

# General overview of Akraino



Introduction - Akraino

Akraino Goals and Key Principles

Introduction to Blueprint

Introduction to Point of Delivery (POD)

## Blueprint Projects R1

Blueprint	Architecture Document	Link to Further Documentation
Integrated Edge Cloud(IEC) Type 1 & 2	<a href="#">IEC Architecture Document</a>	<a href="#">IEC Release 1 Documentation</a>
Network Cloud Rover	<a href="#">Network Cloud Architecture</a>	<a href="#">NC Family Documentation - Release 1</a>
Network Cloud Unicycle with SR-IOV	<a href="#">Network Cloud Architecture</a>	<a href="#">NC Family Documentation - Release 1</a>
Edge Lightweight and IOT (IOT Gataway and SD-WAN)	<a href="#">ELIOT Architecture Document</a>	<a href="#">ELIOT Release 1 Documentation</a>
Network Cloud Unicycle with OVS-DPDK	<a href="#">Network Cloud Architecture</a>	<a href="#">NC Family Documentation - Release 1</a>
Radio Edge Cloud (REC)	<a href="#">REC Architecture Document</a>	<a href="#">Radio Edge Cloud Documentation</a>
StarlingX Far Edge Distributed Cloud	<a href="#">StarlingX Far Edge Distributed Cloud Architecture Documentation</a>	<a href="#">StarlingX Far Edge Distributed Cloud#Documentation</a>
KNI Provider Access Edge (PAE) Blueprint	<a href="#">KNI PAE Architecture document</a>	<a href="#">KNI Blueprint User Documentation</a>

## Blueprint Projects R2

Blueprint	Architecture Document	Link to Further Documentation	Link to CI/CD logs	Link to Blueprint Datasheet
NC with Tungsten Fabric Documentation	Architecture	<a href="#">NC with Tungsten Fabric Documentation</a>	<a href="https://nexus.akraino.org/content/sites/logs/juniper/job/NC-Tungsten_Fabric/27/">https://nexus.akraino.org/content/sites/logs/juniper/job/NC-Tungsten_Fabric/27/</a> <a href="https://nexus.akraino.org/content/sites/logs/juniper/job/NC-Tungsten_Fabric/27/logs/airship-in-a-bottle.output.log">https://nexus.akraino.org/content/sites/logs/juniper/job/NC-Tungsten_Fabric/27/logs/airship-in-a-bottle.output.log</a>	<a href="#">NetworkCloud-TF blueprint Datasheet</a>
ELIOT IoT Gateway	Architecture	<a href="#">ELIOT IoT Gateway Blueprint Documentation</a>	<a href="https://nexus.akraino.org/content/sites/logs/huawei/blueprints/iotgateway/job/eliot-deploy-iotgateway-minimal-os-virtual-daily-master/65/">https://nexus.akraino.org/content/sites/logs/huawei/blueprints/iotgateway/job/eliot-deploy-iotgateway-minimal-os-virtual-daily-master/65/</a> <a href="https://nexus.akraino.org/content/sites/logs/huawei/blueprints/iotgateway/job/eliot-deploy-kubeedge-ubuntu-virtual-daily-master/12/">https://nexus.akraino.org/content/sites/logs/huawei/blueprints/iotgateway/job/eliot-deploy-kubeedge-ubuntu-virtual-daily-master/12/</a> <a href="https://nexus.akraino.org/content/sites/logs/huawei/blueprints/iotgateway/job/eliot-iotgateway-deploy-k8s-virtual-daily-master/221/">https://nexus.akraino.org/content/sites/logs/huawei/blueprints/iotgateway/job/eliot-iotgateway-deploy-k8s-virtual-daily-master/221/</a> <a href="https://nexus.akraino.org/content/sites/logs/huawei/blu-val/job/eliot-deploy-virtual-daily-master-validation/13/">https://nexus.akraino.org/content/sites/logs/huawei/blu-val/job/eliot-deploy-virtual-daily-master-validation/13/</a>	<a href="#">ELIOT Release 2 - IOT Gateway Data Sheet</a>
Integrated Cloud Native (ICN)	ICN Architecture	<a href="#">Integrated Cloud Native (ICN) Documentation</a>	<a href="#">ICN Master Baremetal Deployment Verifier</a> <a href="#">ICN Master Baremetal Deployment for Hardware verification</a> <a href="#">ICN Master Baremetal Deployment Virtlet nested K8s Verifier</a> <a href="#">ICN Master Virtual Deployment Verifier</a> <a href="#">ICN Master Virtual Deployment Virtlet nested K8s Verifier</a>	<a href="#">ICN R2 Datasheet</a>

ELIOT SD-WAN/WAN Edge/ uCPE	Architecture	ELIOT SD-WAN/WAN Edge/ uCPE Blueprint Documentation	<a href="https://nexus.akraino.org/content/sites/logs/huawei/blueprints/uCPE/job/eliot-uCPE-deploy-k8s-centos-virtual-daily-master/172/">https://nexus.akraino.org/content/sites/logs/huawei/blueprints/uCPE/job/eliot-uCPE-deploy-k8s-centos-virtual-daily-master/172/</a> <a href="https://nexus.akraino.org/content/sites/logs/huawei/blu-val/job/eliot-deploy-virtual-daily-master-validation/13/">https://nexus.akraino.org/content/sites/logs/huawei/blu-val/job/eliot-deploy-virtual-daily-master-validation/13/</a>	ELIOT Release 2 - uCPE Data Sheet
SDN Enabled Broadband Access (SEBA) for Telco Appliance Blueprint Family	SEBA Blueprint Architecture Document	SEBA Blueprint Documentation	<a href="https://nexus.akraino.org/content/sites/logs/att/job/Install_SEBA_on_OpenEdge1/35/">https://nexus.akraino.org/content/sites/logs/att/job/Install_SEBA_on_OpenEdge1/35/</a> <a href="https://nexus.akraino.org/content/sites/logs/att/job/Install_SEBA_Charts_on_OpenEdge1/39/">https://nexus.akraino.org/content/sites/logs/att/job/Install_SEBA_Charts_on_OpenEdge1/39/</a>	SEBA blueprint R2 datasheet
KNI Blueprint Family	KNI PAE Architecture document	KNI PAE documentation	<a href="https://nexus.akraino.org/content/sites/logs/redhat-kni/192.168.112.199/kni-deploy-baremetal/">https://nexus.akraino.org/content/sites/logs/redhat-kni/192.168.112.199/kni-deploy-baremetal/</a> <a href="https://nexus.akraino.org/content/sites/logs/redhat-kni/kni-edge-installer-libvirt/45/">https://nexus.akraino.org/content/sites/logs/redhat-kni/kni-edge-installer-libvirt/45/</a>	KNI PAE blueprint R2 datasheet
Radio Edge Cloud (REC)	REC Architecture Document	Radio Edge Cloud Documentation	<a href="https://nexus.akraino.org/content/sites/logs/att/job/Install_REC_on_OpenEdge1/378/console.log.gz">https://nexus.akraino.org/content/sites/logs/att/job/Install_REC_on_OpenEdge1/378/console.log.gz</a>	REC_Akaino R2 blueprint Datasheet.docx
Network Cloud Rover	Network Cloud Architecture	NC Family Documentation - Release 2	<a href="https://nexus.akraino.org/content/sites/logs/att/job/MT_nightly_master_ARegional_node/441/">https://nexus.akraino.org/content/sites/logs/att/job/MT_nightly_master_ARegional_node/441/</a> <a href="https://nexus.akraino.org/content/sites/logs/att/job/MT_nightly_master_Brover_dell/441/">https://nexus.akraino.org/content/sites/logs/att/job/MT_nightly_master_Brover_dell/441/</a> <a href="https://nexus.akraino.org/content/sites/logs/att/job/MT_nightly_master_Esample_vnf/295/">https://nexus.akraino.org/content/sites/logs/att/job/MT_nightly_master_Esample_vnf/295/</a>	Network Cloud Rover and Unicycle R2.docx
Network Cloud with SR-IOV	Network Cloud Architecture	NC Family Documentation - Release 2	<a href="https://nexus.akraino.org/content/sites/logs/att/job/MT_nightly_master_Gunicycle_dell/229/">https://nexus.akraino.org/content/sites/logs/att/job/MT_nightly_master_Gunicycle_dell/229/</a>	Network Cloud Rover and Unicycle R2.docx
Network Cloud with OVS-DPDK	Network Cloud Architecture	NC Family Documentation - Release 2	<a href="https://nexus.akraino.org/content/sites/logs/ericsson/job/RC+Unicycle_OVS_DPDK_Deployment/22/">https://nexus.akraino.org/content/sites/logs/ericsson/job/RC+Unicycle_OVS_DPDK_Deployment/22/</a>	Network Cloud Unicycle OVS-DPDK R2 Datasheet.docx
IEC Type1&2	IEC Type1&2 Architecture	IEC Type1&2 Documentation	<a href="https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type1-deploy-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type1-deploy-compass-virtual-ubuntu1604-daily-master/</a> <a href="https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type1-install-seba_on_arm-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type1-install-seba_on_arm-compass-virtual-ubuntu1604-daily-master/</a> <a href="https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type1-destroy-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type1-destroy-compass-virtual-ubuntu1604-daily-master/</a> <a href="https://nexus.akraino.org/content/sites/logs/production/vex-yul-akraino-jenkins-prod-1/iec-deploy-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/production/vex-yul-akraino-jenkins-prod-1/iec-deploy-compass-virtual-ubuntu1604-daily-master/</a> <a href="https://nexus.akraino.org/content/sites/logs/production/vex-yul-akraino-jenkins-prod-1/iec-install-seba_on_arm-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/production/vex-yul-akraino-jenkins-prod-1/iec-install-seba_on_arm-compass-virtual-ubuntu1604-daily-master/</a> <a href="https://nexus.akraino.org/content/sites/logs/production/vex-yul-akraino-jenkins-prod-1/iec-destroy-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/production/vex-yul-akraino-jenkins-prod-1/iec-destroy-compass-virtual-ubuntu1604-daily-master/</a> <a href="https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-deploy-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-deploy-compass-virtual-ubuntu1604-daily-master/</a> <a href="https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-install-seba_on_arm-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-install-seba_on_arm-compass-virtual-ubuntu1604-daily-master/</a> <a href="https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-destroy-compass-virtual-ubuntu1604-daily-master/">https://nexus.akraino.org/content/sites/logs/arm-china/jenkins092/iec-type2-destroy-compass-virtual-ubuntu1604-daily-master/</a>	IEC Type1 R2 datasheet IEC Type2 R2 datasheet
Connected Vehicle	Connected Vehicle Architecture	Connected Vehicle Document Release 2	<a href="https://nexus.akraino.org/content/sites/logs/tencent/job/connectedVehicle/TestCompileCode/">https://nexus.akraino.org/content/sites/logs/tencent/job/connectedVehicle/TestCompileCode/</a> <a href="https://nexus.akraino.org/content/sites/logs/tencent/job/connectedVehicle/TestConnectVehicleService/">https://nexus.akraino.org/content/sites/logs/tencent/job/connectedVehicle/TestConnectVehicleService/</a> <a href="https://nexus.akraino.org/content/sites/logs/tencent/job/CD_Install_Tars/">https://nexus.akraino.org/content/sites/logs/tencent/job/CD_Install_Tars/</a>	Release2-CVB datasheet.docx
IEC Type4	IEC Type4 Architecture	IEC Type4 Document Release 2	<a href="https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/iec_deploy/">https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/iec_deploy/</a> <a href="https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/Develop_Tars/">https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/Develop_Tars/</a> <a href="https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/CompileTarsCode/">https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/CompileTarsCode/</a> <a href="https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/VR_Classroom_Deployment/">https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/VR_Classroom_Deployment/</a> <a href="https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/iec_destroy/">https://nexus.akraino.org/content/sites/logs/tencent/job/iectype4/iec_destroy/</a>	IEC Release2-IEC-Type4 datasheet.docx

## Feature Projects

Feature Project	Architecture Document	Link to Further Documentation
Akaino Regional Controller	Starting the Regional Controller	Akaino Regional Controller

Akraino Blueprint Validation		
Akraino Portal		
API Gateway		
Cluster Health & Overload Monitoring Platform		
MEC API Framework		
Support of OvS-DPDK in Airship		