Comparison of Car Connectivity Solutions

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Solutions & Services
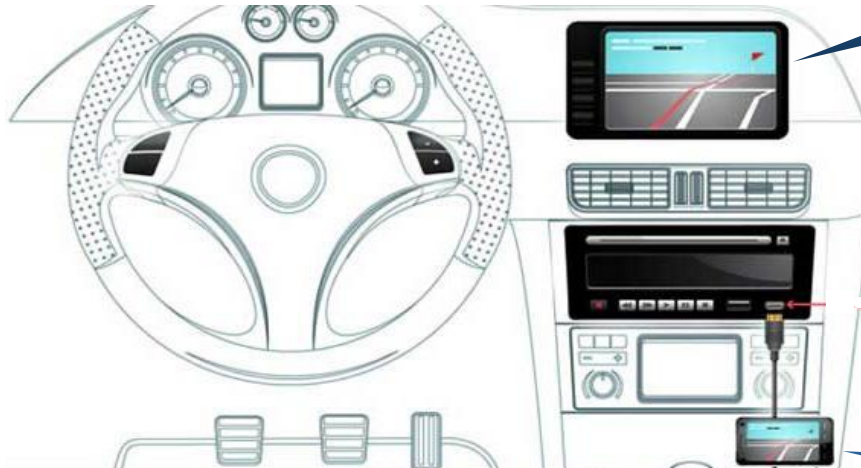
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Car Connectivity Options

Smartphone As In-Car Service Portal

[Projection Mode]

Apps running on phone but projected on car

[Collaboration Mode]

Apps running on both phone and car

[Native Mode]

Apps running and showing on phone interacting with car

Smartphone Connectivity

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Smartphone Connectivity Options

CarPlay

- Projection mode
  - CarPlay on H/U
  - iOS app on phone
- Closed tech
  - Need Apple license
  - Apple watch

Android Auto

- Projection mode
  - Android app
- Closed and open
  - Need Google license
  - SDK open
  - Android wear

Other

- Projection mode
  - MirrorLink
  - SDL
  - HTTP
  - Miracast
- Various options
  - Consortium
  - Vendor
  - Open source

Proprietary

- Interoperable mode
  - Telematics app
  - OEM-specific app
- Various options
  - Work with CarPlay and Android Auto
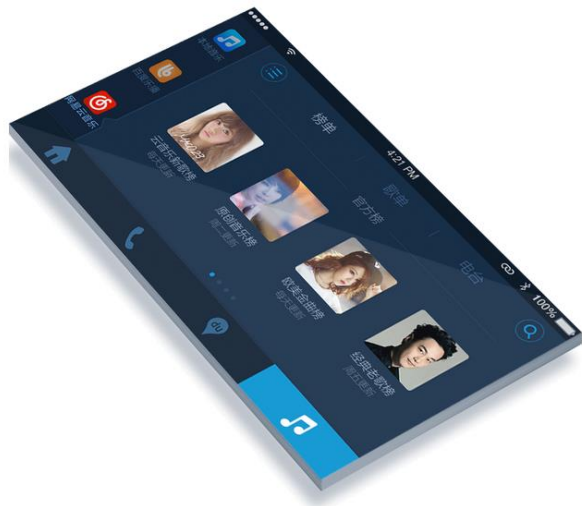 - Create own protocol

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Connectivity Technology Comparison

	Apple CarPlay	Google Android Auto	CCC MirrorLink	Other WebRuntime, etc	OEM Telematics
Medium	USB +WiFi (since iOS8.3 Beta)	USB (+WiFi?) + BT	USB + WiFi + BT	USB, WiFi, BT, MHL, HDMI	USB, WiFI, BT
Standard	H.264 / PCM	H.264 / PCM, AAC-LC	VNC / RTP	Various (HTTP/HTML)	Various (Existing or Proprietary)
Voice Recognition	Siri	Google Voice	By Smartphone	???	???
Since	2013	2014	2009	???	???
UI	Apple	Google	Flexible	Flexible	OEM
Car Data	GPS, Temp, Day/Night, Engine type	+ RPM, Current gear, Odometer, Door status, Head lights, etc	Flexible	Flexible	All
Compatibility	iPhone	Android Phone	Android Phone	Any	Any
Certification	Apple	Google	CCC	Other	OEM

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