Configurations, Troubleshooting, and Advanced Secure Browser Installation Guide for Chrome OS
For Technology Coordinators
2020-2021
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How to Configure Chrome OS Workstations for Online Testing

This section contains additional configurations for Chrome OS.

How to Manage Chrome OS Auto-Updates

This section describes how to manage Chrome OS auto-updates. CAI recommends disabling Chrome OS auto-updates or limiting updates to a specific version used successfully before summative testing begins.

1. Display the Device Settings page by following the procedure in Manage device settings, https://support.google.com/chrome/a/answer/1375678. The steps in that procedure assume that your Chromebooks are managed through the admin console.

2. From the Auto Update list, select Stop auto-updates.

3. Select Save.

How to Limit Chrome OS Updates to a Specific Version

This section describes how to limit Chrome OS updates to a specific version.

1. Display the Device Settings page by following the procedure in Manage device settings, https://support.google.com/chrome/a/answer/1375678. The steps in that procedure assume that your Chromebooks are managed through the admin console.

2. From the Auto Update list, select Allow auto-updates.

3. From the Restrict Google Chrome version to at most list, select the required version.

4. Select Save.
How to Install the Secure Browser for Chrome OS Using Advanced Methods

This section contains additional installation instructions for installing the Secure Browser for Chrome OS.

**Note:** Chromebooks manufactured in 2017 or later must have an Enterprise or Education license to run in kiosk mode, which is necessary to run the Secure Browser.

**How to Install SecureTestBrowser (formerly AIRSecureTest) as a Kiosk App on Managed Chromebooks**

These instructions are for installing the SecureTestBrowser (formerly AIRSecureTest) Secure Browser as a kiosk app on domain-managed Chromebook devices. The steps in this procedure assume that your Chromebooks are already managed through the admin console.

SecureTestBrowser (formerly AIRSecureTest) is not compatible with public sessions.

1. As the Chromebook administrator, log in to your admin console (https://admin.google.com)

   ![Google Admin Console](https://example.com/google_admin_console.png)

   **Figure 1. Google Admin Console**

2. Select **Devices**. The **Devices** page appears.

   ![Devices Page](https://example.com/devices_page.png)

   **Figure 2. Devices Page**
3. Select **Chrome**. The **Chrome** drop-down list appears.

   ![Figure 3. Chrome Drop-down List](image)

4. From the **Chrome** drop-down list, select **Apps & extensions**. The **Apps & extensions** drop-down list appears.

   ![Figure 4. Apps & extensions Drop-down List](image)

5. From the **Apps & extensions** drop-down list, select **Kiosks**. The **Apps & Extensions** page appears, displaying the **Kiosks** tab.
6. Remove any previous versions of the apps that appear by selecting the app name to display the app settings and then selecting the trash can icon. These may appear as SecureTestBrowser or AIRSecureTest.

7. Close app settings.
8. Hover over + to display options to add a new app.

9. Select + to add a Chrome app or extension by ID. The Add Chrome app or extension by ID window appears.

10. Enter hblfbmjdalaalhifaajnmodlkiloengc in the Extension ID field.

11. Ensure From the Chrome Web Store is selected from the drop-down list.

   Figure 7. Add Chrome app or extension by ID

12. Select Save. The SecureTestBrowser (formerly AIRSecureTest) app appears in the app list.

13. Ensure Installed is selected from the Installation Policy drop-down list.

   The SecureTestBrowser (formerly AIRSecureTest) app will be installed on all managed devices the next time each managed device is turned on.
How to Configure Networks for Online Testing

This section contains additional configurations for your network.

Resources to Add to your Allowlist for Online Testing

This section presents information about the URLs that CAI provides. Ensure your network’s firewalls are open for these URLs. If your testing network includes devices that perform traffic shaping, packet prioritization, or Quality of Service, ensure these URLs have high priority.

URLs for Non-Testing Sites to Add to your Allowlist

Table 1 lists URLs for non-testing sites, such as Test Information Distribution Engine and Online Reporting System.

<table>
<thead>
<tr>
<th>System</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portal and Secure Browser installation files</td>
<td><a href="https://alohahsap.org">https://alohahsap.org</a></td>
</tr>
<tr>
<td>Test Information Distribution Engine</td>
<td><a href="https://www.hitide.org">https://www.hitide.org</a></td>
</tr>
<tr>
<td>Reporting System</td>
<td><a href="https://hi.reporting.cambiumast.com">https://hi.reporting.cambiumast.com</a></td>
</tr>
</tbody>
</table>

URLs for TA and Student Testing Sites to Add to your Allowlist

Testing servers and satellites may be added or modified during the school year to ensure an optimal testing experience. As a result, CAI strongly encourages you to add these URLs to your allowlist at the root level. This requires using a wildcard.

Table 2. CAI and AIR URLs for Testing Sites

<table>
<thead>
<tr>
<th>System</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA and Student Testing Sites Assessment Viewing Application</td>
<td>*.cambiumast.com</td>
</tr>
<tr>
<td>For 2020-2021, users should add both Cambium and AIR URLs listed in this table to their allowlist.</td>
<td>* .tds.cambiumast.com</td>
</tr>
<tr>
<td></td>
<td>*.cloud1.tds.cambiumast.com</td>
</tr>
<tr>
<td></td>
<td>*.cloud2.tds.cambiumast.com</td>
</tr>
<tr>
<td></td>
<td>*.airast.org</td>
</tr>
<tr>
<td></td>
<td>*.tds.airast.org</td>
</tr>
<tr>
<td></td>
<td>*.cloud1.tds.airast.org</td>
</tr>
<tr>
<td></td>
<td>*.cloud2.tds.airast.org</td>
</tr>
</tbody>
</table>
How to Configure Networks for Online Testing

**URLs for Online Dictionary and Thesaurus to Add to your Allowlist**

Some online assessments contain an embedded dictionary and thesaurus provided by Merriam-Webster. The Merriam-Webster URLs listed in Table 3 should be added to your allowlist to ensure that students can use them during testing.

<table>
<thead>
<tr>
<th>Domain Name</th>
<th>IP Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>media.merriam-webster.com</td>
<td>64.124.231.250</td>
</tr>
<tr>
<td><a href="http://www.dictionaryapi.com">www.dictionaryapi.com</a></td>
<td>64.124.231.250</td>
</tr>
</tbody>
</table>

**Required Ports and Protocols for Online Testing**

Table 4 lists the ports and protocols used by the Test Delivery System. Ensure that all content filters, firewalls, and proxy servers are open accordingly.

<table>
<thead>
<tr>
<th>Port/Protocol</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>80/TCP</td>
<td>HTTP (initial connection only)</td>
</tr>
<tr>
<td>443/TCP</td>
<td>HTTPS (secure connection)</td>
</tr>
</tbody>
</table>

**How to Configure Filtering Systems**

If the school’s filtering system has both internal and external filtering, the URLs for the testing sites (see Table 1) must be added to your allowlist in both filters. Ensure your filtering system is not configured to perform packet inspection on traffic to CAI servers. Please see your vendor’s documentation for specific instructions. Also, be sure to add these URLs to your allowlist in any multilayer filtering system (such as local and global layers). Ensure all items that handle traffic to *.tds.cambiumast.com and *.tds.airast.org have the entire certificate chain and are using the latest TLS 1.2 protocol.

**How to Configure for Domain Name Resolution**

Table 1 and Table 2 list the domain names for CAI’s testing and non-testing applications. Ensure the testing machines have access to a server that can resolve those names.
User Support

If this document does not answer your questions, please contact the Hawaii Statewide Assessment Program Help Desk.

The Help Desk will be open Monday–Friday from 7:30 a.m. to 4:00 p.m. Hawaiian Standard Time (except holidays).

Hawaii Statewide Assessment Program Help Desk

Toll-Free Phone Support: 1-866-648-3712

Email Support: hsaphelpdesk@cambiumassessment.com

If you contact the Help Desk, you will be asked to provide as much detail as possible about the issues you encountered. You may choose to use the Help Desk Intake Form, available on the https://alohahsap.org/ portal website in the Resources >> Technology section.

Include the following information:

- Test Administrator name and IT/network contact person and contact information
- SSIDs of affected students
- Results ID for the affected student tests
- Operating system and browser version information
- Any error messages and codes that appeared, if applicable
- Information about your network configuration:
  - Secure Browser installation (to individual machines or network)
  - Wired or wireless Internet network setup
Change Log

This Change Log can be used to identify specific changes that are made to any of the information included in the original document throughout the current school year.

<table>
<thead>
<tr>
<th>Change</th>
<th>Section</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updated mobile secure browser name to “SecureTestBrowser”</td>
<td>How to Install the Secure Browser for Chrome OS Using Advanced Methods</td>
<td>8/3/20</td>
</tr>
</tbody>
</table>