

Defining SDN for IETF Purposes

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A Perhaps Controversial View

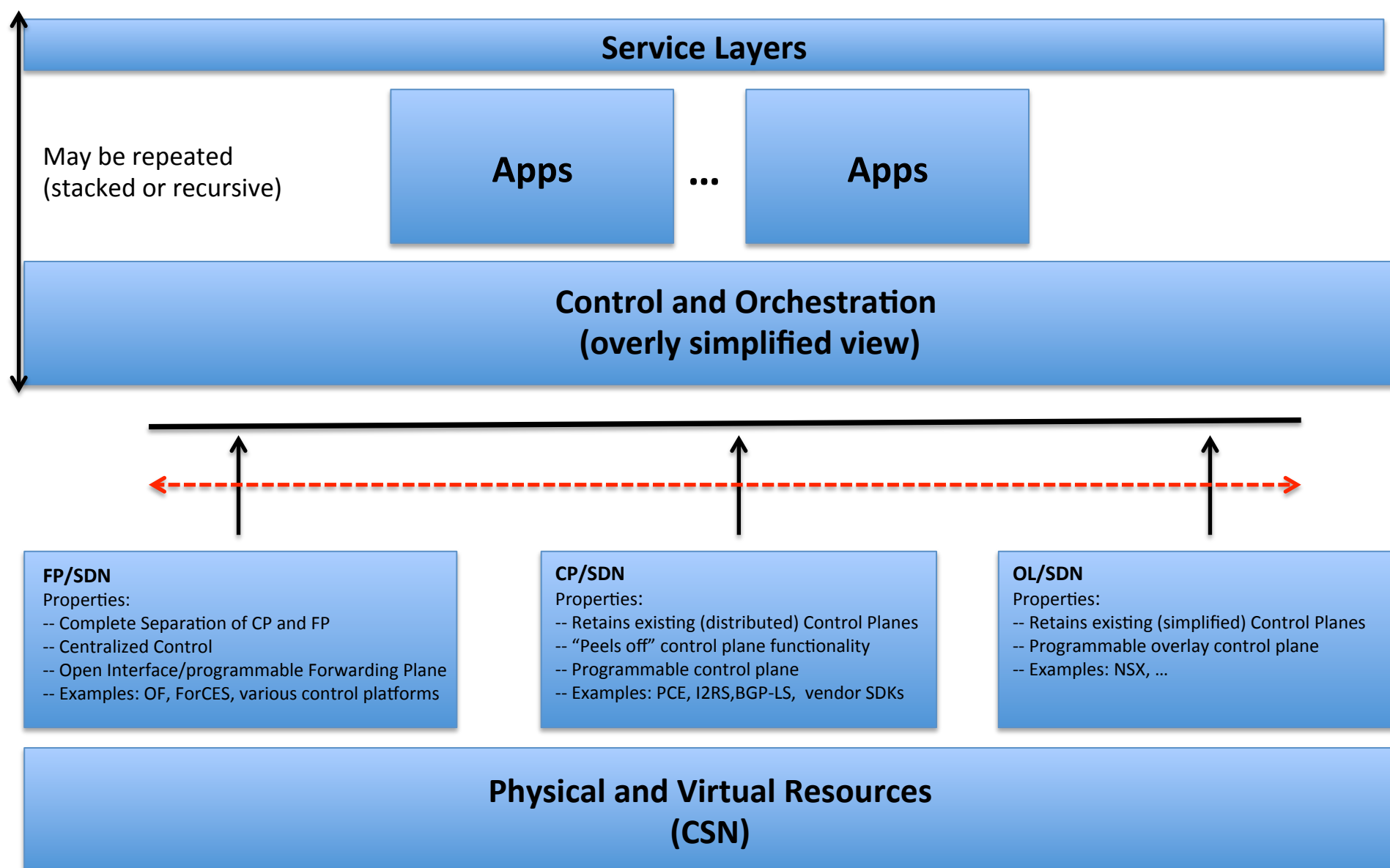
- OF/SDN is a point in a larger design space
 - But not the only one
- The larger space includes
 - Control plane programmability
 - Overlays
 - ...
- Basically “CSNSE” Programmability
 - Compute, Storage, Network, Security and Energy

The Design Space

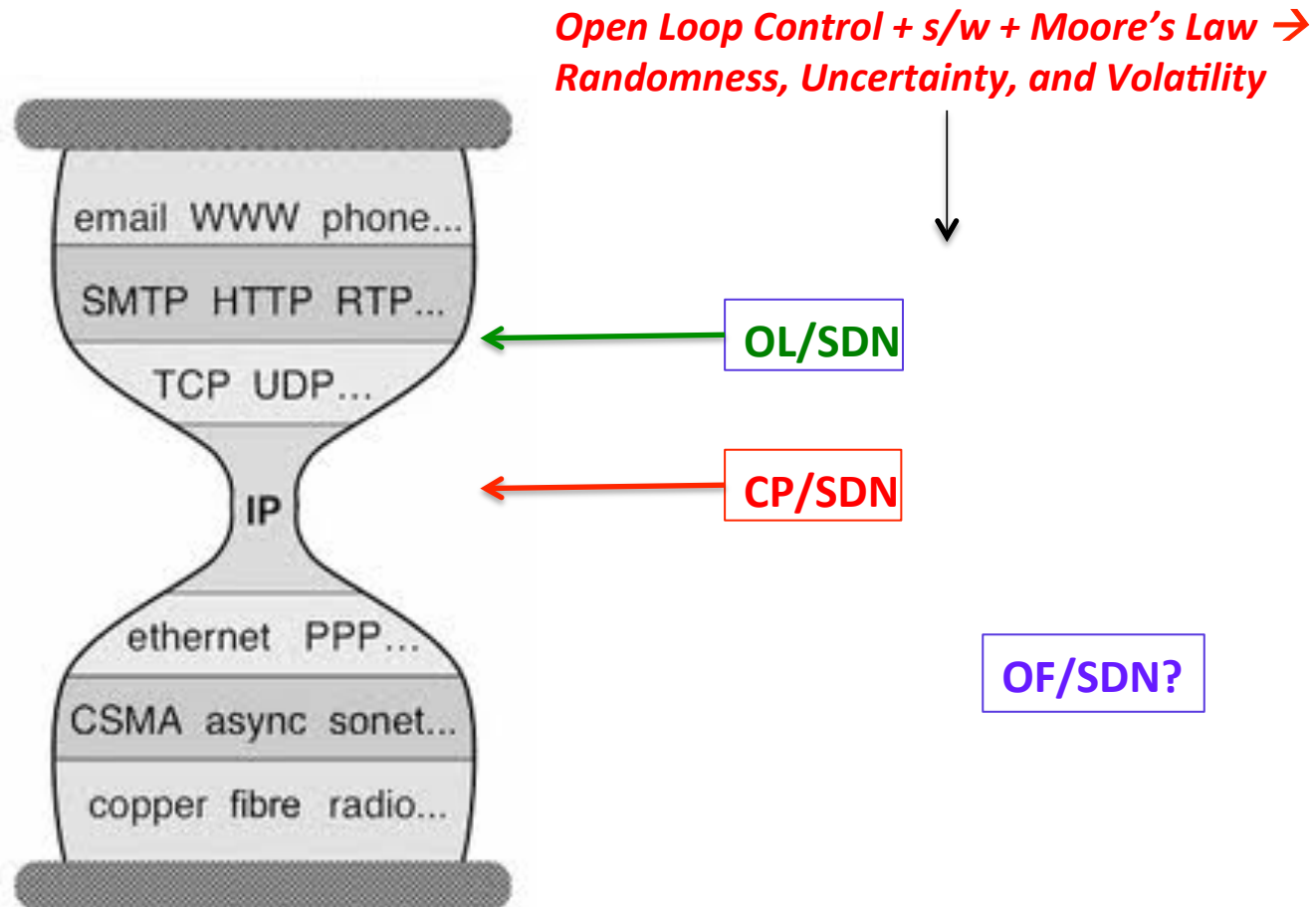
“SDN Continuum”

- Separation of Control and Data planes
 - And how much
- Centralized vs. Distributed Control
 - And how much
- Open/Standardized Interfaces
 - Data plane vs. Control plane vs. Mgmt. plane vs. ...
- Other Dimensions?
- Northbounds?
- Interaction with other “SDOs”

A Simplified View of the *SDN Continuum*



BTW, How Does All of this Interact with the Internet Architecture?



- OF/SDN?
- CP/SDN makes existing control planes programmable
- OL/SDN is an application *from the perspective of the Internet's waist*