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Summary

Goal: Holistic digital cockpit HMI with seamless user experience across IVI and Instrument Cluster displays

Approaches:

- Display Sharing
- GPU Sharing
- Surface Sharing
- API Remoting
- Shared State, Independent Rendering



PoC/Demo Details

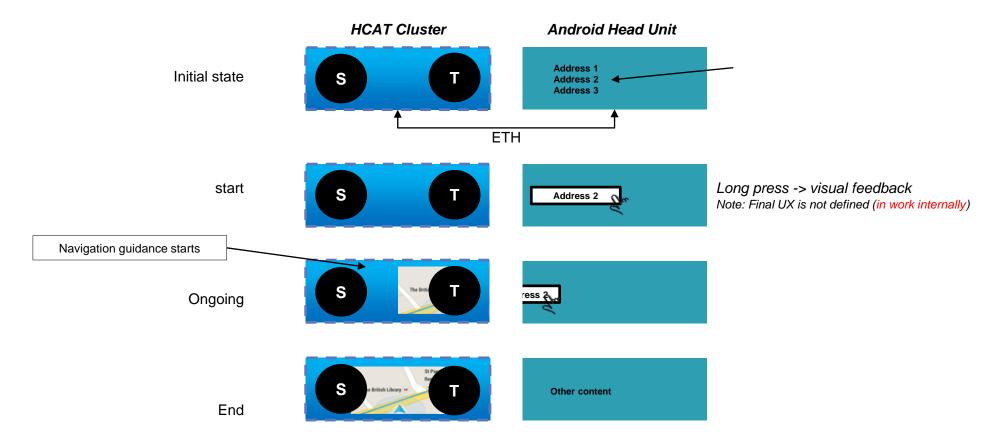
Implemented prototype of the digital cockpit that is addressing few essential customer use-cases and reusing HMI framework main principles

- Important customer cases related to domain interaction
- Using one of domain sharing approaches
- Using Linux and Android SW stacks



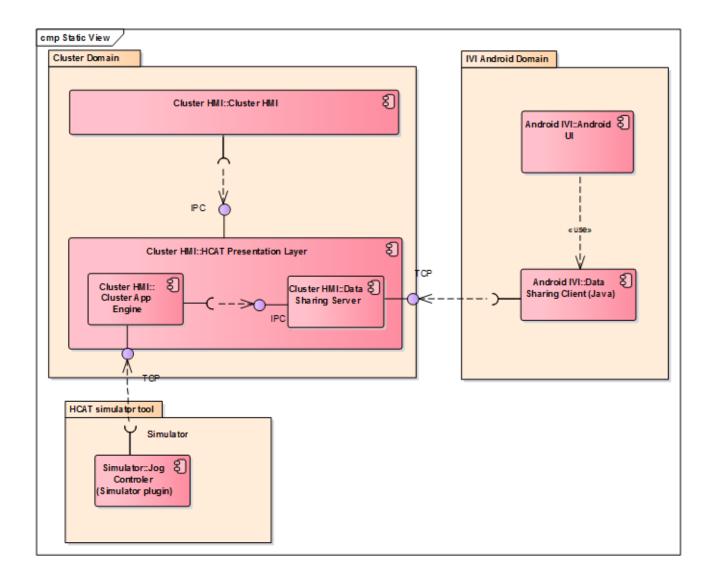
OEM scenario

Scope of the demo is to address one of customer use-cases: "extended cluster"





PoC architecture





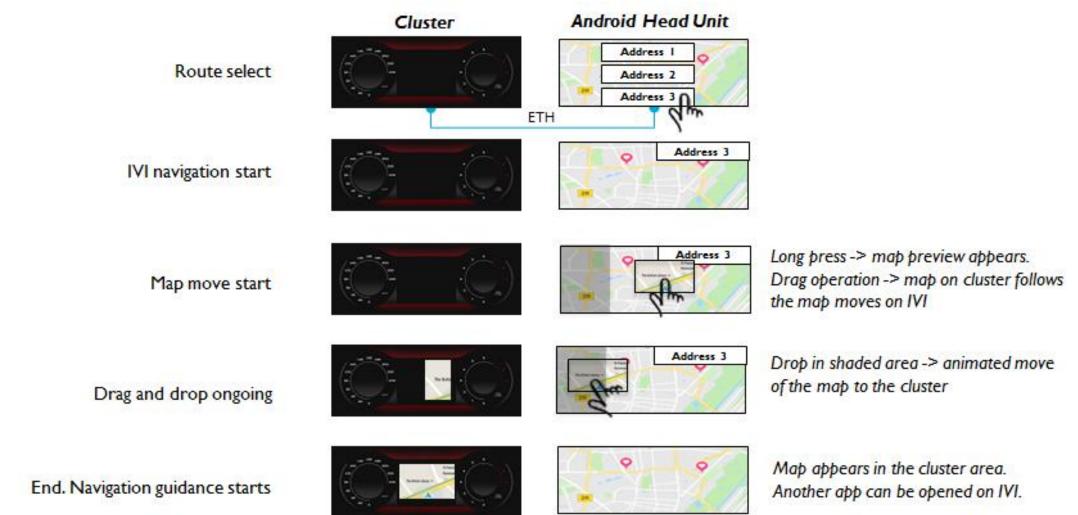
RELEVANCE

Advantages to Shared State, Independent Rendering:

- Low inter-domain data channel bandwidth usage
- Applicability to mid/low performant SoC
- Operating System agnostic approach

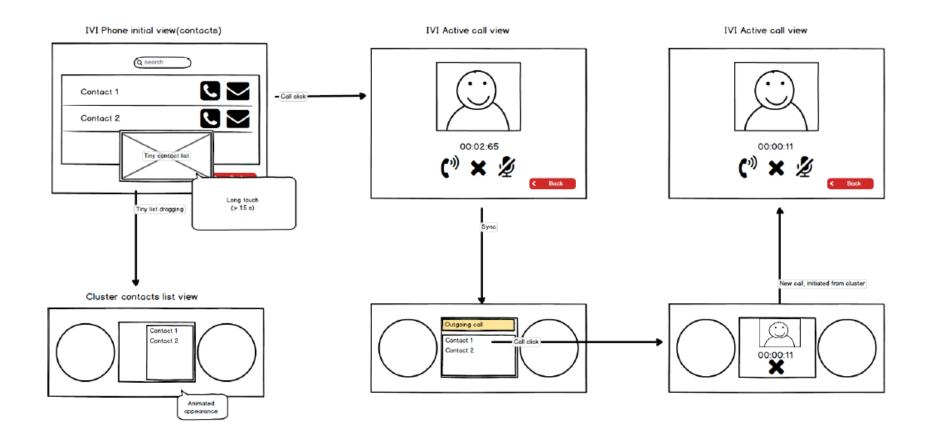


DEMO MAP USE CASE



DEMO PHONE USE CASE

Phone app sharing and data sync





PoC Technical Info



Rich Text Format



Thank you!

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