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reliable when it comes to keeping devices up to date with the latest patches. RELATED: What Are Android Security Updates, and Why Are They enough on their own? They are for the vast majority of people. There's no reason to download an antivirus app on your Android phone. The same basic rules for using any devices: Get your apps from the official source, the Google Play Store. Don't go to shady-looking websites. Don't click suspicious links in emails. Along with Play Protect, this is more than enough protection. On the other hand, you may device safely apply to Android devices: Get your apps from the official source, the Google Play Store. Don't go to shady-looking websites. need to download an antivirus app if you use Android devices without the Play Store, sideload APKs from untrustworthy sources, or have an old, outdated version of Android. If that sounds like you, an app such as Bitdefender or Norton 360 may be useful. The moral of the story is you don't need an antivirus app on your Android phone if you use it responsibly. If your device has the Play Store, you're in good shape. RELATED: How Antivirus Software Works Local Testing for your development or staging environment, pick a BrowserStack product you test with: Did this page help you? Testing your car app ensures that users don't encounter unexpected results or a poor experience. How you test your app for Android Auto. Test your app for Android Auto. Test your app for Android Automotive OS. Important: In addition to testing your app to Google Play for review. Test your app for Android Auto The Desktop Head Unit (DHU) enables your development machine to emulate an Android Auto head unit, so that you can run and test Android Auto apps. The DHU runs on Windows, macOS, and Linux systems. This section teaches you how to installed the DHU, you can test your Android Auto apps by connecting your mobile device to it via one of the supported connection mechanisms described in Run the DHU. Note: If you are testing on a mobile device running Android 10 (API level 29) or above, you need to sign in to the Google Play Store and update the Android Auto app before running the DHU for the first time. If you are building a media app, you can also test your media session implementation using the Media Controller Test app. To report bugs or request features related to the DHU, use this issue tracker. Install the DHU is 2.0. This version includes features that are not available in the previous version (1.1) and is the recommended version to install and use. If you are experiencing issues with version 2.0, you can install version 1.1 instead. Install DHU version 2.0 Follow these steps to install DHU 2.0 on your development machine: Enable development machine: Enable development machine: Enable development machine: Enable development machine on a mobile device. Install DHU 2.0 on your development machine: Enable development machine Android Auto on the device. If Android Studio, you can ignore the update to a newer version. Open Android Studio, you can ignore the update. Open the SDK Manager and navigate to the SDK tools tab, then download version 2.0 of the Android Auto Desktop Head Unit Emulator package. The DHU is installed in the SDK LOCATION/extras/google/auto/ directory. After the download has finished, you can switch Android Studio back to the Stable channel if you don't want to use the Beta channel version of other tools. On Linux or macOS systems, run the following command to ensure the DHU binary is executable: chmod +x./desktop-head-unit Note: DHU 2.0 includes a libusb library, which is downloaded to the same location as the DHU executable for it to run properly. Additional steps for Linux only If you are running version 2.0 on a Linux system, you need to install some additional libraries. The DHU binary depends on GLIBC version 2.32 or above. You can check the GLIBC version is lower than 2.32, you must either update GLIBC to 2.32 or above. You can check the GLIBC version of your system by running this compatible with GLIBC 2.32 or above. Note: Version 2.32 is not currently available on the Debian stable release yet. If this applies to you, please reach out to us. You must also install the libc++1 and libc++abi1 libraries. The installation procedure varies depending on your Linux distribution. For example, on Debian-derived Linux distributions, you can install the libraries with this command: sudo apt-get install libc++1 libc++abi1 Install DHU version 1.1 If you are encountering issues with version 2.0, follow these steps to install DHU 1.1 on your developer mode on a mobile developer mode on a mobile device running Android 6.0 (API level 23) or higher, as described in Enabling on-device developer options. Compile and install your app on the device. Install Android Auto on the device. If Android Auto is already installed, make sure that you are using the SDK Manager and navigate to the SDK tools tab, then download version 1.1 of the Android Auto Desktop Head Unit Emulator package. The DHU is installed in the SDK_LOCATION/extras/google/auto/ directory. After the download has finished, you can switch Android Studio back to another update channel if you don't want to use the DHU binary is executable: chmod +x ./desktop-head-unit Additional steps for Linux only If you are running version 1.1 on a Linux distributions. For example, on Debian-derived Linux distributions, sole additional libraries. The installation procedure varies depending on your Linux distribution. For example, on Debian-derived Linux distributions, sole additional libraries. you can install the libraries with this command: sudo apt-get install libsdl2-2.0-0 libsdl2-ttf-2.0-0 libportaudio2 libpng12-0 Run the DHU After you install the DHU, you can test your mobile device to a development machine using either the Accessory Mode (recommended for DHU 2.0), or ADB Tunneling. Connecting using Accessory Mode (DHU 2.0 only) Android Auto supports connecting to the DHU with the Android Open Accessory Mode (DHU 2.0 only) Android Auto supports connecting to the DHU with the Android Open Accessory Mode (DHU 2.0 only) Android Auto supports connecting to the DHU with the Android Open Accessory Mode (DHU 2.0), or ADB Tunneling. to connect to the first compatible one. To target a specific device, include the device ID as part of the --usb command, as follows: ./desktop-head-unit --usb=[DEVICE_ID] Note: On Windows, this feature may require installation of the WinUSB driver against your mobile device, and may interfere with the ADB connection. If the DHU fails to discover and connect to the mobile device, try running adb kill-server before starting the DHU, or use the alternative connection method below if needed. Connection to the Android Auto head unit server over Android Debug Bridge (ADB). Follow these steps to set up tunneling and run the DHU: Do one of the following to open the Android Auto settings, depending on the version of Android Auto > Advanced > Additional settings in the app. Android 9 or lower: In the Android Auto app, tap the Menu, then tap Settings. Scroll to the About section near the bottom and tap Version to display all of the version and permission information. Tap the Version and permission info section 10 times. The Allow development settings dialog appears. Tap OK. Developer mode is now enabled and you can access developer options in the overflow menu. You only need to enable developer mode the first time you run the Android Auto app. If the head unit server is not already running, tap the three dots in the top right of the screen to open the overflow menu and select Start head unit server is running (see figure 1). On the device, a foreground service appears in the notification area that indicates that the server is running (see figure 2). Figure 1 Context menu with developer options. Figure 2. Notification that the head unit server is running. In the Android Auto app, tap Previously connected cars near the top of the Settings, and ensure Add new cars to Android Auto is enabled. unlocked; otherwise it cannot launch the DHU. On the development machine, run the following adb command to forward socket connections from the Android device. This configuration enables the DHU to connect to the head unit server running on your phone over a TCP socket. adb forward tcp:5277 tcp:5277 start the DHU by running the command desktop-head-unit.exe (on Windows) or ./desktop-head-unit # macOS or Linux If this is the first time you are connecting the mobile device to the DHU, check the mobile device's screen to accept the terms of service and adjust permission settings as needed. After the DHU has started, you can use DHU console commands to run and test your app. Command line options By default, the head unit server connects over port 5277. To override the host or port (for example, to forward over SSH), use the --adb=flag, as in the following example: ./desktop-head-unit --adb=5999 By default, the DHU emulates a Android Auto-compatible head units that use a rotary controller for input, you can use the -i controller flag, as in this example: ./desktop-head-unit -i controller mode, you can use keyboard shortcuts to simulate controller mode, you can use keyboard shortcuts to simulated rotary. controller operations. The full set of command line options that the DHU supports vary depending on whether you are using version 2.0 or 1.1. Vers rotary, or hybrid. -a, --adb=HOSTPORT Use ADB transport (optional host:port or port). Defaults to port 5277. -a, --usb=DEVICE_ID Use USB (AOA) transport (optional DEVICE_ID. v, --version Show version information. l, --licenses Show open source licenses. h, --headless Run in headless Ru Option Description i, --input=INPUT Use specified input mode, one of: touch or rotary. -a, --adb=HOSTPORT Use ADB transport (optional host:port or port). Defaults to port 5277. v, --version Show version information. l, --licenses Show open source licenses. h, --headless mode (no UI). DHU User Guide (2.0) This section describes the features supported by version 2.0 of the DHU and how to use them. Note: DHU 2.0 is still in the beta channel, and there might be instability. Please report bugs on the issue tracker if you encounter issues. Commands are entered in the terminal window where you started DHU. Multiple commands can be run on the same line by separating them with a ;. System Command Key Description help [command] Shows full command name is specified (for example, help day), shows help for that command. quit exit Alt+Q Quits the head unit (./desktophead-unit < script.txt), for example in a CI environment. screenshot to filename.png Saves a screenshot to filename.png. licenses Of libraries used in DHU keycode section. Touch and Touchpad is enabled, clicking in either the display window (for touch) or touchpad window (for touchpad) will be registered as touch events. For touch, you can simulate multi-touch by right clicking on the first finger location, then click-and-hold the right button for the second finger. The centerpoint of the two fingers remains fixed and moving the mouse will allow you to either rotate them around the center or pinch in-and-out (or both). For touchpad, click-and-hold the left button to scroll between different UI elements on the screen. Clicking the right button will select the element that currently has focus. Command Key Description tap x y Simulate a touch event at the specified coordinates Rotary Controller The DHU has rotary controller support. When it is enabled, the following actions are supported: Up, down, left, and right on the Dpad Rotating clockwise and counterclockwise Performing a rotation flick (5 steps at once) Clicking down on the controller The commands, and the middle mouse button click (usually the scroll wheel) will send dpad click commands. Note that most cars have touch screens. Some cars have rotary controller-only, and some have a hybrid touch and controller. Cars can also support a touchpad which can be used for map panning and text entry. Bear these different configurations in mind when simulating different vehicle head units. Command Key Description dpad {up|down|left|right} Arrow keys Movement of the rotary controller. dpad soft {left|right} Shift + Arrow keys Side buttons available on some rotary controllers. dpad click Return Pressing the rotary controller. dpad back Backspace Back button available below some rotary controllers. dpad rotate left 1 Rotary controller right (clockwise) movement. dpad flick left Shift+1 Fast counter-clockwise) movement. dpad flick left Shift+2 Fast clockwise) movement. 0-9*#+ Num pad Microphone The DHU supports using a microphone for voice input or playing a pre-recorded voice track. For your convenience, we have provided the following sound files for common voice commands. These sound files are installed in the SDK LOCATION/extras/google/auto/voice/ directory. File name Text navhome.wav Navigate to home. navwork.wav Navigate to Sydney Opera House. navgoogle.wav Navigate to Sydney Opera House. navgoogle.wav Navigate to 1600 Amphitheatre Parkway, California, USA. exitnav.wav Exit navigation. howlong.wav How long until I get there? showtraffic.wav Show traffic. showalternateroute.wav Show alternateroute.wav Show alternateroute.wav Show traffic.wav Show traffic. showalternateroute.wav Show alternateroute.wav Show is my next turn? To run an individual .wav file in the DHU prompt: mic play /path/to/filename.wav Command Key Description mic begin M Activates the microphone. mic play filename.wav Activates the microphone and plays the specified WAV file recording. Note: You will not hear the WAV file being played, but you will hear the response from Android Auto. mic repeats the last recording used with mic play. mic reject {on|off} Enables or disables rejection of microphone requests. When on, all microphone requests will be rejected. Sensors The DHU supports simulating changes in the estimation of microphone requests. vehicle's sensor data with the following commands. To mock sensor data and send them to Android Auto, the corresponding sensors have to be enabled with the configuration .ini file when starting the DHU. Command Description fuel [percentage] Set the fuel level to the specified percent, or do not pass in a value to disable fuel level. range [km] Set the range to the specified kilometers, or do not pass in a value to disable range data. lowfuel [{on|off}] Set the low fuel warning sensor, or do not pass in a value to disable the sensor. accel [x] [y] [z] Set the accelerometer to the specified x, y, and z values (m/s^2), or do not pass in parameters to unset the accelerometer data. Pass in NAN to skip optional parameters if needed. compass bearing [pitch] [roll] Set the compass to the specified bearing, pitch, and roll values (degrees). Pass in NAN to skip optional parameters if needed. gyro [x] [y] [z] Set the gyroscope to the specified x, y, and z rotation speed (rad/s), or do not pass in parameters to unset the gyroscope data. Pass in NAN to skip optional parameters if needed. location lat long [accuracy] [altitude] [speed] [bearing] Set the location to the specified lat and long values along with the optional parameters if needed. odometer km [current_trip_km] Set the odometer to the specified lat and long values along with the optional parameters if needed. kilometers along with an optional current trip km value. speed [speed] Set the vehicle speed to the specified value (m/s), or do not pass in a value to disable the sensor. tollcard {insert|remove} Indicates whether a toll card was inserted or removed. Day/Night Mode The DHU supports simulating changing between day and night mode with the following commands and key bindings. Command Key Description day Shift+N Activate day mode (high-brightness, full color). night Ctrl+N Activate night mode (low-brightness, full color). night Ctrl+N Activate night mode (low-brightness, full color). unit with the following commands. Command Description focus video focus on the head unit. Turning off video focus on the head unit. audio focus simulates the head unit playing its own audio source. focus nav {on|off|toggle} Enables or disables whether Android Auto has navigation focus simulates the head unit running its own audio source. vehicle is moving, such as disabling the keyboard and disallowing phone configurations. Command Key Description restrict all Shift+U Enables all restrictions (for example, to simulate driving). Instrument Cluster The DHU supports emulating an instrument cluster (usually located behind the steering wheel) which shows basic info during navigation about the next turn (such as the next road name, distance/time, or a turn arrow) and information file, or by the navcluster or phonecluster entry in the configuration file, or by the navcluster entry in the navcluster entry in the navcluster entry in the navcluster entry in th additional information display to show media playback status, for example, what track is playing. This can be enabled using the playbackstatus entry in the configuration file. Keycodes that simulates the set of default keycodes that simulates the set of shortcut buttons that are commonly available in different vehicles. For example, the home keycodes that simulates the set of shortcut buttons that are commonly available in different vehicles. For example, the home keycodes that simulates the set of shortcut buttons that are commonly available in different vehicles. can be triggered in the DHU prompt as follows: keycode home Keycode Description home Go to the home screen. back Go back. call endcall Make or end a call. search Trigger search. media_play media app. navigation Go to the default navigation app. tel Go to the default telephone app. Configuration file is ~/.android/headunit.ini file to change the input modes available (touch, controller), the frame rate, resolution and DPI the head unit requests from the phone. The default location for the configuration file is ~/.android/headunit.ini If you wish to change the configuration of the head unit on your system, you can modify this file. You can also specify a configuration file to load using the -c flag. ./desktop-head-unit -c /path/to/config.ini Sample configuration file to load using the -c flag. ./desktop-head-unit -c /path/to/config.ini Sample configuration file to load using the -c flag. = 30 fueltypes = unleaded, electric, hydrogen evconnectors = supercharger Sample configuration files can be found under the SDK_LOCATION/extras/google/auto/config/ folder to demonstrate different head unit settings you can test against. For more advanced use cases, please refer to the supported settings below. Input Configuration Name Default Type Description inputmode default String Defines the input mode. The options touch, rotary, hybrid enable touchscreen and rotary support and set default defers to the touch and controller options below. touch true Boolean Enables touchpad is a select event. touchpad to be used for UI navigation. touchpad asselect false Boolean When touchpad asselect false Boolean When true, a tap on the touchpad is a select event. touchpad is a select event. is true, this sets whether the touches should be treated as absolute or as gestures. Video Configuration Android Auto supports three video resolutions: 480p (800x480 -- default) 720p (1280x720) 1080p (1920x1080) To support different aspect ratios other than the ones above, the head unit is able to specify a margin to letterbox/pillarbox as necessary For example, if you wanted a 1000x600 screen, you would set the resolution to 720p (1280x720) and a marginwidth of 280 and marginheight of 120. This has the effect of adding a 140px margin on both the left and right edges, and 60px top and bottom. Example configuration to emulate a typical 6 inch screen (750x450): [general] ... resolution = (750x450): [general] ... resolution to 20p (1280x720) and a marginwidth of 280 and marginheight of 120. This has the effect of adding a 140px margin on both the left and right edges, and 60px top and bottom. 800x480 marginwidth = 50 marginheight = 30 And a very-wide screen: [general] ... resolution = 1280x720 marginheight = 220 Name Default Type Description resolution = 1280x720, 1920x1080. dpi 160 Integer normalizedpi false Boolean When true, reduces DHU window size to account for larger DPI values. When false, larger DPI values result in larger windows (which does not mimic real displays, but does allow easier inspecting of visual content). realdpi 160 Integer Used in video configuration. marginwidth 0 Integer Used in video configuration. configuration. margins 0,0,0,0 String Used in video configuration, overrides marginwidth and marginheight if present. Format is top, bottom, left, right. stablecontentinsets 0,0,0,0 String Used in video configuration. Format is top, bottom, left, right. is top, bottom, left, right. cropmargins false Boolean If margins, marginheight, or marginwidth is specified, a true value for this setting removes those margins from the displayed video. This reflects more closely what the end user sees. pixelaspectratio 1.0 Float Used in video configuration. Sensors Configuration To mock sensor data and send them to Android Auto, the corresponding sensors have to be enabled using the options below. If a sensor using the DHU commands is ignored. Name Default Type Description accelerometer false Boolean Enable compass false Boolean Enable compass false Boolean Enable compass false Boolean Enable accelerometer false Boolean Enable accelerometer false Boolean Enable accelerometer false Boolean Enable compass false Boolean Enable accelerometer false Boolean Enable driving status sensor data. fuel false Boolean Enable fuel sensor data. approscope false Boolean Enable gyroscope false Boolean Enable speed false Boolean Enable odometer sensor data. speed false Boolean Enable speed sensor data. toll_card false Boolean Enable instrument cluster. Adds a window to the UI to display navigation and phone status. navcluster false Boolean Enable instrument cluster. Adds a window to the UI to display navigation status. phonecluster false Boolean Enable instrument cluster. Adds a window to the UI to display phone status false Boolean Enable playback status messages. driverposition left String One of: left, center, or right. windowleft Integer Set the left position of the main window. windowtop Integer Set the top position of the main window. fueltypes unleaded Strings One or more of (separated by .): unleaded leaded diesel-1 diesel-2 biodiesel e85 lpg cng lng hydrogen electric other unknown evconnectors Strings Zero or more of (separated by .): Should only be set if fueltypes contains electric. DHU User Guide (1.1) DHU commands allow you to test your app with Android Auto features, such as playing voice input or switching between night and day display mode. You can also issue commands by selecting the DHU window and using keyboard shortcuts. The DHU commands and key bindings for all controls are listed in DHU commands and key bindings for all controls are listed in DHU commands and key bindings. day mode in either of the following ways: Run the command daynight in the terminal where you launched the DHU supports using a microphone for voice input. You can also instruct the DHU had heard the track as input, as if the DHU had heard the track as input. through the microphone. To use a prerecorded sound file as input, enter this command: mic play /.wav For your convenience, we have provided the following sound files are installed in the /extras/google/auto/voice/ directory. File name Text navhome.wav Navigate to home. navwork.wav Navigate to work, navsoh.wav Navigate to Sydney Opera House, navgoogle.wav Navigate to 1600 Amphitheatre Parkway, California, USA, exitnav.wav Exit navigation, howlong.wav How long until I get there? showtraffic.wav Show traffic. showalternateroute.wav Show traffic. showalternateroute.wav Show alternateroute.wav Show alternateroute.wav Show traffic. showalternateroute.wav Show alternateroute.wav Show traffic. showalternateroute.wav Show traffic. showalternateroute.wav Show traffic. showalternateroute.wav Show alternateroute.wav Show traffic. showalternateroute.wav Show alternateroute.wav Show alternateroute.wav Show traffic. showalternateroute.wav Show alternateroute.wav Show alternate and key bindings The DHU supports the following commands. Table 1. Commands and key bindings Category Command Subcommand set. Specifying a command name (for example, help day) causes the system to show help for that command. guit Alt+g Quits the head unit. sleep [seconds] Sleeps for one second. Specifying an argument (for example, sleep 30) causes the system to sleep the specified number of seconds. This command line: ./desktop-head-unit < script.txt loads commands from the file script.txt.) screenshot filename.png. Microphone mic begin m Activates the microphone mic begin m Activates the microphone button on the steering wheel) and waits for input from the computer microphone. play filename.wav Causes the DHU to treat filename.wav as voice input, as if that sound were relayed through the microphone. You do not hear the sound file being played, but you do hear the response from Android Auto. repeats the last mic play again with the same sound file being played, but you do hear the response from Android Auto. Shift+Arrow keys Simulates pressing the side buttons available on some rotary controllers. click Return Simulates pressing the rotary controllers. rotate left rotate right 1 2 Simulates pressing the rotary controllers. click Return Simulates pressing the rotary controllers. flick left flick right Shift+1 Shift+2 Simulates a fast spin of the rotary controller to the left (counter-clockwise) or right (clockwise). tap x y Simulates a touch event at the specified coordinates. For example, tap 50 100 Day/Night day Shift+N Activates high contrast). daynight n Toggles current day/night mode. Troubleshooting DHU showing a blank screen when first connected This is a known issue we are working on. You can work around this by doing the following: Close the DHU. Follow Step 5 described in Run the DHU to stop and restart the Head Unit Server. Start the DHU again. There may be additional permission granting steps on the phone screen. Complete those steps and the DHU might shut down once more. Restart the DHU. Test your app for Android Automotive OS you can use the Android Emulator to test how your driver-optimized app runs on an Android Automotive OS vehicle display. Android Virtual Device (AVD) to test your app. Note: If you are building a media apps, you can also test your media apps on Automotive OS apps are different than other Android apps. Android Automotive OS interacts with your media app using explicit intents and by sending calls to your media browser service. In order to test your app, verify that your app, verify that your app, verify that your app, verify that your app. list of modules in your app. Under Launch Options > Launch, select Nothing. Click Apply, and then click OK. Add system images for these devices through the Android Studio SDK Manager. Then, when you're creating an AVD, you can download these system images to use with the AVD. Note: The emulator system image for Automotive should be considered as beta, since the emulator doesn't support Bluetooth and the system image for the Polestar 2 & Volvo. Follow these steps to add a system image: In Android Studio, select Tools > SDK Manager. Click the SDK Update Sites tab. Click Add . Enter the following Name and URL: Name: Volvo System Image URL: Name: Volvo System Image URL: Click Apply, then click OK. Install generic system images Android Studio also includes a generic system image for Android Automotive OS that you can also use to test your app's integration. Follow these steps to install the generic system image: In Android Studio, select Tools > SDK Manager. Click the SDK Platforms tab. Click Show Package Details. Under Android 9.0 (Pie), select Automotive Intel x86 Atom System Image. Click Apply, then click OK. Create a car AVD and run the emulator Follow these steps to create an Android Virtual Device (AVD) that represents an Android Automotive OS vehicle and then use that AVD to run the emulator: In Android Studio, select Tools > AVD Manager. Click Create Virtual Device. From the Select Hardware dialog, select Automotive, and then select a device and click Next. Select a system image that targets Automotive, such as Android 9.0 (Automotive, and then click Finish. From tool window bar, select your Android Automotive OS AVD as your deployment target. Click Run. Note: System images from Google and OEMs contain Google Play Store. Use these apps to test your app's behavior, Google Assistant, and the Google Play Store. Use these apps to test your app for phone screens Follow the steps below to sideload your app onto a phone and test. Step 1. In the Android Auto app, enable Developer mode and unknown sources Installed, make sure that you are using the latest version. In the Android Auto app, tap the Hamburger menu, then tap Settings. Scroll to the About section near the bottom and tap Version information. Tap the version and permission information. Tap the version and permission information. Tap the version and permission information. Developer Settings. Tap Application Mode and select Developer. The app returns to the list of developer settings. Scroll down until you see Unknown sources and tap the checkbox. Restart Android Auto. Step 2. On your phone, enable USB debugging In Settings > About phone, tap Build number seven times to enable the Developer Options. Go back to Settings > Developer Options, enable USB debugging. Step 3. Install your app onto the phone and test Connect the phone to your machine through USB, so you can install apps directly to it as you develop. Use the adb devices command to ensure that your develop. set up and connected via USB, navigate to your SDK's platform-tools/ directory and install the .apk on the device by running the following command: adb -d install path/to/your/app.apk You can now test your app and verify that everything works. Additional testing requirements for media apps If you are testing a media app, then you should also test for the scenarios that are covered in this section (in additional restrictions on how they can interact with apps while driving. For this reason, Android Automotive OS, or both). To help keep drivers and passengers safe, users have additional restrictions on how they can interact with apps while driving. startup scenarios that your app must be able to handle so that users can continue to enjoy your content while they're on the road. Test your app to make sure it can handle each of the following scenarios: The MediaBrowserService is run before any Activity is opened. The MediaBrowserService is run when no Activity can be shown. The MediaBrowserService is run when the user is not signed in. While testing for these sceanrios, be sure to try the following methods: Force stop the media app data, then launch Android Automotive OS. Also make sure to set an appropriate error message when necessary. The Media Controller Test app allows you to test the intricacies of media playback on Android and helps verify your media session implementation. To get started with this tool, see Using the media controller test app.

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