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Configurations, Troubleshooting, and Advanced Secure Browser Installation for Chrome OS

This document contains configurations, troubleshooting, and advanced Secure Browser installation instructions for your network and Chrome OS workstations.

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://vt.portal.cambiumast.com/">https://vt.portal.cambiumast.com/</a></td>
</tr>
<tr>
<td>Test Information Distribution Engine</td>
<td><a href="https://vt.tide.cambiumast.com/">https://vt.tide.cambiumast.com/</a></td>
</tr>
<tr>
<td>Reporting System</td>
<td><a href="https://vt.reporting.cambiumast.com/">https://vt.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</td>
<td>*.cambiumassessment.com</td>
</tr>
<tr>
<td>Assessment Viewing Application</td>
<td>*.tds.cambiumassessment.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>*.cloud1.tds.cambiumassessment.com</td>
</tr>
<tr>
<td></td>
<td>*.cloud2.tds.cambiumassessment.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

Configurations, Troubleshooting, and Advanced Secure Browser Installation for Chrome OS

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 3. CAI URLs for Online Dictionaries and Thesauruses

<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>

Domains for Email Exchange Server and Single Sign-On System

CAI systems send emails for password resets and login codes for the single sign-on system from cambiumast.com and from cambiumassessment.com. Add both domains to your allowlist to ensure you receive these emails.

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 4. Ports and Protocols for Test Delivery System

<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.
How to Install the Secure Browser for Chrome OS using Advanced Methods

This document 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 Secure Test as a Kiosk App on Managed Chromebooks

These instructions are for installing the Secure Test (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.

Secure Test (formerly AIRSecureTest) is not compatible with public sessions.

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

2. Click **Devices**. The **Devices** page appears.

3. Under **Device Settings**, click **Chrome**. The **Chrome** drop-down list appears.

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

5. Click **apps & extensions page**. The **Apps & extensions** page opens, displaying the **Kiosks** tab. If the **Kiosks** tab is not displayed, click **Kiosks** to display it.

6. Remove any Secure Test (formerly AIRSecureTest) apps that appear by clicking the app name to display the app settings and then clicking **X**. These may appear as SecureTestBrowser or AIRSecureTest.

7. Click X to close app settings.

8. Hover over **+** to display options to add a new app.
9. Click ✈️ to add a Chrome app or extension by ID. The **Add Chrome app or extension by ID** window appears.

10. Enter `hblfbmjdaalalhifaaajnnodlkiloengc` in the **Extension ID** field.

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

12. Click **Save**. The Secure Test (formerly AIRSecureTest) app appears in the app list.

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

The Secure Test (formerly AIRSecureTest) app will be installed on all managed devices the next time each managed device is turned on.
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.

How to Disable Auto-Updates for Chrome OS

This section describes how to disable auto-updates for Chrome OS.

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. Click 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. Click Save.