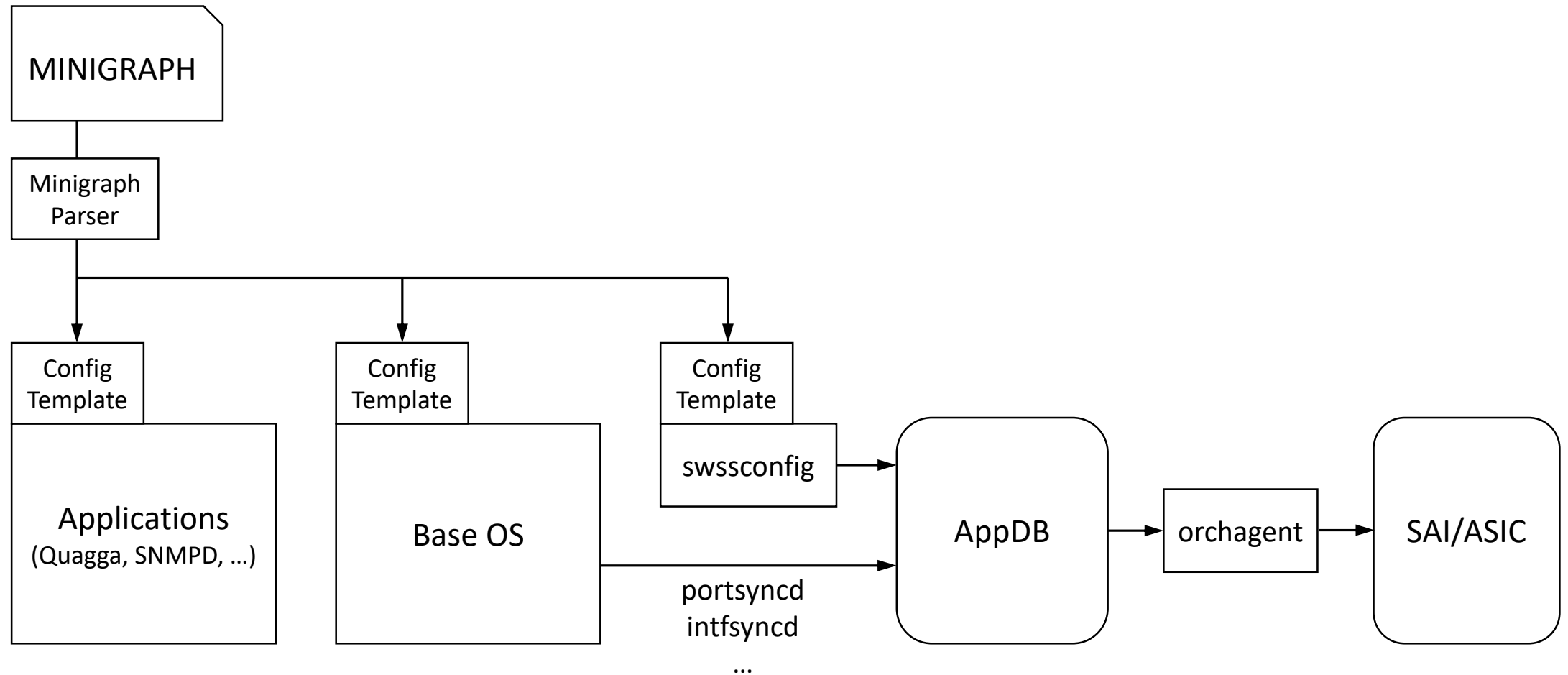


Configuration in SONiC

OCP 2018

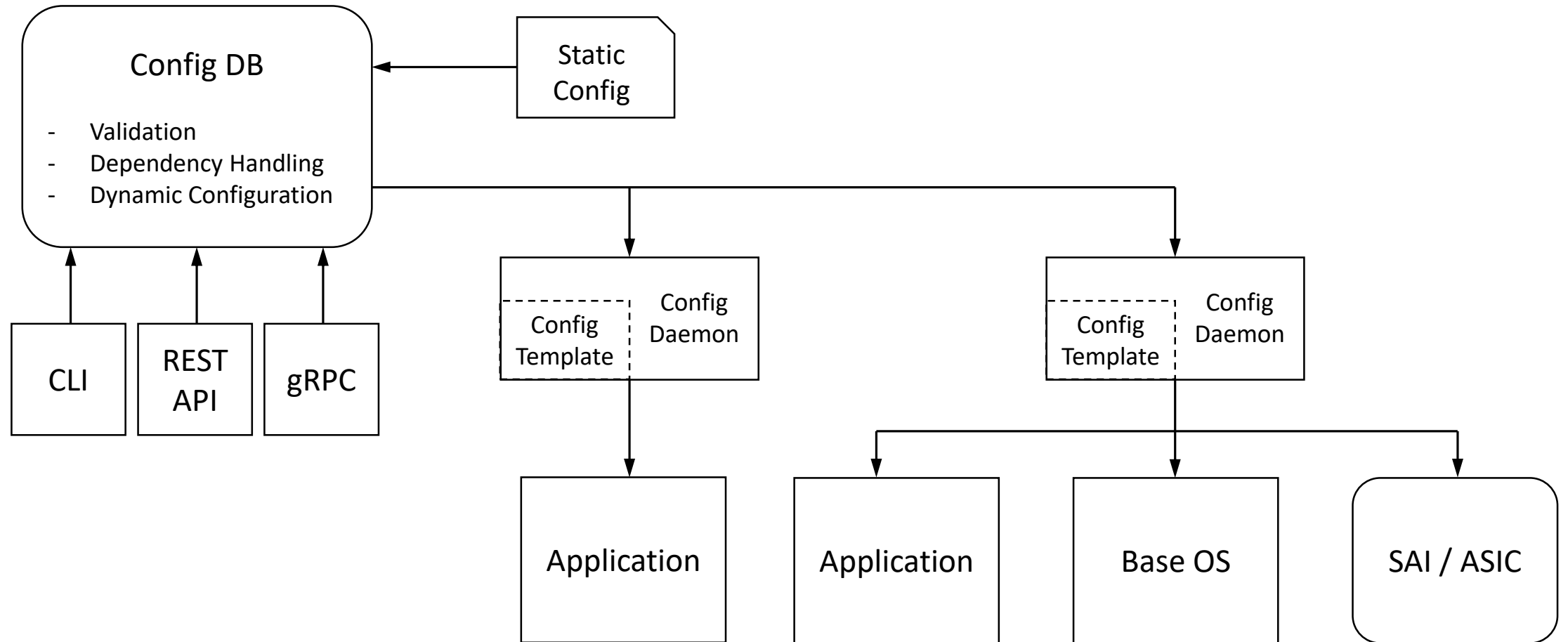
Ver 1.0: Configuration w/ Static Config File



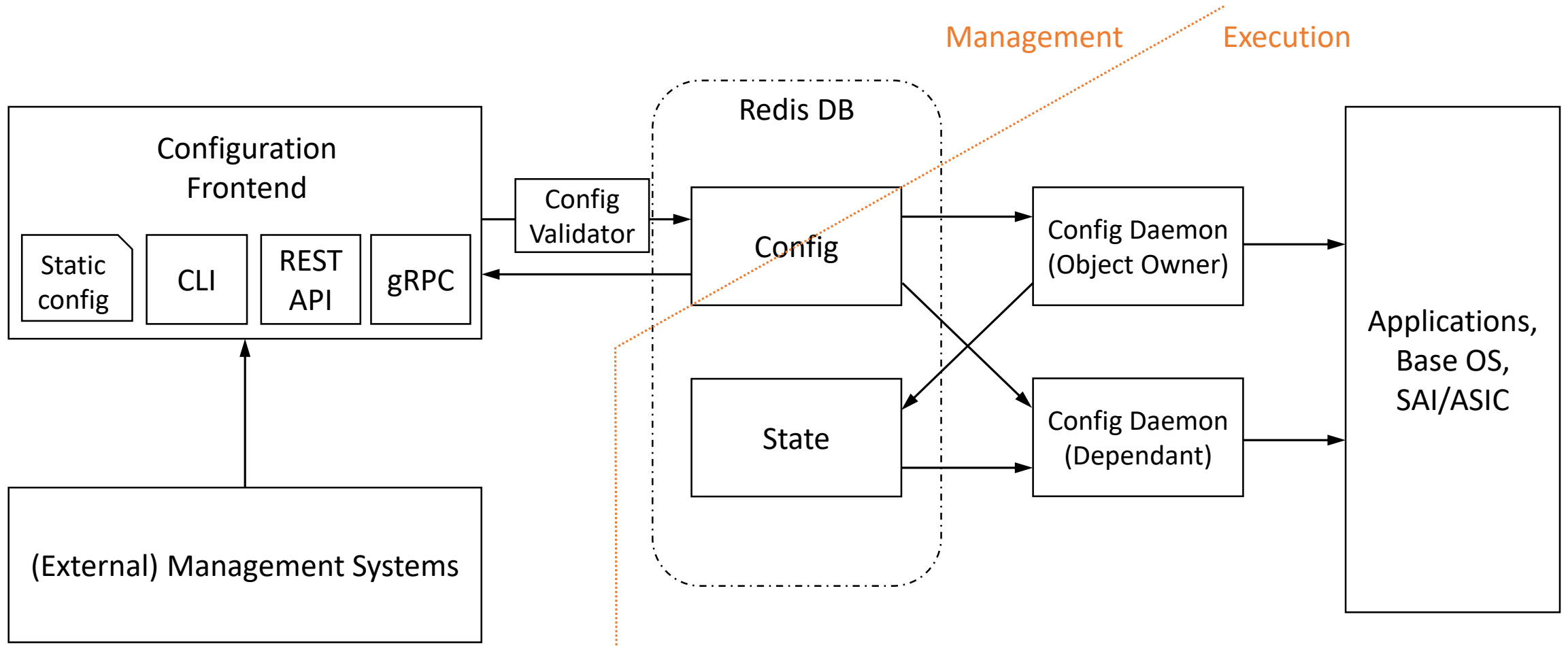
Challenges

- Dynamic configuration
- Object dependency handling
- Frontend flexibility

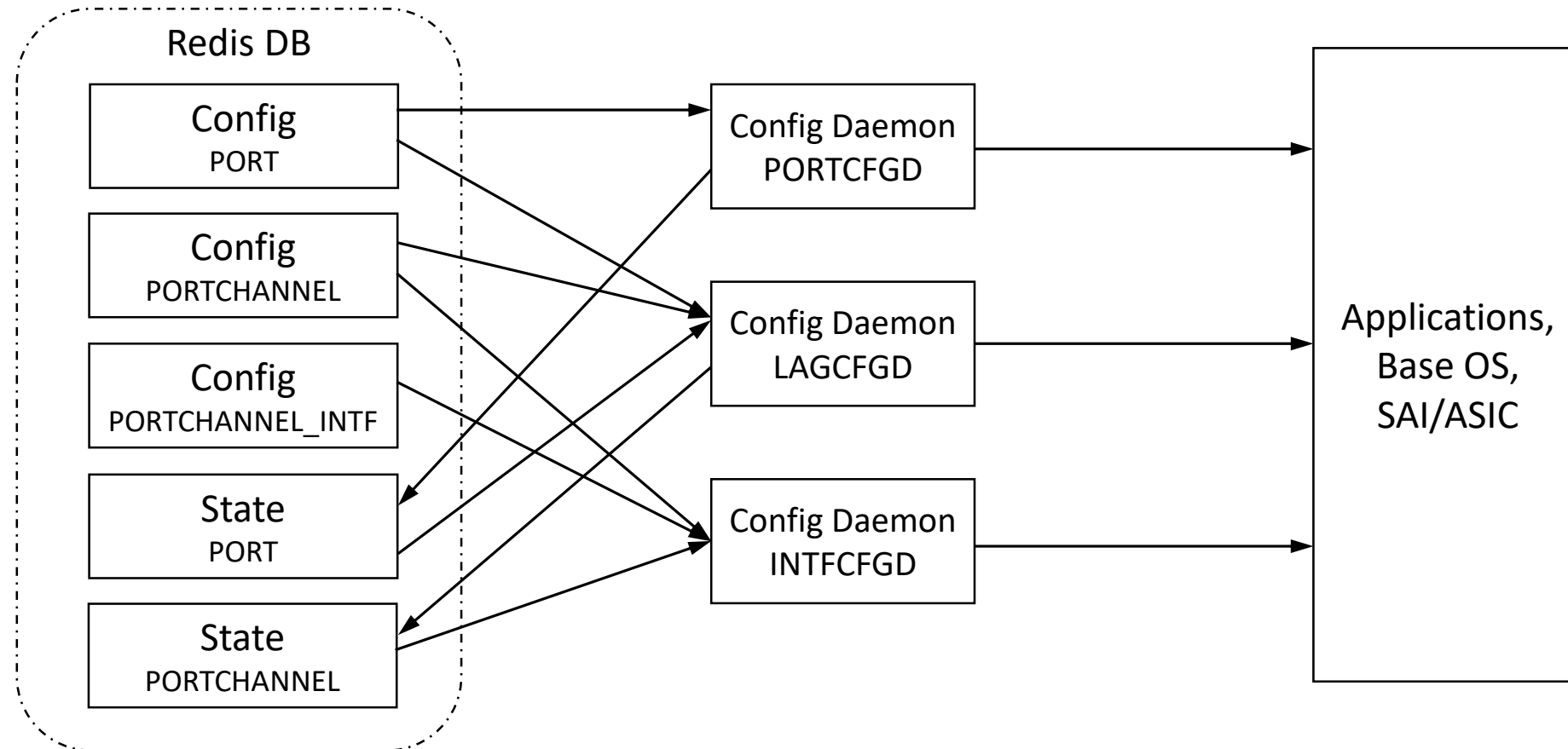
Configuration with ConfigDB



ConfigDB in Detail



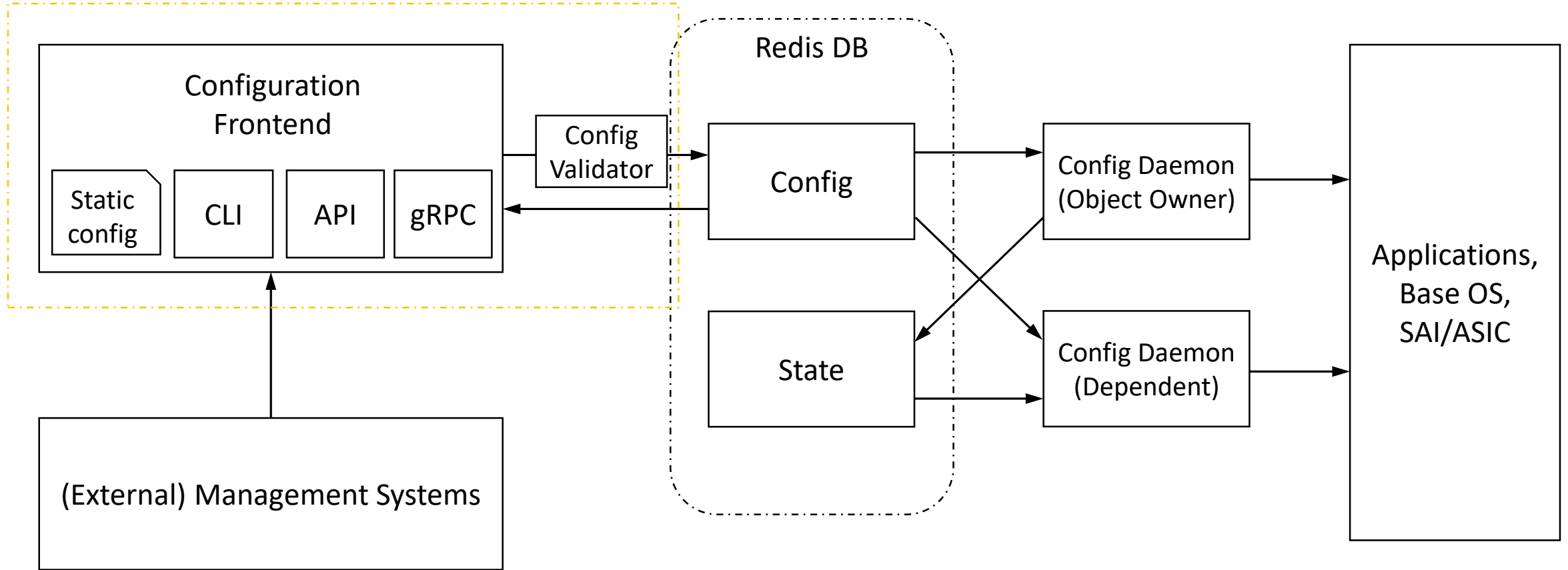
Configuration Execution w/ ConfigDB



Configuration Frontend

Pravin Gohite, LinkedIn

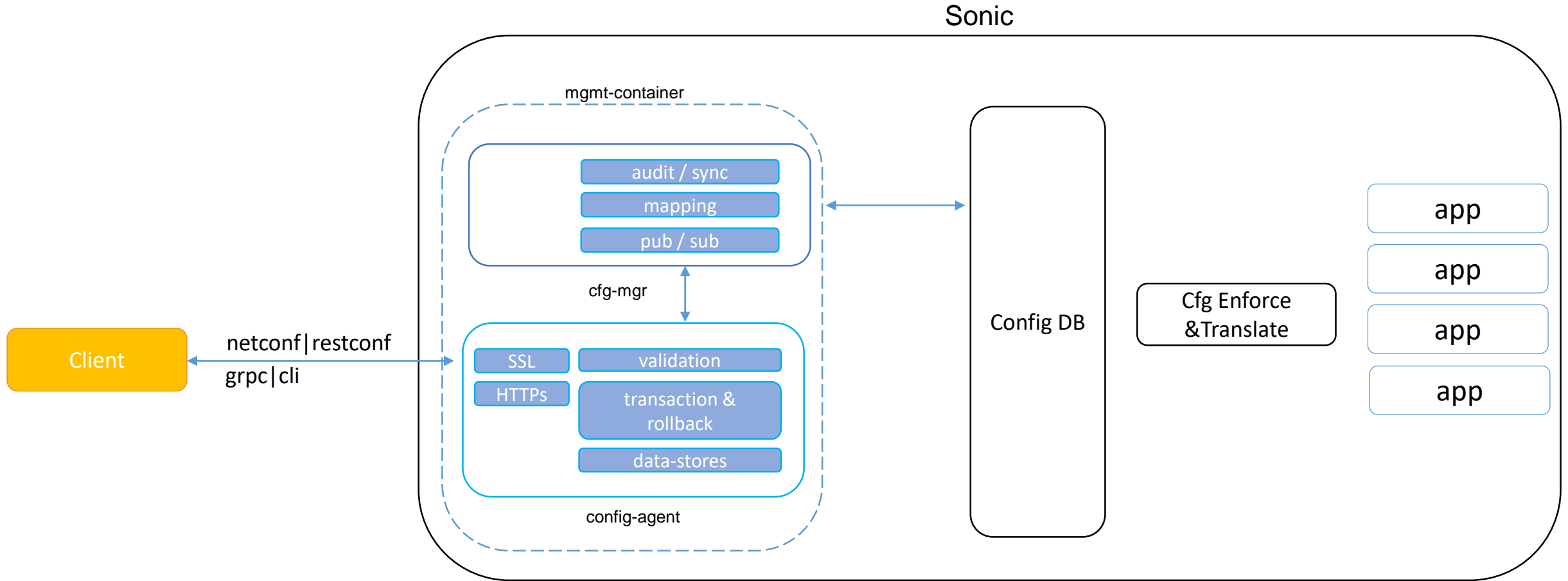
Config Manager



Motivation for Configuration Management

- Use of standard data modeling language (Yang)
- Flexible northbound interfaces
- Automation & Code generation
- Dependency resolution
- Transaction based configuration
- Semantic & Syntactic validation

Config Manager: High Level Interaction



Challenges

- Backward Compatibility
- Industry adaption of data models
- No “one size fits all” models

Q/A and Disucssion