

Logcat Dictionary :

Author	VR
Dictionary Version	1.07.2
Events	1.07: Updated Doors more robust filter logs, Parking brake status, Belt Status.
Events	1.06: Added: iDrive rotary, iDrive btn Menu, Tel, Back, Nav, Options. Steering Wheel buttons: Tel
Actions	1.05: Added Carplay commands (cn.manstep.phonemirrorBox API)
Actions	1.04: Added Black Screen command
Events	1.03: Added Screen mode switch detection: "Android to OEM" & "OEM to Android" Events
Events	1.02: Added Belt on/off Event
Events	1.01: Added Car door Events (Front & Trunk)
Events	1.00: iDrive detection Events (Pressed) + Steering Wheel Next / Prev.
Date	2020-06-16
HU & Android Version	PX6-9.0
APP Version	2019111801T_1280x480_970
Framework Version	9 PQ2A 190305.002 eng.work2.20191104.14853
MCU Version	615043bALS-CIC-HW7-200504 B1280
Car	BMW E89 CIC 2014

Events

Steering Wheel buttons:

Event	Steering Wheel Tel Button Pressed (0x11 0x00 0x32)
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x11 0x01 0x32

Event	Steering Wheel Tel Button Released after pressed (0x11 0x01 0x33)
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x11 0x00 0x33

Event	Steering Wheel Prev Key Pressed (0x17 0x00 0x2d)
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x17 0x00 0x2d

Event	Steering Wheel Prev Key Released after pressed (0x17 0x01 0x2c)
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x17 0x01 0x2c

Event	Steering Wheel Next Key Pressed (0x18 0x00 0x2c)
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x18 0x00 0x2c

Event	Steering Wheel Next Key Released after pressed (0x18 0x01 0x2b)
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x18 0x01 0x2b

iDrive CIC :

iDrive Knob Rotary :

Event	iDrive knob rotary Click up: 0x01 0x01 0x42
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x01 0x01 0x42

Event	iDrive knob rotary Release after Click up: 0x01 0x00 0x43
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x01 0x00 0x43

Event	iDrive knob rotary Click down: 0x02 0x01 0x41
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x02 0x01 0x41

Event	iDrive knob rotary Release after Click: 0x02 0x00 0x42
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x02 0x00 0x42

Event	iDrive knob rotary Click left: 0x03 0x01 0x40
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x03 0x01 0x40

Event	iDrive knob rotary Release after click left: 0x03 0x00 0x41
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x03 0x00 0x41

Event	iDrive knob rotary Click right: 0x04 0x01 0x3f
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x04 0x01 0x3f

Event	iDrive knob rotary Release after Click right: 0x04 0x00 0x40
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x04 0x00 0x40

Event	iDrive knob rotary Pressed: 0x05 0x01 0x3e
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x05 0x01 0x3e

Event	iDrive knob rotary Released after Pressed: 0x05 0x00 0x3f
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x05 0x00 0x3f

Event	iDrive knob rotary Turn right: 0x06 0x01 0x3d
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x06 0x01 0x3d

Event	iDrive knob rotary Turn left: 0x07 0x01 0x3c
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x07 0x01 0x3c

iDrive buttons :

Event	iDrive Menu button Pressed: 0x08 0x01 0x3b
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x08 0x01 0x3b

Event	iDrive Menu button Released after Pressed: 0x08 0x00 0x3c
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x08 0x00 0x3c

Event	iDrive Telephone long press button Pressed: 0x0b 0x01 0x38
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x0b 0x01 0x38

Event	iDrive Telephone long press button Released after Pressed: 0x0b 0x00 0x39
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x0b 0x00 0x39

Event	iDrive Back button Pressed: 0x0c 0x01 0x37
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x0c 0x01 0x37

Event	iDrive Back button Released after Pressed: 0x0c 0x00 0x38
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x0c 0x00 0x38

Event	iDrive Options button Pressed: 0x0d 0x01 0x36
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x0d 0x01 0x36

Event	iDrive Options button Released after Pressed: 0x0d 0x00 0x37
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x0d 0x00 0x37

Event	iDrive Navigation button Pressed: 0x0e 0x01 0x35
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x0e 0x01 0x35

Event	iDrive Navigation button Released after Pressed: 0x0e 0x00 0x36
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x17 0x0e 0x00 0x36
Event	OEM 2 ARM Screen: Touch Screen, iDrive button switched: Home longPress, Navigation
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x02 0x1a 0x01 0x41
Event	ARM to OEM Screen: iDrive buttons switched: media, radio, home long press, phone.
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x02 0x1a 0x02 0x40

Car Status:

Event	Parking Brake Released
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x10 0x00 0x00 0x4b
Event	Parking Brake ON
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x10 0x08 0x00 0x43
Event	Radar view on
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0x11 0x02 0x03 0x01 0xe8
Event	Radar view off
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0x11 0x02 0x03 0x00 0xe9
Event	All doors closed
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x12 0x08 0x00 0x41
Event	Front Left door opened
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x12 0x18 0x00 0x31
Event	Front Right door opened
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x12 0x28 0x00 0x21
Event	Front Right & Left doors opened
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x12 0x38 0x00 0x11
Event	Trunk opened
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x12 0x0c 0x00 0x3d
Event	Trunk & Front Left door opened
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x12 0x1c 0x00 0x2d
Event	Trunk & Front Right door opened
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x12 0x2c 0x00 0x1d
Event	Trunk & Front Left & Right door opened
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x12 0x3c 0x00 0x0d
Event	Belt on for Front driver AND passenger
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x10 0x08 0x01 0x42
Event	Belt off for Front driver OR Front passenger
Logcat Filter	onCmdKSWDataType0x00Event: bydata = 0xf2 0x00 0xa1 0x03 0x10 0x08 0x00 0x43

Event	Screen Brightness value change detected: last byte = brightness value change. Example for 0x64 = 100
Logcat Filter	KSW sendKSW_0x00_0x6C = 0xf2 0x00 0x6c 0x01 0x64

Event	External Temperature (example for 23.0°C)
Logcat Filter	--->>> 正温度 = 230

Actions:

Carplay Carlinkit Autokit:

Action	Carplay Home
Shell	adb shell am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 9

Action	Carplay Music Play
Shell	adb shell am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 10

Action	Carplay Music Pause
Shell	adb shell am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 11

Action	Carplay Play or Pause
Shell	adb shell am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 12

Action	Next Song
Shell	adb shell am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 13

Action	Prev Song
Shell	adb shell am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 14

Action	Launch Maps
Shell	am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 30

Action	Launch Phone
Shell	am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 31

Action	Launch Music
Shell	am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT --ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 32

Android Head Unit:

Action	Start Black Screen
Shell	echo -e "\xf2\x00\x6a\x02\x0d\x00\x86" > /dev/ttyS3