

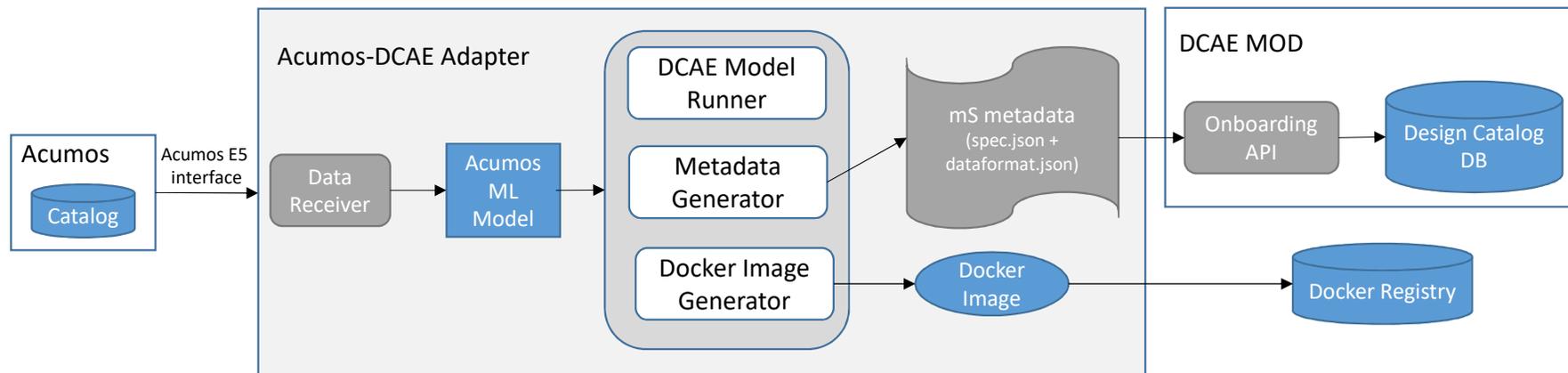
DCAE Acumos Adapter

Demo

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Acumos Adapter Architecture

- Allows using Acumos models as components in DCAE flows
 - Pulls model from Acumos
 - Generates a DCAE MOD component spec and data format specs for the model
 - Onboards the spec into DCAE MOD
 - Packages the model as a Docker image and pushes to a Docker registry
- Accessible from a menu in the DCAE MOD design tool



Acumos Adapter Installation

- Installed after DCAE and DCAEMOD are deployed
 - Uses Helm chart in `dcaegen2/platform/adapter/acumos-deployment`
 - Depends on the OOM `common/common` chart
 - Adapter is deployed in a Kubernetes pod with two containers
 - Main adapter logic
 - Docker-in-Docker container to run Docker image builds for imported models
- Requires two external services
 - Acumos instance that exposes model catalog(s) via the Acumos E5 interface
 - Must set up certificate-based authentication/authorization before adapter installation
 - Docker registry where adapter can push images
 - Must set up username/password authentication/authorization before adapter installation
 - Certificate, username, and password are installation parameters set in a Helm “overrides” file
- Requires an Ingress
 - Brings UI components and APIs together at a single host
 - Helm chart creates this automatically
- See <https://wiki.onap.org/display/DW/Acumos+Adapter+Installation> for details

Demo Details

- No official ONAP use case in R6 (Frankfurt)
 - No integration test environment in Wind River lab
- For this demo, using internal AT&T systems
 - Acumos instance
 - Docker registry
 - Single-node Kubernetes cluster
 - Running DCAE, DCAE MOD, and other parts of ONAP needed to bring up DCAE
 - Also running the Acumos adapter (of course!)
- Demo activities
 - From design tool, connect to Acumos instance through Acumos adapter
 - Browse Acumos catalog, select model and revision
 - Onboard the model
 - Look at the results of onboarding

Demo Details

- Using an internal AT&T setup
 - VM with kubectl/Helm to drive demo
 - Single-node Kubernetes cluster
 - Running DCAE, DCAE MOD, and other parts of ONAP needed to bring up DCAE
 - Also running the Acumos adapter
 - Internal Acumos instance
 - Internal Docker registry
- Demo activities
 - From design tool, connect to Acumos instance through Acumos adapter
 - Browse Acumos catalog, select model and revision
 - Onboard the model
 - Look at the results of onboarding

DEMO

Documentation and Other Resources

- **Acumos adapter overview:**
<https://wiki.onap.org/display/DW/Acumos+DCAE+Integration>
- **Acumos adapter installation:**
<https://wiki.onap.org/display/DW/Acumos+Adapter+Installation>
- **Acumos adapter code:**
<https://gerrit.onap.org/r/gitweb?p=dcaegen2/platform.git;a=tree;f=adapter/acumos>
- **Acumos adapter Helm charts:**
<https://gerrit.onap.org/r/gitweb?p=dcaegen2/platform.git;a=tree;f=adapter/acumos-deployment>