



IOVisor Module OpenDaylight GBP renderer

endpoint

The thing that wants
to talk. Hosts, VMs, ports,
containers.

ep-group

Groupings of similar
things.

contract

An agreement between
groups about....

subject

rule

classifier

action

subnet

L3
context

L2 flood
context

L2 bridge
context

endpoint

ep-group

contract

subject

rule

classifier

action

subnet

L3
context

L2 bridge
domain

L2 flood
domain

... the things they can talk
about, defined by...

...and what they do when
they hear it.

... what they are listening
for....

endpoint

ep-group

contract

subject

rule

classifier

action

subnet

L3
context

L2 bridge
domain

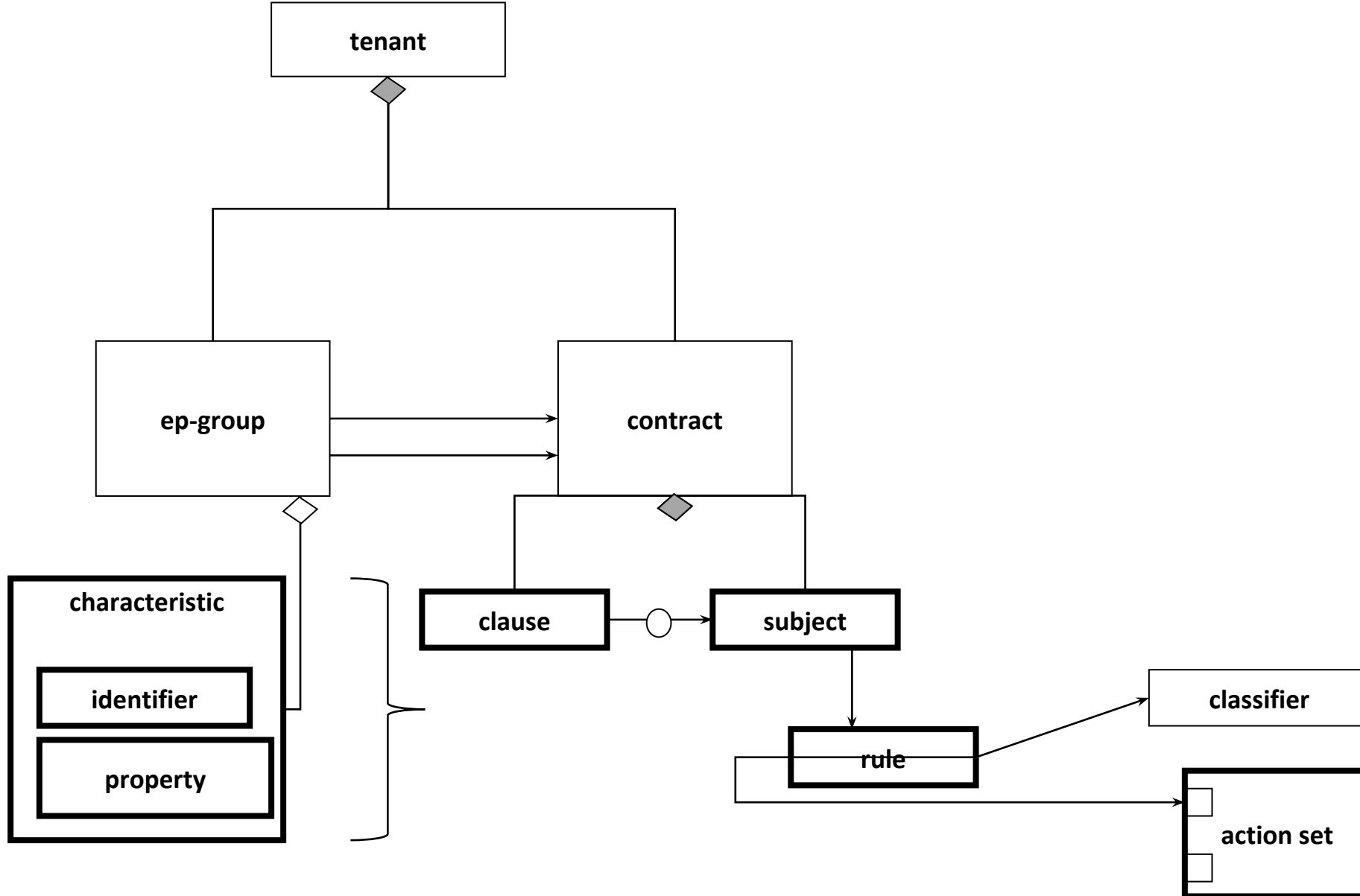
L2 flood
domain

**Layer3 based namespace...
like a VRF, or other L3VPN.**

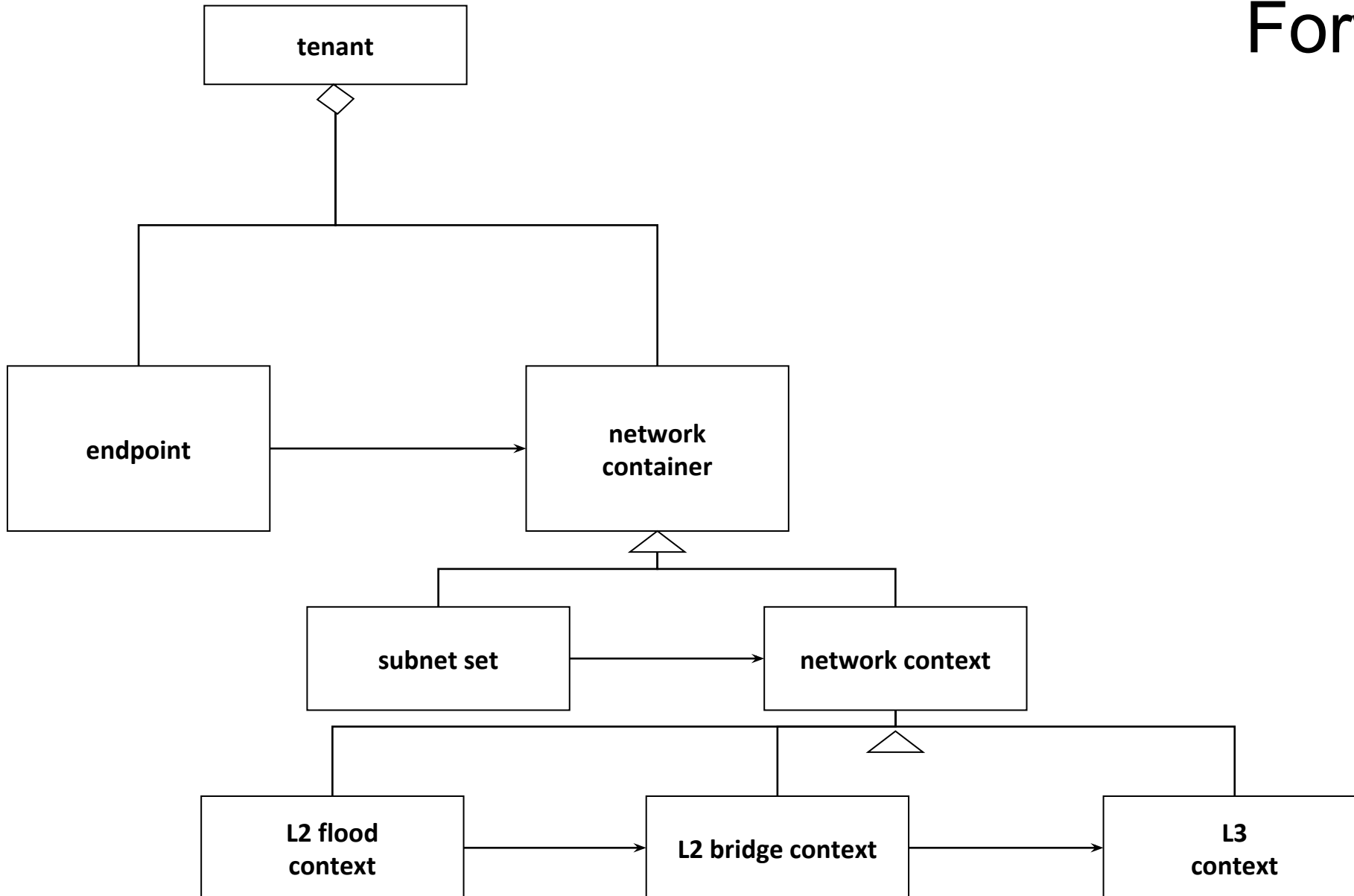
**... Layer2 namespace... a
L2VPN...**

**... where
broadcasts are
limited to.**

Core Model



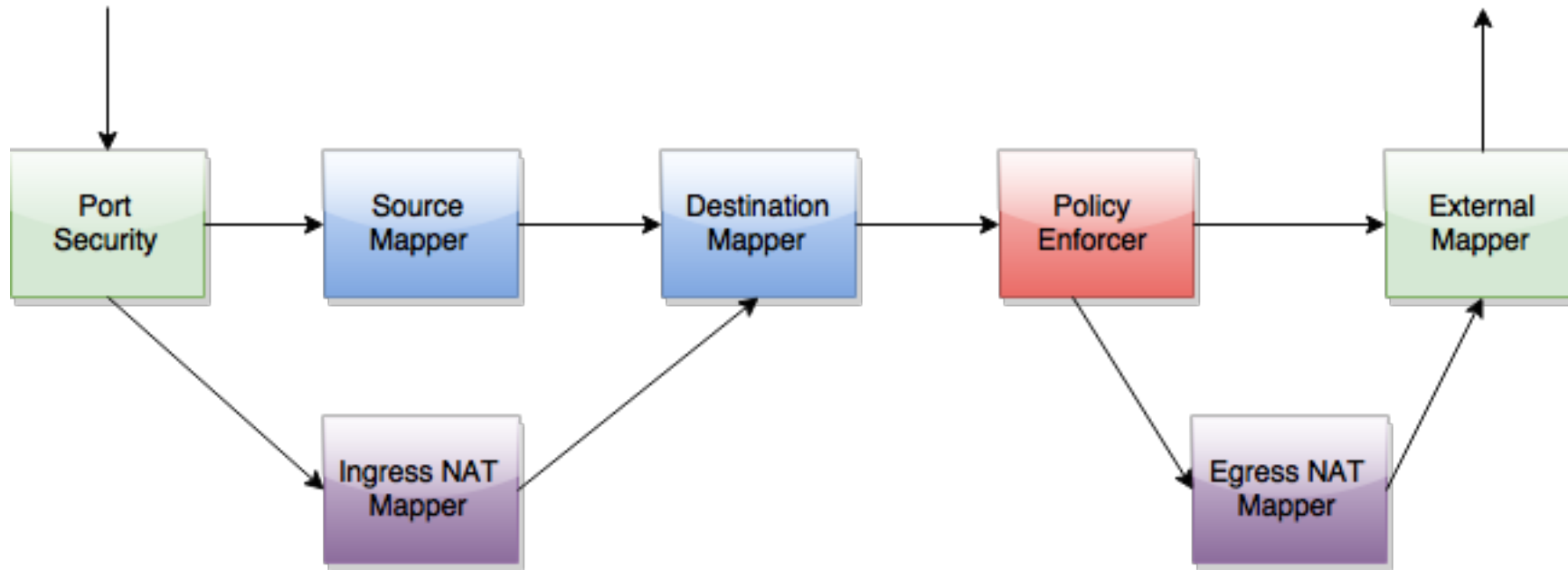
Forwarding Model

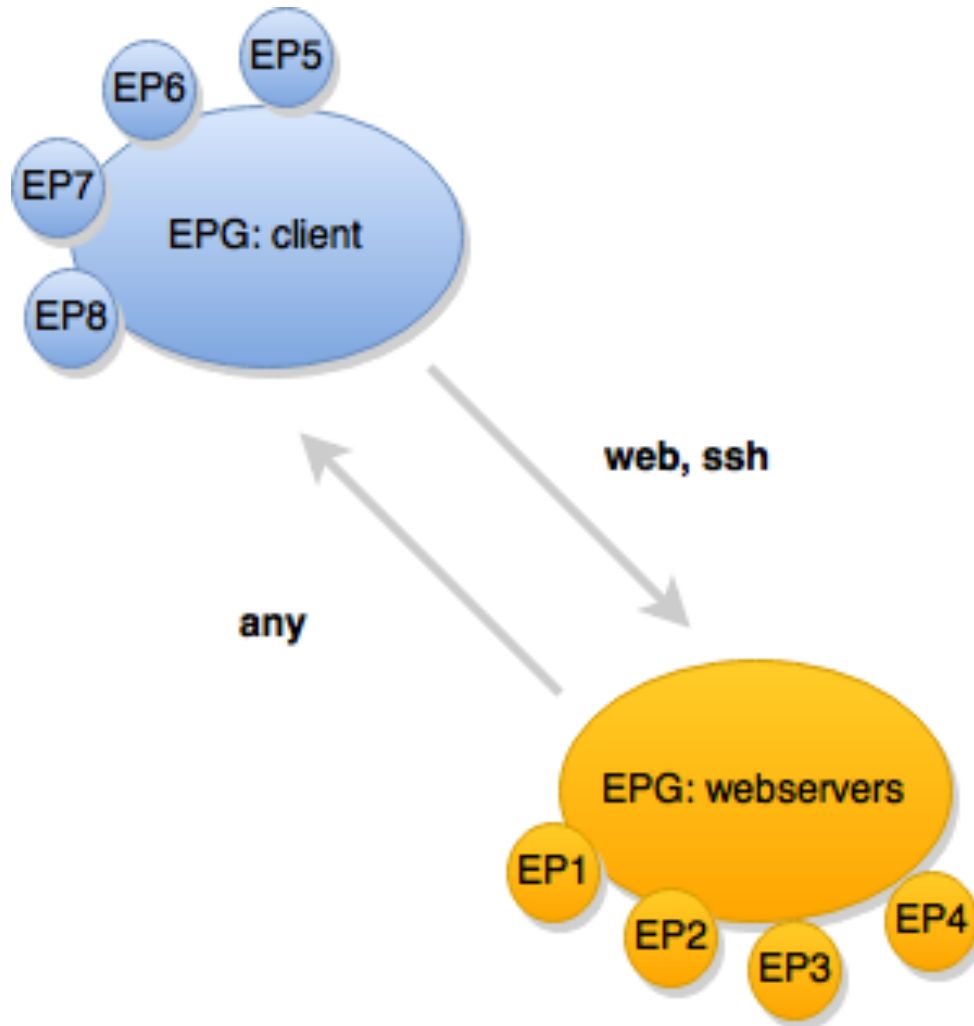


What does a renderer do?

- takes as inputs:
 - resolved policy from PolicyInfo
 - endpoints known to it
 - forwarding model
- determines tenant and EPG for source and destination (classification)
- enforces contract between source EPG and destination EPG (action)

OF Overlay Renderer pipeline





What's a contract?

web



```
match:  
  tcp destport 80  
  direction: in  
action:  
  allow
```

ssh



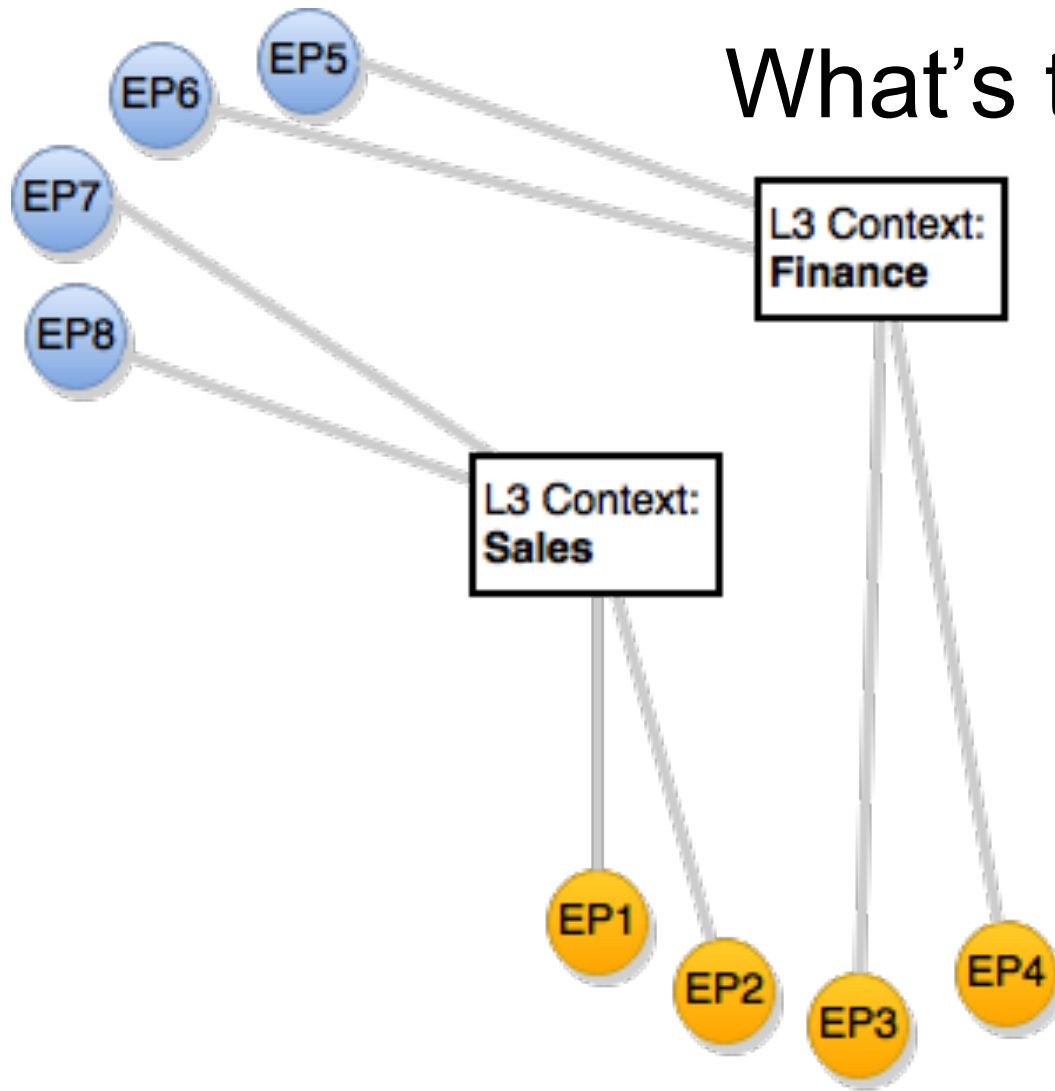
```
match:  
  tcp destport 22  
  direction: in  
action:  
  allow
```

any



```
match:  
  *  
  direction: in  
action:  
  allow
```

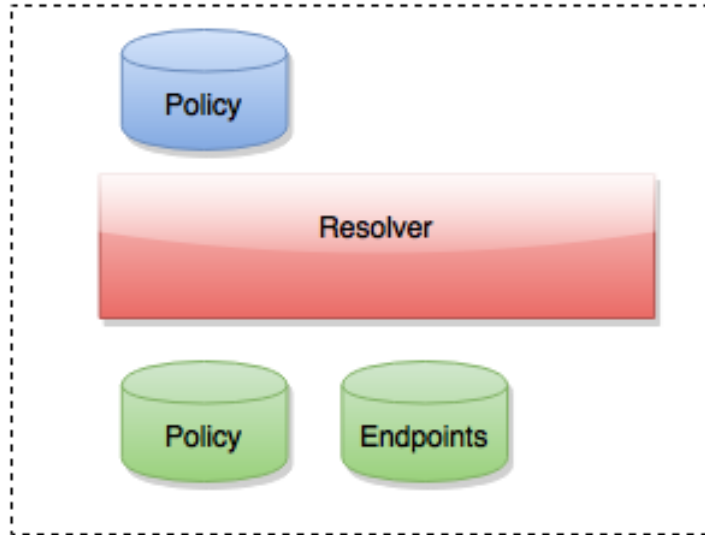
What's the forwarding model do?



OpenStack
Neutron V2.0 API

Neutron NB

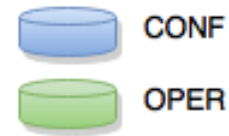
Neutron Mapper



OfOverlay



*Service Function
Chaining*

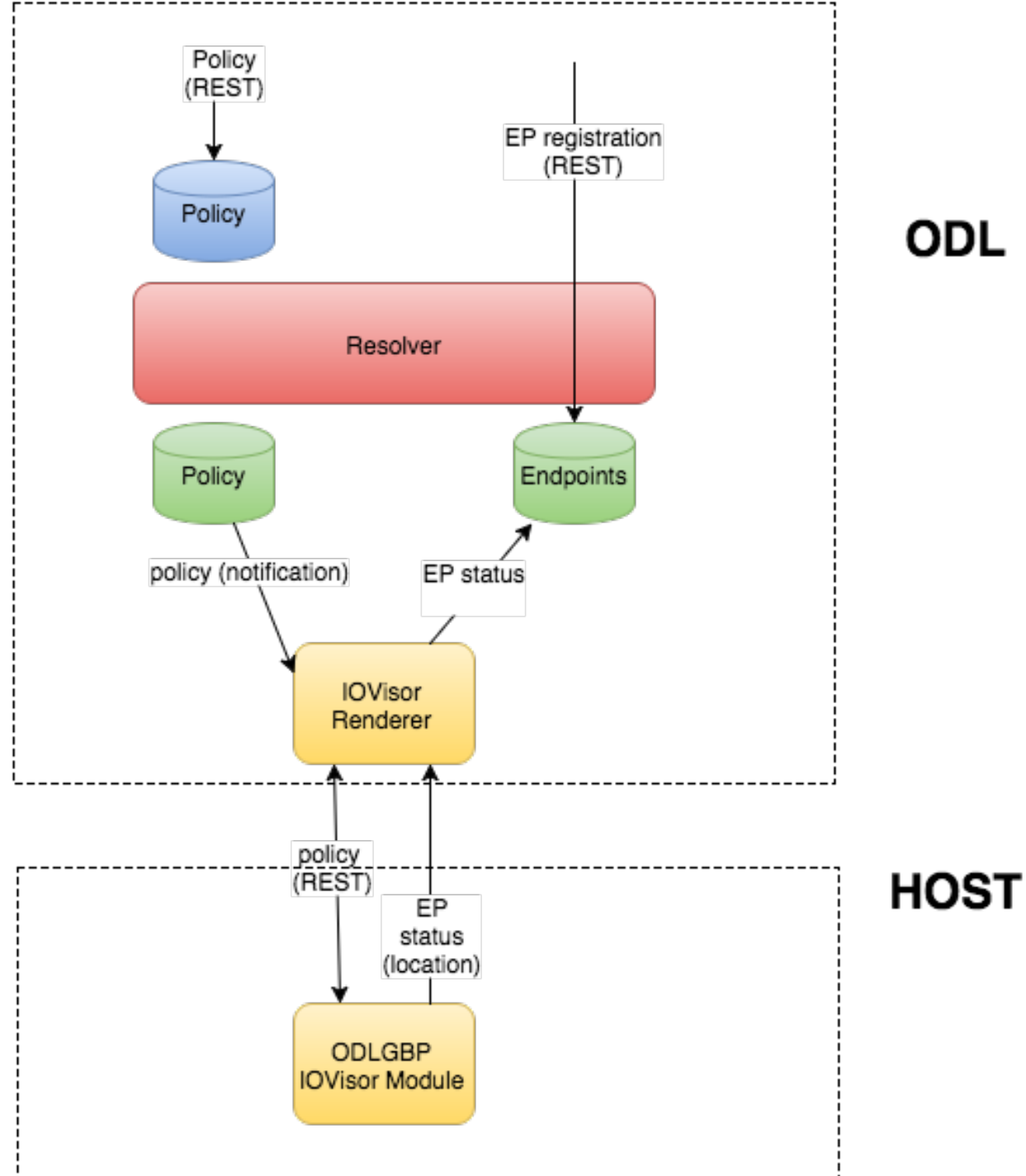


Architecture

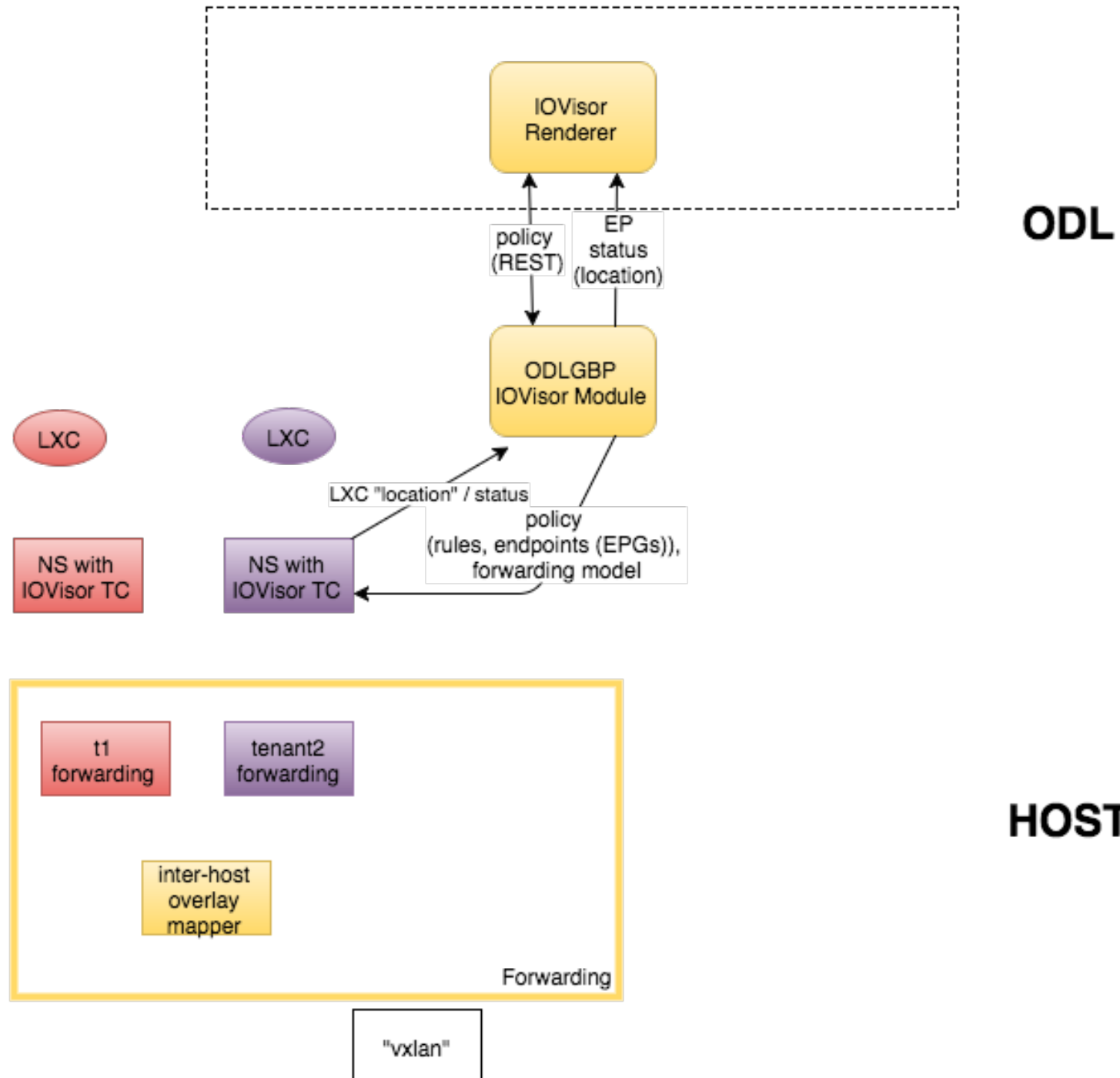
IOVisor Module

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OpenDaylight GBP Renderer

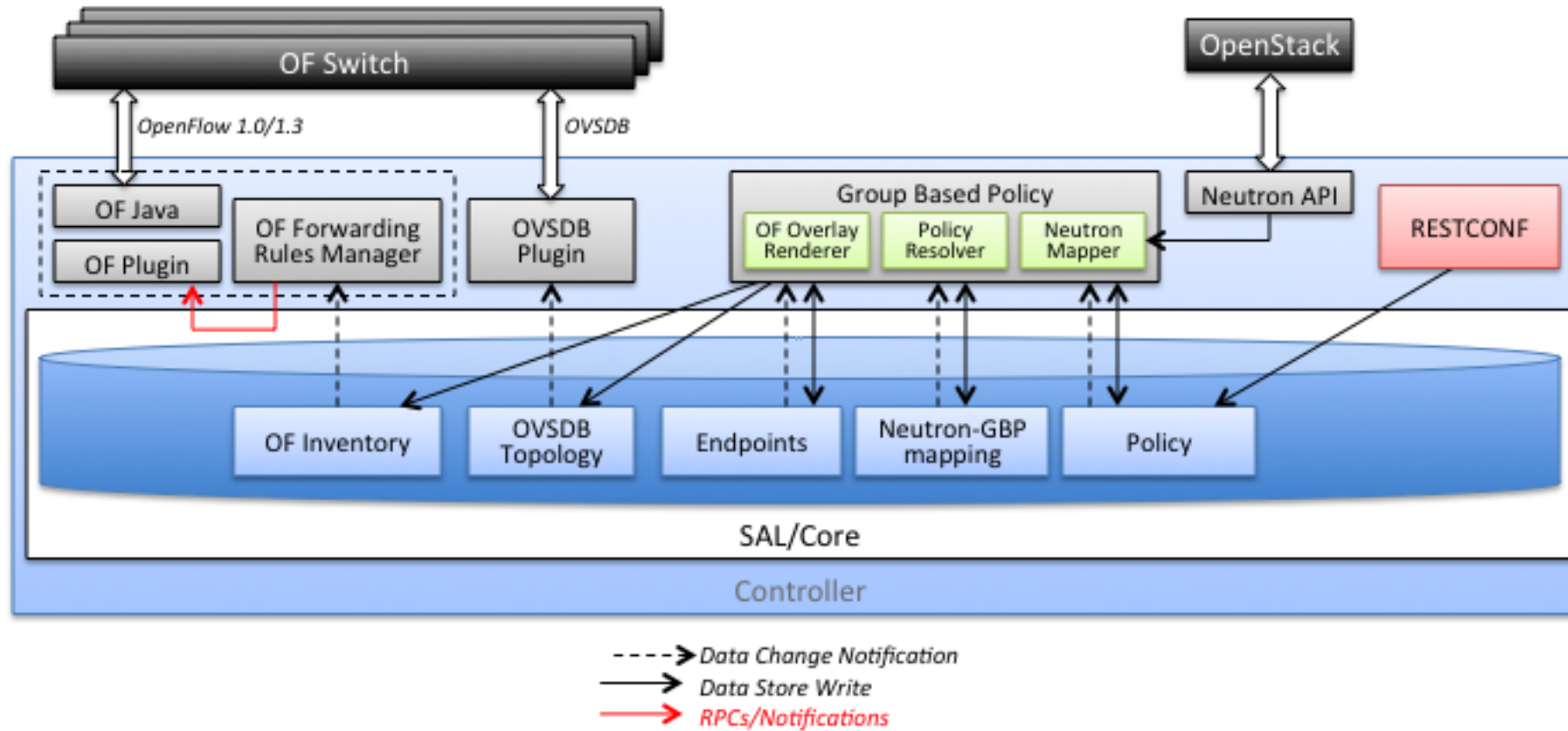


IOVisor Module - OpenDaylight GBP Renderer

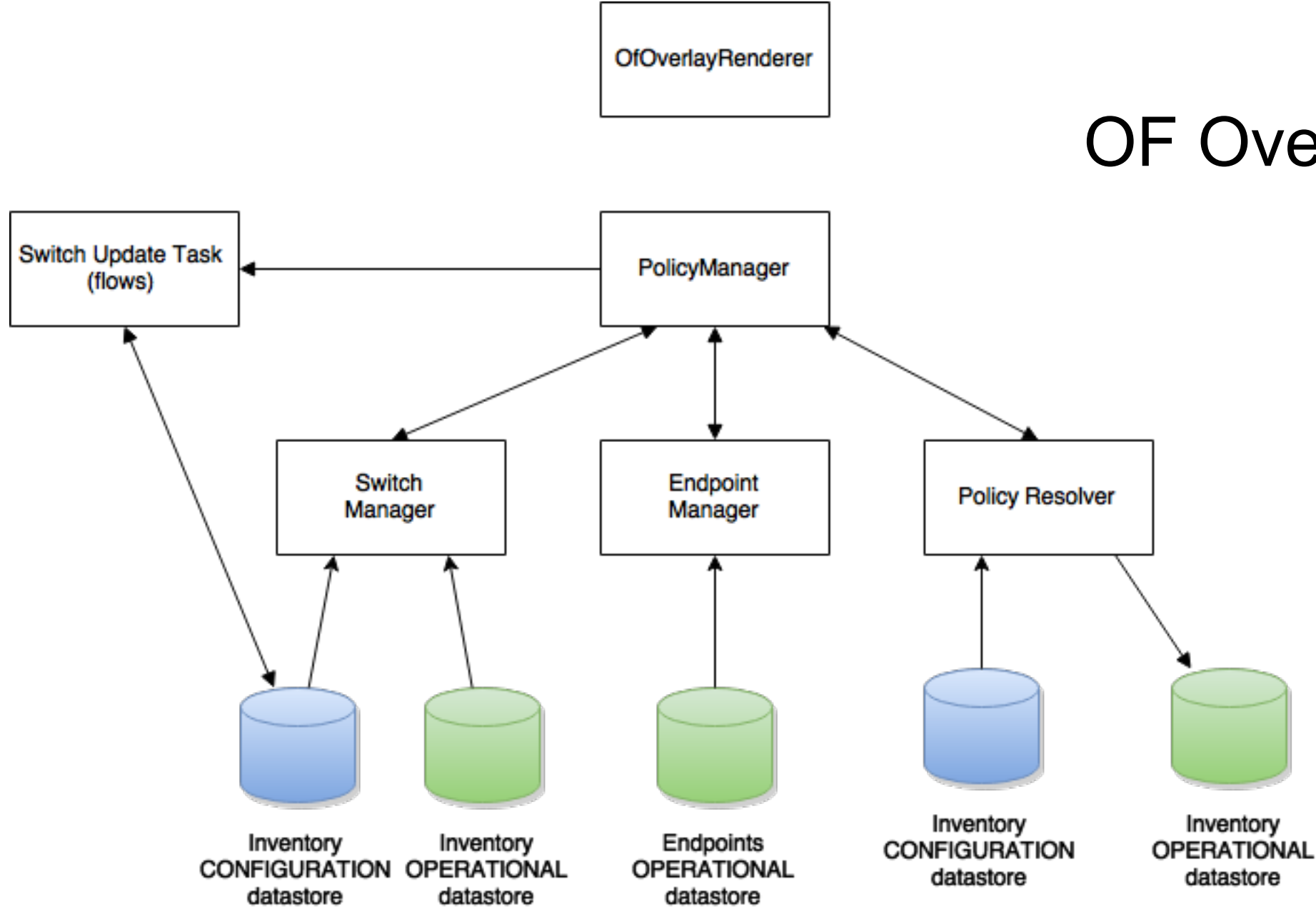


Backup slides

Architecture



OF Overlay Renderer



NFV

NFV

