AARNA NETWORKS AMCOP

www.arnanetworks.com

VENDOR SNAPSHOT

PRODUCTS AND SERVICES

- Aarna Networks Multi-cluster Orchestration Platform (AMCOP) provides orchestration, lifecycle management, and closed-loop application management automation for Kubernetes clusters.
- Provides both MANO & NFVO functionality.
- AMCOP works with multiple vendors of Kubernetes infrastructure management systems.

KEY STRATEGIES

- Solve the scalability problem for massive distributed K8 systems for networks & apps.
- Extend and integrate open source components, especially from ONAP (for 5G containerized networking infrastructure applications) and OpenNESS (for edge multi-cluster application orchestration).
- Focus on private 5G mobile core and MEC management – extend to RAN in near future.

Key Customers
POCs

Founded
2018

Aarna Networks is an open source-based provider of management software for distributed containerized applications. Its AMCOP software product is aimed at the implementation and management of 5G private networking infrastructure & MEC applications.

Ecosystem
- 5GOILab
- LINUX Foundation
- National Spectrum Consortium
- Kaloom
- Altran

MyTake ANALYSIS

- Start up company with a basic offering of a private 5G + MEC network domain controller, with planned evolution.
- Potential extension to other K8-based applications for an overall ICF for enterprises.
- Provides slicing with a version of the ONAP slicing manager. Will be integrated tighter into the architecture.

AARNA NETWORKS SLICING

Architecture

- Uses ONAP Guilin 5G network slicing functionality
- RAN, Core, Transport slicing with CSMF/NSMF/NSSMF functions
- External NSSMF for core & RAN with standard APIs.

Slicing Demonstration

- Altran 5G components
- Kaloom UPF
- External NSSMF for core network
- Simulators for RAN & Transport NSSMF

MyTake

- *Early feasibility demonstration*