



# Technology User Guide

## Volume IV: Troubleshooting

# NEBRASKA

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# Introduction

## ■ About This Guide

This user guide is part of a multi-volume set that describes how to configure, install, manage, and troubleshoot the DRC INSIGHT Online Learning System, hereafter referred to as INSIGHT. This volume, *Volume IV: Troubleshooting*, describes tools and testing information to help you troubleshoot your testing environment and verify that it is ready for testing.

## What's Covered in This User Guide

This guide discusses how to use some of the testing tools, including Online Tools Training (OTT) and the Monitor Verification Test. This guide also contains Frequently Asked Questions (FAQs), Hints, and Tips for online testing. In addition, the guide explains the various error messages that you may encounter while working with Central Office Services (COS) and INSIGHT and provides information to help resolve them.

## Important Information

.....  
**!** **Important:** Throughout this user guide, the Information icon (!) indicates important information or crucial tips.  
.....

This guide is designed primarily for the NSCAS-Technology Assessment Coordinators (N-TACs) who are responsible for setting up and managing online testing, and ensuring their systems work effectively and securely. N-TACs should be knowledgeable about the technical details of the Windows, Mac (OS X), iOS (iPad), and Chrome (Chromebook) operating systems, and have the necessary security privileges to perform the tasks discussed in this guide.

This guide also helps Test Administrators (TAs), District Assessment Contacts (DACs), and School Test Coordinators (STCs) use DRC INSIGHT more effectively.



# Working with INSIGHT

### ■ What's Covered in This Section

#### **Online Tools Training (OTT)**

This section describes tools that you can use to help prepare for and become familiar with the online testing environment.

#### **The Monitor Setting Verification Test**

This topic describes the OTT, a series of sample test questions to help introduce students to the testing tools available in the online environment.

This topic describes the Monitor Setting Verification test, available in your state's Portal site, that helps you determine whether the monitor settings for the testing computer are configured for optimal testing.

#### **The Testing Site Capacity Estimator**

This topic describes the Testing Site Capacity Estimator, a tool that you can download to estimate test loading times as well as the time required for a testing computer to save a test response and retrieve the next question.

## ■ The Testing Site Capacity Estimator

The Testing Site Capacity Estimator is an Excel spreadsheet file that you can download to estimate the following times:

- The time required to initially download the test engine software based on the number of students who test at the same time.
- The time a tester will wait for a fixed-form test (with or without accommodations) and a Computer-Adaptive Test (CAT) to load.
- The time a tester will wait for the next fixed-form or CAT test question after the student has finished a question (the time required for the testing device to save the test response and retrieve the next question).

The following is a summary of the process of downloading and using the Testing Site Capacity Estimator to estimate testing speeds. This process is discussed in detail on the following pages.

1. Download the Testing Site Capacity Estimator from your eDIRECT site.
2. Verify with your Internet Service Provider (ISP) or other technical source the ISP connection speed of the testing computer, the Wide Area Network (WAN) connection speed, the Local Area Network (LAN) connection speed.
3. Open the Testing Site Capacity Estimator and fill out the various input fields, including estimates for the number of students testing and responding at the same time, the average connection speed for testing devices, and the amount of bandwidth available for testing.
4. The Testing Site Capacity Estimator calculate the results.
5. Review and analyze the results.
6. Repeat steps 3–5 by re-entering any of the input values to estimate different testing scenarios.

## Using the Testing Site Capacity Estimator

To download and use the Testing Site Capacity Estimator to estimate your testing response times, perform the following steps from a computer you plan to use for testing.

1. Navigate to your state's Portal site, log on, open the **All Applications** or **My Applications** menu bar, and select **General Information–Downloads**.

The screenshot shows the 'Test Setup General Information' page with the 'Downloads' tab selected. The page contains a table of software downloads. The table has the following columns: Title, Platform, Operating System, Version, and Action. The 'Capacity Estimator' is highlighted at the bottom of the table.

Title	Platform	Operating System	Version	Action
DRC INSIGHT iPad	Apple iOS	iOS 11.4, iOS 11.3, iOS 11.2, iOS 11.1, iOS 11.0	9.0.2	
The DRC INSIGHT iPad app is now available from the Apple App Store. Search for DRC INSIGHT.				
Online Assessments ID = Online Assessments Application URL	Chromebook	Chrome OS recent stable channel	8.0.0	
Use the application ID and URL to identify DRC INSIGHT in the Chrome Store for testing on Chromebook devices. Note: See 'Systems Requirements' for list of supported Chrome touch devices.				
DRC INSIGHT Linux Installer - 32 bit	Linux	Ubuntu 14.04 LTS, Ubuntu 16.04 LTD - with 32-bit Gnome 3.4 Unity Shell	8.0.0	
Use the installer above to download the DRC INSIGHT test engine.				
DRC INSIGHT Linux Installer - 64 bit	Linux	Ubuntu 14.04 LTS, Ubuntu 16.04 LTD - with 64-bit Gnome 3.4 Unity Shell	8.0.0	
Use the installer above to download the DRC INSIGHT test engine.				
DRC INSIGHT Mac Installer	Mac OS	10.10, 10.11, macOS Sierra 10.12, macOS High Sierra 10.13. Mac Server Software is not supported	8.0.0	
Use the installer above to download the DRC INSIGHT test engine.				
DRC INSIGHT Windows Installer	Windows	Windows 7, Windows 8.1, Windows 10, Windows Server 2016	8.0.0	
Use the installer above to download the DRC INSIGHT test engine. Note: See 'Systems Requirements' for list of supported Windows touch devices.				
Testing Site Manager (TSM) Installer - 32 bit	Linux	Ubuntu 14.04 LTS, Ubuntu 16.04 LTD - with 32-bit Gnome 3.4 Unity Shell	9.2.0_0	
Use the installer above to download the Testing Site Manager (TSM), which includes Content Caching and Response Caching. Note: The TSM should not be installed on mobile or touch-screen devices.				
Testing Site Manager (TSM) Installer - 64 bit	Linux	Ubuntu 14.04 LTS, Ubuntu 16.04 LTD - with 64-bit Gnome 3.4 Unity Shell	9.2.0_0	
Use the installer above to download the Testing Site Manager (TSM), which includes Content Caching and Response Caching. Note: The TSM should not be installed on mobile or touch-screen devices.				
Testing Site Manager (TSM) Installer	Mac OS	10.10, 10.11, macOS Sierra 10.12, macOS High Sierra 10.13. Mac Server Software is not supported	9.2.0_0	
Use the installer above to download the Testing Site Manager (TSM), which includes Content Caching and Response Caching. Note: The TSM should not be installed on mobile or touch-screen devices.				
Testing Site Manager (TSM) Installer - 32 bit	Windows	Windows 7, Windows 8.1, Windows 10, Windows Server 2016	9.2.0_0	
Use the installer above to download the Testing Site Manager (TSM), which includes Content Caching and Response Caching. Note: The TSM should not be installed on mobile or touch-screen devices.				
Testing Site Manager (TSM) Installer - 64 bit	Windows	Windows 7, Windows 8.1, Windows 10, Windows Server 2016	9.2.0_0	
Use the installer above to download the Testing Site Manager (TSM), which includes Content Caching and Response Caching. Note: The TSM should not be installed on mobile or touch-screen devices.				
Capacity Estimator	Excel	Microsoft Excel 2007 and later	3.1	
Use the installer above to download the Capacity Estimator. This tool estimates testing response times by using the number of students testing, as well as network capacity and utilization.				

2. From the Test Setup General Information page that appears, select the **Downloads** tab, locate the Capacity Estimator, and click the Download icon (). Depending on the browser you use, a dialog may display that you can use to specify a location to download the file.

Using the Testing Site Capacity Estimator (cont.)

3. Open the Testing Site Capacity Estimator you downloaded in steps 1 and 2, and use the **Using the COS Service Device Content Hosting** drop-down menu to indicate whether you are using a COS service Device with Content Hosting configured. You can select **Yes - At the Site**, **Yes - At the District**, or **No**.

You can click the **Help** icon (🔗) next to a field or menu to display help about the type of information to enter into the field or menu.

**Testing Site Capacity Estimator**

**Content Management Information**  
 Using COS Service Device for Content Hosting: **Yes - At the Site** (Help icon)

**Testing Volume Information**  
 Students Testing with Fixed-Form at the Same Time: **1000** (Help icon)  
 Students Testing with CAT at the Same Time: **100** (Help icon)  
 Accommodated Students Testing at the Same Time: **100** (Help icon)  
 Total Students Testing at the Same Time: **1200** (Help icon)  
 Estimated % of Students Starting the Test at Nearly the Same Time: **30%** (Help icon)  
 Estimated % of Students Responding at Nearly the Same Time: **10%** (Help icon)

**Network Information**  
 Internet Service Provider Connection Capacity: **10000** (Mbps) (Help icon)  
 Wide Area Network (WAN) Connection Capacity: **1000** (Mbps) (Help icon)  
 Local Area Network (LAN) Connection Capacity: **1000** (Mbps) (Help icon)  
 Testing Devices Average Connection Speed: **250** (Mbps) (Help icon)  
 Percent of Bandwidth Available for Testing: **80%** (Help icon)

**Launch of DRC INSIGHT**  
 Average Time to Download Test Engine: **13.21** Seconds

**Start of Test**  
 Average Time to Download a Fixed-Form Testing Form: **7.25** Seconds  
 Average Time to Download a CAT Form: **2.51** Seconds  
 Average Time to Download an Accommodated Testing Form: **3.65** Seconds

**During the Test**  
 Average Wait Time Between Fixed-Form Items: **0.26** Seconds  
 Average Wait Time Between CAT Form Items: **0.61** Seconds  
 Average Wait Time Between Accommodated Form Items: **2.11** Seconds

Performance Legend: Good Performance (Green), Marginal Performance (Yellow), Poor Performance (Red)

	Average Form Size per Test	Average Size of Each Response	Average Size of Next Item
Fixed-Form Test	2.0 MB	5.0 KB	N/A
Computer Adaptive Test	700.0 KB	5.0 KB	25.0 KB
TTS, VSL, HVA Accommodation	1.0 MB	5.0 KB	1.5 MB
Test Engine	3.6 MB		

Important: The Testing Site Capacity Estimator can only provide an estimate—it cannot factor in all possible variables and possible network traffic that can impact performance.

ver. 4.0.1

4. Enter your estimates for the applicable **Testing Volume** information:

- The number of students that will start testing at the same time with a fixed-form test.
- The number of students that will start testing at the same time with a CAT test.
- The number of students that will start testing at the same time with an accommodated (HVA, TTS, or VSL) test

The Testing Site Capacity Estimator will use this information to calculate the total number of students testing at the same time.

## Using the Testing Site Capacity Estimator (cont.)

**5.** Enter your estimates for the following **Testing Volume** information:

- The percentage of the students testing that will start testing at the same time.
- The percentage of the students testing that will send responses at the same time.

**Testing Site Capacity Estimator**

**Content Management Information**  
Using COS Service Device for Content Hosting:

**Testing Volume Information**  
 Students Testing with Fixed-Form at the Same Time:   
 Students Testing with CAT at the Same Time:   
 Accommodated Students Testing at the Same Time:   
 Total Students Testing at the Same Time:   
 Estimated % of Students Starting the Test at Nearly the Same Time:   
 Estimated % of Students Responding at Nearly the Same Time:

**Network Information**  
 Internet Service Provider Connection Capacity:  (Mbps)  
 Wide Area Network (WAN) Connection Capacity:  (Mbps)  
 Local Area Network (LAN) Connection Capacity:  (Mbps)  
 Testing Devices Average Connection Speed:  (Mbps)  
 Percent of Bandwidth Available for Testing:

**Launch of DRC INSIGHT**  
Average Time to Download Test Engine:  Seconds

**Start of Test**  
 Average Time to Download a Fixed-Form Testing Form:  Seconds  
 Average Time to Download a CAT Form:  Seconds  
 Average Time to Download an Accommodated Testing Form:  Seconds

**During the Test**  
 Average Wait Time Between Fixed-Form Items:  Seconds  
 Average Wait Time Between CAT Form Items:  Seconds  
 Average Wait Time Between Accommodated Form Items:  Seconds

Good Performance      Marginal Performance      Poor Performance

	Average Form Size per Test	Average Size of Each Response	Average Size of Next Item
Fixed-Form Test	2.0 MB	5.0 KB	N/A
Computer Adaptive Test	700.0 KB	5.0 KB	25.0 KB
TTS, VSL, HVA Accommodation	1.0 MB	5.0 KB	1.5 MB
Test Engine	3.6 MB		

Important: The Testing Site Capacity Estimator can only provide an estimate—it cannot factor in all possible variables and possible network traffic that can impact performance.

ver. 4.0.1

**6.** Enter your estimates for the following **Network Information**:

- The ISP connection capacity (in Mbps)
- The WAN connection capacity (in Mbps)
- The LAN connection capacity (in Mbps)
- The average testing device connection speed (in Mbps)
- The percent of bandwidth available for testing

**7.** The Testing site Capacity Estimator calculates the results and displays them in the seven output fields, which are color-coded based on the results. You can analyze the results, or enter new values in any of the input fields to recalculate the numbers

**Note:** These fields and the remainder of the interface are described on the following pages.

Using the Testing Site Capacity Estimator (cont.)

The Performance bar provides a graduated color legend for the various calculated values that display in the output fields.

Color	Performance Level for Testing
Green	Good
Yellow	Marginal
Red	Poor

In this example, the **Average Time to Download Test Engine** indicates Marginal Performance, the **Average Time to Download a Fixed-Form Testing Form** indicates Good to Marginal Performance, the **Average Wait Time Between Accommodated Form Items** indicates Poor Performance, and the remainder of the times indicate Good Performance. You can edit any of the input fields to recalculate the numbers.

**Testing Site Capacity Estimator**

**Content Management Information**  
Using COS Service Device Content Hosting: Yes - At the Site

**Testing Volume Information**  
 Students Testing with Fixed Form at the Same Time: 1000  
 Students Testing with CAT at the Same Time: 100  
 Accommodated Students Testing at the Same Time: 100  
 Total Students Testing at the Same Time: 1200  
 Estimated % of Students Starting the Test at the Nearly Same Time: 30%  
 Estimated % of Students Responding at the Nearly Same Time: 10%

**Network Information**  
 Internet Service Provider Connection Capacity: 10000 (Mbps)  
 Wide Area Network (WAN) Connection Capacity: 1000 (Mbps)  
 Local Area Network (LAN) Connection Capacity: 1000 (Mbps)  
 Testing Devices Average Connection Speed: 10 (Mbps)  
 Percent of Bandwidth Available for Testing: 80%

**Launch of DRC INSIGHT**  
 Average Time to Download Test Engine: 13.21 Seconds

**Start of Test**  
 Average Time to Download a Fixed Form Testing Form: 7.25 Seconds  
 Average Time to Download a CAT Form: 2.51 Seconds  
 Average Time to Download an Accommodated Testing Form: 3.65 Seconds

**During the Test**  
 Average Wait Time Between Fixed Form Items: 0.26 Seconds  
 Average Wait Time Between CAT Form Items: 0.61 Seconds  
 Average Wait Time Between Accommodated Form Items: 2.11 Seconds

Performance Legend: Good performance (Green), Marginal performance (Yellow), Poor Performance (Red)

	Average Form Size per Test	Average Size of Each Response	Average Size of Next Item
Fixed Form Test	2.0 MB	5.0 KB	0.0 KB
Computer Adaptive Test	700.0 KB	5.0 KB	25.0 KB
TTS, VSL, HVA Accommodation	1.0 MB	5.0 KB	1.5 MB
Test Engine	3.6 MB		

**Important:** The Capacity Estimator can only provide an estimate—it cannot factor in all possible variables and possible network traffic that can impact performance.

ver. 4.0

The data grid indicates the average form size for the various types of tests: Fixed-Form, CAT, and Accommodated (HVA, TTS, or VSL); as well as the average response size and next item size for each type of test and the size of the test engine software.

## Using the Testing Site Capacity Estimator (cont.)

The **Average Time to Download Test Engine** field indicates the time a tester will wait for the test engine software to download as they log in for testing.

**Testing Site Capacity Estimator**

**Content Management Information**  
Using COS Service Device for Content Hosting:

**Testing Volume Information**  
 Students Testing with Fixed-Form at the Same Time:   
 Students Testing with CAT at the Same Time:   
 Accommodated Students Testing at the Same Time:   
 Total Students Testing at the Same Time:   
 Estimated % of Students Starting the Test at Nearly the Same Time:   
 Estimated % of Students Responding at Nearly the Same Time:

**Network Information**  
 Internet Service Provider Connection Capacity:  (Mbps)  
 Wide Area Network (WAN) Connection Capacity:  (Mbps)  
 Local Area Network (LAN) Connection Capacity:  (Mbps)  
 Testing Devices Average Connection Speed:  (Mbps)  
 Percent of Bandwidth Available for Testing:

**Launch of DRC INSIGHT**  
Average Time to Download Test Engine:  Seconds

**Start of Test**  
 Average Time to Download a Fixed-Form Testing Form:  Seconds  
 Average Time to Download a CAT Form:  Seconds  
 Average Time to Download an Accommodated Testing Form:  Seconds

**During the Test**  
 Average Wait Time Between Fixed-Form Items:  Seconds  
 Average Wait Time Between CAT Form Items:  Seconds  
 Average Wait Time Between Accommodated Form Items:  Seconds

Good Performance      Marginal Performance      Poor Performance

	Average Form Size per Test	Average Size of Each Response	Average Size of Next Item
Fixed-Form Test	2.0 MB	5.0 KB	N/A
Computer Adaptive Test	700.0 KB	5.0 KB	25.0 KB
TTS, VSL, HVA Accommodation	1.0 MB	5.0 KB	1.5 MB
Test Engine	3.6 MB		

Important: The Testing Site Capacity Estimator can only provide an estimate—it cannot factor in all possible variables and possible network traffic that can impact performance.

ver. 4.0.1

The **Average Time to Download a Fixed-Form Testing Form** field indicates the time a tester will wait for a fixed-form test to load.

The **Average Time to Download a CAT Form** field indicates the time a tester will wait for a CAT test to load.

Using the Testing Site Capacity Estimator (cont.)

The **Average Time to Download an Accommodated Testing Form** field indicates the time a tester will wait for a accommodated test (HVA, TTS, or VSL) to load.

The **Average Wait Between Fixed-Form Items** field indicates the time a tester will wait for the next fixed-form item after they finish an item and click **Next**.

**Note:** This estimate is calculated using the value in the **Estimated % of Students Responding at Nearly the Same Time** field.

**Testing Site Capacity Estimator**

**Content Management Information**  
Using COS Service Device Content Hosting:

**Testing Volume Information**  
 Students Testing with Fixed Form at the Same Time:   
 Students Testing with CAT at the Same Time:   
 Accommodated Students Testing at the Same Time:   
 Total Students Testing at the Same Time:   
 Estimated % of Students Starting the Test at the Nearly Same Time:   
 Estimated % of Students Responding at the Nearly Same Time:

**Network Information**  
 Internet Service Provider Connection Capacity:  (Mbps)  
 Wide Area Network (WAN) Connection Capacity:  (Mbps)  
 Local Area Network (LAN) Connection Capacity:  (Mbps)  
 Testing Devices Average Connection Speed:  (Mbps)  
 Percent of Bandwidth Available for Testing:

**Performance Metrics:**

- Launch of DRC INSIGHT: Average Time to Download Test Engine:  Seconds
- Start of Test:
  - Average Time to Download a Fixed Form Testing Form:  Seconds
  - Average Time to Download a CAT Form:  Seconds
  - Average Time to Download an Accommodated Testing Form:  Seconds
- During the Test:
  - Average Wait Time Between Fixed Form Items:  Seconds
  - Average Wait Time Between CAT Form Items:  Seconds
  - Average Wait Time Between Accommodated Form Items:  Seconds

**Performance Legend:** Good performance (Green), Marginal performance (Yellow), Poor Performance (Red)

	Average Form Size per Test	Average Size of Each Response	Average Size of Next Item
Fixed Form Test	2.0 MB	5.0 KB	0.0 KB
Computer Adaptive Test	700.0 KB	5.0 KB	25.0 KB
TTS, VSL, HVA Accommodation	1.0 MB	5.0 KB	1.5 MB
Test Engine	3.6 MB		

**Important:** The Capacity Estimator can only provide an estimate—it cannot factor in all possible variables and possible network traffic that can impact performance.

ver. 4.0

The **Average Wait Between CAT Form Items** field indicates the time a tester will wait for the next CAT item after they finish an item and click **Next**.

**Note:** This estimate is calculated using the value in the **Estimated % of Students Responding at Nearly the Same Time** field.

The **Average Wait Between Accommodated Form Items** field indicates the time a tester will wait for the next accommodated test (HVA, TTS, or VSL) item after they finish an item and click **Next**.

**Note:** This estimate is calculated using the value in the **Estimated % of Students Responding at Nearly the Same Time** field.



# FAQs, Hints and Tips

## ■ What's Covered in This Section

This section contains a list of frequently asked questions (FAQs), as well as helpful hints and tips regarding configuring, installing, and using DRC INSIGHT and the Central Office Services (COS) Service Device (COS SD) software. The questions and answers are technical in nature and cover the following environments:

- Windows
- Macintosh (OS X or macOS)
- iOS (iPad devices)
- Chrome OS (Chromebook devices)

The FAQs and Hints and Tips are divided into various categories. In addition, the Common Technical Questions and Answers cover the common technical support issues you may encounter, and provide tips, techniques, and workarounds to resolve them.

## ■ General Questions

**Q1: Is there a way to provide a failover COS SD, or a quick way to redirect if a COS SD fails during the testing window?**

A: Because a COS SD is configured using COS configurations, it is possible to quickly switch COS SDs if necessary. You use the Central Office Services - Device Toolkit to select the ORG Unit in which the device is configured, add the new COS SD to the configuration, and then restart INSIGHT on the testing device. When INSIGHT restarts, it automatically uses the new COS SD.

**Q2: Do we use an .msi file for installation?**

A: The INSIGHT and COS SD installation file types vary by operating system:

- The Windows version uses an .exe file for the COS SD and an .msi file for INSIGHT.
- The Mac (OS X or macOS) version uses a .dmg file for the COS SD and a .pkg file for INSIGHT.
- The Linux version uses a .sh file for the COS SD and a .deb file for INSIGHT.

**Note:** Please ignore the Linux information if your state does not test using Linux.

- The iOS version uses an App Store app and a .plist file for INSIGHT.
- For Chrome, the INSIGHT App ID and URL is contained in a .txt file.

**Q3: Do we have to have a COS SD in each school, or can it be on a shared district server? If so, which approach do you recommend?**

A: It depends on your network's capacity and reliability. With a dedicated COS SD you can offload about 50% of the traffic from the Internet to your COS SD.

Because student computers need uninterrupted connectivity to the COS SD, we recommend one COS SD per school. But, you may be able to share a COS SD if you have enough network capacity.

## ■ General Questions (cont.)

**Q4: Do we need to go to each student's computer to enable automatic updates?**

A: No. Just remember to enable automatic updates when you configure the device in the Central Office Services - Device Toolkit (see *Volume II: Central Office Services [COS]*). After installation, INSIGHT automatically checks for software updates and installs them whenever it is launched.

**Q5: How are test responses received?**

A: The student logs in by connecting with DRC. Tests are sent directly from DRC and responses are sent directly to DRC. For more information, see *Volume I: Introduction to Online Testing*.

**Q6: How do I test that a COS SD is working?**

A: You can verify the status of a COS SD from the COS Dashboard (see *Volume II: Central Office Services [COS]*).

**Q7: Can we install INSIGHT on one central server/computer and use shortcuts, or other links, to share it for testing across different machines?**

A: No. DRC assumes that INSIGHT is installed on each computer that will be used for testing. Any other configuration is unsupported and may produce unexpected results.

**Q8. The sound for Text-To-Speech (audio) does not work. What should I do?**

A: Run the System Readiness Checks and verify that the sound (Audio Capability) is working (see *The System Readiness Check* in *Volume III: DRC INSIGHT*). Adjust the volume before testing.

## Common Technical Questions and Answers

This section describes detailed resolutions to common technical support issues you may encounter, as well as tips, techniques, and workarounds to resolve them.

### Question: How do I update test forms on an SD?

---

To check/update your test forms, do the following:

1. From the Portal, navigate to your testing program, open the **All Applications** or **My Applications** menu bar, and select **Central Office**.
2. Select a Testing Program and Site.
3. From the Configurations page, select the ORG Unit in which the SD is configured.
4. Select the **Content Management** tab to open the Content Management page. The various test administrations are listed in the Admin column.
  - If the test administration has a check mark next to it, you do not need to do anything. COS checks in with the DRC servers several times an hour and automatically uploads content to the SD.
  - If the test administration does not have a check mark next to it, place a check mark next to it and click **Update Configuration**.

**Note:** Depending on your network, the update can take a while. You can select the **SDs** tab to view the update progress of the SD in the Status column.

- If a new administration is discovered during the check-in process, it will be listed. If you want to update the new administration with TTS/HVA or VSL files, place a checkmark next to the appropriate accommodation and click **Update Configuration**.

**Note:** When you check an accommodation checkbox, a large amount of audio and/or video files will be downloaded. If no student testing requires the accommodation, do not check the checkbox.

5. Click **Update Configuration**. For details about this process, see *Working with Content Management* in *Volume II: Central Office Services (COS)*.

## Common Technical Questions and Answers (cont.)

### Question: Can we mass deploy test software to all student computers?

Yes, but the details vary depending on which technology you use for deployment and the operating system to which you deploy. Basically, you can configure the installer using arguments when you deploy it in a non-interactive or silent mode. For technical details, see [Modifying the Setup File](#).

#### Modifying the Setup File

You can modify the DRC\_INSIGHT\_Setup.msi installation file to install your software on many machines using different installation settings. To modify the file, you need the ORCA installer package from the Windows SDK for Windows Installer Developers. This package is available at the following location:

<http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=3138>

After installing the Windows SDK Components for Windows Installer Developers, double-click on **Orca.msi** to install the Orca.exe file.

To modify the setup file, do the following:

1. Start Orca.
2. Select **File–Open** and open the MSI installer.
3. Select **Property–Table** to open the Property table (see the figure below). Make all of your changes in this table.

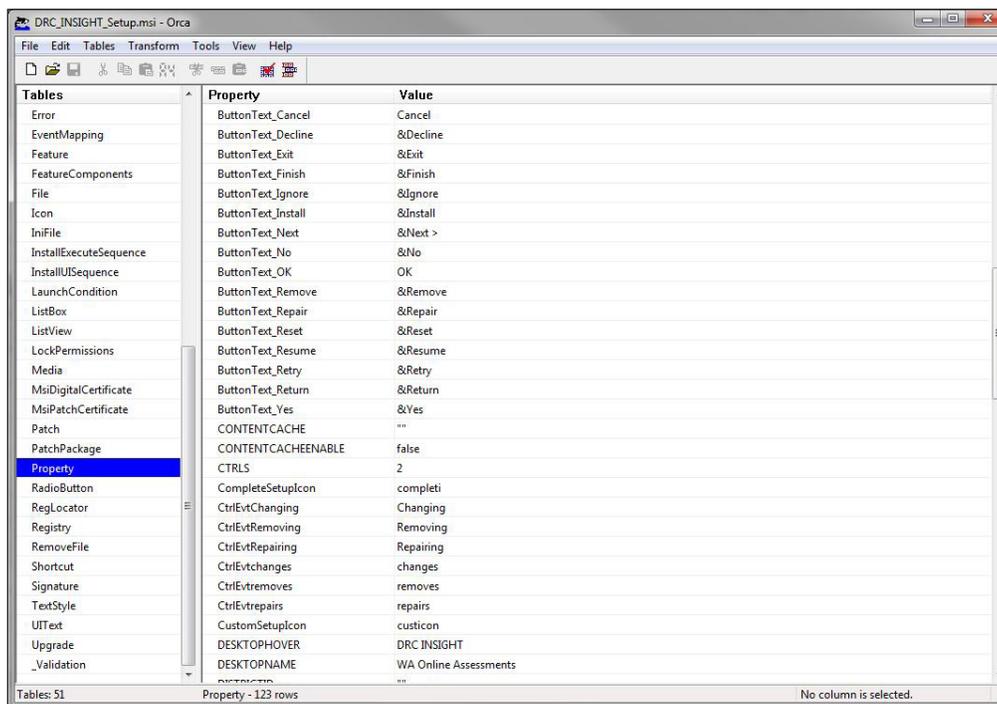


Figure: Property Table

## Common Technical Questions and Answers (cont.)

- The following are the different properties you can change. To make a change, double-click on the value of the property, enter your value, and click **Enter**.

.....  
**!** **Important:** Make sure that there are no spaces before your input—do not put spaces in front of any attribute that you modify.  
.....

### ouIds

The alphanumeric ORG Unit ID generated by the Central Office Services - Device Toolkit.

### httpsproxy

The URL and secure port of the proxy host server. Depending on your configuration, this URL can start with either http:// or https://.

- After you make your changes, save the file and overwrite the original DRC\_INSIGHT\_Setup.msi file.

## Silent Install Example

---

The following example shows the syntax you would use to install INSIGHT silently in Windows 7 machine.\*

```
DRC_INSIGHT_Setup.msi /qn
```

## Silent Uninstall Example

---

The following example shows the syntax you would use to uninstall INSIGHT silently in Windows 7 for a 32-bit and 64-bit machine.\*

```
msiexec /x DRC_INSIGHT_Setup.msi /qn
```

\*For Microsoft Windows 8, use /qb instead of /qn.

## ■ Testing Site Capacity Estimator Questions

### Q1. What is the Testing Site Capacity Estimator?

A: The Testing Site Capacity Estimator is an Excel spreadsheet file that is designed to help districts and schools estimate the time it will take students to download the tests and move to the next question after they send a response. These time estimates are based on the following factors:

- Whether COS Service Devices with Content Hosting turned on are being used on the network or at the site.
- The site's knowledge of the bandwidth provided by their Internet Service Provider (ISP), as well as the bandwidth provided by their Local Area Network (LAN) and Wide Area Network (WAN).
- The estimated average connection speed that testing devices have to the network
- The estimated percentage of total bandwidth that is available for testing

This tool helps sites plan their testing more effectively based on factors such as their network traffic, the number of students testing at the same time, and the type of test: a fixed-form test, with or without accommodations (HVA, TTS, or VSL), or a Computer-Adaptive Test (CAT).

⚠ **Important:** The Nebraskaexams are fixed-form only—CAT forms are not used for these exams.

### Q2. What information does the site have to supply?

A: The site must supply the following information:

- An indication of whether a COS Service Device is being used, either at the site level or the network level.
- An estimate of the number of students that will be testing at the same time for fixed-form, CAT, and accommodated tests, plus an estimate of the total number of students testing at the same time.
- Estimates for both the percentage of students starting the test at the same time and for students sending responses at the same time.
- The ISP connection speed.

## ■ Testing Site Capacity Estimator Questions (cont.)

- The WAN and LAN connection speeds.
- An estimate of the percentage of bandwidth that is currently available for testing.
- An estimate of the average connection speed for testing devices.
- An estimate of the percent of bandwidth available for testing.

Because testing is usually not the only process running on a network, each site must estimate how much capacity other processes are consuming, subtract that estimate from 100, and enter the result in the Percent of Bandwidth Available for Testing field.

### **Q3. Are the estimates for each student, or for all students testing?**

A: The various *average form download times* estimate the time required to download a test that *each student* will experience if *all* students start testing at the same time.

The various *average wait between item times* estimate times for *individual students* because students finish questions at different times.

**Note:** These calculations are conservative estimates because the Testing Site Capacity Estimator cannot factor all of the possible variables, including network and Intranet traffic, that can impact performance.

### **Q4. Is it possible to arrive at different estimates for these numbers using different software tools?**

A: Yes. Different software tools might connect to servers that are different distances away and use different Internet paths to reach those servers.

### **Q5. What does *students testing at the same time* mean?**

A: The various *students testing at the same time* numbers indicate the number of students in your school or district network who will download tests at roughly the same time (students who will start testing within a few seconds of each other). Because all students do not start a test at the same time, these numbers are used to estimate what would happen at maximum load. For details, see “The Testing Site Capacity Estimator” on page 9.

## ■ Testing Site Capacity Estimator Questions (cont.)

### Q6. What times does the Testing Site Capacity Estimator calculate?

A: The Testing Site Capacity Estimator uses the input values and estimates to calculate/estimate the following time values.

#### **Average Time to Download Test Engine**

The average time a tester will wait for the test engine software to download as they log in for testing.

#### **Average Time to Download a Fixed-Form Testing Form**

The average time required to download a fixed-form test.

#### **Average Time to Download a CAT Form**

The average time required to download a CAT test.

#### **Average Time to Download an Accommodated Testing Form**

The average time required to download a test form containing an audio or visual accommodation: HVA, TTS, or VSL.

#### **Average Wait Time Between Fixed-Form Items**

The average time required to save a response and load the next question for a fixed-form test.

#### **Average Wait Time Between CAT Form Items**

The average time required to save a response and load the next question for a CAT test.

#### **Average Wait Time Between Accommodated Form Items**

The average time required to save a response and load the next question for test containing an audio or visual accommodation: HVA, TTS, or VSL.

In addition to estimating these values, the Testing Site Capacity Estimator provides a color scale of each of the calculated values indicating the expected testing performance: Good (green), Marginal (yellow) or Poor (red).

## ■ Testing Site Capacity Estimator Questions (cont.)

### Q7. How would we use the Testing Site Capacity Estimator?

A: Here is an example. First, assume the following set of conditions.

1. You are using a COS Service Device with Content Hosting at the site.
2. Approximately 1000 students are testing using a fixed-form test at the same time, without accommodations.
3. Approximately 100 students are testing using a fixed-form test at the same time, with accommodations.
4. Approximately 100 students are testing using a CAT test at the same time, without accommodations.
5. About 30% of these students will start the test at the same time.
6. About 10% of these students will send their responses at the same time.
7. You have an ISP connection capacity of 10000 Mbps, a WAN connection capacity of 1000 Mbps, a LAN connection capacity of 1000 Mbps, the average connection speed for testing devices in the network is 10 Mbps, and 80% of the total bandwidth is available for testing.

After you enter these values in the Testing Site Capacity Estimator, the following results display:

- The **Average Time to Download Test Engine** is 13.21 seconds.
- The **Average Time to Download a Fixed-Form Testing Form** is 7.25 seconds.
- The **Average Time to Download a CAT Form** is 2.51 seconds.
- The **Average Time to Download an Accommodated Testing Form** is 3.65 seconds.
- The **Average Wait Time Between Fixed-Form Items** is .26 seconds.
- The **Average Wait Time Between CAT Form Items** is .61 seconds.
- The **Average Wait Time Between Accommodated Form Items** is 2.11 seconds.

## ■ Testing Site Capacity Estimator Questions (cont.)

The Testing Site Capacity Estimator color legend indicates that the Average Time to Download Test Engine is Marginal Performance, the Average Time to Download a Fixed-Form Testing Form is Good to Marginal Performance, the Average Wait Time Between Accommodated Form Items is Poor Performance, and the remainder of the times are rated as Good Performance.

Now, change the number of students testing with fixed-form from 1000 to 600 and the number of students testing with an accommodated test from 100 to 50, reducing the total number testing at the same time from 1200 to 750. The Testing Site Capacity Estimator provides the following results.

- The **Average Time to Download Test Engine** is now 8.35 seconds.
- The **Average Time to Download a Fixed-Form Testing Form** is now 4.55 seconds.
- The **Average Time to Download a CAT Form** is now 1.59 seconds.
- The **Average Time to Download an Accommodated Testing Form** is now 2.30 seconds.
- The **Average Wait Time Between Fixed-Form Items** is now .25 seconds.
- The **Average Wait Time Between CAT Form Items** is now .60 seconds.
- The **Average Wait Time Between Accommodated Form Items** is now 1.43 seconds.

The Testing Site Capacity Estimator color legend now indicates that all of these times are rated as Good Performance, except for the Average Wait Time Between Accommodated Form Items, which is rated as Marginal Performance. You can continue tweaking the numbers until you determine a suitable configuration. For details, see “The Testing Site Capacity Estimator” on page 9.

**■ iPad Questions****Q1: Can I install a COS Service Device on an iPad or Chromebook?**

A: A Service Device is used primarily to cache and manage test content. For various reasons, tablet devices (such as iPads) and Chromebooks do not provide a suitable environment for a Service Device. As a result, you must install the Service Device software on a Windows or Mac (OS X or macOS) computer, and connect to the Service Device when you install INSIGHT on the tablet device or Chromebook.

**Q2: Can the DRC INSIGHT iPad App be distributed without an MDM as an .ipa file using iTunes or other software/methods?**

A: Currently, the DRC INSIGHT App for iPads is available from the Apple App Store.

**Q3: Does DRC recommend any particular version of Mobile Device Management (MDM) software?**

A: No, there are many versions of MDM software, any of which will distribute INSIGHT. To configure INSIGHT using the MDM software, you must use a version that supports the Managed App Configuration feature (originated in iOS 7).

**Q4: Is iOS 10.3 supported?**

A: No, support was discontinued in July of 2018.

**Q5: Is an external keyboard required for testing with iPads?**

A: No.

**Q6: Is custom installation of the Apple virtual (internal) keyboard supported for testing?**

A: Yes—the internal keyboard does not display automatically during testing, but can be toggled on using an iPad function key. If you are testing with iOS 8 or higher be sure that students are using only an English keyboard.

## ■ Chromebook Questions

Chromebooks can be a secure platform for administering student assessments. When set up properly, these devices meet K–12 education testing standards. If configured according to Google specifications, Chromebooks can be set to disable students' access to browse the web during an exam in addition to disabling external storage, screenshots, and the ability to print. Google provides three scenarios for setting up Chromebooks for secure assessment, detailed at the link below:

<https://support.google.com/chrome/a/answer/3273084?hl=en>

If you need help setting up your Google Administrator account or enrolling Chromebooks, please contact Google directly.

**Q1: Of the three secure testing scenarios provided by Google, which one did DRC select and why?**

A: DRC developed the Chromebook INSIGHT application to meet the specifications of Google's Scenario 1 for delivery of secure assessments. Although each scenario prepares a Chromebook for secure testing, DRC selected Scenario 1 where the student takes an exam on the Chromebook using the DRC INSIGHT App in Single App Kiosk Mode. While the student tests, the INSIGHT App runs in a secure, full-screen mode. After the student exits the test, the Chromebook device can be used for any purpose, secure or otherwise—the Chromebook is only secured during testing with the DRC INSIGHT App.

### **Scenario 1**

DRC specifically selected Scenario 1 because:

- It is the only scenario that allows for fully secure assessment delivery (Single App Kiosk Mode).
- It allows the DRC INSIGHT App to communicate securely with a COS Service Device.
- It does not require locking down the device and dedicating it for assessment purposes. Students can use the Chromebook for other purposes when the INSIGHT App is not being used for testing.
- It provides students a full-screen environment (the only scenario that does).

## ■ Chromebook Questions (cont.)

### Scenario 2

In contrast, Google's Scenario 2 includes a restricted sign-in feature for secure assessment delivery, which assumes that the Chromebook will be used solely for testing purposes. When this feature is enabled, non-assessment sign on is not allowed. When this feature is not enabled, test administrators must maintain separate student profiles—assessment and non-assessment—to allow for additional restrictions needed during assessment sessions.

Scenario 2 requires a higher level of administration oversight (for example, creating accounts twice). And, it requires manual management of security permissions making it prone to user error that is difficult to detect. It also requires taking the test in the Chrome browser, or manually launching a non-kiosk application (essentially launching the user into a desktop session where they have access to one URL). Finally, the Chromebook device must be cleared of data (wiped) upon exiting the test.

### Scenario 3

In Scenario 3, Google's Public Session Kiosk Mode is used to limit user access to non-assessment-related features of the Chrome OS operating system. Using Scenario 3 negates the possibility of TSM integration and secure content delivery due to known conflicts with Chrome packaged Apps. In addition, there are other considerations with Scenario 3:

- The URL and taskbar at the bottom of screen are visible. This consumes screen space and means the test engine must scale down the test content.
- Students can open additional Chrome windows.
- Students can use a command line shell that allows access to another machine.
- Students can close the Chrome window while the test engine is running, instead of using **Pause–Exit** or **Review–End Test–Exit**. This could mean lost test responses.

## ■ Chromebook Questions (cont.)

### **Q2: Does DRC require users to log in to each Chromebook and write down the Device ID?**

A: No. For unregistered Chromebooks, use the Central Office Services - Device Toolkit to create DRC ORG Units, download the configuration file (.zip) using Chrome device management, and upload the chromeos.json file from the configuration file using Chrome device management. When the user starts the DRC INSIGHT App on the Chromebook, the Chromebook will be registered.

For Chromebooks that are already registered with the Central Office Services - Device Toolkit, if the Central Office Services - Device Toolkit configurations and Device IDs are still applicable, when INSIGHT is launched it will locate the Device ID from the Central Office Services - Device Toolkit and use the associated configuration.

**Note:** The System Readiness Check (available through a link on the DRC INSIGHT App main testing page) displays the Device ID on the System Information page.

### **Q3: Why does DRC require Google Apps for Education and the Google Administrator accounts?**

A: The DRC INSIGHT Chrome App requires Single App Kiosk mode to launch and ensure a secure testing environment on Chrome devices. Google Apps for Education and Chrome device management allow Chrome administrators to manage kiosk apps for multiple Chrome devices from a central console. This is the best approach to managing these devices in terms of efficiency and security.

DRC assumes that users have registered their Chromebooks as part of the initial implementation. Google specifies two additional requirements for secure testing using any of the three scenarios described in Q1:

- Google administrators must use Chrome device management to manage their Chrome devices from a single location.
- Google administrators must enroll each device in the school's domain.

## ■ Chromebook Questions (cont.)

**Q4: How is installing DRC INSIGHT different than installing other testing applications that districts may be using?**

A: The DRC INSIGHT Chromebook App is configured to be secure and deployed using Chrome device management and configured to work with the Service Device using the Central Office Services - Device Toolkit. For a different application, the process would not necessarily use a secure App or a Service Device. These processes rely on Chromebook user account or other settings to restrict access. Since there is no secure testing App for the Chromebook, these processes require a workaround to secure the testing sessions.

**Q5: Does the deployment or installation of DRC INSIGHT require the Chromebooks to be dedicated to testing for the duration of the assessment window?**

A: No, the Chromebook device is not dedicated to testing, but the secure DRC INSIGHT App is. The DRC INSIGHT App is the secure testing environment that the student accesses using a unique test ticket. After a student has finished a test and exits the DRC INSIGHT App, the student can execute other applications and use the Chromebook for other purposes. Test Administrators are responsible for monitoring testing and ensuring students are properly ending and submitting their tests.

**Q6: Does Google provide a method to mass deploy secure testing configurations to Chromebooks?**

A: Yes, Google has a feature that allows users to “push” a secure testing configuration using Chrome device management.

**Q7: How do I configure Chromebooks to work with DRC INSIGHT?**

A: DRC provides the Central Office Services - Device Toolkit that you can use to configure and manage your Chromebooks after you have registered them in your Chrome domain.

**Q8: Can I use DRC INSIGHT on a touch-enabled Chromebook?**

A: Yes, DRC supports certain touch-enabled devices (see the latest version of the *DRC INSIGHT Online Learning System Supported System Requirements*).

### ■ General Hints and Tips

The following are hints and tips for testing with iPad and Chromebook devices.

- Be sure to have a strong network connection, either Wi-Fi or direct Internet connectivity.
- Make sure the device's keyboard is set to US English.
- Make sure the devices are either fully charged or plugged in.
- Note that an optical drive is not required.
- Note that while you are running the DRC INSIGHT application, the system operates in Single App Kiosk Mode.
- Remember that DRC INSIGHT displays in landscape mode only.

### ■ iPad Hints and Tips

- Use the following finger tap/press to navigate DRC INSIGHT—**Show Version** = two fingers plus three taps.
- For calculators, click the **OK** button versus the Return key. Using the Return key on your keyboard will not work as an 'Enter' function.
- All iPad devices have a Sleep Mode setting. In Sleep Mode the screen goes black and users can touch any key to re-activate it, or press their home key and type in the device passcode (if applicable). The DRC INSIGHT timeout warning is not visible when an iPad is in Sleep Mode. To disable Sleep Mode, select **Settings-General-Auto-Lock** and select **Never**.

**Note:** School iPad profiles may not permit you to set this to Never.

- Smaller graphing and dragging elements may be difficult to track because the user's finger covers the item.
- The pinch-to-zoom in/out iOS gesture is supported; the swipe iOS gesture is not supported.
- The internal keyboard will not display during test execution. You can toggle it on using the appropriate iPad function key.
- The Audio starting point does not turn red when your finger gets close to touching it.

### ■ Chromebook Hints and Tips

- You must enroll a Chromebook in your Google domain account before using it with INSIGHT. As part of the enrollment process, Google uses the concept of ORG Units. These are not the same ORG Units that DRC uses in the Central Office Services - Device Toolkit.

To prepare for the Chromebook administration, please ensure that you have enrolled all of your Chromebooks in the Google Device Manager software. This software helps you manage your device configurations.

For more information about managing Chromebooks and setting up your basic Chromebook environment, see the topic [https://support.google.com/chrome/a/answer/1289314?hl=en&ref\\_topic=2935995](https://support.google.com/chrome/a/answer/1289314?hl=en&ref_topic=2935995).

If you need help setting up your Google Administrator account or enrolling Chromebooks, please contact Google directly.

- The Central Office Services - Device Toolkit manages the INSIGHT portion of the Chromebook device configuration process.
- When you use the Central Office Services - Device Toolkit to create DRC ORG Units and group Chromebooks, DRC assigns each Chromebook a Device ID. This Device ID is different than the serial number of the Chromebook.
  - Google uses the Chromebook's serial number to enroll the Chromebook in the Google domain.
  - DRC uses the Chromebook's Device ID to register the Chromebook in a DRC ORG Unit.

To help manage and organize your Chromebooks, keep track of the current Device ID.

- On your Chromebook, do not log in to your Google account if you want to access DRC INSIGHT. Because INSIGHT runs in Single App Kiosk Mode, you cannot access it after you have logged in to a Google account. If you attempt to start the INSIGHT App, an error message displays indicating that you are not in Single App Kiosk Mode. To access INSIGHT, log out of your Google account and start the INSIGHT App.

## Google/ Chromebook Plug-In Error

When students test using Chromebooks, the process generates communications to both Google Chrome and to DRC. When a student launches the INSIGHT app on the day of testing, INSIGHT attempts to reach Google Chrome to generate a new instance of INSIGHT on the Chromebook. If the communication to Google times out before this happens, a plug-in error occurs.

Districts with complex content filters, peer-to-peer networking, or deep packet inspection of Internet traffic in their network may have extra filtering, which can delay the communication to Google on the initial launch of INSIGHT and cause a plug-in error.

If your site experiences a Goggle plug-in error while testing with Chromebooks, you can use the steps/questions listed below to troubleshoot the process.

### **Basic Steps**

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- B1.** Reboot the device
- B2.** Wait for/confirm that you have a solid Internet connection
- B3.** Wait 30 seconds and reopen INSIGHT

### **Intermediate Steps**

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- I1.** Check the speedtest at [betaspeedtest.net](https://betaspeedtest.net)
- I2.** Check your whitelisting
- I3.** Check your access point-to-student ratio
- I4.** Verify how the school's WiFi policy handles "guest" (kiosk mode) Chromebook traffic
- I5.** Check the connection type in Google Admin for "Direct Connection"

### **Advanced Steps**

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- A1.** Check the content filter settings:
  - SonicWall and SmoothWall: Disable **Deep Packet Inspection through SSL**
  - LiteSpeed: Disable **Decrypt SSL**
  - iBOSS: Add Chromebook kiosk user exceptions. Can iBOSS whitelist URLs? If not, can iBOSS be disabled?
- A2.** Check the access point brand. If Cisco Meraki, disable layer 7 p2p filtering.



# Error Messages

### ■ What's Covered in This Section

This section describes the more common error messages you may encounter while installing, configuring, and using DRC INSIGHT, COS SDs, and the Central Office Services - Device Toolkit. It also provides recommendations to resolve them.

For some messages, there are references to a more detailed description of how to resolve the error.

### **Message: A Communication System Error has Occurred**

**Please raise your hand and wait for help.**

**A system error has occurred. Please contact DRC Customer support for assistance. Customer Support will request the information that is displayed when you click Details. You can copy this information and send it to DRC.**

**When you are ready, click OK to close this message.**

**Description:** A system communication error occurred while a student was testing in INSIGHT.

**What Should I Do?** Contact DRC Customer Support. If requested, click Details to display the troubleshooting details about this message. DRC Customer Support may request that you send this information to DRC.

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### **Message: Chromium OS version *xxxx.xx.x* is not supported by DRC INSIGHT**

**The version of the operating system on this testing device is not supported by the DRC INSIGHT team.**

**Description:** DRC INSIGHT cannot use the version of Chrome OS.

**What Should I Do?** Update the Chrome OS browser to version 66 or higher.

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### **Message: Configuration Error**

**Contact your technical resource and provide them with the following information: DRC INSIGHT cannot retrieve the configuration profile associated with this device because a device can only be actively assigned to one Device Toolkit ORG Unit for a testing program.**

**Description:** The Central Office Services - Device Toolkit is unable to uniquely identify the device because more than one ORG Unit ID exists for the device within the same testing program.

**What Should I Do?** Verify that the device has been assigned to only one ORG Unit per testing program on the device (see *Volume II: Central Office Services [COS]*).

### Message: Configuration Not Found

Contact your technical resource and provide them with the following information: DRC INSIGHT cannot retrieve the configuration profile associated with this device because it cannot find the Device Toolkit ORG Unit ID which was entered incorrectly, was deleted, or was not assigned to the device.

**Description:** One of the following situations has occurred:

- The Central Office Services - Device Toolkit ORG Unit was deleted after the device was assigned to it.
- The Central Office Services - Device Toolkit ORG Unit ID was not uploaded.
- The Central Office Services - Device Toolkit ORG Unit ID was entered incorrectly.
- The Central Office Services - Device Toolkit ORG Unit ID was not set up in Chrome Management (or in a Mobile Device Management [MDM] solution).

**What Should I Do?** Verify that the device has been assigned to a configuration in the Central Office Services - Device Toolkit and that the ORG Unit ID has been uploaded to this device. After you have the correct ORG Unit information, click **Assign Device to ORG Unit** and enter the correct ORG Unit ID (see *Volume II: Central Office Services [COS]*).

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### Message: Connection Error

This computer cannot connect to the local Content Management and/or content Hosting server(s). The connection or the content must be restored before the user can continue testing. If this is the first time you are seeing this message, please try connecting again. Please contact your local IT staff to verify network and local Content Management and/or content Hosting server(s) are working. They can contact DRC Customer Support if they need additional help to resolve the matter.

**Description:** The testing client is not able to connect to the COS SD. This connection error occurred while trying to login.

**What Should I Do?** Verify that you can reach the COS SD. If the issue persists check your COS SD's firewall and the whitelisting on your firewall, content filter, proxies and other network devices.

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### Message: Connection Error Retrieving Content

**This computer cannot connect to the server to retrieve content. The connection or the content must be restored before the student can continue testing. Please contact your local IT staff to verify that the network connection is working. They can contact DRC Customer Support if they need additional help to resolve the matter.**

**Description:** The testing client is not able to connect and download the test form from the COS SD. This connection error occurred while trying to download the form.

**What Should I Do?** Verify that all the forms are up to date and that the testing client can reach the COS SD.

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### Message: Connection Error Retrieving Content

**Please contact your local IT staff to verify network connection is working. They can contact DRC Customer Support if they need additional help to resolve the matter.**

**Description:** The testing client is not able to connect and download the test form from DRC. This connection error occurred while the client was trying to download the form.

**What Should I Do?** If the issue persists check your whitelisting on your network devices and prioritize testing traffic. If possible allow testing traffic to bypass as many network devices as possible. Ensure that bandwidth is not being completely consumed. If you are using an COS SD, verify the whitelisting and firewalls to and on the COS SD (see *Volume I: Introduction to Online Testing*).

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### **Message: Connection Retry is in Progress**

**You are experiencing a temporary network connectivity issue. The system is attempting to reconnect.**

**If the system reconnects, this message closes and you can continue testing. If the system cannot reconnect, the message closes, an Internet Connection Error message displays, and you have to exit DRC INSIGHT.**

**If you want to exit the test now, select the Exit the Test button.**

**Description:** The connection necessary to transmit test response has been lost during testing. For the next five minutes, while this message is displayed, INSIGHT will attempt to restore contact with the DRC servers and send the test response. During this time, if a connection is re-established, the message will close and the tester can continue testing. If a connection is not re-established during this time, the message will close and the Internet Connection Error message will display. At any time during the five-minute interval, the test proctor can click **Exit the Test** to temporarily end testing for the tester.

### **What Should I Do?**

- If the message disappears and no Internet Connection Error message displays, you do not need to do anything—the tester can resume testing.
- If the message disappears and the Internet Connection Error message displays, the tester must discontinue testing, exit INSIGHT, and can resume testing on a different testing device (see the “Internet Connection Error” message above).
- If you click **Exit the Test** while the Network Connectivity Issue message is displayed, the test ends and the tester must re-enter the test. All of their testing information will be saved and the tester can resume testing using the same testing device at the same point in the test.

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### **Message: Could Not Retrieve Testing Information**

**Possible connection error while attempting to retrieve device configuration.**

**Description:** INSIGHT is unable to determine the identity of the device.

**What Should I Do?** Check your network connection and retry. Verify that the device is registered in the Central Office Services - Device Toolkit (see *Volume II: Central Office Services [COS]*).

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### Message: Device Registration

**A device cannot be actively registered to more than one Device Toolkit ORG Unit for the same testing program.**

**Description:** The Central Office Services - Device Toolkit is unable to uniquely identify the device because more than one ORG Unit ID exists for the device within the same testing program.

**What Should I Do?** Verify that the device has been assigned to only one ORG Unit per testing program in the Central Office Services - Device Toolkit and that one or more ORG Unit IDs have been uploaded to this device. After you have the correct ORG Unit information, click **Assign Device to ORG Unit** and enter the correct ORG Unit ID (see *Volume II: Central Office Services [COS]*).

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### Message: Download Of Upgrade Failed

**Your upgrade failed because the download was unsuccessful.**

**Description:** The testing client tried to upgrade but was unable to download the update.

**What Should I Do?** Try one or more of the following actions:

- Retry the update.
  - Verify your whitelisting settings.
  - Manually update the testing client.
- 
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### Message: Failed to Load Device Information

**A communication error occurred. Click Reload to try again or Cancel to cancel the process.**

**Description:** Because of a network communication error, the device information was not loaded from the Central Office Services - Device Toolkit.

**What Should I Do?** Wait a few seconds and click **Reload** to retry the process. If the network problems persist, click **Cancel** and contact your network administrator (or try again later).

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**Message: Guided Access Is Not Enabled**

**Please raise your hand and wait for help.**

**Description:** Guided Access is either not set up or not working on the iPad device.

**What Should I Do?** Try starting Guided Access on the iPad device (see *Volume III: DRC INSIGHT*).

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**Message: Internet Connection Error**

**There has been an interruption in Internet connection. The student may be moved to another computer to continue testing. If this error persists, contact your local IT staff to verify network and Internet connections are working. They can contact DRC Customer Support if they need additional help to resolve the matter.**

**Description:** There was an interruption in the Internet connection and the testing client was unable to reach DRC.

**What Should I Do?** Click **OK** to close INSIGHT. Move the student to a different testing device to continue testing. If the issue persists, check whitelisting on your network devices and prioritize testing traffic. Allow testing traffic to bypass as many network devices as possible. Ensure that the bandwidth is not being completely consumed.

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**Message: *Operating System version is not supported by DRC INSIGHT***

**Please raise your hand and wait for help.**

**This version of the operating system on this testing device is not supported by the DRC INSIGHT team. Please contact DRC Customer Support if you have questions. Select Exit to return to the Test Sign In page.**

**Description:** DRC INSIGHT will not work with the version of the operating system that is currently installed on the testing device.

**What Should I Do?** Install a supported version of the operating system or select a different testing device on which to test.

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**Message: Registration Failed**

**The registration was unsuccessful**

**The registration failed because the Device Toolkit ORG Unit ID does not exist. Click Back to re-enter the ORG Unit ID.**

**Description:** DRC INSIGHT was unable to register the device because it could not find the device's Central Office Services - Device Toolkit ORG Unit ID.

**What Should I Do?** Verify that you have the correct ORG Unit ID for the device, click **Back**, and re-enter the ORG Unit ID.

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## Error Messages

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### **Message: Session Ended**

**Another session has been activated with this student's login. Please confirm the student is using their assigned login. If the student is actively testing on another computer, click OK. Please contact DRC Customer Support if you need additional help to resolve this matter.**

**Description:** Someone else has logged in with the same credentials on another computer.

**What Should I Do?** Verify that the student is using the correct testing credentials and that another student is not using them and have the student log in again.

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### **Message: Session Inactive. Please raise your hand and wait for help.**

**Your session has been ended due to inactivity. Any test responses you submitted will be stored. Click OK to return to the log-in page.**

**Description:** The student's test session ended due to inactivity.

**What Should I Do?** If the student needs to continue testing, have them click OK to return to the log-in page and log in again using his or her log-in credentials.

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### **Message: Session Status Outside Window**

**Testing is currently unavailable. Please contact an administrator.**

**Description:** The test ticket that is being used to log in to the test is in a test session for which the window is not active.

**What Should I Do?** Move the student to a test session in an appropriate testing window.

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**Message: The device's operating system has been updated and is in the process of being certified by DRC.**

**The DRC INSIGHT application should perform as intended, but if you have questions, please contact your Technology Coordinator.**

**This device is using OS version xxxxx**

**Description:** The operating system on the testing device is valid, but the version or level of the operating system has not been fully tested by DRC.

**What Should I Do?** You are allowed to test with this version, but DRC recommends that you use a fully tested and supported level of the operating system.

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**Message: Your Client Attempted To Access An Invalid URL**

**Your session has been ended because your client tried to access an unsupported address.**

**Please click the OK button to proceed.**

**Description:** The client is pointed to the wrong URL.

**What Should I Do?** The issue is often caused by incorrect forwarding by either the router DNS or the ISP. For the correct URLs, refer to *Volume I: Introduction to Online Testing*.

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**Message: Your Client Failed The Readiness Check**

**Your session has been ended because your client is not supported. Please click the OK button to proceed. It is possible that the browser that you are using is unsupported. Please download the latest version of Chrome.**

**Description:** The testing client has failed a System Readiness Check test.

**What Should I Do?** Use the System Readiness Check to see which test failed and fix the issue. This error can be caused by issues such as an invalid operating system or incorrect screen resolution.

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**Message: Your Client Is Out Of Date**

**Your session has been ended because your client is out of date. We will now attempt an upgrade.**

**Description:** The testing client is out of date. If Auto Update is enabled, it will now run.

**What Should I Do?** If you enabled Auto Update, it will run now. Otherwise, enable and run Auto Update, or install the update manually.

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**Message: Your Client Is Out Of Date**

**Your session has ended because your client is out of date. The latest version must be downloaded prior to students testing.**

**Description:** The testing client is out of date. Auto Update is not enabled, so you must update the testing client manually.

**What Should I Do?** You did not enable Automatic Updates. Enable and run Automatic Updates or install the update (upgrade) manually.

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### Message: Your Device Has Not Been Registered

**The Chromebook device was already registered in the DRC INSIGHT Device Toolkit.**

**Description:** Because the Google Admin Console setting for Erase all local user info, settings, and state after sign-out was accidentally set to Erase all local user data after each sign-out, the Chromebook was registered successfully, but the registration was lost/deleted when the Chromebook was restarted.

**What Should I Do?** Verify that the setting for Erase all local user info, settings, and state after sign-out in the Google Admin Console is set to Do not erase all local user data (see below).

User Data   
Locally applied

Erase all local user info, settings, and state after each sign-out

Do not erase all local user data ▼

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### Message: Your Testing Session Has Been Stopped

**The testing session has been terminated due to inactivity. Please close all other applications or browser sessions that may be open and re-log in to the test.**

**Description:** The DRC INSIGHT Test Engine monitors whether a tester leaves the secure testing experience of the DRC INSIGHT Secure Browser without exiting the test normally. If a tester leaves the test environment outside of the normal and allowed methods, this error message displays and the tester's test session is closed. For example, if a tester attempts to open a virtual desktop or to toggle to one during a test, the DRC INSIGHT Secure Browser will detect this activity and end their test session. At the same time, the DRC INSIGHT Test Engine logs events to record this situation.

**What Should I Do?** Determine what caused this message to display and shut down or remove access to any applications or browser sessions that the tester may have been able to access during their test session. If necessary, move the tester to a different testing device. The tester must log in again to continue testing.

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# Notes



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