

Vehicle to station Communications

Presentation by

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History of vehicle to station communications

- Deutch Connector
 - Standardized at CaFCP
 - Keyed orientation
 - Many Pins



- Samtech Connector:
 - Standardized for Material Handling
 - Keyed orientation
 - Many small pins

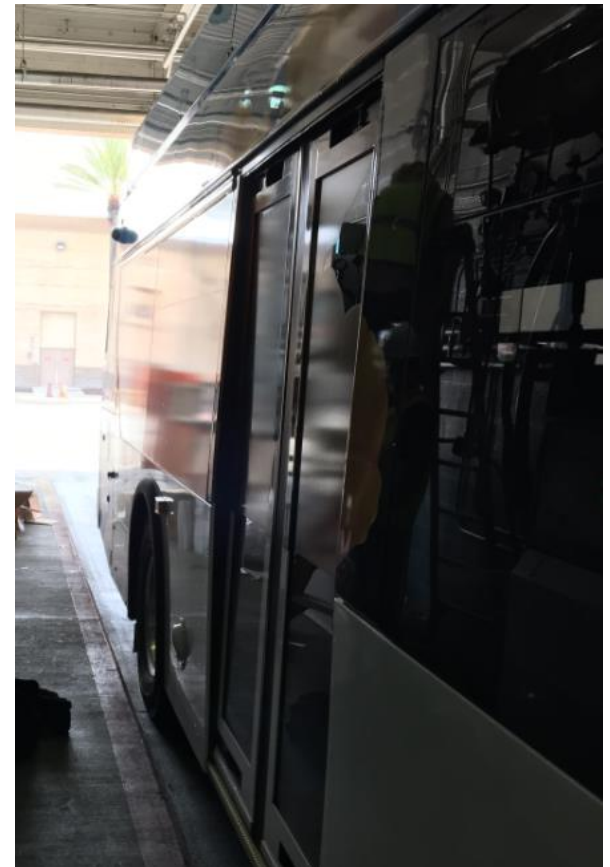


Wireless Communications

- Wi Fi
 - Tested but never standardized
 - Car Identity challenge
- IR Communications
 - Current standard for LDVs
 - Many drawbacks such as vulnerability of hardware
 - Ok, but not ideal
- DSRC and other V2X technologies
 - Very promising
 - Still may have car identity challenge
- Wireless seen as only option for LDVs due to public use.

MDV Fueling is not the same as LDV

- The operators may be operators, not general public
 - Solution must stay easy to use, but possibly less easy than LDV.
 - Components can be heavier.
- Possible to have more restricted vehicle location
 - Identity problem may not be as significant.



Proposed solution

- Stereo ¼" cable
 - Simple to use
 - Radially symmetrical
 - Robust
 - Easy to acquire
 - Supports serial communications, or just temperature signal
 - Currently in use at OCTA
- This is just one possible solution as an alternative to wireless.



Thank you
tell me more