## China Telecom Cloud (Qidong Zhang)

Interviewee is okay to share his name. Interviewed on June 20, 2024.

### **Organization Intro**

### Can you give us an overview of your organization and what it does and how it relates to K8S?

* + Business related to CDN application & its acceleration, infrastructure is built on top of K8S. CDN applications running on the K8S nodes, over 30k nodes. Each node has 10-20 applications.

**Motivation**

### Compared with other products in this space (proprietary and open), what drew you to the project?

* + Kube-edge oss started early and quite mature from our perspective. We have a tight connection to the kube-edge community. The community support is strong.

### **Usage Scenario**

### How does your organization use the project and how long have you used it?

* + 4 years. 8 regions, each region has its own k8s cluster running kube edge, each cluster has 2-3k nodes. Each cluster has its own kube edge management plane(cloud core), every node acts as edge core.

### What version is used and what is your update cadence with the project?

* + 1.5.0. We don’t update very often, roughly once every two years.

### Can you walk me through what your experience was in either adopting it outright or integrating it with your existing services and applications? What challenges did you experience with the project?

* + Kube-edge has nice integration with existing systems. Challenge is it is hard to manage a lot of k8s nodes at large scale. We have communicated the issue to the community.

### Did you find the information in the repo valuable to your implementation? What specifically?

* + The project repo is useful, easy to find contents.

### Has your implementation of the project provided measurable value?

* + Yes, it does yield to measurable values.

### Do you have any future plans regarding the project? More involvement, feature requests, expansion, etc.

* + Yes, we would like more cloud native support for kube edge. For example, k8s ingress support isn’t great for kube edge. Communication to edge nodes isn’t ideal, CDN requires ultra high throughput and kube edge doesn’t fully meet our performance requirements.

### **Perception**

### What is your perception in terms of the project’s:

### Community openness

* + - Yes

### Governance

* + - Yes

### Community growth potential

* + - Good potential

### Maintainer diversity and ladder

* + - Lots of people are involved.

### Maintainer response

* + - Good response.

### How are you participating in the project community?

* + I have participated in community meetings to understand project progress.

### Did you need to engage with the community members or maintainers? If so, what was the context of the engagement and did it reach an acceptable outcome?

* + We often attend community meetings, especially in early days we communicated with community experts to understand various features we needed.

### **Project Strengths**

### In your opinion, what are the overall strengths of the project?

* + High strength

### **Project Improvements**

### Is there something you feel that holds the project back from reaching its ultimate potential?

* + Deployment dependency, not easy to deploy outside of k8s environment. If I don’t use k8s, it is not easy to use kube-edge. Some of our use cases don’t need k8s, and we can’t use kube-edge in those situations.

### In your opinion, what can the project do better?

* + Supporting multiple languages would be nice.
  + Would love to see kube-edge in large deployments and scale.

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