5G MEC/Slice System to Support Cloud Gaming, HD Video and Live Broadcasting

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Agenda

- > Blueprint Release 4 Outcomes
- Relevant Industry Trials
- Work Plan



BP R4 Outcomes

> What Released

- No new functional features
- Integrated Bluval for validating the K8s layer and OS layer of the system using 3 test suites (Kube-hunter, Lynis, Vuls)
- Detected and fixed 34 system level vulnerabilities, improved security and validation of the blueprint

> Documentation List

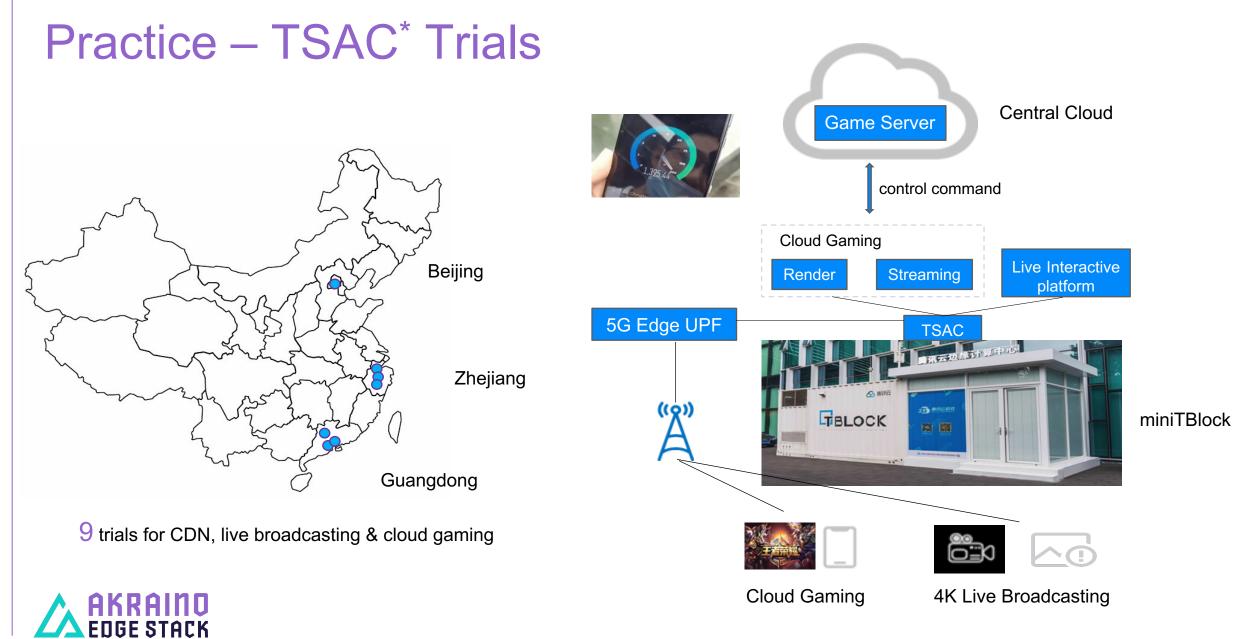
- 5G MEC/Slice System Release 4 Wiki Page: <u>https://wiki.akraino.org/pages/viewpage.action?pageId=28976943</u>
 - Release Notes: <u>https://wiki.akraino.org/display/AK/R4+-+Release+Notes</u>
 - Test Documentation: <u>https://wiki.akraino.org/display/AK/R4+-+Test+Documentation</u>
- Bluval Vulnerabilities Scanning Results on Nexus (Kube-hunter, Lynis, Vuls): <u>https://nexus.akraino.org/content/sites/logs/tencent/bluval/results_upload/</u>
- Bluval Validation Criteria: <u>https://wiki.akraino.org/display/AK/Steps+To+Implement+Security+Scan+Requirements</u>



Agenda

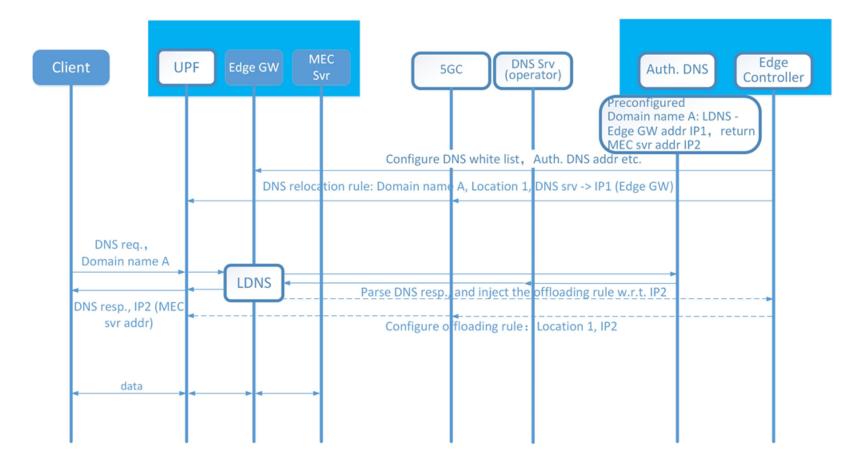
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TSAC: Tencent Smart Access Connector

Key Technology - Local DNS (LDNS)



Differences between DNS handling of ETSI MEC

- Interaction with the authoritative DNS server, where request is parsed
- Interatction with UPF, to enable DNS request relocation and traffic offloading



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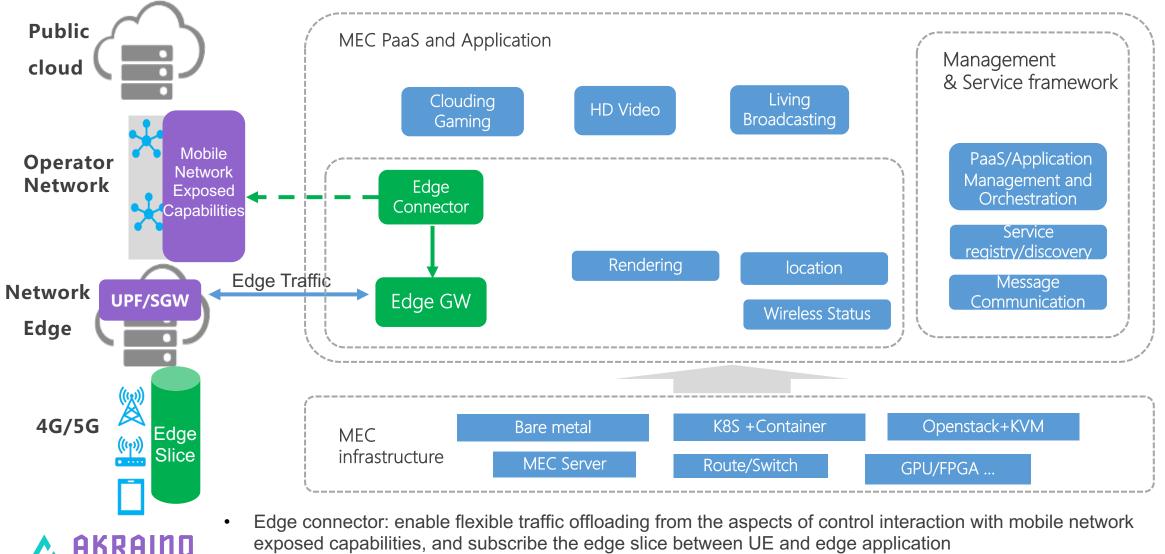
- NW slicing emulator, enforcement of network slicing policy
- LDNS, parsing of DNS resp. and injection of offloading rule
- NW slicing mgmt, APIs to manipulate NW slices







BP Architecture Recap



• Edge GW: enable the traffic offloading from the aspects of data plane with local traffic routing, traffic management and so on.

Thank you!

