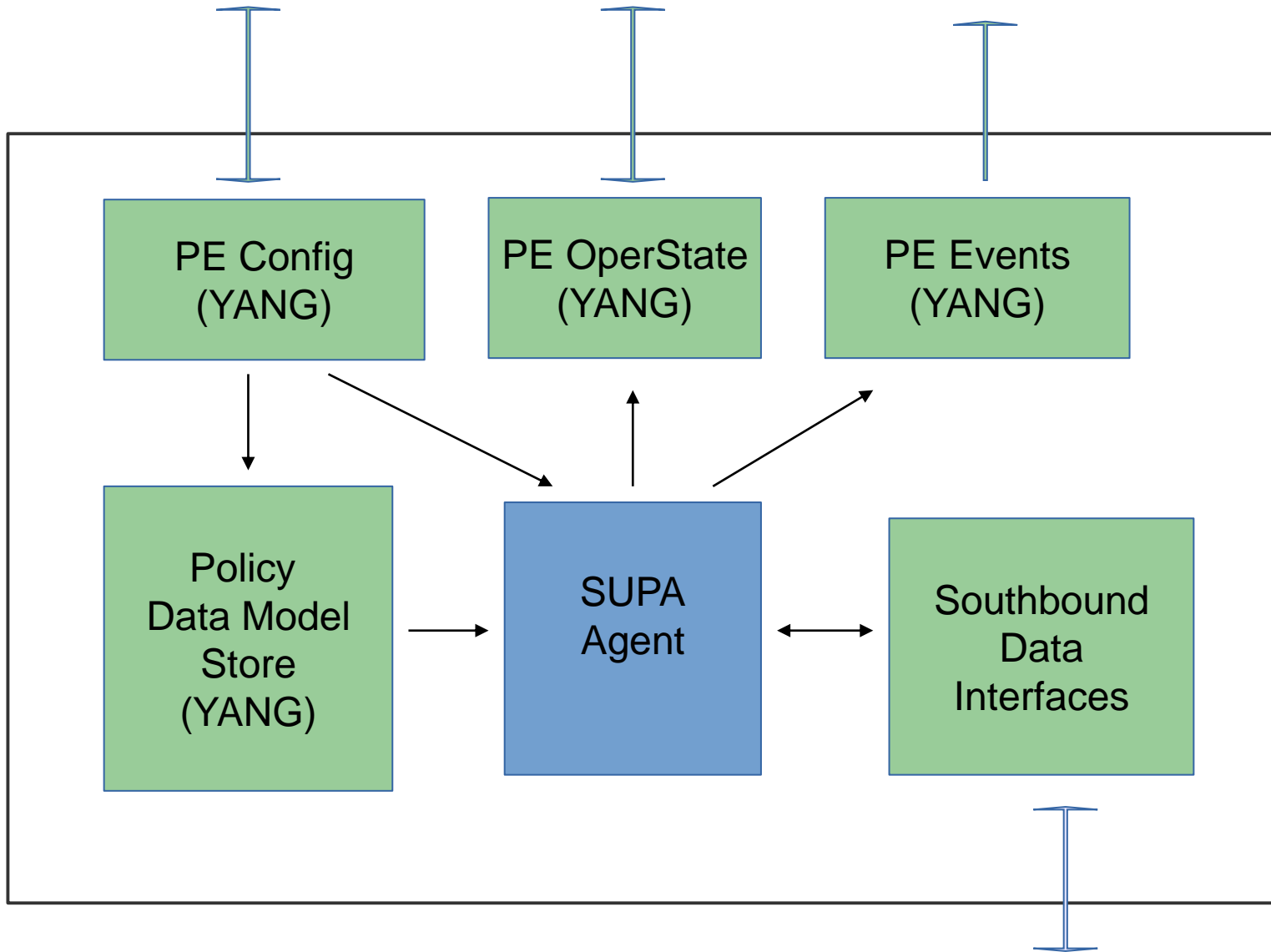


SUPA Policy Engine

- v0.4
- Data Model Design Team

Policy Engine



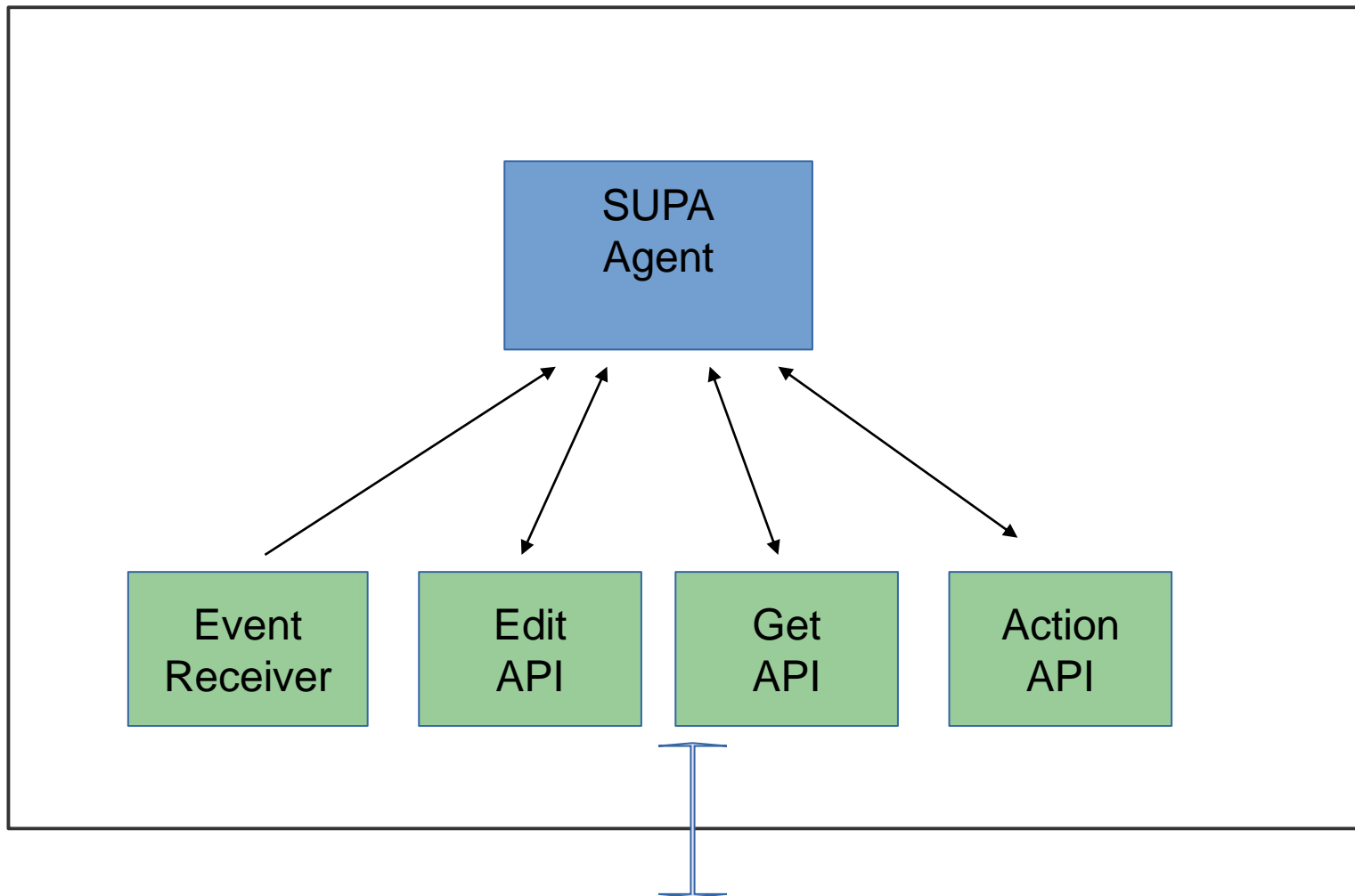
Design Goals

- Provide a consistent framework for policy based management
 - Common northbound interface for policy
 - Common design templates for data models
 - Common typedefs, groupings notifications
 - Common look and feel

SUPA Agent

- Implements the policies contained in the Policy Data Model Store
- Implements the NETCONF or RESTCONF NBI
 - management of the policy engine configuration, operational state, and event notifications
- Implements the Southbound Data Interface
 - Standard conceptual APIs to access configuration, operational state, device actions, and event notifications from a network element

Southbound Data Interface



Policy Engine Configuration

- YANG data model controlling PE behavior
 - base set of standard parameters
 - scope of these parameters still TBD
 - vendor augmentations expected
 - May contain data about control of the policy DM store but does not include the data models
 - Northbound interface NETCONF or RESTCONF
 - YANG 1.1 should be supported
 - YANG data module proposals need to be evaluated

Policy Data Model Store

- Each DM represents a specific policy
 - Each DM has a conceptual API to interact
 - with the Southbound Data Interface
 - The DM will describe the event interface and
 - the operation interface (edit, get, and action)
- The engine is “policy-agnostic”
 - No constraints on the purpose of the policy or the required subset of southbound data interface APIs
 - Standard and vendor policy DMs will coexist
 - Syntax and semantics of DM instance is TBD

ECA Policy

