Akraino Feature Project - CHOMP

Feature	Description	Companies Participating / Committers	Requested Release / Timeline	Informational
Operational Tools Augmentation	CHOMP (Cluster Health and Overload Monitoring Platform) will do log correlation for Akraino lifecycle management 1. Log-based metrics in CHOMP provide key visibility for operations teams beyond the existing traditional monitoring tools such as Prometheus 2. These KPIs could become the beginning of troubleshooting and root cause identification as NC becomes ready for production deployments 3. Broad categories include: a. Latencies for common Kubernetes procedures b. Failure details - insufficient memory or computing capacity c. Procedure details - restart backoffs, pod evictions prior to restarts d. Kubernetes Component Availability – loss of kube-proxy, scheduler, etc.h 4. Modular design and Configurable for easy addition of new log-based metrics as NC platform matures	AT&T	R1	Impacted Blueprint Family - Network Cloud See next slide for additional details

Akraino Feature Project - CHOMP

Akraino Chest

Akraino GUI	Dashboard	Admin GUI	User GUI		Akraino Upper Cloud Lifecycle Tools

Akraino Workflow — Platform Workflows — Camunda

Edge Application and APIs
- APIs — Edge APIs — Edge Cloud(s) Integration APIs
- Applications & VNFs — Sample Edge App (CDN)

Edge Application and Orchestration — Lightweight Edge App Orchestration — Community - TBD

NFV Orchestration — NFV & Domain Specific Orchestrator — ONAP Bejing

Edge Platform Software Components
- Infra Orchestration — OpenStack (Ocata) — Kubernetes
- Storage — SDS(Ceph)
- Network Control Plane — Calico
- Network Data Plane — SR-IOV — OVS
- Operation System — Ubuntu

Network Edge — NC – Multinode Cluster — Single Server (Rover)

Network Edge Micro Services — Serverless

Customer Edge — Satellite — Rover (whitebox)

CICD (Community)

AirShip Under Cloud Lifecycle

Dawn*

*To be contributed to Airship

Akraino Chest items
- Declarative Configuration
- AI Tools box
- ETE Operations tools
- CHOMP
- ETE Security tools
- Narad (Inventory)
- ETE Testing OpenStack Tempest
- PINC (N/W Orchestration)
- Documentation

Legend
- Akraino - new
- Upstream
- Future release
- CHOMP

AKRAINO EDGE STACK