

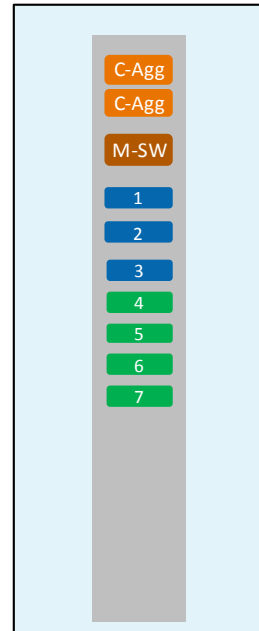
Akraino Blueprint Proposal - Unicycle

Case Attributes	Description	Informational
Type	New blueprint submission	
Blueprint Family - Proposed Name	Network Cloud Family	
Use Case	Network Cloud – carrier edge use case	
Blueprint proposed Name	Unicycle	
Initial POD Cost (capex)	Unicycle less than \$150k	
Scale & Type	Up to 7 servers x86/ARM server or deep edge class	
Applications	5G Core or vRAN (RIC)	
Power Restrictions	Example Only: • Less than 10Kw	
Infrastructure orchestration	OpenStack Pike or above - VM orchestration Docker 1.13.1 or above / K8 1.10.2 or above- Container Orchestration OS - Ubuntu 16.x VNF Orchestration - ONAP Beijing Under Cloud Orchestration - Airship v1.0	
SDN	SR-IOV & OVS-DPDK or VPP-DPDK	
Workload Type	VMs and Containers	
Additional Details	See next slide	

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Hosted @ Telco or Provider (e.g., Network Cloud)

Unicycle POD



Characteristics	<ul style="list-style-type: none">- 1 Rack POD- Containerized Control plane- K8 based resiliency- Possible - Data plane/Control Plane mixed
Use Cases (e.g.,)	<ul style="list-style-type: none">- IoT, Wireline (PON), Store- Remote Edge (Analytics etc.)