## Akraino Portal

<table>
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<tr>
<th>Feature</th>
<th>Description</th>
<th>Companies Participating / Committers</th>
<th>Requested Release / Timeline</th>
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</table>
| Akraino Portal (Dashboard & GUI) | Akraino Portal provides user interface to deploy edge sites, install additional software, initiate add-on services, enable testing services, etc. 1. Akraino edge stack functionalities are available through self-driven rich user interfaces. Users can log into the web portal and perform various functions supported by the Akraino edge stack solution. 2. The latest Akraino release supports: build and deploy of unicycle blueprints and supports deployment of rover blueprints for edge sites. Provides ability to upload input YAML file that contains site specific POD configuration information for build and deploy. 3. Additional user driven functionalities are also supported via web portal: a. e2e testing for Tempest to verify open stack installation & readiness b. Installing additional software on edge site such as ONAP, CHOMP c. VNF onboarding where users can onboard a VNF through self driven UI navigation. 4. Future plans include integration with other open source tools such as PINC, NARAD to source h/w and n/w info, as well as supporting deployment of future blueprints. | AT&T | RI | Impacted Blueprint Family - Network Cloud  
See next slide for additional details |
Akraino Feature Project - Portal

Akraino GUI
- Dashboard
- Admin GUI
- User GUI

Akraino Workflow
- Platform Workflows
- Camunda

Edge Application and APIs
- APIs
- Applications & VNFs

Edge Application and Orchestration
- Lightweight Edge App Orchestration

Edge Platform Software Components
- Infra Orchestration
- Storage
- Network Control Plane
- Network Data Plane
- Operation System

NFV Orchestration
- NFV & Domain Specific Orchestration

AirShip Under Cloud Lifecycle Tools

Akraino Upper Cloud Lifecycle Tools

Documentation
- Customer Edge
- Network Edge
- Network Edge Micro Services

CICD (Community)

ETE Security tools
- Narad (Inventory)

ETE Operations tools
- OpenStack Tempest

ETE Testing
- ETE Security tools

PINC (N/W Orchestration)

AI Tools box

Declarative Configuration

*To be contributed to Airship

Akraino Chest

Akraino - new
- Upstream
- Future release
- Portal
Akraino Portal Architecture

Application architecture

Akraino Portal UI
(AngularJS, HTML, CSS, Bootstrap)

Akraino Portal REST API Interface
(Spring MVC, Apache Tomcat)

Akraino Rest API Controller
(Spring MVC, java/j2ee)

Akraino Service
(Business logic)

Akraino Data Access
(Spring-hibernate)

Akraino Database
(Postgres SQL)

Authentication & Authorization
(ApacheDS-LDAP, WebFilters, Session Management)

System architecture

Regional Site

Deploy Edge Site
Run Tempest
Install Onap
Onboard VNF
Status updates

Akraino Portal API

Akraino Portal UI

Camunda Workflow Engine

Package downloads
Copy site-input files
Automation scripts
- Airship in a bottle
- 3-node cluster
- Tempest
- ONAP
- VNF onboard

Check for status
Return status

Akraino Postgres DB

Edge Site

vCDN

Public-repo Docker Hub

Docker Hub

POD

Edge Node

Automation scripts

Edge Node

Edge Node

Edge Node

Application architecture

System architecture