



ONAP: ACM-R Instance Migration

<https://lfnetworking.org>



What is an Automation Composition?

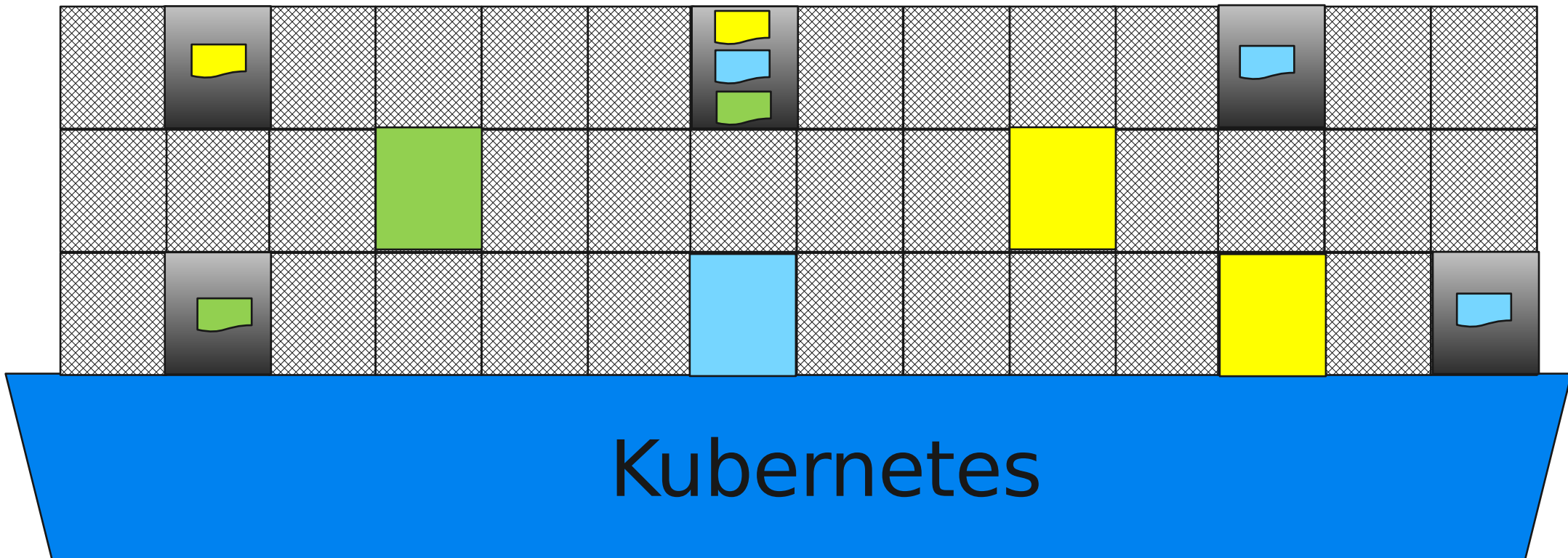
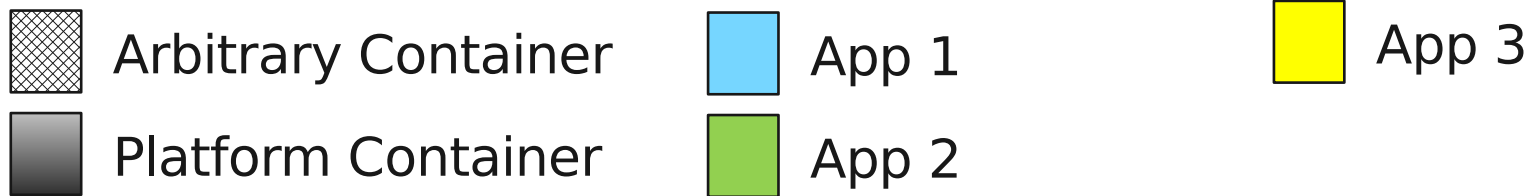
Containers and Metadata Everywhere.....



....but not an App in sight!

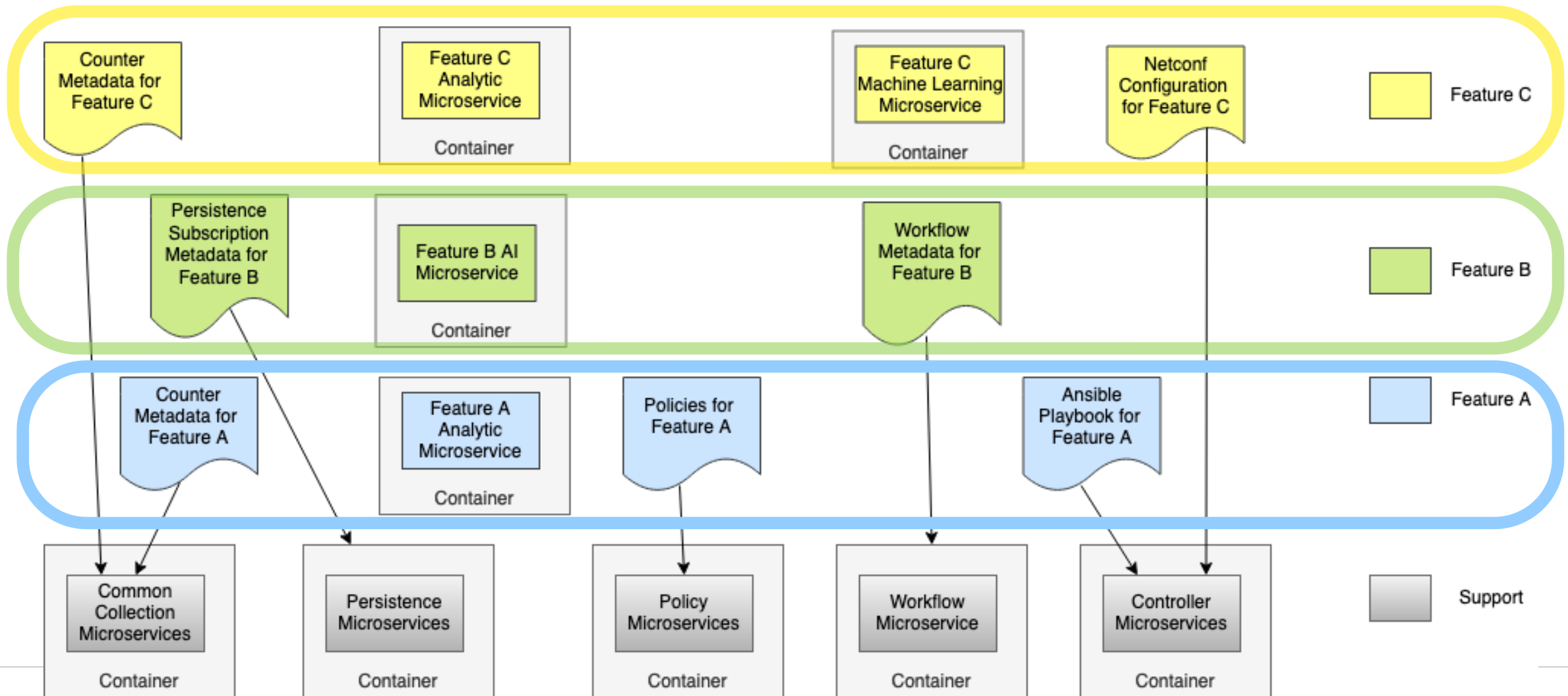
....ACM allows you to **Manage your Apps**

Where is my App?

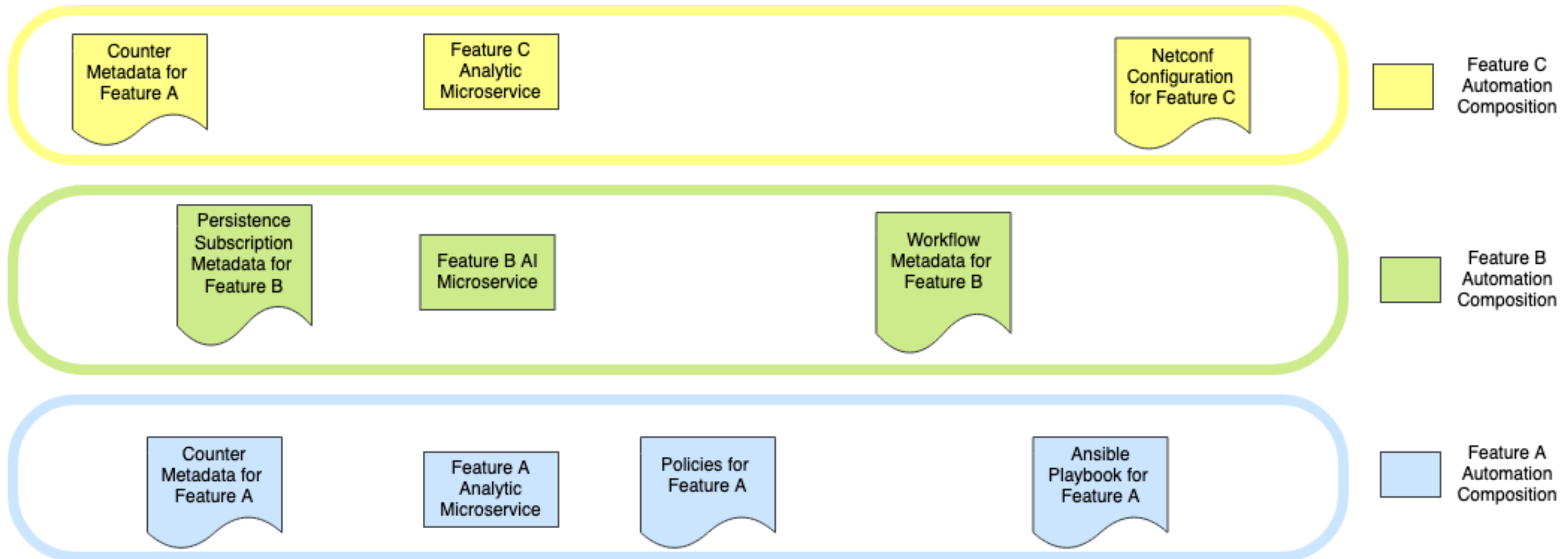


Helm just installs and uninstalls the containers

Microservices and Metadata delivering features



Automation Compositions

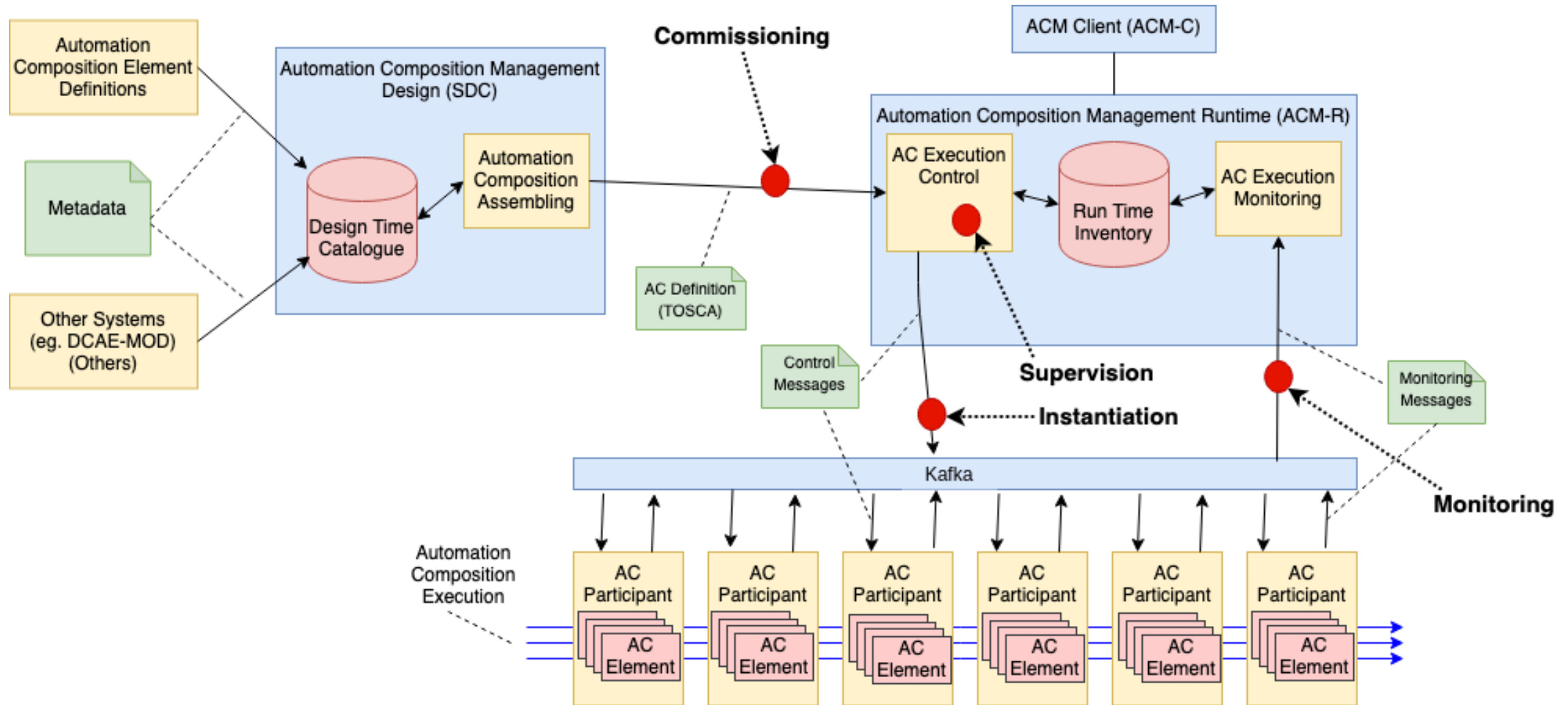


- Groups the microservices and metadata for features together
- ACM is the backend for App Management in EIAP

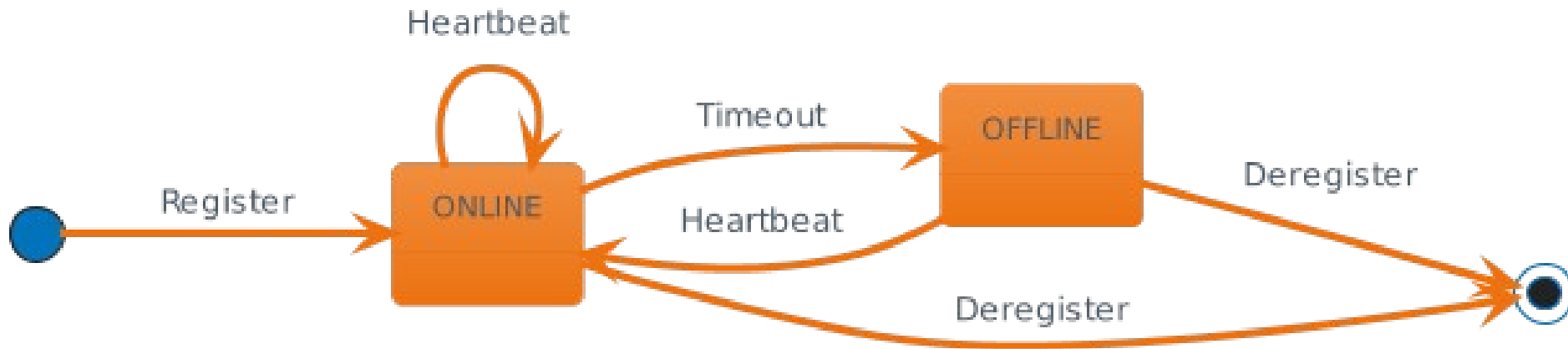
What is Supported?

- Defining Automation Compositions
- Automation Composition Commissioning and Decommissioning
- Set parameters on Automation Compositions
- Managing the Automation Composition life cycle
 - Instantiation
 - Status Monitoring
 - State Change (Deploy, Undeploy, Lock, Unlock)
 - Property Update
 - **Migration**
 - Removal

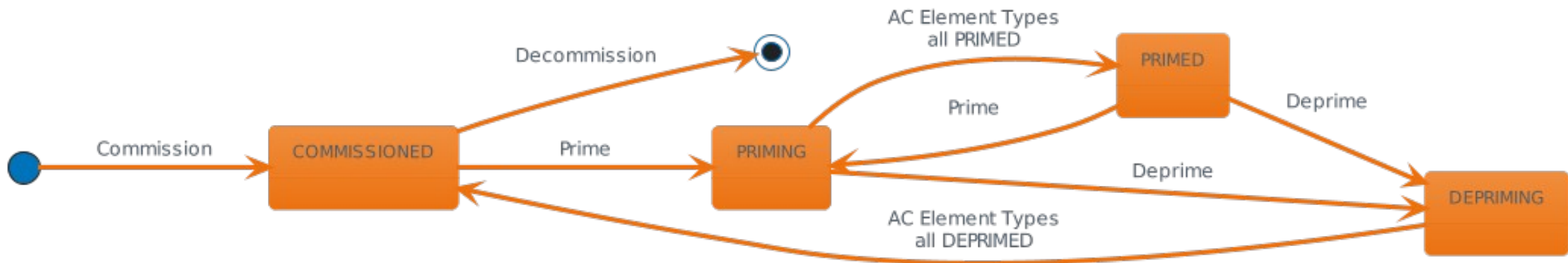
Automation Composition Management



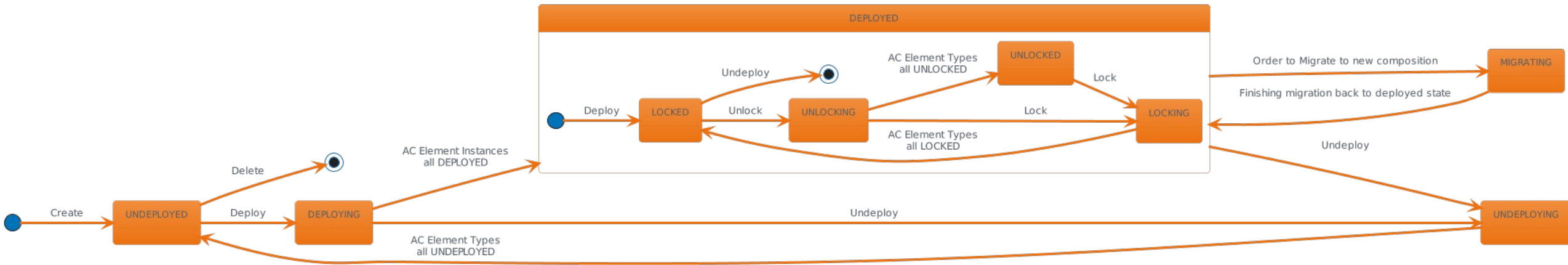
State Change 1: Participant



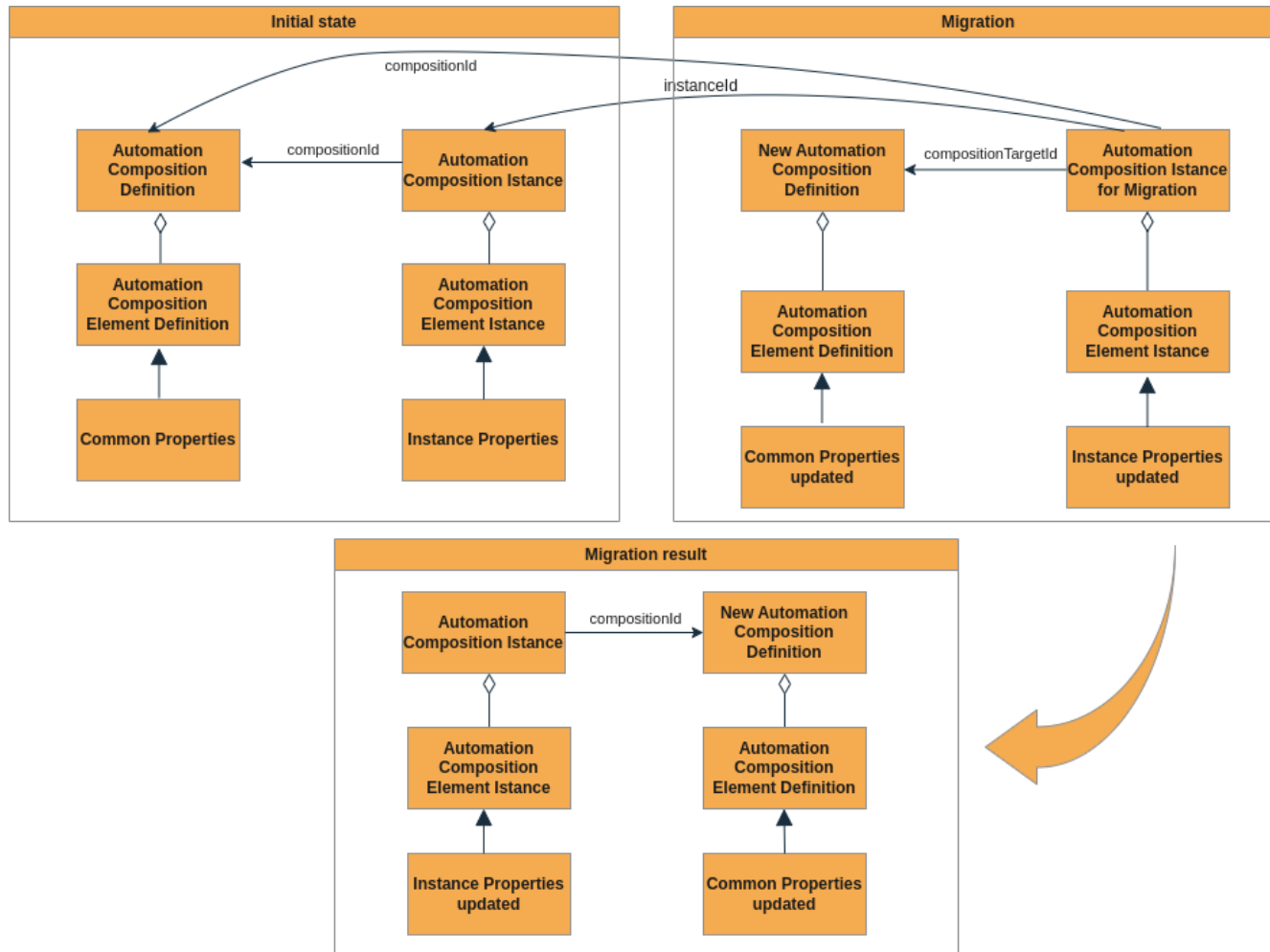
State Change 2: AC Definition



State Change 3: AC Instance with Migration



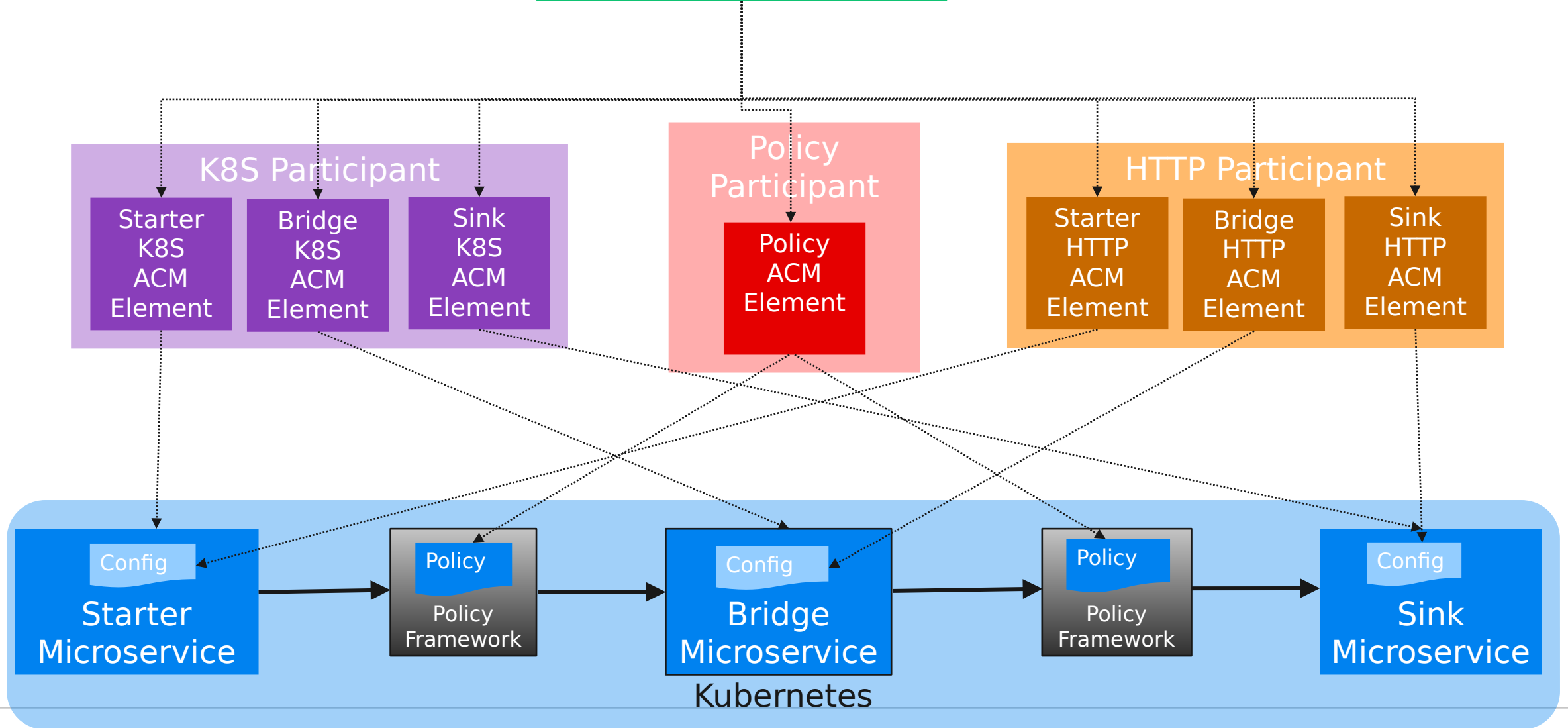
Instance Migration



- The newest feature added is migration.
- An instance of an automation composition that is based on a composition definition can now be “migrated” to a new composition definition.
- The mechanism is illustrated.
- Any migration-specific actions that need to be carried out, can be done by use of the “migrate” method in the participants involved.
- The old definition can be deleted or perhaps used again later.

Demonstration

ACM Runtime



Demonstration

Defined in TSCA (YAML)

```
onap.policy.clamp.ac.element.AutomationCompositionDefinition:
  type: org.onap.policy.clamp.acm.AutomationComposition
  description: Automation composition for Demo
  properties:
    provider: ONAP
    elements:
      - name: onap.policy.clamp.ac.element.Policy_AutomationCompositionElement
      - name: onap.policy.clamp.ac.element.K8S_StarterAutomationCompositionElement
      - name: onap.policy.clamp.ac.element.K8S_BridgeAutomationCompositionElement
      - name: onap.policy.clamp.ac.element.K8S_SinkAutomationCompositionElement
      - name: onap.policy.clamp.ac.element.Http_StarterAutomationCompositionElement
      - name: onap.policy.clamp.ac.element.Http_BridgeAutomationCompositionElement
      - name: onap.policy.clamp.ac.element.Http_SinkAutomationCompositionElement
```



Questions?

<https://docs.onap.org/projects/onap-policy-parent/en/latest/clamp/acm/acm-architecture.html>

