



DEVELOPER
PROGRAM

SDL EMULATOR

SDL HACKATHON
MWC AMERICAS 2017



Go Further

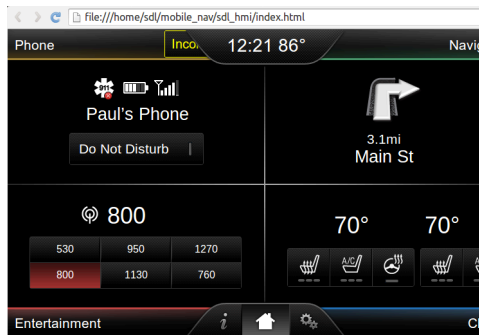
AGENDA



- Refresher on connection
- Overview on Emulators
- Using the SYNC3 Emulator
- Demo Time!

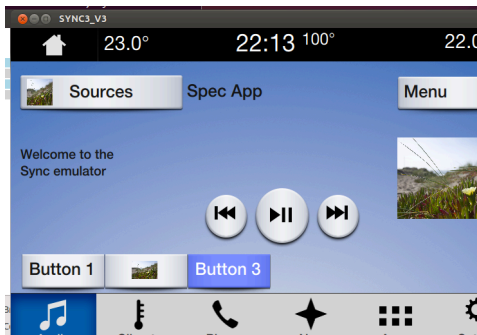
EMULATOR OVERVIEW

sdl_core + sdl_hmi



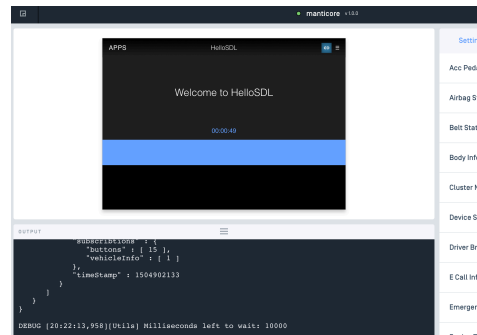
- Uses sdl_core
- html5 HMI
- github.com/smartdevicelink
- No Vehicle Data Simulation
- Ubuntu Required (VM)

Ford SYNC3



- Uses sdl_core
- QT HMI
- Vehicle Data Simulation
- Ubuntu Required (VM)
- developer.ford.com

SDL Manticore



- Uses sdl_core
- QT HMI
- Online Only
- [Smartdevicelink.com](https://smartdevicelink.com)

ALL NEW

SDL Core + SYNC3 HMI EMULATOR

- Installation

- Install VirtualBox
- Download Ubuntu 16.04.02 LTS
- Create Ubuntu Virtual Machine
- Forward port 12345 from host to VM
- Setup FolderSharing
- Copy install file to VM
- Run setup.sh (SU required)
- Run Sync3.sh
- Done!

- OR

- Use the VirtualBox Diskimage we provide
- Start the DiskImage
- Run Sync3.sh
- Done!

DEMO TIME!

KEY INFO

- Prepare VirtualBox
 - Install VirtualBox 5.1.26
 - Install VirtualBox 5.1.26 Extension Pack
- Import Appliance
 - Select the SYNC3_*.ova file
 - Start the Virtual Machine
- Notes
 - The Virtual Machine is setup with 4GB of memory, change if needed
- User
 - Username: s3emu
 - Password: s3emu
- Starting the emulator
 - Location:
~/Desktop/Sync3_Emulator
 - Double click on sync3.sh
 - Choose “Run in Terminal”

MANITCORE

- Online Service
- Start Instance and connect to the IP address + port shown
- Hosted by the SDLC
- Free to use
- No installation necessary



Connect a Device

Enter the following information into your device to continue.

URL m.sdl.tools

Port Number [5886](#)

The screenshot displays the Manticore v1.0.0 interface. The main window shows a HelloSDL application with the text "Welcome to HelloSDL" and a timer at "00:06:12". Below the app window is an "OUTPUT" section showing log messages. To the right is a sidebar with tabs for "Settings", "Buttons", and "Voice". Under the "Settings" tab, there is a list of vehicle data points, each with a play button icon.

Settings | Buttons | Voice

- Acc Pedal Position
- Airbag Status
- Belt Status
- Body Information
- Cluster Mode Status
- Device Status
- Driver Braking
- E Call Info
- Emergency Event

OUTPUT

```
INFO [20:27:10,182][Policy] Group: Notifications
DEBUG [20:27:10,225][Policy] Wait for a next backup

DEBUG [20:27:13,964][Utils] Timer has finished counting. Timeout (ms): 10000
DEBUG [20:27:13,964][Utils] Milliseconds left to wait: 10000

DEBUG [20:27:23,964][Utils] Timer has finished counting. Timeout (ms): 10000
DEBUG [20:27:23,964][Utils] Milliseconds left to wait: 10000

DEBUG [20:27:33,965][Utils] Timer has finished counting. Timeout (ms): 10000
DEBUG [20:27:33,965][Utils] Milliseconds left to wait: 10000
```