Akraino’s Release 3 marks another milestone. With several blueprints accepted, a community API portal provides a view inside these blueprints.

- “A blueprint shows it works; APIs show how it works”
- APIs provide a map for customers to navigate Akraino edge stacks and services
- Consistent and well organized APIs will increase Akraino adoption

As Forbes puts it, “How a business wins or loses is increasingly dependent on how well they connect to external party apps, devices and services.”
What will be included in API Portal?

- 2 categories of Edge APIs:
  - **How to build the edge**: BM/VM/Container, networking, storage, mgmt./orchestration
  - **How to use edge as a service**: End user application(device, edge service, cloud service),

- A focus on interfaces, not implementations
- An inclusive approach, highlighting common APIs
- Open, extendable
Proposal on API portal map

How to use

- Access GW APIs
- Edge Infra APIs
- Orchestration & Operations

How to build

- Verticals (Blueprints)
- AR/VR
- Video Immersive
- Connected Car
- AI (DL, RL)

Device SDK
- Edge client enabler
- Location Service
- Authentication
- Authorization

Edge Service APIs
- DevOps
- Onboarding
- Observability
- Security
- Lifecycle Mgmt
- Scalability Mgmt
- Placement Mgmt
- Edge Federation
- Billing & Charging
- Tenant Mgmt

Cloud/Central DC APIs
- Edge infra
- Edge node
- Edge cloud
- Edge Services

Location Service
- Edge client enabler
- Authentication

Device SDK
- Edge client enabler
- Location Service
- Authentication

Access GW APIs
- Mobile GW
- LPWA GW
- Fixed LGW
- LDNW GW

Edge Infra APIs
- BM/VM/Container
- Accelerator
- Storage
- Network

Orchestration & Operations
- Edge infra
- Edge node
- Edge cloud
- Edge Services
What we have now

api.akraino.org

- This is REST API based documentation with the focus on application developer interfacing.
- We will continue to include the infrastructure work stream APIs
Call for Actions

• Pilot projects:
  Volunteer projects are welcome. PCEI, AI Edge, KubeEdge are in the queue

• API portal design:
  Categories, format (RESTful, gRPC etc.), versioning etc.
  You are welcome to join our Friday 9am weekly meeting to discuss
  https://wiki.akraino.org/display/AK/API+Sub-committee

• Collaborative validation:
  Mock servers, client stubs etc. We need volunteers to test out APIs
Thank You!