# DCAE Platform Enhancements – Frankfurt Release

Deven Panchal (AT&T)
Jack Lucas (AT&T)
Christopher Rath (AT&T)
Vijay Venkatesh Kumar (AT&T)

# Agenda

- Microservice Onboarding and Design
  - Overview
  - Architecture
  - Deployment
  - Use case
  - Demo
- Acumos Adapter

# Microservice Onboarding & Design (MOD) Drivers

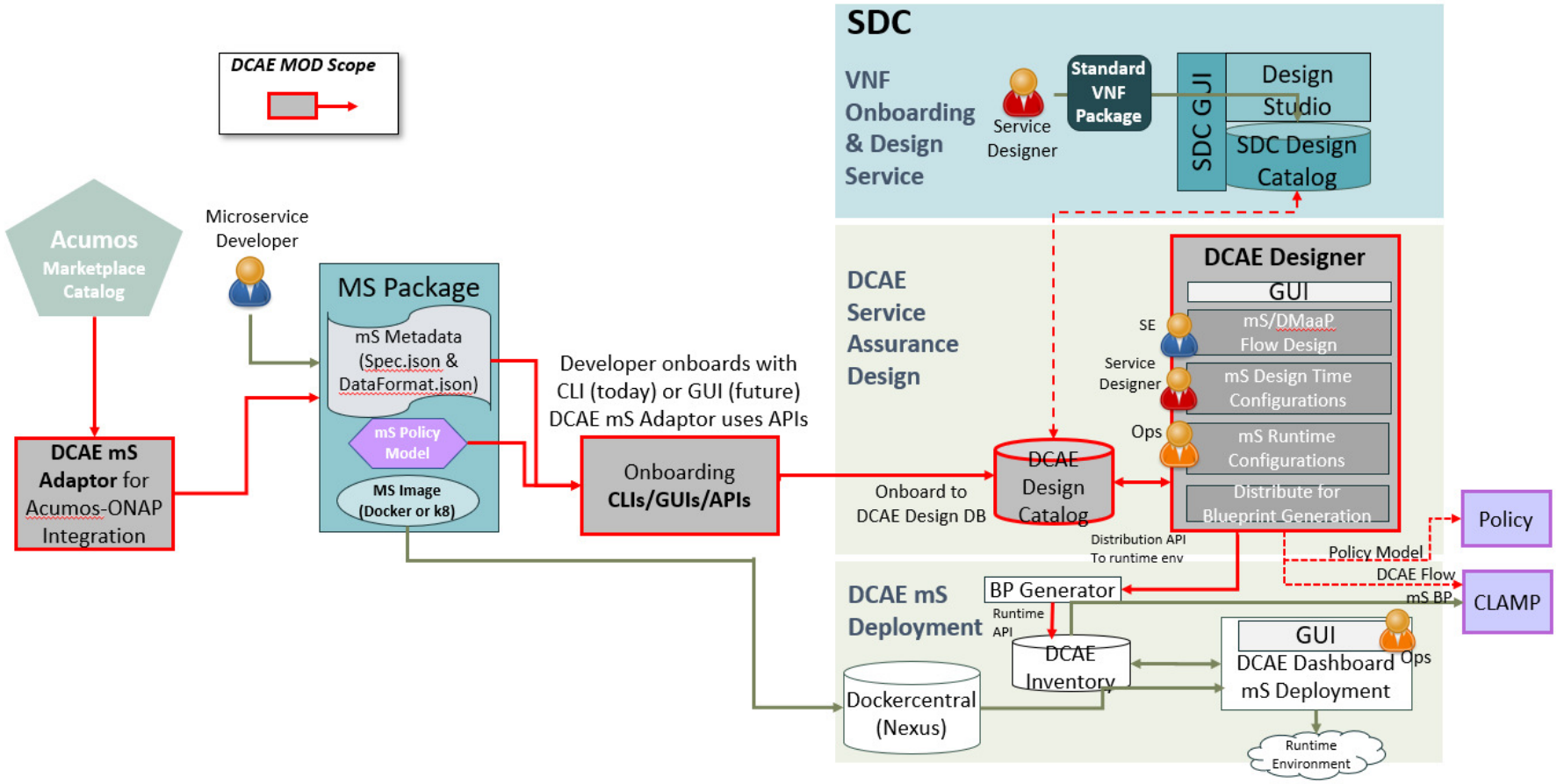
## SDC DCAE-DS Limitations

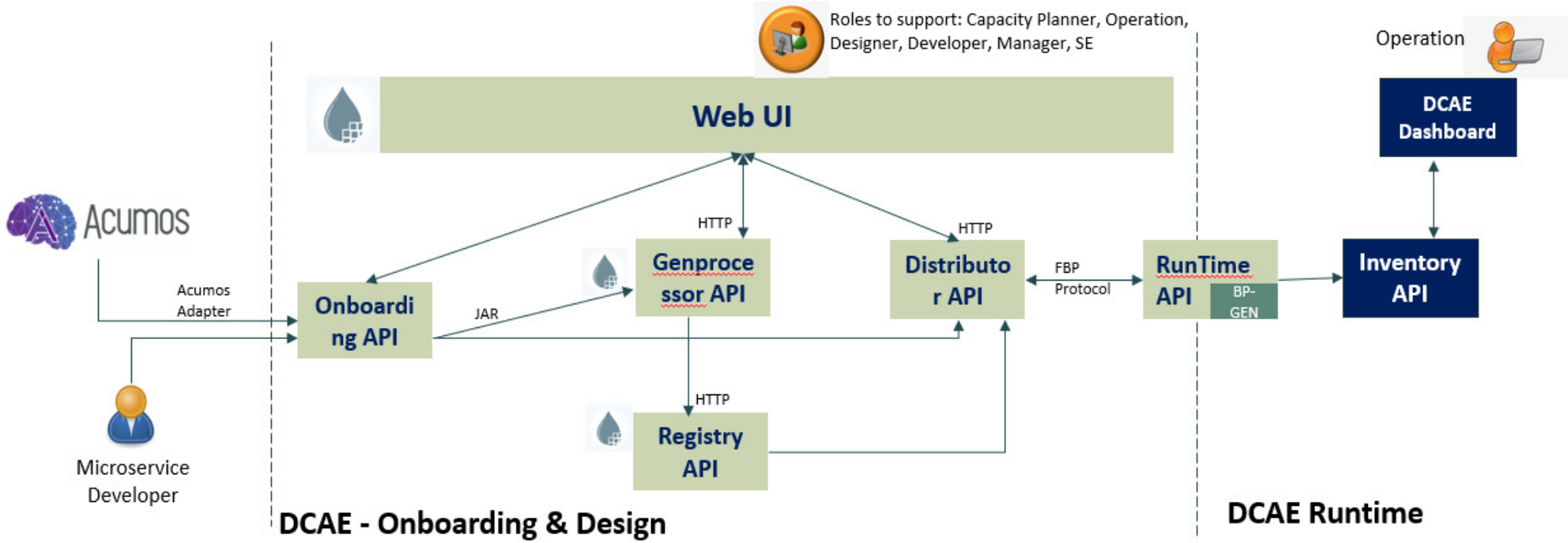
- Mismatched capabilities between SDC/DCAE-DS and DCAE mS Runtime platform
- No Service Assurance flow design
- mS developers upload handcrafted blueprint

## MOD Goals

- Provide simplified mS Onboarding, Service Assurance flow design, & mS microservice design time to support developers, service designers, and operations
- Provide catalog & data for DCAE microservice lifecycle tracking.
- Ensure consistency across all DCAE design and runtime platform component
- Auto-generate blueprint at the end of the design process (not onboarded before the design process)
- Support automated adaptation of ML model from Acumos to DCAE design & runtime environment

# Onboarding & Design Flow with DCAE MOD






# DCAE MOD Component Architecture

# MOD Deployment

- Installs with OOM
  - In **`oom/kubernetes/dcaemod`**
  - Six components, each with a subchart:
    - Design tool
    - Onboarding API (with an instance of common Postgres DB)
    - Runtime API (includes blueprint generation)
    - Nifi registry (stores flows)
    - Distributor API
    - Genprocessor
  - Components can be deployed individually via switches in **`values.yaml`**
  - Requires an Ingress
    - Brings UI components and APIs together at a single host
    - Requires settings in an overrides file
  - See https://wiki.onap.org/display/DW/DCAE+MOD+User+Guide for details

# Usecase

- Onboard VES artifacts
  - dataformats
  - Component spec
- Onboard TCA-gen2 artifacts
  - dataformats
  - Components spec
- Create VES-Tcagen2 flow (binded through Dmaap – VES_MEASUREMENT Topic)
- Configure Flow parameters (optional)
- Distribute VES-TCAgen2 flow to DCAE-Inventory
- Trigger deployment via Dashboard

# DEMO

# Documentation

User Guide : https://wiki.onap.org/display/DW/DCAE+MOD+User+Guide

Onboarding : https://docs.onap.org/en/latest/submodules/dcaegen2.git/docs/sections/components/component-development.html

Architecture : https://wiki.onap.org/display/DW/DCAE+MOD+Architecture