

Configurations and Troubleshooting for Android

For Technology Coordinators

2019-2020

Published August 8, 2019

Prepared by the American Institutes for Research®



Table of Contents

Configurations and Troubleshooting for Android	3
How to Configure Networks for Online Testing	3
Which Resources to Whitelist for Online Testing	3
Which Ports and Protocols are Required for Online Testing	4
How to Configure Filtering Systems.....	4
How to Configure for Domain Name Resolution	4
How to Configure for Certificate Revocations	5
How to Configure Android Workstations for Online Testing	6
How to Enable the Secure Browser Keyboard.....	6
How to Troubleshoot Android Workstations.....	7
How to Disable the Multi-Window on Samsung Tablets.....	7
How to Disable the Stylus on Samsung Galaxy Note.....	7

Configurations and Troubleshooting for Android

This document contains configurations and troubleshooting for your network and Android workstations.

Configuring Networks for Online Testing

This section contains additional configurations for your network.

Whitelisting Resources for Online Testing

This section presents information about the URLs that AIR 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.

Non-Testing Site URLs to Whitelist

[Table 1](#) lists URLs for non-testing sites, such as the Test Information Distribution Engine (TIDE) and Online Reporting System (ORS).

Table 1. AIR URLs for Non-Testing Sites

System	URL
Portal and Secure Browser installation files	https://sd.portal.airast.org/
Single Sign-On System	https://sso1.airast.org/auth/realms/southdakota/account
Test Information Distribution Engine	https://sd.tide.airast.org/
Online Reporting System	https://sd.reports.airast.org
AIRWays Reporting System	https://sd.airways.airast.org

TA and Student Testing Site URLs to Whitelist

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

Table 2. AIR URLs for Testing Sites

System	URL
Proctor (PR) and Student Testing Site Assessment Viewing Application	*.airast.org *.tds.airast.org *.cloud1.tds.airast.org *.cloud2.tds.airast.org

Configurations and Troubleshooting for Android

Online Dictionary and Thesaurus URLs to Whitelist

Some online assessments contain an embedded dictionary and thesaurus provided by Merriam-Webster. The Merriam-Webster URLs listed in [Table 3](#) should be whitelisted to ensure that students can access them during testing.

Table 3. AIR 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

Ports and Protocols are Required 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

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 whitelisted in both filters. Please see your vendor's documentation for specific instructions. Also, be sure to whitelist these URLs in any multilayer filtering system (such as local and global layers).

How to Configure for Domain Name Resolution

[Table 1](#) and [Table 2](#) list the domain names for AIR's testing and non-testing applications. Ensure the testing machines have access to a server that can resolve these domain name.

How to Configure for Certificate Revocations

AIR's servers present security certificates to the client browser. The following sections discuss the methods used to check those certificates for revocation.

How to Use the Online Certificate Status Protocol

To use the Online Certificate Status Protocol (OCSP), ensure your firewalls allow the domain names listed in [Table 5](#). The values in the Patterned column are preferred because they are more robust.

Table 5. Domain Names for OCSP

Patterned	Fully Qualified
*.thawte.com	ocsp.thawte.com
*.geotrust.com	ocsp.geotrust.com
*.ws.symantec.com	ocsp.ws.symantec.com

If your firewall is configured to check only IP addresses, do the following:

1. Get the current list of OCSP IP addresses from Symantec. The list is available at https://www.symantec.com/content/en/us/enterprise/other_resources/OCSP_Upgrade_-_New_IP_Addresses.txt.
2. Add the retrieved IP addresses to your firewall's whitelist. Do not replace any existing IP addresses.

Configure Android Workstations for Online Testing

This section contains additional configurations for Android.

How to Enable the Secure Browser Keyboard

The default keyboard for the Android allows predictive text, which may provide students with hints for answers to tests. For this reason, the Secure Browser for Android requires that a mobile Secure Browser keyboard be configured for the Secure Browser itself. The Secure Browser keyboard is a basic keyboard, with no row for predictive text functionality. Follow the steps below to enable this more secure keyboard.

1. Open **Settings**.
2. Open **General management**.
3. Open **Language and input**.
4. Open **On-screen keyboard**.
5. Select **Manage keyboards**.
6. Set **AIR Secure Test** to **On**. A popup will appear.
7. Select **OK**. Another popup will appear.
8. Select **OK**.

Troubleshoot Android Workstations

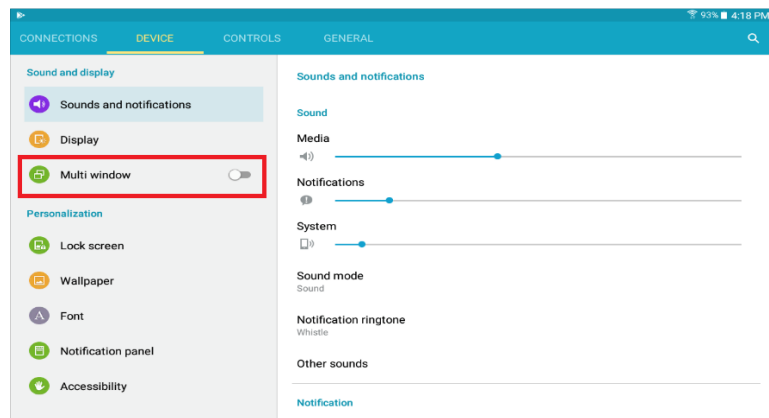
This section contains troubleshooting tips for Android.

How to Disable the Multi-Window on Samsung Tablets

Samsung tablets are equipped with a multi-window feature that displays app launchers. Depending on the available app launchers, the multi-window can compromise testing security. To avoid this scenario, disable the multi-window on Samsung tablets. Complete the following steps to disable the multi-window on Samsung tablets.

1. Tap **Settings**.
2. Navigate to **Device > Sound and display**.
3. Turn off **Multi window**.

Figure 1. Sound and display



How to Disable the Stylus on Samsung Galaxy Note

The Samsung Galaxy Note stylus is capable of launching apps—a situation that can compromise testing security. To avoid this scenario, disable the stylus feature. Follow the steps below to disable launching of apps on the Samsung Galaxy Note stylus.

1. Tap **Settings**.
2. Navigate to **Controls > Voice and input methods**.
3. Tap **S Pen**.
4. Disable all of the available features.

Figure 2. S Pen Controls

