ACT[®] Aspire[®] Technical Readiness Guide

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Contacts and Resources

Contact Information

ACT Aspire Customer Care

- Phone: 1.888.705.9421 Option 4 (ACT Aspire)
- Hour available: Mon-Fri 7:00 am 7:00 pm (CST)
- To email Customer Support, please visit: https://download.pearsonaccessnext.com/ref/WebToCase.html?p=ARIZONA.

Resources

Website	URL
Technical Requirements and Technical Guide	https://support.assessment.pearson.com/display/TN/ TestNav+System+Requirements
TestNav™ Online Support	https://support.assessment.pearson.com/ display/TN/TestNav+8+Online+Support
Download TestNav and ProctorCache Software	http://download.testnav.com/
PearsonAccess ^{next}	https://aspire.act.org/
PearsonAccess ^{next} Training Administrations	https://training.aspire.act.org/
ACT Aspire Mock Administration Guide	https://success.act.org/s/article/Mock-Administration- Guide

Note: The training administrations site should only be used for training purposes or for mock administrations. Data loaded into this site will not be available for live student testing.

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Overview

This guide will help technical staff configure an organization's systems for ACT Aspire tests. This section includes information on:

- PearsonAccess^{next} and TestNav[™]
- · Site readiness
- · Administrative monitoring in each room
- · Test content security
- · Disabling automatic application launching

PearsonAccess^{next} and TestNav

PearsonAccess^{next} is the web application used by testing staff (i.e., test coordinator, room supervisors) to perform administrative tasks and start and monitor tests. It is located at https://aspire.act.org.

TestNav is the secure test delivery engine used by examinees to take the tests. The instructions to download the TestNav application are discussed in a later section of this document.

Proctor Caching is the process of storing encrypted test content locally. This stored or cached test content is distributed to the examinee devices during a testing session. It accelerates the delivery of test content to examinees and reduces the amount of bandwidth required for online testing.

Note: Uninstall any previous versions of ProctorCache software that may be installed on the computer before installing the updated version.

Proctor Caching is recommended for schools that have experienced bandwidth issues during testing. ACT recommends downloading and using the latest Proctor Caching software for testing. Please visit the link below for the latest ProctorCache version number, and instructions for locating your ProctorCache's version number.

https://support.assessment.pearson.com/display/TN/Set+Up+and+Use+ProctorCache

Site Readiness

To ensure technical readiness, the test coordinator and technical coordinator should work together to gather the following information.

Category	Information You'll Need to Know
Internet Connection	Type of internet connection at your organizationInternet bandwidth/speed
Devices	 Number of devices available for examinees to use Number of devices to be used for administrative access Types of devices Device owner/administrator
Operating System, Processor, Memory	 Operating system for each device Processor for each device Memory for each device
Monitors	Screen resolution for each deviceDisplay size of each device

The following technology steps will help ensure the test environment is ready for test day.

Step Action

1. Appointed Technical Coordinator Reviews Technical Requirements

Technical coordinators are responsible for the tasks listed below:

- Ensure the school's computers and infrastructure meet online testing requirements.
- Help the test coordinator and other staff set up for test day (includes examinee and administrative computers and test rooms).
- · Troubleshoot technical issues staff or examinees may have on test day.

Additional responsibilities, if proctor caching:

- · Install ProctorCache software on the proctorcache computer.
- Create the TestNav[™] Configurations in PearsonAccess^{next} at both <u>https://training.aspire.act.org</u> and <u>https://aspire.act.org</u>.

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· Precache before testing and purge test content after testing.

Step	Action		
2.	Setup Proctor Caching and Complete Mock Administration and Training		
	Once the technical coordinator has set up proctor caching, you can perform a mock administration using all testing devices to confirm that they meet technical requirements. A mock administration is optional and helps ensure the technical environment is ready for test day.		
	A mock administration is done at <u>https://training.aspire.act.org</u> . You will need to set up your organization's TestNav Configuration(s), create sessions, and launch mock administration tests to confirm that the technical requirements are met for online administration of ACT Aspire assessments.		
	Note: The training administration site should only be used for training purposes or for mock administrations. Data loaded into this site, including TestNav Configurations setup, will not be transferred to the production environment for live student testing.		
3.	Validate Configuration and Lock Down Devices		
	If a mock administration was performed, once it is completed, the technical coordinator should confirm that the system is properly configured and freeze the testing environment. Please see Freezing the Test Environment for directions.		

Administrative Monitoring in Each Room

Each test room should have a separate computer the room supervisor will use to access PearsonAccess^{next} to start and stop test sessions and monitor testing progress. This computer must meet the requirements listed at <u>https://support.assessment.pearson.com/PAsup/system-basics/system-requirements</u> and reside in an area where the room supervisor can see all examinees in the room.

Test Content Security

The ACT Aspire online test must be given using **TestNav**, a "locked down" testing application. To help ensure test security, all software applications, internet browsers, cameras (still and video), screen capture programs (live and recorded, such as Skype), email, instant messaging, application switching, media players (such as iTunes), and printing must be closed before testing begins.

Administrative devices must also be configured prior to testing to ensure content security. Turn off or disable any management software that would allow secure test content on examinee testing devices to be viewed on any other device; e.g., LanSchool, NetopVision, Hapara, or similar applications.

Disabling Automatic Application Launching

You must configure any applications that may automatically launch on a computer to **disable automatic launch** during testing sessions. Such launches commonly occur when:

- · Anti-virus software performs automatic updates
- · Power management software on laptops warns of low battery power
- · Screensavers start or go into sleep mode
- · Email notifications appear
- · Calendar notifications appear
- Sticky keys Shift key is pressed 5 times (Windows only)
- · Laptops prompt for automatic software updates

Important! TestNav must be the **only** application running on the computer during testing. If an application launches during an examinee's test session, TestNav will exit the examinee from their test session.

Disable the screensaver. If active, it may cause TestNav to remove the examinee from their test session and result in the need for the room supervisor to resume their test.

Proctor Caching Overview

This section includes information on:

- · Proctor caching and its benefits
- · Process overview

Proctor Caching and its Benefits

Recommended for schools that have experienced bandwidth issues during testing, Proctor caching is the process of storing encrypted test content on a local computer using software called ProctorCache. This stored or cached test content is distributed to examinee devices during a testing session. Proctor caching improves the online testing experience for examinees and testing staff by:

- Allowing examinees to complete the tests even if the internet connection fails (unless the examinee has not yet logged in and started testing)
- Reducing delays caused by network congestion
- Reducing the amount of bandwidth required for online testing by reducing the download redundancy caused by each examinee downloading an independent copy of the test

The following diagram illustrates the technical benefit of using proctor caching.



Process Overview

The table below provides an overview of the process of installing and using ProctorCache.

Stage	Description
1	Prepare network environment. See TestNav System Requirements.
2	Identify proctor caching computer(s) and verify that identified computer(s) meet(s) minimum system requirements.
	IMPORTANT! For an optimal proctor caching experience, the ProctorCache computer should be in the same building where testing will occur.
3	Install ProctorCache software on all proctor caching computers.
4	Add default proctor caching settings to each organization in PearsonAccess ^{next} .
5	Use App Check to verify connectivity between testing computers and proctor caching computers. See <i>How to Run App Check</i> .
6	Precache the test content from PearsonAccess ^{next} two weeks to two business days before testing begins.
7	Verify that all test content was successfully cached.
8	Have test coordinator create and prepare test sessions prior to testing.
9	Monitor cached content and connections to the proctor caching computers.
10	At the end of the testing window, purge content from proctor caching computers.

Note: Proctor caching is not complete until you reach the "**SUCCESS**!" message in this document.

For additional information regarding setting up and using ProctorCache, visit:

https://support.assessment.pearson.com/display/TN/Set+Up+and+Use+ProctorCache.

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ProctorCache System Requirements

For additional information regarding ProctorCache System Requirements, visit:

https://support.assessment.pearson.com/display/TN/ProctorCache+System+Requirements

Whitelisting

The following URLs and ports must be whitelisted or opened in any firewalls, proxy servers, or software used for internet content filtering or SSL decryption, deep packet inspection, or any other type of traffic inspection.

URL:Port

- *.testnav.com:80
- *.testnav.com:443
- *.actaspire.org:80
- *.actaspire.org:443
- *.act.org
- · *.pearsontestcontent.com
- *.thawte.com
- *.usertrust.com
- *.comodoca.com
- .google-analytics.com

Default Port Settings for ProctorCache: port 4480 and port 4481 (pertains to LAN traffic only).

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Installing ProctorCache Software

This section provides the instructions for installing the ProctorCache software. The technical coordinator will find information on:

- · System and staff prerequisites
- Choosing proctor caching computers
- · How to install the software
- Updating files if using an upstream proxy server

Tip: Uninstall any previous versions of ProctorCache software that may be installed on the computer before installing the updated version.

System and Staff Prerequisites

Before installing and using ProctorCache, you must meet the following requirements.

The technical coordinator must have:

- · Full local administrator permissions
- · Working knowledge of your school's network
- A technical coordinator user account in PearsonAccess^{next}

The organization system must have:

- · Fixed internal IP addresses
- A network connection of 100 Mbps full-duplex or higher (the minimum is 10/100)
- A network set up to use IPv4 DNS (Domain Name System) servers

Note: If you have not made any explicit changes to use only IPv6 for DNS, you should meet all the system prerequisites. You will know if this is properly configured because TestNav and ProctorCache computers will communicate properly with one another.

TCP Ports open:

- 80 (Internet); 443
- 4480 and 4481 (Local Network)

Note: Using proctor caching does not require special hardware, equipment, or an underlying server-based operating system.

Choosing Proctor Caching Computers

When selecting proctor caching, choose computers:

- · on the same network as the examinees' testing computers.
- in the same building as the examinees' testing computers.
- that do not need to run anything other than the ProctorCache software on test day.
- · that quickly boot up.

DO NOT CHOOSE:

- the same computers used for testing examinees.
- a computer that is tasked with network services such as a domain controller (i.e. Active Directory Server, Print Server, etc.).

Important! ProctorCache runs on Windows only. Devices running other operating systems cannot be used as ProctorCache computers.

The ProctorCache computer must remain on during testing and during precaching test content.

How to Install the ProctorCache Software

Step	Action
1	Go to the intended proctor caching computer.
2	Go to: http://download.testnav.com.
3	Select Download ProctorCache.
4	Open the file you downloaded to open the installer screen. A security message appears. Select the Run or Yes button as needed to launch the installer.
5	After the software loads, read the introduction, and then select the Next button.
6	Proxy information displays. The Server Name will default to the computer name. If your site is using a proxy server, verify that the proxy server information is correct or enter the correct value. Select the Next button.
7	Accept the default destination folder and select the Next button.
	Note: If the computer uses an upstream proxy computer to access the internet, see Updating Files If Using Upstream Proxy Server.
8	Select the location to create the ProctorCache icon(s). Select the Create icons for all users check box, and then select the Next button.
	Note: If the ProctorCache computer uses an upstream proxy computer to access the internet, refer to Updating Files If Using Upstream Proxy Server.
9	On the Start ProctorCache page, check the box next to Start ProctorCache automatically when install completes.
10	Review the pre-installation summary, and then select the Install button. ProctorCache begins installing.
11	When the software is installed, select the Done button to close the installation.
12	Restart your computer.
13	Go to the <i>Configuring Proctor Caching Computers</i> section to complete ProctorCache set up.

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Updating Files if Using Upstream Proxy Server

ProctorCache computers using an upstream proxy computer to access the internet require additional changes to the original proctor caching files. Use the appropriate set of instructions below to make those changes.

If the upstream proxy is …	Then find this file	And change the value of	To the new value of
Authenticated	<install_dir>squid\ etc\squid.conf</install_dir>	##cache_peer address parent port 0	cache_peer <proxy server IP address> parent <proxy server<="" td=""></proxy></proxy
		login=user:pass default no- query http11	port number> 0 login= <user ID>:<password> default no-query http11</password></user
		all	##never_direct allow all
Unauthenticated	<install_dir>squid\ etc\squid.conf</install_dir>	##cache_peer address parent port 0	cache_peer <proxy server IP address> parent <proxy server<="" td=""></proxy></proxy
		login=user:pass default no- query http11	port number> 0 default no-query http11
		##never_direct allow all	##never_direct allow all

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Saved Response File (SRF) and Log Files

This section includes information on:

- Understanding SRF and log files
- · Configurations and primary save locations on Windows and Mac OS X
- Configurations and primary save location on Chromebooks
- · Secondary save location
- Storing this information in PearsonAccess^{next}

Understanding SRF and Log Files

When an examinee responds to a test question, TestNav saves the response in a saved response file (SRF) and sends these responses to the Pearson server. After the responses successfully save to the server, TestNav deletes the SRF.

TestNav also writes to a log file during the testing session. These files help to troubleshoot issues, if they occur. You cannot configure the log file save location.

Configurations and Primary Save Locations for TestNav—Windows and Mac OS X

For Windows and Mac OS X, you must:

 Configure a primary and an optional secondary save location then enter this information in the TestNav Configurations screen within PearsonAccess^{next}.

Note: When nothing is designated for the primary save location, the SRF file will automatically save to the default primary save locations. Using the default primary save location is preferred.

2. Configure examinee user accounts to have complete read, write, and delete access in all save locations.

If using a secondary save location, it is strongly recommended that you configure a shared network folder that can be accessed from all testing devices for SRFs to ensure that you do not lose responses, even if an examinee cannot continue to test on the same device. You must verify that you can access the location from multiple testing devices.

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The default primary save location is described below.

Operating System	SRF Location	Log File Location
Windows	{USER.HOME}\Pearson\srf\	{USER.HOME}\Pearson\logs\
Mac OS X	{USER.HOME}\Pearson\srf\	{USER.HOME}\Pearson\logs\

Configurations and Primary Save Location for TestNav—Chromebooks

On Chromebooks, the SRF default primary save location is not customizable. The primary save location will be on the local device and the secondary save location can be customized to use a SFTP server path, if necessary.

To find files, take these steps.

Step	Action
1	Launch the TestNav app.
2	Focus your cursor in the username or password field.
3	Press <ctrl><shift>z, and the File Viewer box appears.</shift></ctrl>
	Note: If the File Viewer does not display, select on the window and then press <ctrl><shift>z again.</shift></ctrl>
4	Plug in a USB memory stick.
5	Select the download button next to the SRF and log file(s) you want to download.
6	When the window opens, select the USB memory stick, and select Save .

Secondary Save Location

You can place backup SRFs in a directory on the network file server, on the examinee's testing device, or on a secure file transfer protocol (SFTP) site. The following table outlines the pros and cons of each option; however, as a best practice, we recommend using both a primary save location and a secondary save location:

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Back up Location Options	Pros	Cons
Directory on network computer	Backup file is accessible from other computers.	 Uses more internal network bandwidth. Responses save to the network drive more slowly than to the local directory. As a result, test items take more time to load. Does not provide secondary save for Chromebooks.
Local directory on testing computer (TestNav client)	 Uses less internal network bandwidth. Responses save to local directory more quickly than to the network drive. As a result, test items take less time to load. 	 Backup file is not accessible from any other computer. Does not provide secondary save for Chromebooks.
SFTP	 Provides secondary save location for all supported testing computers and devices. Chromebooks can only use SFTP as a secondary save location. 	Requires SFTP site setup.

Note: You should familiarize yourself with default response file backup locations. Some save locations are configurable. If you set a network file server as a primary or secondary backup location, do not use:

- Spaces in the save location path.
- A location that requires authentication. If authentication is required, TestNav cannot access the shared location.
- A Windows Uniform Naming Convention (UNC) or network path on a device with macOS or Linux, such as \\ComputerName\SharedFolder\Resource. It's recommended that you specify a mapped drive location such as D:\TopDirectory\NextDirectory\SaveLocation.

Storing This Information in PearsonAccess^{next}

Once you have determined your SRF locations, you will enter that information when you enter your TestNav configurations. See *Configuring Proctor Caching Computers*.

Configuring Proctor Caching Computers

This section includes information on:

- · When to set defaults
- · How to set defaults
- · Using default proctor caching settings

When to Set Defaults

You can specify a default proctor caching computer that will automatically be associated with new test sessions.

Important! You should create default proctor caching settings **before** online test sessions are created. You need to perform these tasks just one time per test administration, unless a change is required.

How to Set Defaults

Take the following steps to set default ProctorCache settings.

Note: You must have the technical coordinator role in PearsonAccess^{next} to set default ProctorCache settings.

Step	Action	
1	Log in to PearsonAccess ^{next} at <u>https://aspire.act.org</u> .	
2	In the upper right hand corner of your screen, make sure your correct test administration and organization are selected. If not, select the correct ones from the drop-downs.	
3	Select the Setup icon.	
4	Select the TestNav Configurations title from the drop-down.	
5	In the Tasks window, under Select Tasks, select the checkbox for the Create / Edit TestNav Configurations title.	
6	Select the Start button.	
7	Create a name for your configuration settings and enter it for your organization.	
	Note: If the TestNav Configurations are being set up at the district level you will want to make sure you choose all organizations testing online from the Organizations drop-down.	

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Step	Action					
8	 Locate the IP address on the proctor caching computer. Windows is the required operating system for ProctorCache. Use the following steps: Opening the Command Prompt Typing IPCONFIG for the IP address to display 					
9	Enter the details of the proctor caching computer that you will use to precache tests, using port 4480 or 4481 in the Port field.					
10	In the Response File Backup Location s fields, enter the locations determined. See Using Saved Response File (SRF) and Log Files.					
	Create Configurations	New Cache Configuration				
	• • • • • • • • • • • • • • • • • • • •	New Cache Conliguration	Create Proble			
		Configuration Name*				
		Organizations*				
		Select				
		Default Precaching Computer				
		Computer Name*	Please use the following format for 9570 file backers landing: after discountly descented to determine the the			
		ID Address	, ware are not incomentation or it, we are obtained account of the areas of Areas and B. and ere it have them			
		IF Address	Windows, Primary Location 0			
		Port	Windows, Secondary Location Ø			
		Note: Confirm that firewall or content filtering software is open for both ports 4400 and 4481 of the proctor caebing computer.	MAC, Primary Location 0 Una extenti unar devolary MAC, Secondary Location 0			
			Android, ChromeOS, and iOS Secondary Location Θ			

11 Select the **Create** button.

Note: Test content is not yet downloaded and precached. Precaching is something you must perform manually. See the section on Working with Precached Test Content.

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Step	Action
12	If more than one proctor caching computer will be used, select the configuration from the list on the left side of the screen. Select the Add button and complete the precaching computer configuration as many times as needed.
	Precaching Computers (1) Add
	Fake Computer
	Computer Name"
	Fake Computer
	✓ Default computer used for sessions
	IP Address
	Port
	Configuration Identifier
	73Z9FE4CMJ
	Note: Confirm that firewall or content filtering software is open for both ports 4480 and 4481 of the proctor caching computer.

13 Verify the connection to the precaching computer by opening a new browser window and navigating to http://<ip-address>: 4480. If the ProctorCache interface does not appear, reference the setup instructions.

If you still cannot install proctor caching, contact ACT Aspire for assistance.

Using Default ProctorCache Settings

Once you have entered default ProctorCache settings, the IP address and port you saved will automatically populate for each test session created when you select the precaching computer during setup. Initial settings can be changed later.

SUCCESS! You have successfully set up proctor caching.

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TestNav Information

This section includes information on:

- New version of TestNav
- Conducting a Mock Administration
- · Understanding Chromebooks
- Understanding App Check with TestNav

New Version of TestNav

You will receive an error message if you do not have the updated version installed. For more information regarding app updates, go to: https://support.assessment.pearson.com/display/TN/Technical+Bulletins.

Conducting a Mock Administration

A mock administration is **recommended** to verify the technology setup is complete and to familiarize test coordinators, room supervisors, and proctors with the testing process. Use the training site found at <u>https://training.aspire.act.org</u> and the <u>ACT Aspire Mock</u> <u>Administration Guide</u> to complete the mock administration **before** the actual test day.

Note: Live tests must not be accessed via TestNav by anyone other than the examinees testing on test day.

Important! The mock administration is not to be used as a practice test for students. It is simply a process used to verify that your testing environment is working correctly.

Understanding Chromebooks

Note: ACT only supports managed Chromebooks.

To set up TestNav on Chromebooks, you should first ensure the Chromebooks used for testing are managed. You can manage your organization's Chrome devices from a single place using Chrome device management. To confirm that a Chromebook is managed, view the "Check if your Chromebook is managed" section at:

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https://support.google.com/chromebook/answer/1331549?hl=en

Understanding App Check with TestNav

Running App Check **without** a Configuration Identifier will confirm TestNav's ability to enter full screen or "kiosk" mode as well as checking connectivity to Pearson's servers. It also checks for whether the following features that should be disabled are enabled on the testing computer, such as:

- · The ability to save multiple items in the Cloud Clipboard
- Being able to sync across devices in the Cloud Clipboard
- · Airplay screen-sharing

Running App Check with a Configuration Identifier will also check the application's ability to communicate with the organization's defined ProctorCache server and SRF save locations.

You must run App Check on every device running TestNav in your testing environment.

TestNav App Check

The TestNav App Check tool now contains two components:

- App Check Used to verify that the testing device is able to securely lock down, access test content, write to save locations, and submit responses to the online testing severs. It is recommended that the App Check is run on every examinee device in the organization.
- Network Check This is a newly added feature, used to evaluate network performance based on the number of simultaneous testers expected during the administration.

It is recommended that the TestNav App Check is run on every examinee device in the organization. Running the App Check without a Configuration Identifier will confirm TestNav's ability to enter full screen or "kiosk" mode and check connectivity to the online testing servers.

It also checks the testing computer for the following enabled features that need to be disabled:

- · The ability to save multiple items in the Cloud Clipboard
- · The ability to sync across devices in the Cloud Clipboard
- · Airplay screen-saving

Running the App Check with a Configuration Identifier will also check the application's ability to communicate with the organization's defined saved response file (SRF) save locations and ProctorCache server.

Locate the Configuration Identifier

- 1. Sign in to PearsonAccess^{next} at <u>https://aspire.act.org</u>.
- 2. Select the Setup icon, then TestNav Configurations.
- 3. Select or create the TestNav configuration.
 - If TestNav Configurations are set up in PearsonAccess^{next}, select its name from the list, then select the dropdown on the Start button, and Create/Edit TestNav Configurations.
 - If the TestNav Configurations are not set up in PearsonAccess^{next}, select the dropdown on the Start button, and then select Create/Edit TestNav Configurations.

The Create/Edit screen will appear. The Configuration Identifier will appear under the Port box. It will generate even if the IP address and Port are not entered.

Run the TestNav App Check

Set up TestNav on each examinee device before running the App Check. For Chromebooks, open them in kiosk mode (open the app without logging in to the Chromebook) for the TestNav App Check to work. Locate the Configuration Identifier before completing the check.

- Select the TestNav shortcut on your desktop or go to the Start menu and select All Programs, Pearson, and then TestNav. The Customer Selection screen appears.
- 2. Follow the appropriate next step.
 - a. If you administer only Aspire, select ACT Aspire from the list.
 - b. If you administer more than one product using TestNav, go to the User dropdown, and select Choose a different customer, and then select ACT Aspire from the list.
- 3. Select the User drop-down, and then App Check.
- 4. Enter the Configuration Identifier, or leave this field blank, and then select **Run App Check**.

Note: If an invalid Configuration Identifier is entered, an error message will appear. A green success message will appear if the system passed. A red failure message will appear if the system failed.

For sites using ProctorCache, or using a secondary save location (even if ProctorCache is not used), if the check was run before the TestNav Configurations were set up in PearsonAccess^{next}, and the Configuration Identifier was not used, run the check again with the Configuration Identifier once the TestNav Configurations are set up.

Run the Network Check via TestNav App Check

1. Select the **TestNav** shortcut on your desktop or go to the **Start** menu and select **All Programs**, **Pearson**, and then **TestNav**.

The Customer Selection screen appears.

- 2. Follow the appropriate next step.
 - a. If you administer only Aspire, select ACT Aspire from the list.
 - b. If you administer more than one product using TestNav, go to the User dropdown, and select Choose a different customer, and then select ACT Aspire from the list.
- 3. Select the User drop-down, and then App Check.
- 4. Select Run Network Check.
- 5. Select the number of computers you plan to administer a test on and select **Start Diagnostics Test**.
- 6. Your test results will display on screen.
 - a. If the test results indicate Pass, refer to the note below for additional guidance to ensure ProctorCache is not needed.
 - b. If the test results indicate Fail, it is recommended that ProctorCache is set up and utilized.

Note: The best way to ensure that you can successfully test without ProctorCache is to run a Mock Administration. To complete the mock administration, refer to the ACT Aspire Mock Administration Guide for instructions and use the PearsonAccess^{next} training site found at <u>https://training.aspire.act.org</u>.

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TestNav System Requirements

This section includes information on:

- · Hardware requirements
- · Software requirements
- · Whitelisting
- · Wireless network best practices

Note: Technical requirements may change on a quarterly basis.

Hardware Requirements

Below are the minimum hardware requirements for devices used for testing.

	Windows	macOS	Chrome OS
Supported Devices	Desktop* Laptop*	Desktop Laptop	Chromebook*
Processor	ARM	ARM, ARM64	Any
Memory	2GB RAM	2GB RAM	2GB RAM
Screen Size	9.5 inch	9.5 inch	9.5 inch
Screen Resolution	1024x768	1024x768	1024x768

*In order for Chromebooks to be used, they must be used with a keyboard and mouse/ touchpad. Devices in Tablet Mode are not supported. **Tablet mode** refers to using the device as a touchscreen device without a keyboard and mouse/touchpad attached.

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* In order for Windows devices to be used, they must be used with a keyboard and mouse/touchpad for touchscreen devices.

Note: Do not use devices that take 10 seconds or more to start up or run applications.

Software Requirements

Use the links below to download and set up the TestNav app for your supported operating system:

Operating System	Download TestNav	Setup Instructions
Chrome OS: 91+	From Chrome Web Store	Set Up TestNav on Chromebook
macOS: 10.14+ (Intel Mac), Apple silicon (ARM64)	From TestNav Downloads*	Set Up TestNav on OS X, macOS
Windows: 10 x64 - 20H2, 21H1	From TestNav Downloads*	Set Up TestNav on Windows

* Depending on the platform being used, accessing the proper download from TestNav may require the user to navigate using the <u>Download TestNav for another platform</u> selection and selecting for the platform needed (OS X, Windows, UNIX, etc.).

For more information on Network Requirements and Guidelines, please visit: <u>https://support.assessment.pearson.com/display/TN/Network+Requirements+and+Guidelines</u>

Whitelisting

The following URLs and ports must be whitelisted or opened in any firewalls, proxy servers, or software used for internet content filtering or SSL decryption, deep packet inspection, or any other type of traffic inspection.

IMPORTANT: Failing to whitelist ALL urls listed below will result in issues during the mock administration and on test day.

URL:Port

- *.testnav.com:80
- *.testnav.com:443
- *.actaspire.org:80
- *.actaspire.org:443
- *.act.org
- *.pearsontestcontent.com
- *.thawte.com
- *.usertrust.com
- *.comodoca.com
- · .google-analytics.com

For more information on Network Requirements and Guidelines, please visit: <u>https://support.assessment.pearson.com/display/TN/Network+Requirements+and+Guidelineshttp</u> <u>s://support.assessment.pearson.com/display/TN/Network+Requirements+and+Guidelines</u>

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Wireless Network Best Practices

The increase in devices accessing organization networks increases the need for stable WiFi networks, daily monitoring, and maintenance. To help network admins stabilize WiFi for online testing, take the following steps:

- · Minimize impact
 - Prior to Test Day
 - · Disable low-end wireless protocols not being used
 - · Disable WiFi on mobile devices to avoid potential interference
 - On Test Day
 - · Ask classrooms to stagger logins to minimize initial loading time.
- Conduct a site survey to evaluate infrastructure, network design, and WiFi to determine how many wireless access points each organization will need.
 - A site survey should include:
 - Evaluating the existing infrastructure
 - Counting the number of user devices
 - Examining the type of user traffic and interference
- · Design for density
 - Install access points more densely to decrease potential for overload with too many examinee devices.
 - Reduce WiFi interference from solid materials such as brick, concrete, metal, bookshelves, and cabinets.
 - If your WiFi access points have adjustable antennas, point the antenna to aim the signal at the examinee devices or move the examinee devices directly under the access point.Reduce interference from other WiFi networks by ensuring that no other WiFi networks are on the same channel.
 - Check your access point user guide to determine whether your access points can detect the least congested WiFi channel.
 - Reduce interference from devices that may not be on the WiFi network but may still use the same frequencies to connect (e.g., cordless phones, Bluetooth-enabled devices, and examinee mobile devices).
 - Temporarily turn off or unplug electronics to reduce wireless interference during testing.

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Installing TestNav

This section includes information on:

- How to download TestNav on Windows or Mac OS X
- How to download TestNav on Chromebooks
- How to run App Check
- Freezing the test environment

How to Download TestNav on Windows or Mac OS X

Follow the steps below to download TestNav on Windows or Mac OS X.

Step	Action			
1	Go to http://download.testnav.com.			
2	Use the following table to determine your next step.			
	If the Operating System is Then			
	Windows	Select Windows .msi installer.		
			Note: The .msi installer (Microsoft installer) file contains explicit instructions about installing and removing an application. Select the file you downloaded or save and open if required by your browser.	
		2.	The Open File—Security Warning appears and asks if you want to run the TestNav file. Select Run .	
		3.	The installer window appears and automatically installs TestNav.	

Note: Pearson TestNav also is available in the Windows App Store.

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Step	Action		
	If the Operating System is …	Tł	ien
	Mac OS X	1.	If you are not on a Mac to do the download, select Download TestNav for another platform .
		2.	Select OS X/macOS.
		3.	Select the file you downloaded. The TestNavinstall window appears.
		4.	Drag the TestNav icon into the Applications folder.
		5.	Eject the TestNav installer from Devices in the Finder sidebar.
			Note: You can also eject it from the Desktop.
3	Run App Check. See	: Te	stNav App Check > Run the TestNav App Check.

How to Download TestNav on Chromebooks

Follow the steps below to download TestNav on Chromebooks. Setup instructions can be found at:

https://support.assessment.pearson.com/display/TN/Set+Up+TestNav+on+Chrome+OS

Step	Ac	tion
1	1.	Sign in to the Google Admin console for your domain, using your administrator account (does not end in @gmail.com).
	2.	From the Google Admin console home page, go to Devices > Chrome .
	3.	Select Apps & extensions.
	4.	On the left, select the top-level organization for which you want to configure settings. Then, select a child organization, if necessary.
	5.	A Select Kiosks.
	6.	Select Add and select Add from Chrome Web Store . Note: Do not add TestNav from Google Play. Google Play contains TestNav for Android and not for ChromeOS.
	7.	Search for TestNav and select Select.
	8.	If prompted, accept the app permissions.
	9.	In the panel on the right, set the app and extension policies.

- 10. Select Save.
- 2 Run App Check: See TestNav App Check > Run the TestNav App Check.

Freezing the Test Environment

Once you have configured the testing environment for TestNav, you should freeze the configuration until online testing is finished at your organization. This includes not accepting operating system updates.

Important! All devices that will be used for testing must be administrator controlled. No software of any sort should be downloaded or updated on any computer that will be used for testing after the set up above has been completed.

Note: Test coordinators can verify that the TestNav Configurations have been configured within PearsonAccess^{next} by going to Reports > Operational Reports > Online Testing > Organizations that have Precaching Server Configuration.

Working with Precached Test Content

In this section, you will find information on:

- · Precaching before test day
- · How to precache test content
- How to verify the status of cached test content
- Monitoring ProctorCache activity during testing
- · How to purge cached test (or client) content

Precaching before Test Day

Test content should be precached:

- 1. After you have created all test sessions
- 2. Two weeks to two business days before testing begins

This prevents delays in administering the test on test day.

How to Precache Test Content

Take the following steps to precache the test content.

Important! Browser pop-ups must be allowed in order to start the precaching process.

Step	Action
1	Turn on the proctor caching computer.
2	Log in to PearsonAccess ^{next} at <u>https://aspire.act.org</u> from a device other than the proctor caching computer.
3	Select the Setup button.
4	Select the Precache By Test button.
5	Select the tests you wish to precache. Select the Precache Server.
6	Select the Precache button. A pop-up window opens. Select Precache again.
7	Take the following actions, depending on your browser.
	Note: Security changes to web browsers may result in warning prompts when precaching test content. Follow these steps to ensure that test content is cached.
	Chrome : Quickly select the Chrome icon on the system tray, navigate to the second pop-up window, then select Send anyway to confirm sending unsecure data before the second pop-up disappears.

Firefox: Select Continue to confirm you want to send the information.

Edge: Confirm that information may be sent in the pop-up window.

Note: Verify the connection to the Precaching Computer by opening a new browser window and navigating to http://<ip-address>:<port>. If the ProctorCacheinterface does not appear, reference the setup instructions or contact customer support.

8 Once content has been cached, you can monitor ProctorCache activity from the Test and Clients screens of TestNav ProctorCache to verify the status of cached content.

Note: ProctorCache must be running for content to successfully precache. If either of the services are stopped, content will not precache.

How to Verify the Status of Precached Test Content

Two weeks to two business days before testing begins, verify test content has been cached. To view and verify that test content has been cached and is current before the assessment window, take the following steps.

Step	Action		
1	Go to the proctor caching computer.		
2	Open ProctorCache.		
3	Select the Tests tab. A list of all tests will display.		
4	4 Review the caching status of all items in the test form. Test Status options are a follows:		
	 Green OK—content is successfully cached 		
	 Yellow not loaded—content is not cached 		
	 Yellow waiting—content is waiting to be loaded 		
	 Yellow loading—content is currently loading 		

• Red Failed to load content-caching content failed

Monitoring ProctorCache Activity during Testing

During testing, you can monitor ProctorCache activity from the Tests and Clients screens of TestNav ProctorCache. The **Tests** tab provides a high-level view of the test content downloaded by test form and last cache date. The Status column indicates whether the test content was successfully cached for the test form. The number of content entries successfully cached is also displayed with the date the content was last cached. If test content is successfully cached, a green status icon displays. If test content is not successfully cached, a yellow or red icon displays.

	testna√. ProctorCache						Tests	Clients 🚯 H	leip
	Tests		0 Refresh	0 Reload	x Purge	Test		Narch Clear	
Ш	TEST •	FORM		STATUS	+ ENTRIES +	CACHE DATE			
Ш	Grade.E.Mathematics	Grafe 8 Mathematics - 014PD		Bok	106	Sep 12, 2014 11:01 AM			
	Grade.2.Mathematics	Grade 7. Mathematics 014PD		@ок	116	Sep 12, 2014 11:01 AM			

Note: Each URL represents item content, along with the number of hits, which indicates the number of examinees who have accessed the item.

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The **Clients** tab provides a list of all clients (testing computers) by name, IP address, and platform that have recently requested test content.

TESTNA√. ProctorCache					1	iests Clients 🛛 Help
Clients			x Purge Client		Computer Name	Search Clear
COMPUTER NAME +	STATUS +	IF ADDRESS	 PLATFORM 	+ TEST	FORM	ACTIVITY +
B 18.25.97.83	OLong Idle	10.25.97.83				9:50 AM
10.25.99.66	Okong Idle	10.25.99.66				9:57 AM
•• 1/1 •• S0 Per Page •					Text Copyright & 1996-2014 Pe	No Pressectaria 2014. 1. 12, Bolis Danc 49, 10, 2014 11-01 anna Education, Roc. or to attitute(c). All right reserved

How to Purge Cached Test (or Client) Content

Take the following steps to purge cached content from a proctor caching computer.

Impor compu	Important! For test security reasons, test content must be purged from the proctor caching computers at the end of the testing window.				
Step	Action				
1	Go to a proctor caching computer.				
2	Open the shortcut to ProctorCache.				
3	Select the Tests (or Clients) tab.				
	Note: To filter your list, enter search criteria and select a value from the drop-down list. Select the Clear button to reset your search criteria.				
4	Check the box next to the test (or client) to purge.				
5	Select the Purge (or Purge Client) button.				
6	Enter the following proctor password in the popup window: t35t1n6				
7	Repeat these steps on each proctor caching computer.				

Note: Do not purge content until the end of the testing window unless otherwise directed by ACT. Purging cached content during a test may impede or prevent examinees' access to cached test content.

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