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# **ONAP Data Provider**

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**Deutsche Telekom**

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# Agenda

- Overview
- How it works
- Use cases
- Plans for the future
- Demo
- Q&A

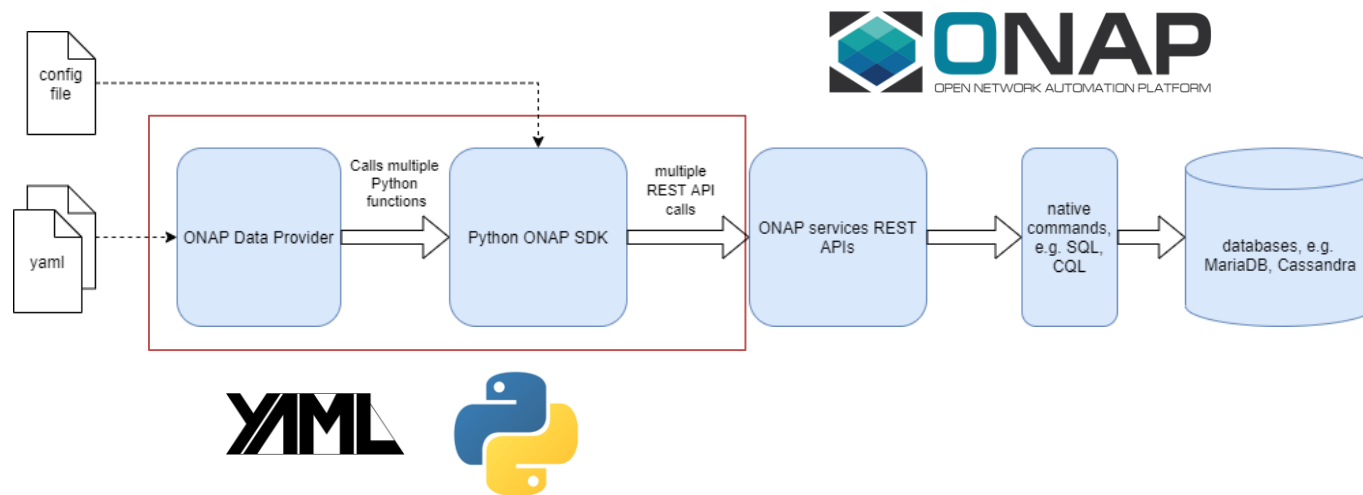
ONAP Data Provider project aims to automate ONAP resources creation. This includes service instantiation, as well as ONAP objects, like cloud regions, complexes or customers. With this tool we can automate creation process on every ONAP instance, make it easier and more consistent. ODP can be also used to create desired resources on existing ONAP instance on demand, create objects that are necessary for specific use case, must be created only once etc.

<https://gerrit.onap.org/r/admin/repos/integration/data-provider>

## Quick facts

- cli tool
- written in Python, based on Python ONAP SDK
- uses yaml format to declare resource definitions

# Architecture





## YAML object definitions

```
odpSchemaVersion: 1.0
resources:
  vendors:
    - vendor:
      name: &vendor sample-vendor
  vsps:
    - vsp:
      name: sample-vsp
      vendor: *vendor
      package: ubuntu.zip
services:
  - service:
    name: sample-service-with-vf
    resources:
      - name: sample-vnf
        type: VF
  - service:
    name: sample-service-with-vf-and-properties
    resources:
      - name: sample-vnf
        type: VF
        properties:
          controller_actor: "CDS"
          skip_post_instantiation_configuration: False
          sdn_artifact_name: "vnf"
          sdn_model_version: "1.0.0"
          sdn_model_name: "ubuntu20"
```

← Schema version

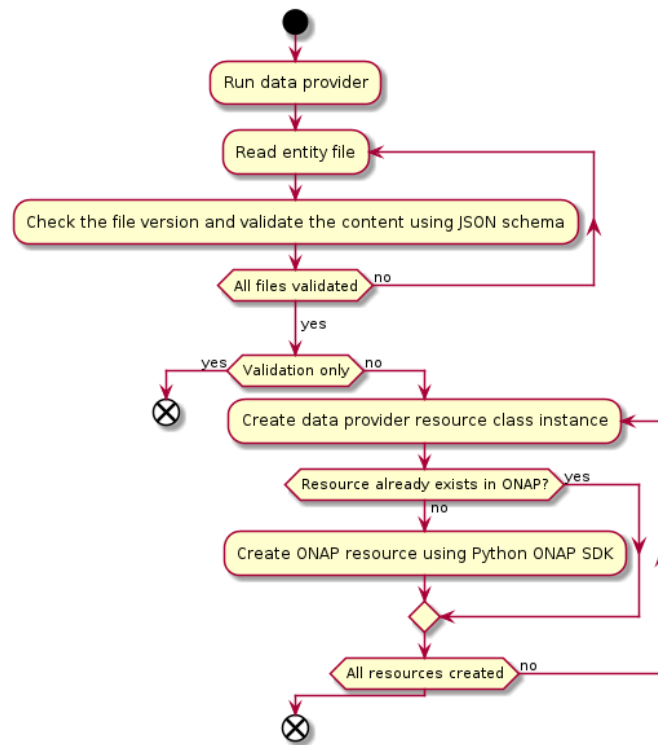
← Resources description

← yml anchor

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# Architecture





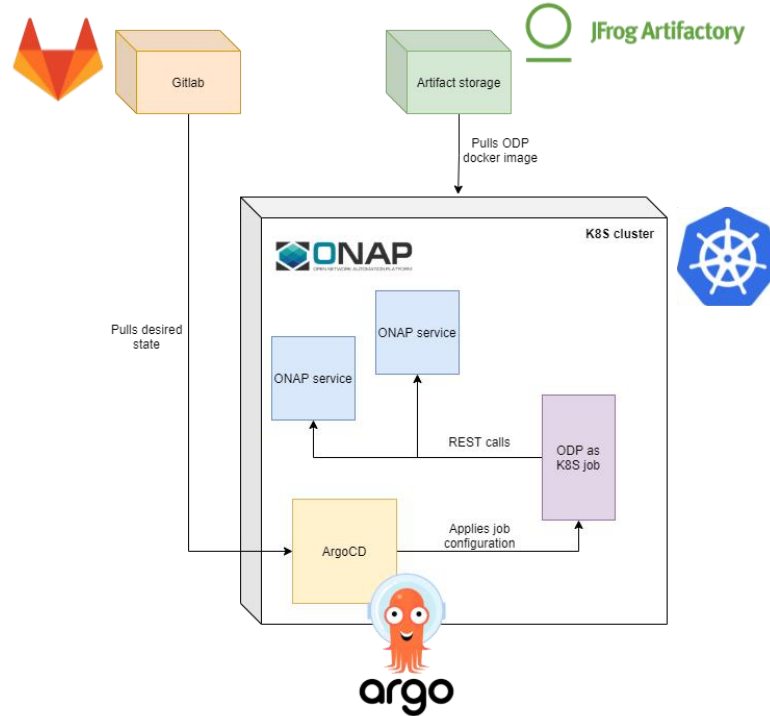
## YAML object definitions

- Schema validation based on JSON
- Currently two schema versions (V1.0, V1.1)
- Backwards compatibility
- Supports multiple files
- Can use yaml features like anchors
- ODP handles creation order

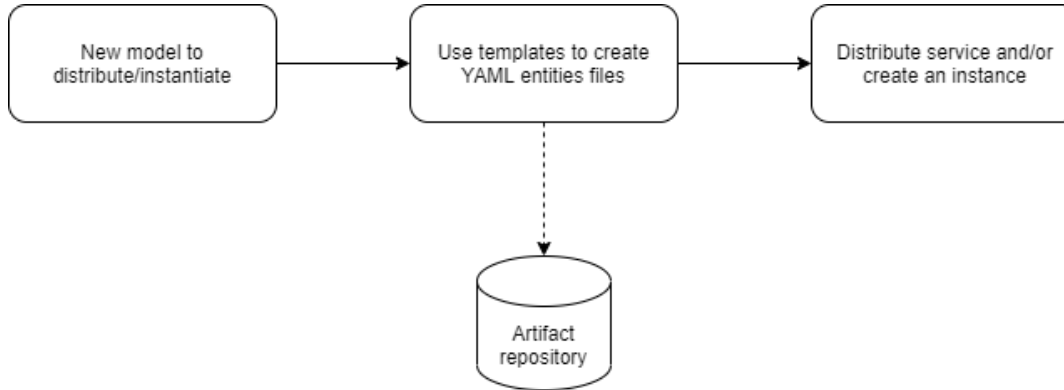
# Use cases

- automates creation of common data set for every ONAP installation, including objects such as complexes, customers etc.
- creation of resources for testing purposes

# Use cases



ODP runs natively on K8S in order to create common data set



Service instantiation use case



# Plans for the future

- update operations
- support more ONAP resources

Feel free to contribute! 😊

# DEMO

## Resources

- [integration/data-provider · Gerrit Code Review \(onap.org\)](#)
- [ONAP SDK documentation \(python-onapsdk.readthedocs.io\)](#)
- [OOM Meeting Notes - 2021-11-24 - How DT deploys ONAP with the help of Argo CD - Developer Wiki - Confluence \(onap.org\)](#)

# Q&A