Graphics Sharing and
Distributed HMI Compositing
2017-11-30 Project Team Meeting
AGENDA

1. Roll Call and practicalities (5 min)
2. Detailed presentation of RAMSES (~ 20 + 10 minutes)
3. Review Project Wiki page additions (5 min)
   - Definitions
   - Use cases
   - Technologies
1. Feedback on project goals (5 min)
2. Defining activities & actions (5 min)
Ramses Presentation
Supplementary material and Resources
Project Goals (first proposal)

• All project participants gain *thorough* understanding of available choices
• Produce technology demonstrators, newly created or (if exists already) found and highlighted.
• Publish hard data on learning: Performance, resource needs..
• Seek industry acceptance & alignment among Linux distributions
• Separately identify and describe Hypervisor-based opportunities, how they differ, characteristics, advantages and disadvantages.
• Seek alignment on solutions (protocols) among “closed” alternative proponents – i.e. other operating systems, commercial HMI-tools, etc.
• Promote *open* standards and implementations across industry
• Summarize and create (implementation) documentation for recommended choices
Practicalities

• Need clear commitments from project participants
• A project to achieve results! Those willing to actually work will organize (or self-organize) around a functioning meeting schedule.
• Nominate project leader
• This year: <= 3 more meetings
• Time poll
• Mailing list: genivi-projects @lists.genivi.org
• JIRA tracker
  https://at.projects.genivi.org/jira/projects/GSHA
Supporting ECU architecture picture (one example)
Vehicle Domain Interaction Strategy - Resources

- Large interest since GENIVI first announced the Vehicle Domain Interaction Strategy – leading to many questions

- To meet the demand we have created a Frequently Asked Questions document for the most common questions: http://tinyurl.com/DIROFAQ

- Please refer to the FAQ for general questions about Vehicle Domain Interaction Strategy.

- Also: Strategy Home Page (Wiki): http://tinyurl.com/DIROHOME
  - Strategy KickOff Slides and Recorded Webinar ^ links on Home page
  - Project registration/survey (fill in, to be kept informed)
Vehicle Domain Interaction Strategy - Resources

1. Register yourself to projects on the on-line GENIVI Domain Interaction form & survey (https://www.surveymonkey.com/r/JZJV5KP)

2. Meeting Schedules (all projects): https://at.projects.genivi.org/wiki/x/sIP0

3. Questions? Philippe Robin  philippe.robin@technoveo.com
   Gunnar Andersson  gandersson@genivi.org

Use the community mailing list!  genivi-projects@lists.genivi.org
Scope and definitions (discuss)

• Graphics Sharing =
  • “Graphics in the form of bitmap, scene graph or drawing commands generated on one ECU, transferred for display from another ECU (or between virtual machine instances)”

• We are concerned with over-the-network protocols, and Hypervisor facilitated solutions (GPU sharing), independently
• Not primarily focused on simple encoded video-distribution topics, although video compression might be part of the solutions. (But if it’s an appropriate candidate for general-purpose transfer, we should investigate/compare/clarify).
Scope and definitions #2 (first proposal)

• Distributed HMI Compositing =

  “Dealing with technologies and methods to turn a multi-ECU system into what appears and acts as a single user-experience”.

• Conceptually extends “graphics sharing” to the ability of requesting an “application HMI” to be shown on another ECU.
• Boundary might be a bit vague
• Relates to some common “application management”, details unknown?