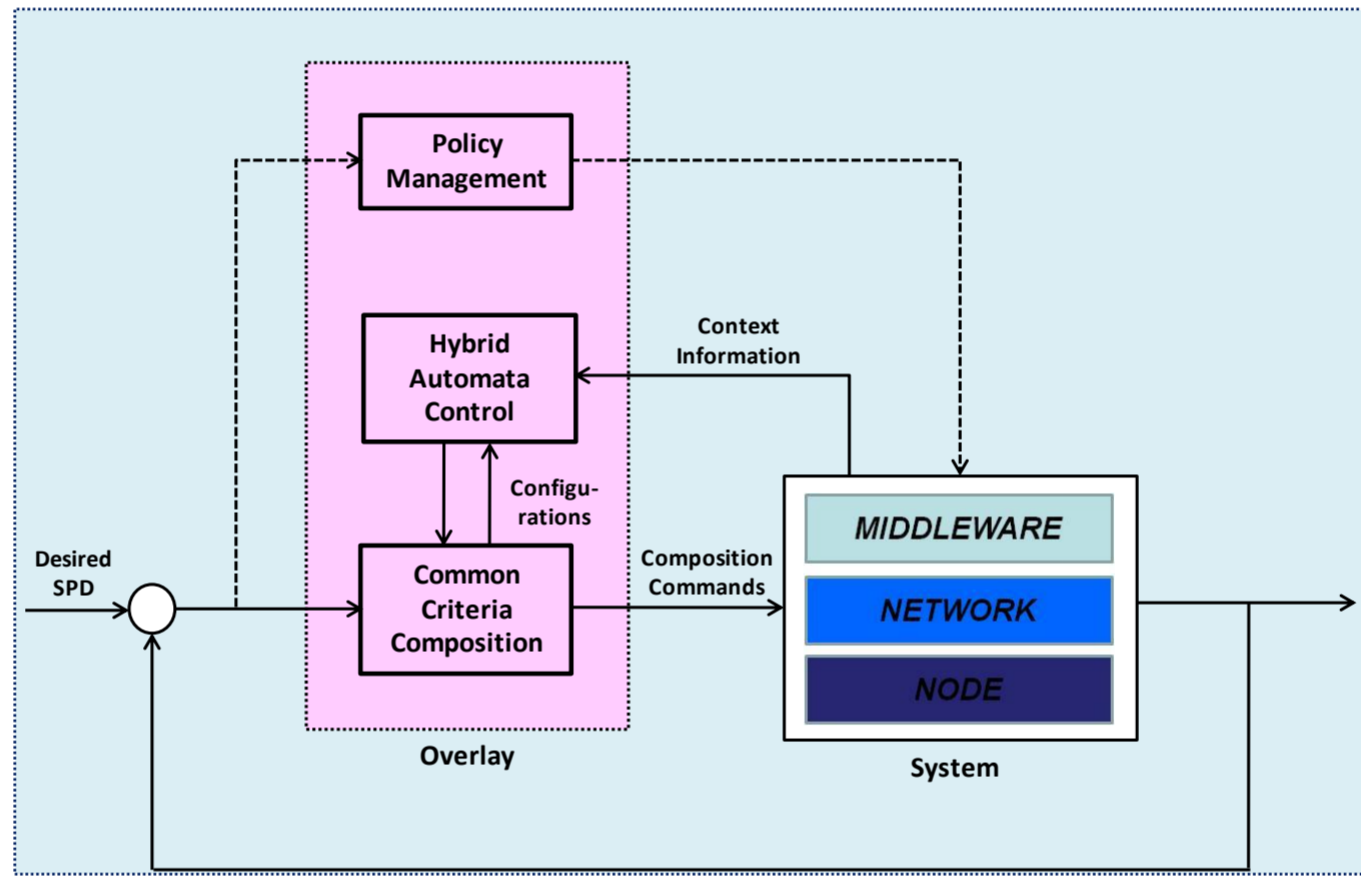
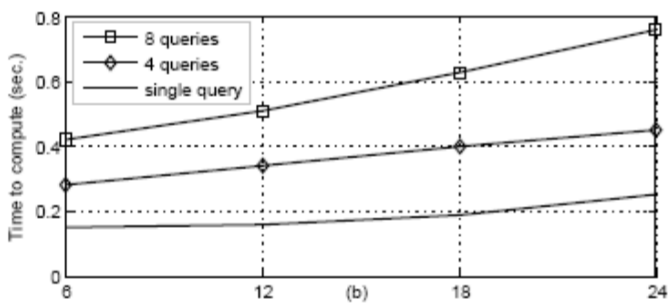
pSHIELD Node Innovative Model (Hybrid Automata Theory)



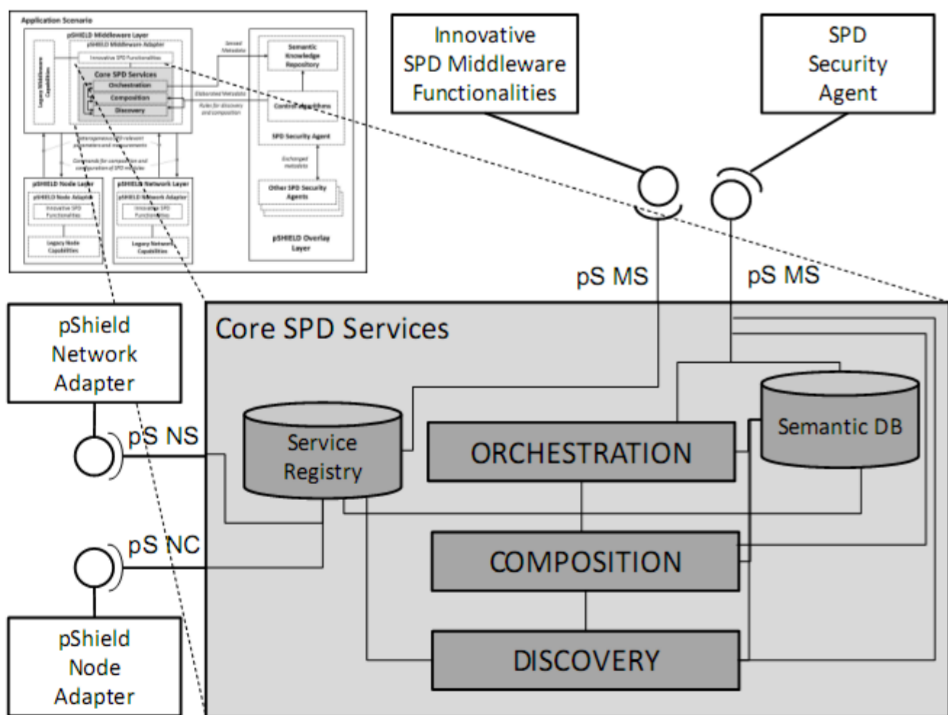
Policy-based Management



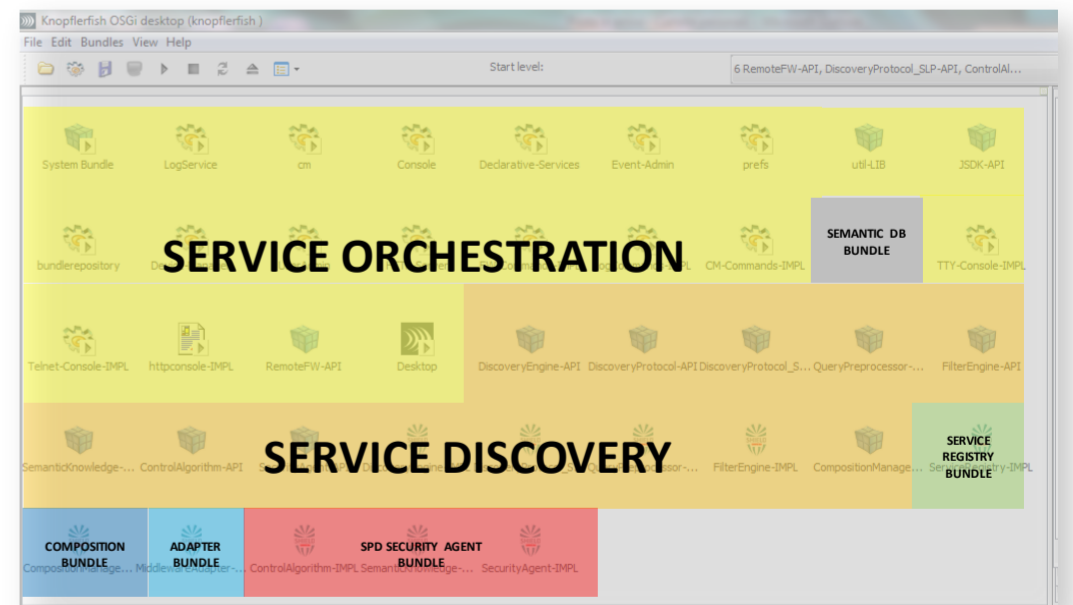
Implications for pSHIELD: Latency is one of the QoS requirements for Web services at Middleware level; latency includes request processing time. Simultaneous policy execution takes increasing amount of time.



Model Predictive Control with context information

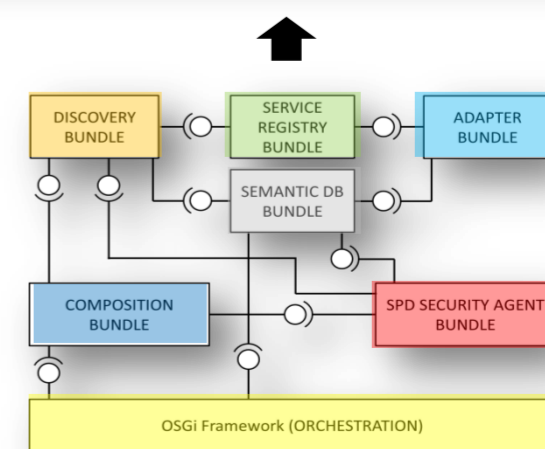
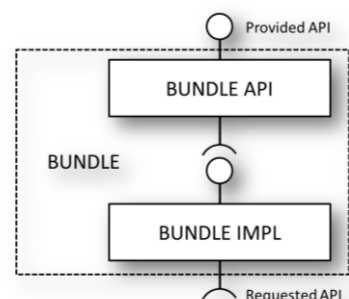


OSGI Platform



Each service as been implemented as a **BUNDLE**.
Each bundle is composed by a:

- Interface (BUNDLE API) that exports APIs
- Implementation (BUNDLE IMPL) that imports APIs



WP5 Prototype Architecture