



DEVELOPER PROGRAM

SDL VEHICLE DATA
SDL HACKATHON
MWC AMERICAS 2017

AGENDA



- Available Data
- How to get data
- How to simulate data

Available Data - as defined by SDL

GPS	Struct - Location, Heading,...
SPEED	Float - [0 – 700] kph
RPM	Integer - [0-20000] rpm
FUELLEVEL	Float - [-6 – 106] %
FUELLEVEL_STATE	ENUM - [NORMAL/LOW/...]
FUELCONSUMPTION	Float - [0 – 25575] microliter
EXTERNTEMP	Float - [-40 – 100] Degrees Celsius
VIN	String
PRNDL	ENUM - [DRIVE/PARK/1/2/...]
TIREPRESSURE	STRUCT – [Information on single tires with NORMAL/LOW/...]
ODOMETER	INTEGER - [0 -17000000] km
BELTSTATUS	STRUCT – [Information on deployed belts]
BODYINFO	STRUCT - [Information on Ignition/Doorstatus/...]
DEVICESTATUS	STRUCT – [Information on the connect phone]
BRAKING	ENUM – [YES/NO]
WIPERSTATUS	ENUM – [WASH/LOW/HIGH/...]
HEADLAMPSTATUS	STRUCT – [lowBeam/highBeam/...]
ENGINETORQUE	FLOAT – [-1000 – 2000] Nm
ACCPEDAL	FLOAT – [0 – 100] %
STEERINGWHEEL	FLOAT - [-2000 - 2000] Degrees

NOT ALL VEHICLE
DATA ITEMS AVAILABLE
ON ALL CARS

HOW TO GET VEHICLE DATA

getVehicleData

Request

GetVehicleData is a request. The response will contain the vehicle data item, if available and allowed by policy. Useful for one-time checks.
The data will be contained in the onGetVehicleDataResponse

subscribeVehicleData

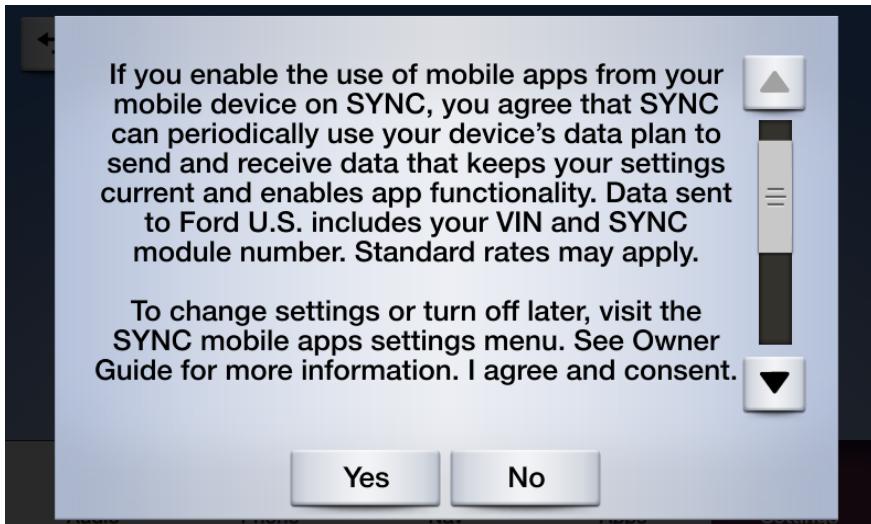
Request

subscribeVehicleData will send the app a notification whenever a value changes.
Highest possible frequency: 1hz. Useful for logging, analyzing, or displaying

Full Guides

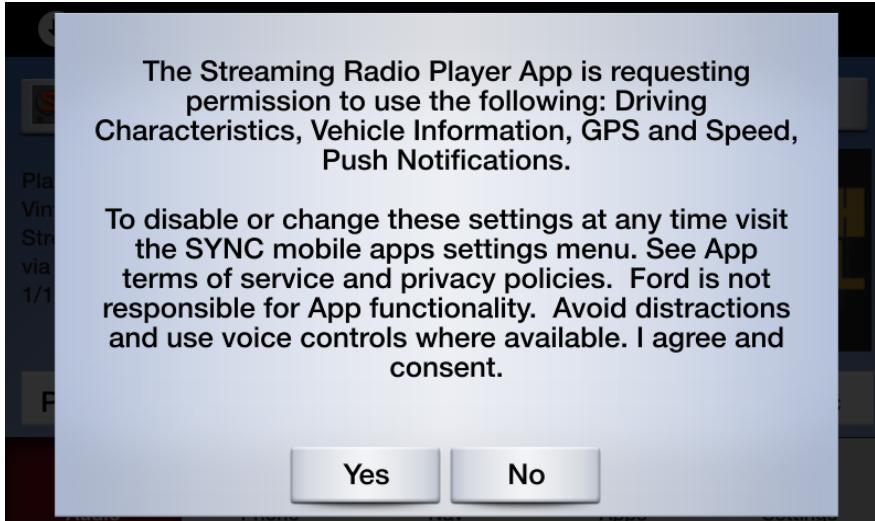
<https://smartdevicelink.com/en/guides/iOS/getting-vehicle-data/>
<https://smartdevicelink.com/en/guides/android/getting-vehicle-data/>

APPLINK PERMISSIONS (SYNC 3)



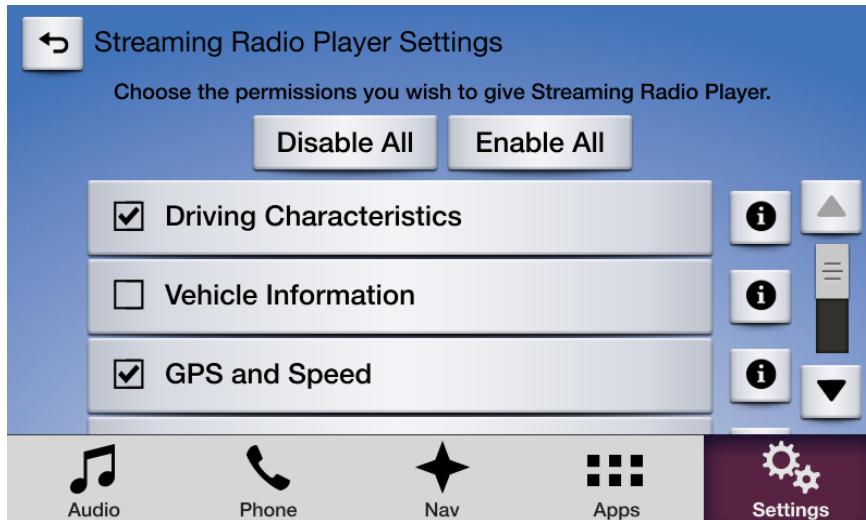
- When using SYNC 3, the user must first consent to the use of AppLink overall
- Note: The emulator skips these steps

VEHICLE DATA PERMISSIONS (SYNC 3)



- Any app with extended permissions for their AppID for Vehicle Data, Push Notifications, etc., will request consent for each item
- Note: The emulator skips these steps

INDIVIDUAL APP PERMISSIONS



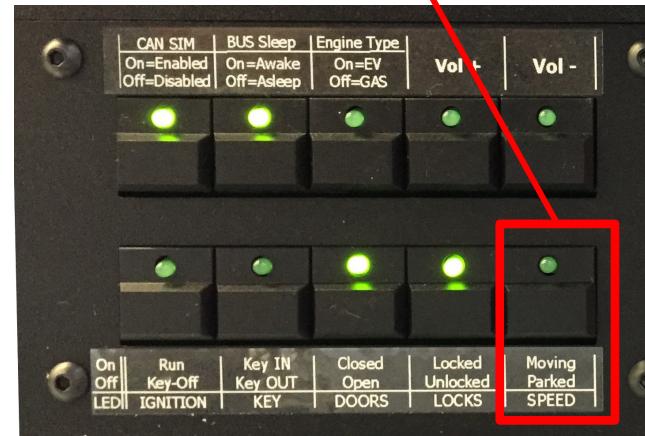
- App Permissions are enabled/disabled according to functional groups
- If a user disables a functional group, the app will not have access to that vehicle data!

HOW TO SIMULATE DATA – TDK

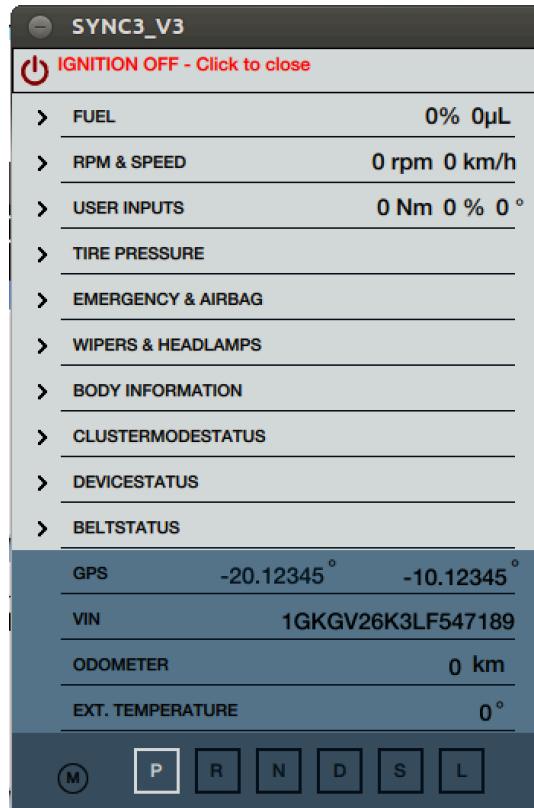


- Very Limited Simulation

- Speed (0/100kph)
- PRNDL (Park/Drive)



HOW TO SIMULATE DATA – SYNC3 EMULATOR



- Complete Dataset
- Easy to change and simulate

