



Supported System Requirements for Georgia Milestones Assessment System

Effective Winter 2015



This document describes the system requirements for the DRC INSIGHT Online Testing System and the Testing Site Manager (TSM). These requirements apply to the Winter 2015 End of Course (EOC) measures and all subsequent EOC and End of Grade (EOG) test administrations for the 2015-2016 school year. These requirements cover the following items:

- Operating systems and levels
- Hardware devices
- Processor, disk space, and memory
- Screen size and resolution
- Certain testing accommodations

DRC must aggressively embrace new technology to offer the best testing solutions to our customers while keeping pace with constantly changing and evolving technology standards. In general, DRC software applications support new versions of an operating system within three months of public availability of the new version, or by the next release date of the DRC application, whichever duration is greater.

Updated: July 30, 2015

DRC INSIGHT and Testing Site Manager (TSM)

Welcome to online testing with DRC INSIGHT!

The DRC INSIGHT Online Learning System, or DRC INSIGHT, is a proven online testing system that successfully delivers secure statewide assessments.

DRC INSIGHT delivers assessments and related resources online for all content areas and grade levels, as it incorporates computerized testing, related resources, dynamic reporting, and a suite of educator tools. It consists of a software interface that is available from a secure web browser and the Testing Site Manager (TSM) to help manage network traffic, maintain connectivity, and handle bandwidth issues.

DRC INSIGHT Secure Browser

The main component of DRC INSIGHT is the secure web browser testing interface installed on each testing device. This software communicates with the DRC INSIGHT server to provide online tools training and test questions to the test taker and to send responses to the DRC INSIGHT server, which stores them securely. Often we refer to the secure web browser interface as simply DRC INSIGHT or INSIGHT.

Testing Site Manager (TSM)

DRC INSIGHT also provides the Testing Site Manager (TSM), a powerful, web-based application that provides caching and a software toolbox to help you plan, configure, and manage your online testing environment.

Usually, you install the TSM caching software on one or more strategic computers with sufficient bandwidth to help manage and streamline communication between the test devices and the DRC INSIGHT server. DRC strongly recommends the TSM caching software for maximum performance.

The TSM offers two types of caching—content caching for test content and response caching for student test responses. At test time, the TSM content caching software sends its cached test items to the testing devices. This content must be up to date in order for students to test.

During testing, if the test computers cannot communicate with the DRC INSIGHT server, the response caching software buffers and stores their test responses. When the response caching software is communicating with DRC, it sends test responses to the DRC INSIGHT server every fifteen minutes. Even if DRC is not currently communicating with the testing computers, the test responses are still being stored on the TSM for transmission to DRC, so no responses are lost.

The TSM offers a suite of powerful software tools, including Load Simulation Tests and Ping Trend Graphs, to help sites prepare and manage their test environment.

DRC INSIGHT System Requirements

Supported Operating Systems	Hardware Devices	Screen Size	Processor	Disk Space	Memory	Resolution
Windows Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10 ¹ Windows Server 2008 Windows Server 2012	Non-touch-screen devices plus the following touch-screen devices: Lenovo Yoga – Netbook/Tablet Dell Latitude – Laptop Microsoft Surface Pro – Tablet	Non-touch-screen devices Minimum 9.5” Recommended 13” or larger	Minimum ² 1 GHz Recommended 1 GHz or faster	Minimum 100 MB Recommended 100 MB or more	Minimum 512 MB RAM Recommended 1 GB RAM	Minimum 1024 x 768 Recommended 1024 x 768 or higher
Mac (OS X) OS X 10.7 OS X 10.8 OS X 10.9 OS X 10.10 Note: Mac Server software is not supported	Non-touch-screen devices	Touch-screen devices Minimum 10”				
Linux Ubuntu 12.04 and 14.04, LTS version, with 32- and 64-bit Gnome 3.4, Unity Shell Note: Ubuntu Server software is not supported	Non-touch-screen devices					
Chrome OS Chrome OS recent stable channel	Non-touch-screen devices plus the following touch-screen devices: Acer C720P Lenovo N20P Dell Chromebook 11 HP Chromebook 14 G3					
Apple iOS iOS 8.1.3 iOS 8.2	iPad 2 or newer iPad Air devices iPad mini devices are not supported	9.7”	NA	NA	NA	
Android Lollipop 5.0 or higher	ASUS Transformer Pad TF103CE Dell Venue 10	Minimum 10”	NA	NA	NA	

Additional Specifications

¹ DRC anticipates full support for Windows 10 no later than 10/31/2015

² Throughout this document, the minimum level of requirements represents a low compliance threshold. Districts should attempt to exceed the minimum level of requirements for an optimal student testing experience. DRC advises using the recommended level.

DRC INSIGHT System Requirements

Accessories

- Mouse
- English language keyboard (internal and external, wired and wireless)
- Touchpad
- Headphones, earphones, earbuds³
- Microphone⁴
- Stylus for touch devices

The input device must allow students to select and deselect; drag items; highlight text, objects, and areas; enter letters, numbers, and symbols; use the Shift, Tab, Return, Delete, and Backspace keys.

Internet Connectivity

Minimum

Devices must be able to connect to the Internet using wired or wireless networks

Recommended

Devices connected via wired network

Power Supply

Minimum

For battery devices, a fully charged battery with a two-hour life

Recommended

Device connected to a plugged-in power supply

Accommodations

- A Testing Site Manager (TSM) is required for the online audio accommodations (Text-To-Speech or TTS), previously referred to as the Screen Reader functionality

Virtual or Remote Desktops

DRC INSIGHT has been used successfully to test students in a wide variety of virtual desktop or “thin client” environments, including nComputing, Citrix, Wyse, and VMWare. The virtual desktop session must emulate one of the supported operating systems noted above. The virtual desktop server must have sufficient resources to support all students that will be testing concurrently. Special attention must be paid to the security risks inherent to testing in a virtual desktop environment. Please note that while virtual desktop environments are supported for the Georgia Milestones Assessments, they are not supported for WIDA Access for ELLs Assessment.

Please note –DRC does not support the use of audio accommodations (Screen Reader, also called text-to-speech) in virtual desktop environments. In general, we have found that audio quality in such environments is poor, which could prevent the audio accommodation from functioning as designed.

Other

Smart Board interfaces are not supported

³ Required for audio accommodations only

⁴ Not required for Georgia Milestones Assessments, but required for WIDA English-Language Learners Assessments.

DRC TSM System Requirements

Supported Operating Systems	Disk Space	Hardware Devices	Processor	Internet Connectivity	Memory	Screen Size	Resolution
<p><u>Windows</u> Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10⁵ Windows Server 2008 Windows Server 2012</p>	<p><u>Minimum</u> 10 GB</p> <p><u>Recommended</u> 10 GB or more</p>	<p>Desktop and laptop devices</p> <p><u>Minimum</u> Device connected to a plugged-in power supply</p>	<p><u>Minimum</u> 1 GHz</p> <p><u>Recommended</u> 1 GHz or faster</p>	<p><u>Minimum</u> Devices must be able to connect to the Internet using wired or wireless networks.</p> <p><u>Recommended</u> Devices connected via wired network</p>	<p><u>Minimum</u> 1 GB RAM</p> <p><u>Recommended</u> 1 GB or more</p>	<p><u>Minimum</u> 9.5"</p> <p><u>Recommended</u> 13" or larger</p>	<p><u>Minimum</u> 1024 x 768</p> <p><u>Recommended</u> 1024 x 768 or higher</p>
<p><u>Mac (OS X)</u> OS X 10.7 OS X 10.8 OS X 10.9 OS X 10.10 Note: Mac Server software is not supported</p>							
<p><u>Linux</u> Ubuntu 12.04 and Ubuntu 14.04, LTS version, with 32- and 64-bit Gnome 3.4, Unity Shell Note: Ubuntu Server software is not supported</p>							

⁵ DRC anticipates full support for Windows 10 no later than 10/31/2015