

Configurations, Troubleshooting, and Advanced Secure Browser Installation Guide for Chrome OS For Technology Coordinators

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Table of Contents

Configurations, Troubleshooting, and Advanced Secure Browser Installation for Chrome OS	3
How to Configure Chrome OS Workstations for Online Testing	3
How to Manage Chrome OS Auto-Updates	3
How to Disable Auto-Updates for Chrome OS	3
How to Limit Chrome OS Updates to a Specific Version	3
How to Disable On-Screen Keyboard through Google Admin Console	3
How to Install the Secure Browser for Chrome OS Using Advanced Methods	4
How to Update SecureTestBrowser for a New School Year	4
How to Install SecureTestBrowser as a Kiosk App on Managed Chromebooks	4
How to Remove SecureTestBrowser from Managed Chromebooks	8
How to Configure Networks for Online Testing	9
Resources to Add to your Allowlist for Online Testing	9
URLs for Non-Testing Sites to Add to your Allowlist	9
URLs for TA and Student Testing Sites to Add to your Allowlist	10
URLs for Online Dictionary and Thesaurus to Add to your Allowlist	10
Domains for Email Exchange Server and Single Sign-On System	10
Required Ports and Protocols for Online Testing	11
How to Configure Filtering Systems	11
How to Configure for Domain Name Resolution	11



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 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.

- Display the Device Settings page by following the procedure in *Manage device settings*, <u>https://support.google.com/chrome/a/answer/1375678</u>. The steps in that procedure assume that your Chromebooks are managed through the admin console.
- 2. From the Automatic Updates 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*, <u>https://support.google.com/chrome/a/answer/1375678</u>. The steps in that procedure assume that your Chromebooks are managed through the admin console.
- 2. From the Automatic Updates 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 Disable On-Screen Keyboard through Google Admin Console

This section describes how to disable the on-screen keyboard through the Google Admin Console.

- **1.** Sign in to the Google Admin account.
- 2. On the Admin console home screen, click Devices on the left-hand menu. A list of available options appears.

- 3. Click Chrome in the list of options.
- 4. Under Chrome, click Apps & Extensions. A list of apps that your Admin account manages appears.

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 Update SecureTestBrowser for a New School Year

If an update to SecureTestBrowser is released to the Chrome Web Store, the app will automatically update on all devices to which it is installed. Users do not need to take any action to manually update SecureTestBrowser after it is installed on a device.

How to Install SecureTestBrowser as a Kiosk App on Managed Chromebooks

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

SecureTestBrowser is not compatible with public sessions.

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

≡ Google <u>Admin</u>	Q Search for users, groups or settings		0 0	III 🚯
Home Home Directory	Welcome to your new Admin console homepage! Yo and collapsible display! Learn more	ou'll find easier navigation throughout the Admin console using	the updated left-hand navigation bar with its expandable	<
Devices Hi Apps	å Users ^	Apps Manage web and mobile app access and settings	Devices Manage devices and secure your organization's data	
Security Q Account Rules	Add a user Delete a user Update a user's name or email	Organizational units Organize users into units for applying policies	Security Configure security settings, and view alerts and analytics	
	Create an alternate email address (email allas)	Rules Manage rules to set alerts and actions	Support Connect with the Help Assistant	
	Account settings Manage your organization's profile and preferences			
Send feedback	Buildings and resources Manage and monitor your buildings, rooms, and resources			
© 2021 Google Inc. Terms of service - Billing terms - Privacy Policy				

Figure 1. Google Admin Console



2. Select Devices. The Devices drop-down list opens.

Figure 2. Devices Drop-down List

Home Directory	Welcome to your new Admin console homepage! Yo and collapsible display! Learn more	w'll find easier navigation throughout the Admin console using	the updated left-hand navigation bar with its expandable	
Devices Overview	දි Users ^	Apps Manage web and mobile app access and settings	Devices Manage devices and secure your organization's data	
Mobile & endpoints Networks	Add a user Delete a user Update a user's name or email	organizational units Organize users into units for applying policies	Configure security settings, and view alerts and analytics	
Security Account	Create an alternate email address (email alias)	Rules Manage rules to set alerts and actions	Support Connect with the Help Assistant	
Rules	Account settings Manage your organization's profile and preferences			
Send feedback	Buildings and resources Manage and monitor your buildings, rooms, and resources			

3. From the devices drop-down list, select **Chrome**. The *Chrome* drop-down list appears.

Figure 3. Chrome Drop-down List

≡ Google Admin	Q Search for users, groups or settings	8 8	Ш 🖪
Home	Welcome to your new Admin console homepagel Y and collapsible display! Learn more	ou'll find easier navigation throughout the Admin console using the updated left-hand navigation bar with its expandable	<
Cverview	د لا Users	Apps Manage web and mobile app access and settings Devices Manage devices and secure your organization's data	
Overview Devices	Add a user Delete a user Update a user's name or email	Organizational units Security Organize users into units for applying policies Configure security settings, and view alerts and analytics	
Managed prowsers Settings Apps & extensions	Create an alternate email address (email alias)	Rules Manage rules to set alerts and actions Connect with the Help Assistant	
Printers Reports	Account settings Manage your organization's profile and preferences		
Mobile & endpoints Networks III Apps	Buildings and resources Manage and monitor your buildings, rooms, and resources		



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

≡ Google Admin	Q. Search for users, groups or settings		8 0	ш 🖪
Home Sirectory	Welcome to your new Admin console homepage! Yo and collapsible display! Learn more	u'll find easier navigation throughout the Admin console using	the updated left-hand navigation bar with its expandable	<
Devices Overview	& Users ^	Apps Manage web and mobile app access and settings	LD Devices Manage devices and secure your organization's data	
Overview Devices	Add a user Delete a user Update a user's name or email	Pro Organizational units Organize users into units for applying policies	Security Configure security settings, and view alerts and analytics	
Managed browsers • Settings • Apps & extensions	create an alternate email address (email alias)	Rules Manage rules to set alerts and actions	Support Connect with the Help Assistant	
Users & browsers Kiosks Managed guest	Account settings Manage your organization's profile and preferences			
sessions Printers Reports 	Buildings and resources Manage and monitor your buildings, rooms, and resources			
Mobile & endpoints Metworke				

Figure 4. Apps & extensions Drop-down List

5. From the *Apps & extensions* drop-down list, select **Kiosks**. The *Apps & Extensions* page appears, displaying the *Kiosks* tab.

USERS & BROWSERS		KIOSKS	MANAGED GUEST SESSIONS
+ Search or add a filter			
Арр	Installation policy		
Auto-launch app	None Locally applied 🔝	*	
SecureTestBrowser hblfbmjdaalalhifaajnnodlkiloengc	Installed		

Figure 5. Apps & extensions page - Kiosks tab

6. Hover over $\stackrel{+}{\smile}$ to display options to add a new app.



- 7. Select () to add a Chrome app or extension by ID. The *Add Chrome app or extension by ID* window appears.
- 8. Enter hblfbmjdaalalhifaajnnodlkiloengc in the *Extension ID* field.
- 9. Ensure From the Chrome Web Store is selected from the drop-down list.

Figure 6. Add Chrome app or extension by ID

Add Chrome app or extension by ID		
Chrome apps and extensions can also be added by specifying Chrome Web Store, you must also specify the URL where the e	the ID. If it is out atension is hoste	side the ed.
Extension ID		
hblfbmjdaalalhifaajnnodlkiloengc		
From the Chrome Web Store 💌		
	CANCEL	SAVE

10. Select Save. The SecureTestBrowser app appears in the app list.

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

The SecureTestBrowser app will be installed on all managed devices the next time each managed device is turned on.



How to Remove SecureTestBrowser from Managed Chromebooks

If SecureTestBrowser must be removed from multiple managed Chromebooks for troubleshooting or other reasons, it can be removed using the Google Admin Console.

- 1. To access a list of all kiosk applications installed on your managed Chromebooks, follow steps <u>1-5</u> in the section <u>How to Install SecureTestBrowser as a Kiosk App on Managed Chromebooks</u>.
- 2. To remove SecureTestBrowser from all managed Chromebooks, select its app name from the list. The *Kiosk Settings* pane appears.

SecureTestBrowser	f) ×
Kiosk Settings	
Allow App to Manage Power Inherited from Google default	
Enable Unified Desktop (BETA) Inherited from Google default	
Allow On-screen Keyboard	
Enable Plug-ins Inherited from Google default	
Set Keyboard Top Row as FN Keys Inherited from Google default	

Figure 7. SecureTestBrowser Kiosk Settings

- 3. Select
- 4. To close the *Kiosk Settings* pane, select X.

The SecureTestBrowser app will be removed from 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.

System	URL
Portal and Secure Browser installation files	https://utahrise.org/
Single Sign-On System	https://sso2.cambiumast.com/auth/realms/utah/account
Test Information Distribution Engine	https://ut.tide.cambiumast.com/
Reporting System	https://ut.reports.cambiumast.com/

Table 1. CAI URLs for Non-Testing Sites



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. CAI strongly encourages adding domains (and not IP addresses) and using wildcards when adding these URLs to your allowlist, as servers may be added or removed from the field without notice.

System	URL
TA and Student Testing Sites Assessment Viewing Application	VRL *.cambiumtds.com *.tds.cambiumtds.com *.cloud1.tds.cambiumtds.com *.cloud2.tds.cambiumtds.com *.cdn.cambiumtds.com *.cdn2.cambiumtds.com *.static.cambiumtds.com *.resources.cambiumtds.com *.resources.cambiumtds.com *.cdnbiumast.com *.cloud1.tds.cambiumast.com *.cloud1.tds.cambiumast.com *.cloud2.tds.cambiumast.com

Table 2. CAI URLs for Testing Sites

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
------------------------------	------------------------------

Domain Name	IP Address
media.merriam-webster.com	64.124.231.250
www.dictionaryapi.com	64.124.231.250

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.

|--|

Port/Protocol	Purpose
80/TCP	HTTP (initial connection only)
443/TCP	HTTPS (secure connection)

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 *.cambiumtds.com and *.tds.cambiumast.com 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.

Please note: To return to the page in this manual that you were on before clicking a link, use one of the following keyboard shortcuts: **Alt** + **Left Arrow** (for Windows Operating System [OS] on laptops or tablets when viewing the file in Adobe Reader) or **Command** + **Left Arrow** (for Mac OS X on laptops or tablets when viewing the file in Adobe Reader). Please note that these keyboard shortcuts do not apply to Chromebooks. If the keyboard shortcuts do not work or apply to your device, you can also scroll back to your previous location.