Interop Web Application for Chromebook and MacBook

Revision 1.1 – March 2018
<table>
<thead>
<tr>
<th>Revision</th>
<th>Author</th>
<th>Section</th>
<th>Change</th>
<th>Date of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Jacob Anderson</td>
<td>1-2</td>
<td>First draft</td>
<td>7/1/2016</td>
</tr>
<tr>
<td>1.1</td>
<td>Jesse Nielsen</td>
<td>1-2</td>
<td>Second draft</td>
<td>3/8/2018</td>
</tr>
</tbody>
</table>
# Table of Contents

Summary of Changes ............................................................................................................. 2  
Description............................................................................................................................. 4  
Definition ............................................................................................................................... 4  
Features ................................................................................................................................ 4  
  Webcam Controls ................................................................................................................. 4  
  Microphone ......................................................................................................................... 4  
  Music ................................................................................................................................... 4  
  Text Box ............................................................................................................................ 4  
  Video ................................................................................................................................... 4  
Example Application ............................................................................................................. 5  
Installation Procedure ......................................................................................................... 6  

Description

Definition
The Interop Web Application is a web-based tool used to test USB peripheral products on Chromebook and MacBook systems. It replaces the Interop Utility used for Windows based systems. The current version is “1.2 Alpha.”

Features

Webcam Controls
Two boxes are present for webcam controls and testing. Dropdown menus can be used to select a webcam, resolution, and frame rate. A “Stop” button is present to stop the webcam if pressed, and a checkbox can be used to auto hide the control pane.

To refresh/restart the webcam, click in the video area.

Microphone Test Module
All microphones accessible by Chrome will be displayed in individual bars when the app is loaded. If a microphone is connected after the page has loaded, click the microphone area to refresh and add it.

Within each bar, the small red mark indicates the maximum audio input level since the last refresh. The light green bar indicates the current audio input level. The dark green bar indicates an echo of the light green bar.

Music Player
Play, pause, or download the SleepAway.mp3 track included in the Interop Web Application. Two sliders are present, one to adjust volume and the other to monitor and change the progress of the track.

Text Box
Space available to test keyboard products. Box can be resized by clicking and dragging the bottom right corner.

Video Player
Click on the video feature to open a pop-up video play. Controls to play or pause the video, adjust sound, enable full-screen mode, and download the video are present.
Installation Procedure

1) Install the Chrome web browser.

2) Open Chrome and navigate to the Chrome Web Store by entering the following address into the address bar, https://chrome.google.com/webstore/category/extensions, or by searching for “Chrome Web Store.”

3) In the web store search bar, type “Web Server for Chrome” and add the extension. If the extension can’t be found in the Chrome Web Store, go to https://www.chromebeat.com/app/web-server-for-chrome/ofhbbkphhhklihoeikjpcbhemlocgigh. Click on the “available in the chrome web store” button.

4) Launch the Web Server for Chrome extension by clicking on the “LAUNCH APP” button. The app is also accessible via the “Apps” page. (To navigate to the “Apps” page, in the address bar, type chrome://apps, and press Enter. Click on the “Web Server” app.)

5) In the Web Server app, click on the “CHOOSE FOLDER” button. Navigate to the HTML folder within the Interop Web App and click OPEN.

Note: This step will need to be repeated if the Interop Web App files are moved.
6) (Optional) Check the “Run in background” and “Start on login” checkboxes to allow the web server to continually run in the background and start up automatically. Alternatively, the Web Server app will need to be manually opened and configured prior to using the Interop Web App each time.

7) Check the “Automatically show index.html” checkbox to automatically load the Interop Web App’s html file. Alternatively, select index.html from the directory.

8) Open the Interop Web App by navigating to http://127.0.0.1:8887. You can click on this link or the link displayed in the Web Server app. An example application is shown below. Note that the application display varies slightly depending upon the devices connected.