



ONAP based Network Slicing PoC

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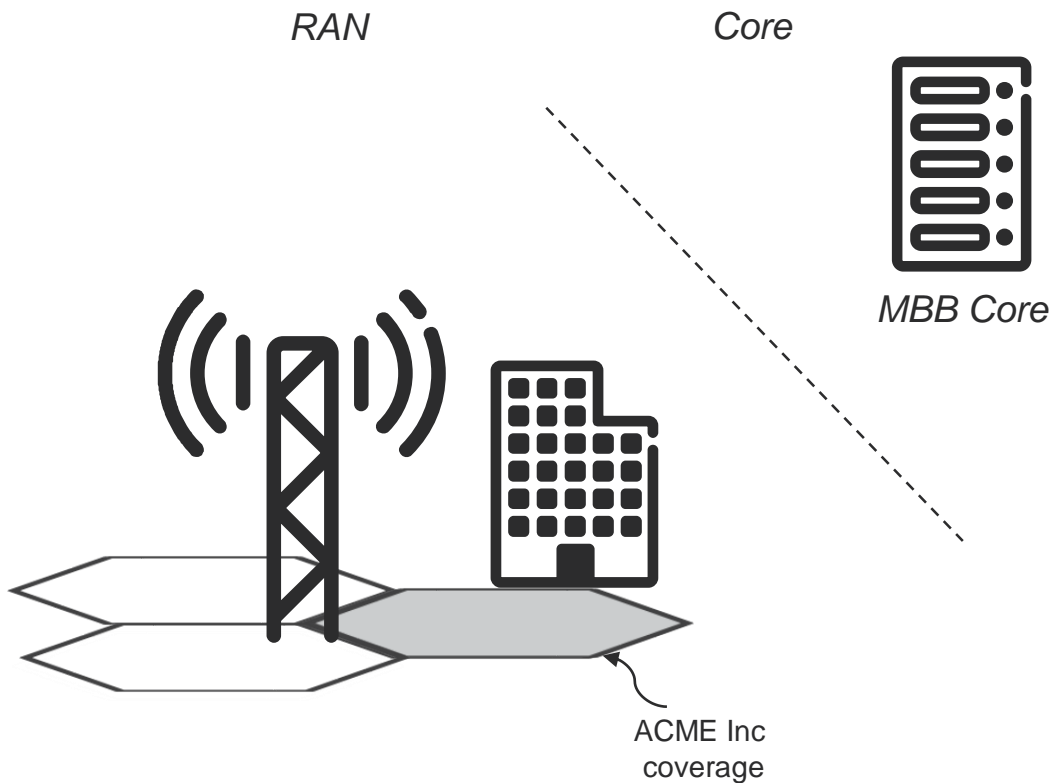
Additional Contributors: Cagatay Buyukkoc, Paul Smith, Gary Schwaiger, AT&T; Jeff Collins, Ericsson

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First Responder use case



ACME, Inc. wants to provide 2 levels of Guaranteed Bandwidth (GB) MBB service to first responders in their region in addition to the common Best Effort (BE) mobile service that all the customers receive.



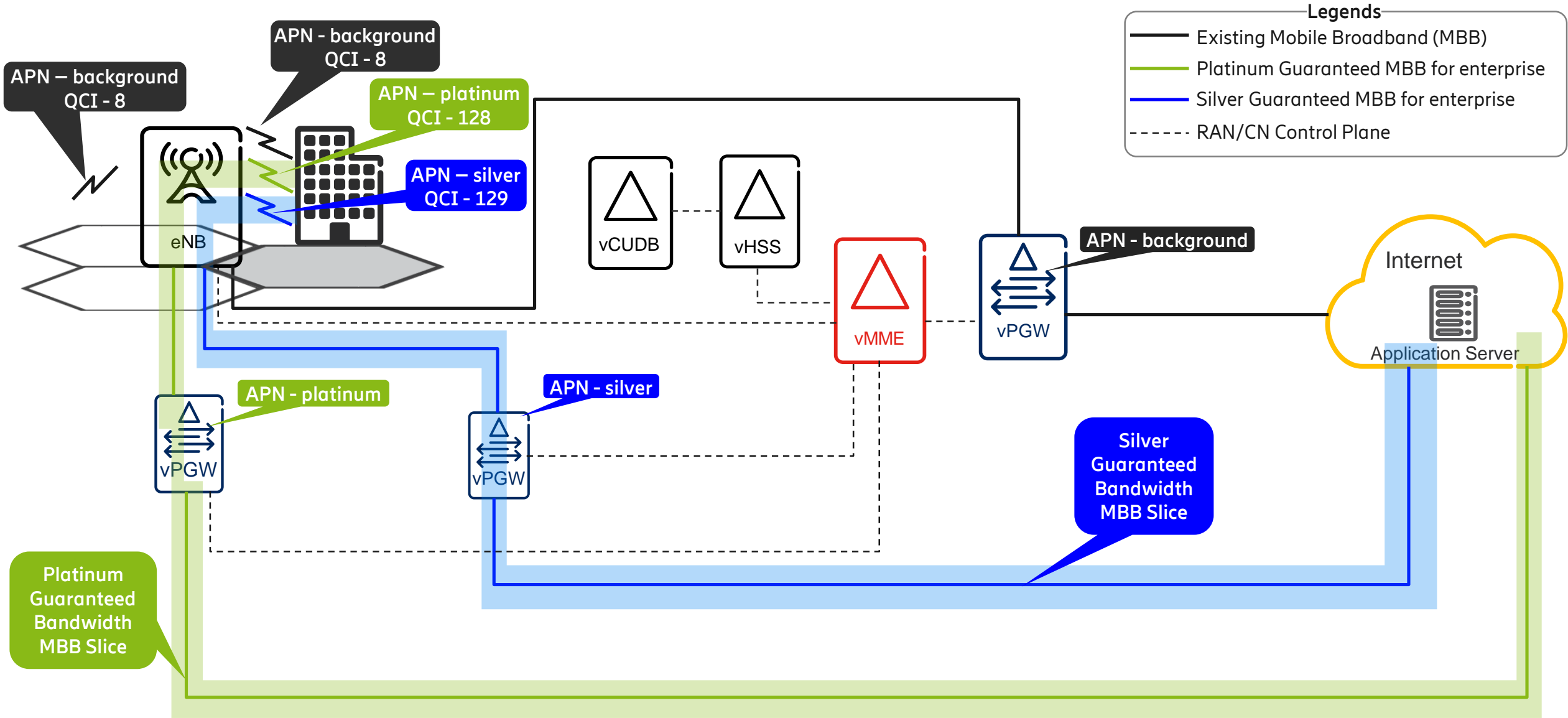
Activation & Modification

- Activate platinum level GB MBB service at the ACME, Inc. coverage area
- Create the new service Core (the vPGW)
- Modify existing elements including the Core vMME and the serving RBS
- Repeat b & c for the silver level Guaranteed Bandwidth MBB service

Note: A MBB service for common users (i.e., non-first-responders) will already exist as a precondition to this PoC.

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Network Architecture

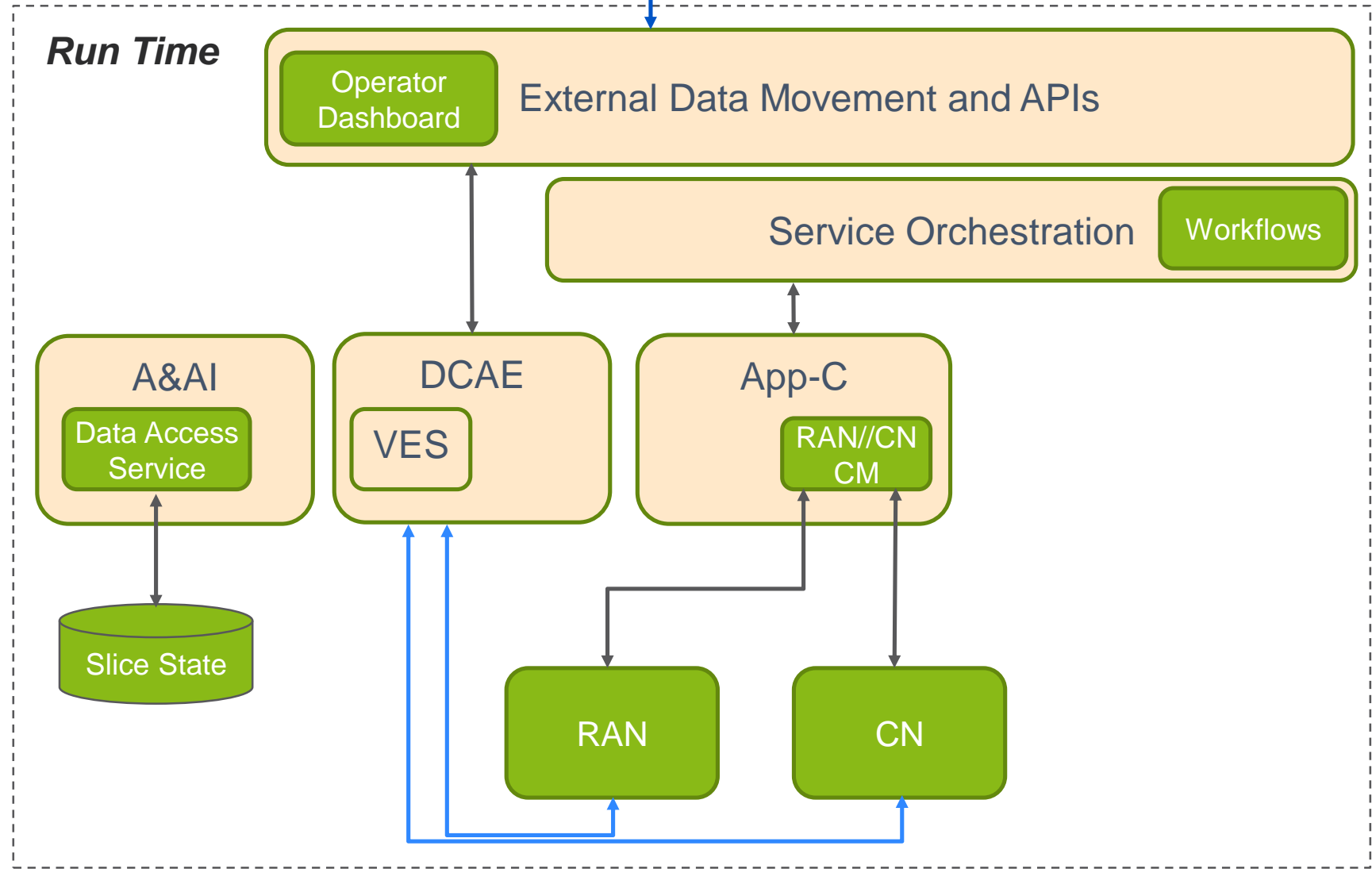


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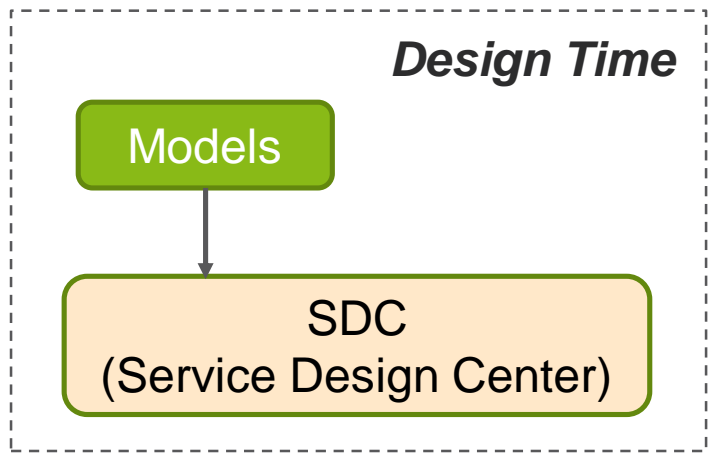
ONAP Architecture



Tenant Observability and APIs for enterprise

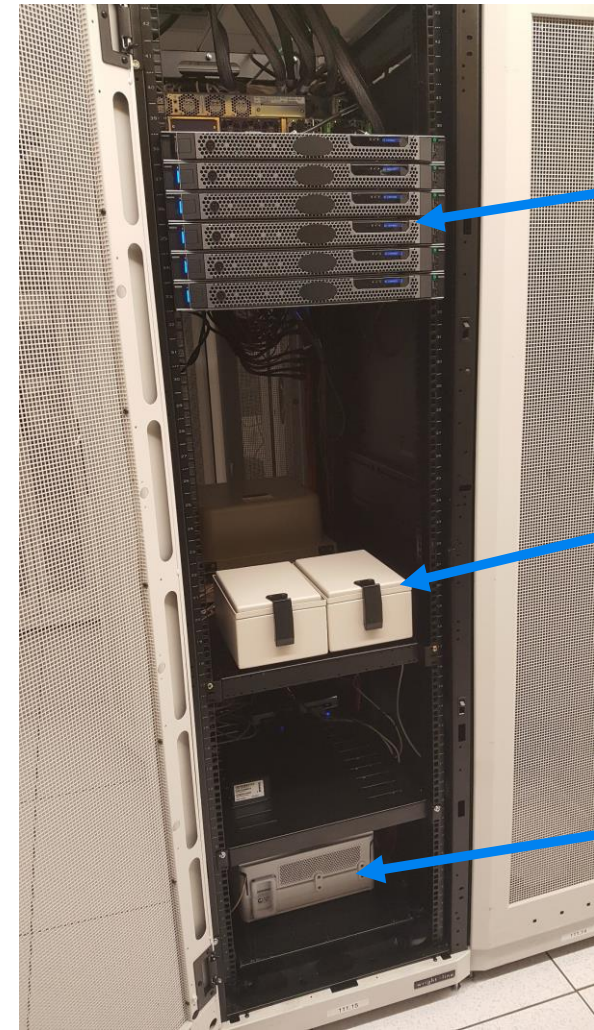


Design Time



- ONAP component
- Configuration
- 3rd party component

AT&T Atlanta Lab Setup



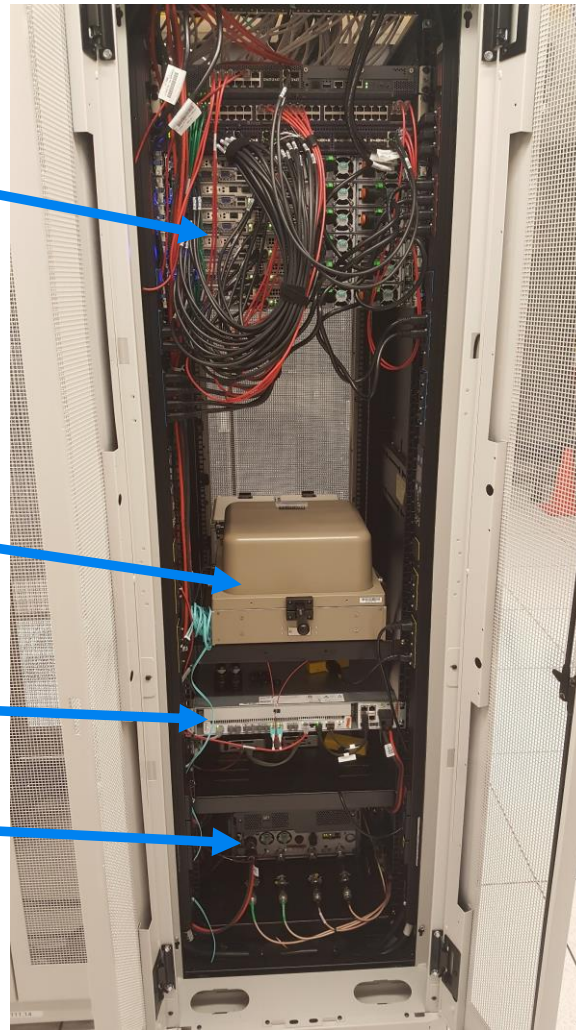
Front Cabinet View

6 Dell R640's hosting
ONAP & the Packet Core

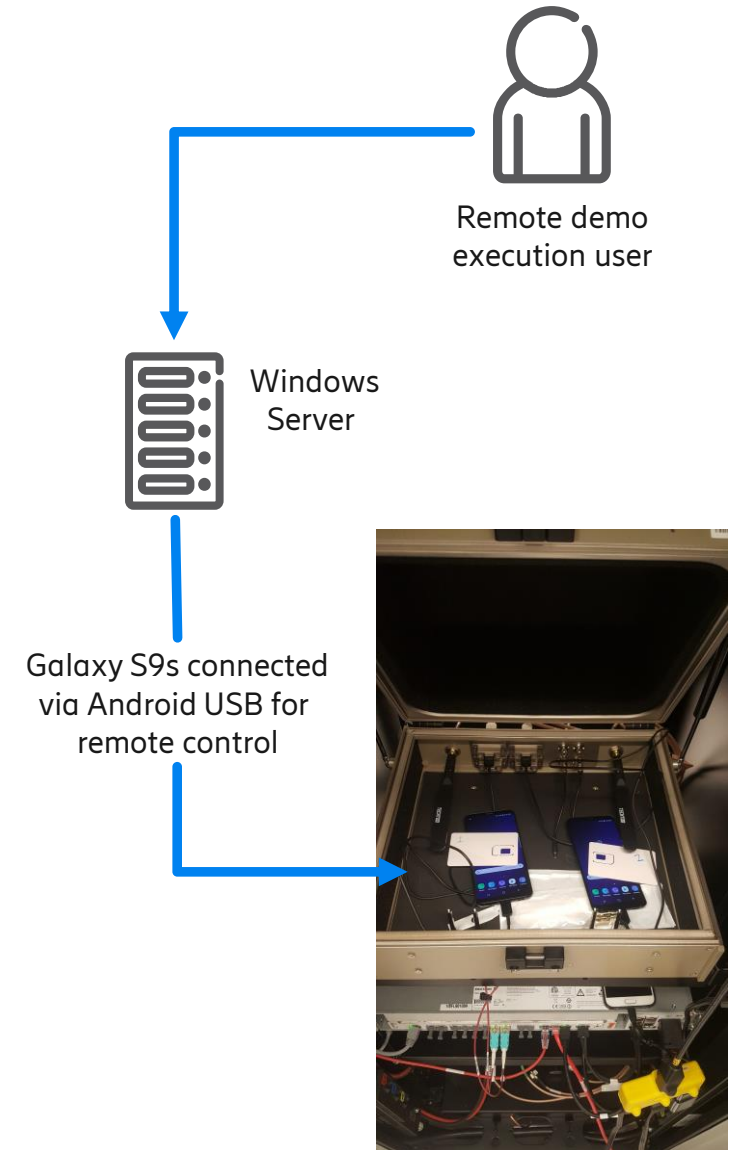
4 Samsung S9's inside
3 test chambers

1 RBS6601

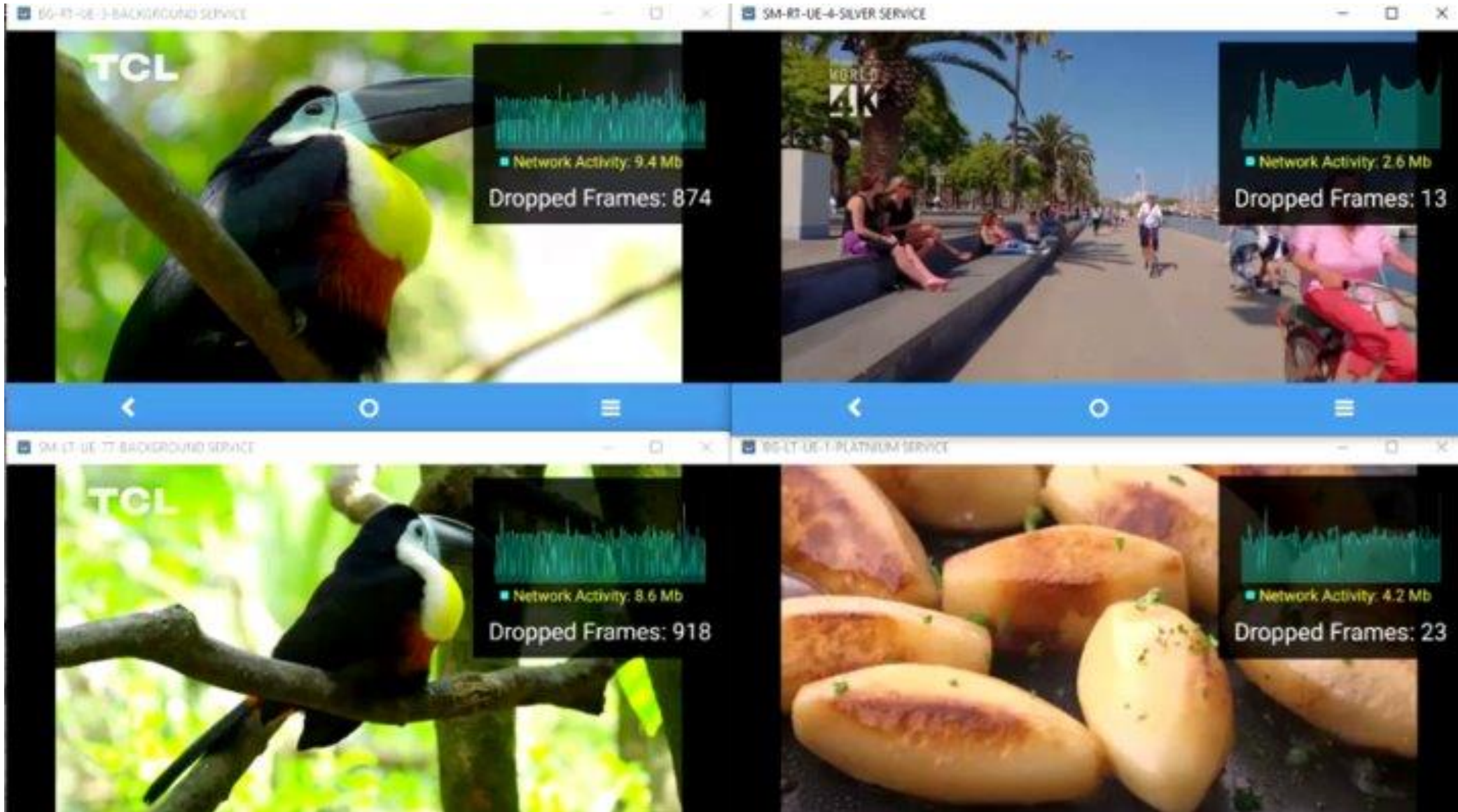
1 Radio 4415



Back Cabinet View



Result



Conclusions



Success

.... BUT

- Component rebuilds for
 - SO
 - APPC
- Needed enhancements
 - APPC
- Lots done more to do



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