

# A Lifecycle Approach

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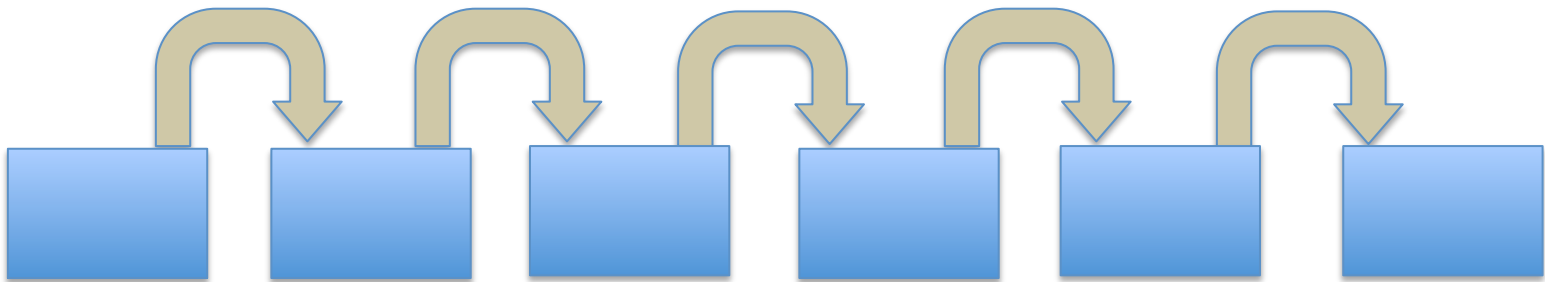
IETF96, Berlin

# Problem

- Fuzzy terms
  - Applied, Intended, active, even configuration
- Rorschach test for readers
  - We agree to things where we have different understandings of terminology

# Lifecycle Approach

- Let's talk about phases and processing
  - How data moves and is manipulated
- Avoid overloaded names
  - Use "Alpha", "Bravo", or Pokemon names; don't care
  - When the lifecycle is fully defined, names will appear (hopefully)



# Goals

- Define a concrete lifecycle
  - An information model for on-box data
- Be explicit about phases and phase changes
  - What's added, removed, or changed between phases
- Call out distinct behaviors
  - Current and future, useful and real-world
- Lastly: Create meaningful names for phases

# Example Phase Changes

- Remove data for absent hardware (FRUs)
  - "ephemeral interfaces", chip features
- Add system-defined hardware (mgmt ports)

- Add device-based defaults
  - Model-specific, lists

- Remove nodes marked "inactive"
- Add expansions of configuration groups / templates
- Add data from on-box scripting

# Example Phase Changes (2)

- Add data from external controller
  - Persistent (survives reboot)

- Add data from external controller
  - Does NOT persist

- Hand-built data (human hands)
  - Has higher priority
  - Persistent
  - (First phase change?)

# Bottom of the Diagram

