ES&S
DS200
System Operations Procedures

Document Version 7.0
Hardware Version 1.2
Firmware Version 1.6.1.0
August 7, 2012

Election Systems and Software, LLC
Corporate Headquarters
11208 John Galt Blvd.
Omaha, Nebraska 68137
United States of America
Phone: (402) 593-0101
Toll Free Inside of U.S.: (877) 377-8683
Fax: (402) 970-1267
http://www.essvote.com
Copyright © 2012 All Rights Reserved
This document, as well as the product described in it, is furnished under license and may be used or copied only in accordance with the terms of such license. The content of this document is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by Election Systems & Software, LLC. Election Systems & Software, LLC, assumes no responsibility or liability for any errors or inaccuracies that may appear in this document. Except as permitted by such license, no part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, recording, or otherwise, without the prior written permission of Election Systems & Software, Inc.

Disclaimer

Election Systems & Software does not extend any warranties by this document. All product information and material disclosure contained in this document is furnished subject to the terms and conditions of a purchase or lease agreement. The only warranties made by Election Systems & Software are contained in such agreements. Users should ensure that the use of this equipment complies with all legal or other obligations of their governmental jurisdictions.

All products described in this document are registered trademarks of Election Systems & Software LLC. All other products mentioned are the sole property of their respective manufacturers.

Proprietary Information

ES&S has identified and appropriately marked relevant portions of this document, which it considers confidential and proprietary. We request confidential treatment by the EAC of such information and would expect that such information is exempt from required disclosure. In the event that a third party requests disclosure of information which ES&S considers confidential and proprietary, we would ask that the EAC notify ES&S of such requested disclosure in order to provide us with an opportunity to seek exemption from disclosure.

The document sections referenced below contain Election Systems and Software, LLC (ES&S) confidential information, which is provided for the sole purpose of permitting the recipient, to evaluate the ES&S Voting System submitted herewith. The following sections are designated as “Proprietary and Confidential” by Election Systems & Software.

<table>
<thead>
<tr>
<th>Proprietary Document Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
NOTICE OF UNCERTIFIED FUNCTIONALITY

This document is designated for use with the Unity 3.4.0.0 voting system, which has been tested to the standards of the 2002 Voting System Standards (VSS) to include a limited system configuration and feature set. Please be advised that this system and associated documentation includes functionality and descriptions of functionality that have not been fully tested or certified to the VSS.

The products and/or system features designated below HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

UNCERTIFIED PRODUCTS

❖ System Hardware
  • iVotronic DRE Precinct Tabulator

❖ System Software
  • Unity Data Acquisition Manager
  • Unity iVotronic Ballot Image Manager

If your jurisdiction requires voting system certification at the Federal level or you have questions about your jurisdiction’s certification requirements, please refrain from using the products and system features listed above until you have received approval from your State Election Authority. USE OF ANY UNCERTIFIED SYSTEM FEATURES NOTED ABOVE WILL NEGATE THE UNITY 3.4.0.0 EAC FEDERAL CERTIFICATION. ES&S shall not be held responsible for any unauthorized use of the foregoing products and system features.

Please visit www.eac.gov for more information regarding United States Federal voting system certification requirements and procedures. Contact the Elections Authority for your jurisdiction with any questions about your local laws and requirements.
THIS PAGE WAS INTENTIONALLY LEFT BLANK
Table of Contents

Introduction ................................................................................................................................. 1

Chapter 1: Introduction .................................................................................................................. 2
   Contact ES&S for Technical Support ...................................................................................... 2
   Facilities, Furnishings and Fixtures Required for DS200 Operation ........................................ 3
   Specifications and Cautions ...................................................................................................... 4
   System Acquisition Procedures .............................................................................................. 6
      Visual Inspection: ............................................................................................................. 6
      Physical Inspection: ......................................................................................................... 6

Chapter 2: Safety Information ..................................................................................................... 8
   Warning Symbols .................................................................................................................. 8
   Power Sources ..................................................................................................................... 8
   Ventilation ............................................................................................................................ 9
   Water and Moisture .............................................................................................................. 9
   Cleaning ............................................................................................................................... 9
   Heating ................................................................................................................................ 9
   Power Cord Protection ......................................................................................................... 9
   Service .................................................................................................................................. 10
      Damage Requiring Service ............................................................................................. 10
      Battery Replacement Warning ....................................................................................... 10

Chapter 3: Introduction to the DS200 ....................................................................................... 11
   Power Source and Backup Battery ....................................................................................... 12
      Ballot Box ......................................................................................................................... 14
   Scanning Ballots ................................................................................................................... 15
      USB Flash Drive ............................................................................................................. 16
      Touch Screen Controls .................................................................................................... 16
      Menu Display .................................................................................................................. 16
      Keyboard Entry Screen ................................................................................................... 19
   Operating Modes ................................................................................................................ 19
   Administration Mode .......................................................................................................... 20
   Polls Open Mode .................................................................................................................. 20
   Polls Closed Mode .............................................................................................................. 20
   Election Definition .............................................................................................................. 21
   Roles .................................................................................................................................... 21

Quick Start Guide ...................................................................................................................... 22

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
   ● iVotronic DRE iUnity Data Acquisition Manager (DAM) iUnity iVotronic Ballot Image Manager (IVIM)
   USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S DS200 System Operations Procedures v. 1.6.1.0
ES&S
August 7, 2012
# Table of Contents

## Chapter 4: DS200 Quick Start Guide ................................................................. 23
- Attach the DS200 to the Ballot Box .................................................... 23
- Open the Polls ...................................................................................... 27
- Close the Polls ...................................................................................... 30

## Election Tasks ............................................................................................. 32

## Chapter 5: Pre-Election Day Tasks ............................................................... 33
- Recommended Supplies ........................................................................ 33
- Ballot Box ......................................................................................... 34
  - Assemble the Ballot Box .................................................................. 34
  - Attach the DS200 Power Source to the Ballot Box ......................... 37
  - Attach the DS200 to the Ballot Box ................................................ 40
  - Attach the DS200 to the Metal Ballot Box ..................................... 43
- Seals and Locks ..................................................................................... 46
  - DS200 Seals and Locks ................................................................... 46
  - DS200 Carrying Case and Ballot Bin Security Seals ....................... 47
  - **Steel Ballot Box Seals** ................................................................ 48
- Prepare the Counter ............................................................................... 49
  - Charge the Battery .......................................................................... 49
  - Load the Election Definition ........................................................... 50
  - Check the Election Definition for Accuracy .................................... 51
  - Administration Menu ........................................................................ 52
  - Change Date and Time Settings ...................................................... 54
- Test the Election Definition ................................................................. 56
- Test the Thermal Printer ...................................................................... 59
- Set Data Transmission Code on DS200 ............................................... 59
- Pre-Voting Checklist ........................................................................... 62

## Chapter 6: Election Day Tasks ...................................................................... 63
- Open the Polls ...................................................................................... 63
  - Use the DS200 For Early Voting ...................................................... 65
- Multi-Language Support ...................................................................... 70
  - Multi-Language Support - Ballot Messages .................................... 71
- Write-in Votes ....................................................................................... 72
  - View Write-in Votes on a USB Drive .............................................. 72
- Close the Polls ...................................................................................... 73
- Reopen the Polls ................................................................................... 73

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE iUnity Data Acquisition Manager (DAM) iUnity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE iUnity Data Acquisition Manager (DAM) iUnity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Table of Contents

After the Election ............................................................................................................... 111

Chapter 9: Reports ........................................................................................................... 112
  Results Reports .................................................................................................................. 112
  Report Format ................................................................................................................... 112
  Election Startup Reports ................................................................................................. 112
    Initial State Report ........................................................................................................ 113
    Zero Totals Report and Certification Report ................................................................. 115
  Poll Closing Reports ....................................................................................................... 116
    Status Report ................................................................................................................ 117
    Precinct Report ............................................................................................................. 118
    Poll Report ................................................................................................................... 119
    Audit Log Report .......................................................................................................... 120
    Ballot Styles Report ..................................................................................................... 121
  Diagnostic Reports .......................................................................................................... 122
    Debug Report ............................................................................................................... 123
    Configuration Report .................................................................................................... 124

Chapter 10: Maintaining the Counter ............................................................................. 126
  Clean the Scanner ............................................................................................................ 126
  Clean the Ballot Box ....................................................................................................... 128
  Replace the Paper Roll ................................................................................................... 129
  Test the Thermal Printer ................................................................................................. 131
  Maintain the Scanner Battery .......................................................................................... 132
    Battery Cautions ........................................................................................................... 133
    Charge the Battery ....................................................................................................... 133

Appendix ............................................................................................................................. 134

Chapter 11: System Messages ......................................................................................... 135

Chapter 12: Troubleshooting ........................................................................................... 171
  Temporary Ballot Storage Bin ......................................................................................... 171
  Recovering or Replacing the DS200 .............................................................................. 171
  Calibrate the Screen ....................................................................................................... 172

Chapter 13: Load New Firmware onto the DS200 .......................................................... 175

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
  - iVotronic DRE iUnity Data Acquisition Manager (DAM) iUnity iVotronic Ballot Image Manager (IVIM)

  USE OF ANY UNCERTIFIED SYSTEM NEGLIGENCE THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
# Table of Contents

**Chapter 14: Miscellaneous Information** ................................................................. 177  
DS200 USB Flash Drive Memory Structure ................................................................. 177

**Chapter 15: Revision History** .................................................................................. 182

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE iUnity Data Acquisition Manager (DAM) iUnity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

---

ES&S DS200 System Operations Procedures v. 1.6.1.0  
August 7, 2012
Part 1: Introduction

Part 1 contains information about the following topics.

- Chapter 1: Introduction
- Chapter 2: Safety Information
- Chapter 3: Introduction to the DS200
Chapter 1: Introduction

The DS200 precinct ballot scanner is part of a jurisdiction-wide election tabulating system. Each scanner can process ballots for up to ten precincts. Voters insert their ballots directly into the DS200 at the polling place. The touch-screen scanner tabulates votes and feeds inserted ballots into an attached ballot storage bin.

Election law and procedures vary from jurisdiction to jurisdiction. Use the procedures in this manual in conjunction with the election policies and guidelines for your jurisdiction to develop a comprehensive election strategy.

Contact ES&S for Technical Support

The *DS200 System Operations Procedures* contains comprehensive instructions for using the tabulator and descriptions of all scanner functions. If you require additional assistance or encounter a processing problem or system error, contact the ES&S technical support staff for advice or assistance.

Stay close to your scanner when you contact ES&S for support. Also, be prepared to provide the following information to the ES&S support representative:

1. The model number of your tabulator.
2. The version number of the firmware installed on the tabulator.
3. The exact wording of any messages displayed by the scanner.
4. A description of what happened to cause the problem.

Support representatives normally answer calls Monday through Friday between 7:00 A.M. and 7:00 P.M. central time. ES&S support services are subject to the prices, terms, and conditions in place at the time the service is used.

**Contact an ES&S Support Representative**

<table>
<thead>
<tr>
<th>Telephone:</th>
<th>877-377-8683 (USA &amp; Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>402-593-0101 (International)</td>
</tr>
<tr>
<td>Fax:</td>
<td>402-970-1267</td>
</tr>
<tr>
<td>Write:</td>
<td>Election Systems &amp; Software</td>
</tr>
<tr>
<td></td>
<td>11208 John Galt Blvd.</td>
</tr>
<tr>
<td></td>
<td>Omaha, NE 68137 USA</td>
</tr>
</tbody>
</table>

 NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

* iVotronic DRE
* Unity Data Acquisition Manager (DAM)
* Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Facilities, Furnishings and Fixtures Required for DS200 Operation

The DS200 is a precinct count tabulator. The weight of the DS200 is about 25 pounds. The weight of the carrying case is about 10 pounds. The weight of the plastic ballot box is 37 pounds. The weight of the metal ballot box without a ballot diverter is 103 pounds. The weight of the metal ballot box with a diverter is 107 pounds.

- At the polling place, the DS200 should be placed on top of its ballot box. Leave a minimum of 36 inches to each side of the DS200 for wheelchair accessibility.

**Warning:** Do not transport the DS200 while attached to the metal ballot box. The DS200 should be delivered separately in the tabulator’s storage and transport case and attached to the metal ballot box at the polling location.

- A standard 110V outlet must exist in the facility for power cord plug in. The DS200’s input rating is 120V~50/60 Hz 2A. The main supply voltage fluctuations are not to exceed plus or minus 10 percent of the rated supply voltage area. It is recommended that the unit is plugged directly into a power supply without the use of an extension cord.

- The DS200 is intended for indoor use only.

- Operational humidity during operations should be between 10 - 88 percent RH.

**Warning:** Do not place containers with liquids such as coffee, water or soda on or near the DS200. Do not operate the scanner in an excessively wet environment. Store the DS200 in a cool dry place. The DS200 is not protected against harmful ingress of moisture.

- The DS200 needs to be stored and operated in a Pollution Degree 2 environment.
### Specifications and Cautions

#### Indoor Use Only

- Ordinary Protection (not protected against harmful ingress of moisture)

#### At the polling place, the DS200 should be placed on top of its ballot box. Leave a minimum of 36 inches to each side of the DS200 for wheelchair accessibility.

#### Weight:
The weight of the DS200 is about 25 pounds. The weight of the carrying case is about 10 pounds. The weight of the plastic ballot box is 37 pounds. The weight of the metal ballot box without a ballot diverter is 103 pounds. The weight of the metal ballot box with a diverter is 107 pounds.

#### Electrical input rating:
A standard 110V outlet must exist in the facility for power cord plug in. The DS200’s input rating is 120V~50/60 Hz 2A. The main supply voltage fluctuations are not to exceed plus or minus 10 percent of the rated supply voltage area. It is recommended that the unit is plugged directly into a power supply without the use of an extension cord. Consult a licensed electrical contractor for proper electrical connections.

#### Pollution Degree 2 for the ambient environment

#### Operating relative humidity:
- 10% to 50% Relative Humidity

#### Storage relative humidity:
- 10% to 85% Relative Humidity

#### Operating temperature:
- +60 to +100 degrees Fahrenheit

#### Storage temperature:
- 0 to +120 degrees Fahrenheit

#### Maintenance:
For applicable maintenance items, refer to the DS200 System Maintenance Manual.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Specifications and Cautions

| Caution: The interior of the DS200 is not accessible to the user. Service operations inside the electrical enclosure must be done by trained and authorized personnel. |

| DS200 Dimensions: |
| Stored configuration |
| • Width - 14 inches |
| • Depth - 16 inches |
| • Height - 5 inches |
| Operation state with screen deployed |
| • Width - 14 inches |
| • Depth - 16 inches |
| • Height - 13.5 inches |
System Acquisition Procedures

The following is a recommended list of the DS200 Acceptance Testing Criteria.

Visual Inspection:
- Ensure that there are no scratches or gouges on any part of the unit
- Verify that all labels are placed in their appropriate place and in their correct orientation
- Ensure the Printer paper roll is installed in the Printer.

Physical Inspection:
- Apply AC to Wall Power Adapter. Connect Wall Power Adapter to the back of the unit and press the “POWER” button.
- Observe the rear LED, located next to the Wall Power Adapter Cord Connector, if the LED is amber and blinking slowly this indicates that the Battery Pack is charging. If the LED is a solid green, the Battery Pack is completely charged.
- Verify AC Plug Icon is present and the indicator shows a light blue and dark blue plugged together in the right corner of the screen.
- Verify the DS200 Firmware, PMB and Scanner version on the Configuration Report.
- Insert the USB Flash Drive containing a Demo or specific election into the USB port inside the access door
  - After you insert an election definition and start the scanner, the message, “Election Definition Found” appears on the screen
- Access the Administration Menu to not only calibrate the scanner but complete other set up tasks also.
- Once you load the election definition, the scanner must be calibrated to identify the election settings from the Flash Drive.
  - Press the Go to Admin button in the lower-right hand area of the screen.
  - Enter the password and press the Enter Key.
  - From the Administrative Menu on the left hand side of the screen, choose System Settings.
  - Press Calibrate Scanner then Continue to begin the process.
  - Once the scanner has finished calibrating, press CONTINUE to return to the System Setting screen.

**NOTICE OF UNCERTIFIED FUNCTIONALITY**
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Check the date and time on the top portion of the display to ensure the date and time is correct.

- Press the **Go to Admin** button in the lower-right hand area of the screen.
- Enter the password and press the Enter Key.
- From the Administrative Menu on the left hand side of the screen, choose **System Settings**.
- Press **Date & Time** then **Continue** to begin the process.
- Press the button for the item you would like to change. (Year, Month, Day, Time, AM/PM, Format).
- After you correct the item, press **Previous** and then select **ACCEPT NEW TIME** to update the information.

To test ballots use the Administration menu and press the **Election Test** button on the screen to scan the test ballots.

- Ensure that the test ballots scan in all four orientations.
- Insert the two ballots to check the Multi-Sheet Sensor. Both sheets should be rejected.

Press and hold the “CLOSE POLL” button for about four seconds to close the polls.

Verify that the Results Report shows four ballots cast.

Disconnect the Wall Power Adapter cord from unit. The scanner should continue to operate, and the light blue and dark blue plugs images are separated by black.

Re-connect Wall Power Supply cord. The light blue and dark blue icon in the upper-right corner will be plugged together.

Power down the unit by touching the **Shutdown** button on the Touch Screen.

Verify that the Display switch operates correctly by completing the following:

- With the Wall Power Adapter still connected to the unit, lower the Display to the closed position.
- Raise the Display back to the opened position.
- The unit should power back up

**Note:** The Display switch will not operate if the Wall Power Supply cord has been removed.

Verify all Locks and Doors have a smooth function and are locked.
Chapter 2: Safety Information

This chapter contains information about processes to ensure your safety and to prevent damage to the DS200 scanner.

**Important:** Read and follow the safety recommendations in this chapter of the *DS200 System Operations Procedures* to maintain proper safety measures when operating the scanner.

**Warning Symbols**

The following symbols appear in the *DS200 System Operations Procedures DS200* next to the descriptions for any procedure that, if improperly executed, could cause harm to the operator or damage to the scanner. Read all of the warnings in this manual and use extra caution when you carry out any task that may pose a physical danger to yourself or the DS200 tabulator.

**Electrical Shock Danger:** This symbol appears next to procedures that expose the operator to a risk of electric shock. Any operation that requires opening the DS200 enclosure exposes users to dangerous high voltages. To reduce the risk of fire or shock, do not attempt to open the DS200 enclosure unless you receive proper training from an ES&S technician.

**User Caution:** The user caution symbol appears next to procedures that could cause damage to the scanner or injury to the operator if improperly executed. Carefully read all warnings and proceed with caution if you choose to carry out these tasks.

**Power Sources**

Only use the type of power source indicated on the ID label of your DS200 to power the tabulator. Make sure that you install the tabulator in compliance with all applicable sections of the National Electric Code. Consult your local building code before you install any ballot-scanning equipment.
Ventilation

The case of the DS200 scanner contains slots and openings that provide the ventilation for the unit. To prevent the DS200 from overheating, do not block or cover any of the scanner’s openings during operation. Do not operate the DS200 in an enclosed housing unless ES&S approves the container. Use only the integrated ballot box supplied by ES&S as a ballot container for the DS200.

Water and Moisture

Caution: Do not place containers with liquids such as coffee, water or soda on or near a DS200 terminal. Do not operate the scanner in an excessively wet environment. Store the DS200 in a cool dry place.

Cleaning

Follow instructions in the Clean the Scanner section in Chapter 10: Maintaining the Counter to properly maintain the DS200. Use only the cleaning solutions approved and specified by ES&S to clean the tabulator and ballot box.

Heating

Do not install the DS200 near heat sources such as radiators, air ducts, areas subject to direct sunlight or other products that produce excessive heat.

Power Cord Protection

After you plug the scanner into an approved outlet, route or install the power cord for the DS200 in such a manner to protect it from being walked over or pinched. Turn off the DS200 before connecting or disconnecting the power cord. Remove the power cord before you move the unit. Only plug the power cord in to an easily accessible unobstructed wall socket.
Chapter 2: Safety Information

**Service**

Do not attempt to service the scanner unless specifically instructed to do so by ES&S. Do not attempt to open the scanner case or perform internal maintenance unless you receive proper training from ES&S.

**Damage Requiring Service**

Some situations require an ES&S technician to resolve. Unplug the DS200 and call ES&S to schedule service with a technician for the following conditions. Do not attempt to repair the scanner without first contacting ES&S.

- When the power cord is damaged
- If liquid is spilled into the scanner casing
- If the product is physically damaged in any way
- When the scanner displays a negative change in performance

Additionally seek assistance from ES&S if the scanner does not function according to the descriptions in the operator’s manual. Unless you receive specialized training from ES&S, do not attempt to adjust advanced settings that are not described in the *DS200 System Operations Procedures* manual. Improper adjustment of advanced controls may result in damage to the scanner and often require service by an ES&S technician to restore the scanner.

**Battery Replacement Warning**

*Caution:* Improperly replacing the terminal battery exposes the operator to a risk of explosion. Only qualified ES&S technicians should replace DS200 scanner batteries.
Chapter 3: Introduction to the DS200

Use the diagrams and descriptions in this chapter to familiarize yourself with DS200 scanner components and functions. Always scan a ballot test deck before your election to test the scanner for accuracy and to correct any functional errors before you count official ballots.

See Chapter 5: Pre-Election Day Tasks for a list of recommended polling place supplies and instructions for assembling and testing the DS200.

The DS200 scanner reads marks on both one- and two-sided ballots. Administrators can request custom ballot acceptance criteria, which ES&S programs onto the scanner’s election definition. These ballot acceptance criteria are loaded on a USB flash drive. For example, if a jurisdiction prohibits counting blank ballots, ES&S election coders can program the DS200 to sort blank ballots out of the general ballot count until jurisdiction officials can review the ballots. With each acceptable ballot counted, the DS200 increases the running vote totals for each race included on the election definition.

The tabulator stores accumulated totals to internal scanner memory (DRAM) and to a removable USB flash drive.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
The DS200 can generate paper reports produced from the scanner's internal, thermal printer. The DS200 stores election results on a removable USB flash drive that you can use to transfer scanner results to Election Reporting Manager after the polls close.

**Power Source and Backup Battery**

An external DC power supply, which plugs into a standard 120-volt AC outlet, supplies power to the scanner. If a power outage occurs, the DS200 contains an internal back-up battery that can run the scanner for a minimum of two hours, depending on scanner activity. If the DS200 is plugged into a power source, the backup battery will be charged.

The battery icon appears in the top right-hand portion of the DS200 screen and visually indicates how much of a charge the DS200 has left. See [Menu Display](#) for additional information on the battery icon.

A power indicator light, located at the back of the DS200, displays the backup battery status.

- If the light is flashing **green**, the battery is charged.
  - If the light is green and not flashing, the DS200 is plugged in and the battery is fully charged.
  - If the light is flashing at a slow rate, the DS200 is operating on battery power and the battery has 75 percent or more of its charge remaining.
  - If the light is flashing at a medium rate, the DS200 is operating on battery power and the battery has 50 percent of its charge remaining.
  - If the light is flashing at a fast rate, the DS200 is operating on battery power and the battery has 25 percent of its charge remaining.

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.
 If the light is **amber**, the battery is charging. If the light is amber, allow the DS200 to charge until the light turns green. If the battery is not charged, it will take up to six hours to charge the battery.

  * If the light is flashing at a slow rate, the battery is 75 percent charged.
  * If the light is flashing at a medium rate, the battery is 50 percent charged.
  * If the light is flashing at a fast rate, the battery is 25 percent charged.

 If the light is **flashing red**, the battery is not taking a charge. This could be caused by:

  * A dead battery.
  * A bad connection to the battery.
  * No battery is in the DS200.

**NOTE:** If the DS200 has not operated on battery power and was stored with a full battery charge, the charge time required to fully recharge the battery will be minimal.
Chapter 3: Introduction to the DS200

**Ballot Box**

DS200 ballot boxes store ballots and holds the scanner at the polling place. The DS200 feeds scanned ballots directly into the ballot box, which can sort the ballots according to criteria programmed in the election definition with an optional internal diverter. When ballot sorting is necessary, use of the ES&S steel ballot box with diverter (Item # 76246) is required in lieu of the DS200 plastic ballot box. The ballot box also has a compartment that poll workers can use to temporarily store uncounted or contested ballots in the event of a power failure or scanner malfunction.

The following is an example of the DS200 with the steel ballot box.

The following is an example of the plastic ballot box.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S DS200 System Operations Procedures v. 1.6.1.0
ES&S
August 7, 2012
Scanning Ballots

The DS200 can scan ballots inserted in any direction or orientation. The DS200 emits two quick beeps when a ballot is accepted. Depending on the options set for your election definition, the DS200 will use one of the following methods for accepting or rejecting blank ballots, overvotes, and crossover votes:

- **Unconditional acceptance**: The scanner accepts and tabulates results for all ballots. Any contests that are blank, overvoted or cross voted will be logged as such and the remaining contests will be tabulated appropriately.

- **Unconditional rejection**: The DS200 automatically rejects crossover, overvoted or blank ballots. Voters must review and correct ballot selections before the scanner will accept the ballot.

- **Query the voter for correction**: The DS200 returns a questioned ballot to the voter and displays a screen message that describes the problem and prompts the voter to either review and edit the ballot or cast the ballot as it is. The voter presses Correct Your Ballot to correct the ballot or presses Cast Your Ballot with Errors to cast the ballot without editing selections. Once Cast Your Ballot with Errors is pressed, a thank you for voting message appears.

The following is an example of a screen querying the voter for correction.

![Screen Example](image-url)
Poll workers should closely monitor system messages during voting.

For descriptions of system messages and recommended actions, see “Chapter 11: System Messages”

If you encounter a problem that you cannot correct, contact election headquarters or ES&S technical support.

**USB Flash Drive**

The DS200 uses a USB flash drive to store the scanner’s election definition, audit log and other election-specific information. Data on the USB flash drive exists in one sequential block, which is updated each time the DS200 scans a ballot. Depending on the requirements of your jurisdiction, use USB flash drives with 1, 2 or 4 GB storage capacities for scanners counting Election Day ballots. Use USB flash drives with 8 GB storage capacity for scanners counting early voting ballots.

Contact your election official to determine which size USB flash drive will best fulfill the requirements of your jurisdiction for your DS200s.

**Touch Screen Controls**

The LCD touch screen contains all scanner function options. Press the buttons on the LCD screen to navigate the DS200 menu options. A password is required to access administrative menu options, data transmission and to re-open the polls.

**Menu Display**

The DS200 LCD display screen contains the available menu options. The top-center line of text on the screen identifies the current menu. The icons on the upper-right region of the window display the date, time and operating status of the DS200. The buttons on the current screen display the menu options.
Operators with appropriate permissions can access most menu options through a series of sequential steps, while other options are only available while the polls are open. The Previous button navigates backwards through DS200 menus.

See Chapter 8: System Menus for a list of menu commands and functions.

The following is an example of a Menu display.

The following is a description of each icon and their function:

- Battery Charge Indicator - Provides a visual display of how much battery life remains in the unit.
  - Very low battery capacity - battery icon is empty
  - 25% capacity - battery icon with red in the bottom
  - 50% capacity - battery icon with orange about half way up
  - 75% capacity - battery icon with yellow about 3/4 the way up
  - 100% capacity - battery icon is full and green
  - Battery disconnected - battery icon is blinking

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
  ● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)
USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
AC Power Status Indicator - Provides a visual display showing if the DS200 is plugged into an AC power outlet.
- AC Power plugged in - light blue and dark blue plugs together
- No AC Power - light blue and dark blue plugs separated by black

Image Saving Status Indicator Icons - Provides an indicator if the DS200 is or is not saving images.
- Images are being saved - an orange disk with no marks on it
- Images are not being saved - an orange disk with a red X in the corner

Election Definition Status - Provides an indicator if an election definition is or is not inserted into the DS200.
- Election Definition is inserted - blue square with a check mark in the corner
- Election Definition not found - blue square with a red X in the corner

Open Polls Menu button - You can access the Polls Opened menu by selecting this icon. This icon only appears on the Precinct Selection and Welcome screens.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S DS200 System Operations Procedures v. 1.6.1.0
August 7, 2012
Keyboard Entry Screen

The keyboard is a QWERTY style keyboard. Listed below is an explanation of the special keys.

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REPT</td>
<td>Repeats the last letter typed to complete password up to the maximum password length. Once you reach the maximum it will validate the password.</td>
</tr>
<tr>
<td>Caps Lock</td>
<td>Toggle key which can be in an off or on position. When the key is in the on position the circle will be filled in and it will type in all upper-case.</td>
</tr>
<tr>
<td>Shift</td>
<td>Is a modifier key that can capitalize lowercase letter. The letters are lowercase by default. When the key is pressed the circle will be filled in and it will capitalize the letter or enter the symbols located above the numbers.</td>
</tr>
<tr>
<td>Clear</td>
<td>Clears all the data that was entered into the password field.</td>
</tr>
</tbody>
</table>

Operating Modes

The DS200 operates in three separate modes:

- Administration
- Polls Open
- Polls Close
The Administration Mode provides diagnostic and testing functions to calibrate and test the scanner. In polls open mode, the DS200 actively scans ballots and tabulates results. In polls closed mode, the scanner prints poll reports and transfers election results.

**Administration Mode**

Election officials should load system programs and test DS200 election definitions before delivering scanners to polling places. Complete the following tasks to prepare a scanner for an election:

1. Load the election definition into the scanner.
   
   For more information, see the Load the Election Definition section of Chapter 5.

2. Test the election definition and the scanner to ensure accuracy.
   
   For more information on testing the scanner, see the Prepare the Counter section of Chapter 5.

**Polls Open Mode**

Open the polls to begin regular Election Day functions such as scanning ballots and tabulating vote totals.

Poll workers should monitor the scanner during an election, but the DS200 requires minimal poll worker involvement during voting. The poll worker’s main responsibility during voting is responding to system messages.

**Polls Closed Mode**

Close the polls at the assigned time to print reports or transfer scanner totals to election headquarters. Available DS200 reports include Status Reports, Poll Reports, Precinct Reports, and the Audit Log report.
Election Definition

Election coders program a custom election definition onto a USB flash drive for each DS200 used in your jurisdiction. An election definition contains all of the candidates, contests and ballot variations that the scanner will process at the polling place. The election definition also contains customizable program options that control how the tabulator operates and reports results. Customizable options include (but are not limited to):

- Ability to re-open the polls
- Grouping of undervotes and overvotes on reports
- Automatic certification report printing when polls are closed
- Automatic results report printing when polls are closed
- Rejection, acceptance or query the voter when a scanner detects an overvoted, cross-voted or blank ballot

Roles

Election officials prepare the ballots and the election database to be used by the DS200.

Election officials and/or polling place staff unpack and install the system, conduct the verification test to determine the operational integrity, and are responsible for system shut down, maintenance, and packing. At the polling place, election officials setup the system hardware and perform the following operations:

- System Installation and Test
- System Startup/Shutdown
- Database Installation
- System Test

Polling place staff (Poll Workers) also assist voters with gaining familiarity with the system, clearing paper jams, etc.

Voters use the DS200 to tabulate their ballots.

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Part 2: Quick Start Guide

Part 2 contains information about the following topic.

- Chapter 4: DS200 Quick Start Guide
Chapter 4: DS200 Quick Start Guide

This chapter contains a brief overview for using the DS200, from attaching the DS200 to the ballot box to closing the election polls. The information in this chapter is explained in more detail in later chapters.

Attach the DS200 to the Ballot Box

If the DS200 ballot box is not assembled, refer to the Ballot Box section in Chapter 5: Pre-Election Day Tasks for ballot box assembly instructions.

The DS200 is typically operated on a secure ballot box.

1. Use the DS200 key to open the front of the DS200 carrying case.

2. Press up on the two tabs to unlock the DS200 carrying case.

3. Inspect the power cord for damage before you mount your scanner to the top of the ballot bin.

Electrical Shock Danger: If the cord appears damaged, discard it and contact ES&S for a new cord.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
4. Place the scanner about one-third of the way into the recessed area and slide it onto the mounting rails until it sits about four or five inches (0.1 meters) from the back of the recessed area.

Warning: Only plug the DS200 scanner into a grounded, three-pronged electrical outlet. Plug only one scanner into each available outlet. ES&S does not recommend using an extension cord.

5. Plug the power cord into the power port on the back of the scanner and then plug the AC power cord from the external power supply into a 120-volt wall outlet. Arrange your voting equipment to make sure that no one trips on the cord or accidentally unplugs the scanner on Election Day.

NOTE: If the scanner is not receiving power through the power cord the scanner will give a series of beeps and print out “SWITCHED TO BATTERY POWER” and the light blue and dark blue plug images are separated in the upper right corner of the screen. The scanner should continue to operate on battery power. When the power cord is attached to the scanner then the scanner will print “SWITCHED TO AC POWER”. Disconnect the Wall Power Adapter cord from unit. The light blue and dark blue plug images in the upper-right corner will be plugged together.
6. Slide the scanner against the back of the DS200 carrying case. The scanner will press against the two protective foam inserts.

7. Insert the key into the lock inside the DS200 carrying case and securely lock the DS200 onto the metal rails.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
8. Raise the hinged access door on the DS200 carrying case and lock the hinged door into place to secure the scanner in the carrying case.

9. Test the door to make sure the lock properly engages. If the door cannot be locked, the DS200 may not be pushed completely up against the back of the DS200 carrying case.

**Fully Assembled Ballot Box**
Open the Polls

1. Unlock the front of the DS200 machine.

2. Flip up the LCD screen on the DS200.

3. Some DS200 units may be programmed to automatically power up when you raise the LCD screen. If your DS200 does not power up, unlock the access door covering the power button.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
4. Press the bottom button to turn on the DS200.

5. After you turn on the scanner, the system initializes and the following message appears:

6. Press **Open Polls**. The DS200 will print a zero report. In addition to printing a zero report, the system performs an internal self-test.
7. Close and lock the access door covering the power button.

8. Once the zero report is printed, the DS200 is ready to receive Election Day ballots.
Close the Polls

1. Unlock the access door, located above the printer.
2. Press the Close Polls button, which is located above the power button, for about four seconds. The Close Polls button will shine a red light when you first press on it. When the light turns off, you can release the Close Polls button.

3. Once you press the Close Polls button, the DS200 will automatically print a results report.
4. Press Shutdown.
5. Remove the USB flash cards from the DS200.
6. Take the zero report, results report and USB flash drive to election central headquarters.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.
Part 3 contains information about the following topics.

- Chapter 5: Pre-Election Day Tasks
- Chapter 6: Election Day Tasks
- Chapter 7: Post Election Day Tasks
Chapter 5: Pre-Election Day Tasks

Use the equipment list and the procedures in this chapter to prepare your DS200 scanner for a live election. Always perform routine maintenance on your voting equipment and test your ballot scanners before you open the polls on Election Day.

For instructions for opening and closing the polls, operating the scanner during an election and printing or transferring results, see Chapter 6: Election Day Tasks.

Recommended Supplies

ES&S recommends maintaining a supply of the following items for each DS200 used in your jurisdiction. All of the listed items are available for order from ES&S.

- **Paper Rolls**: The printer uses NRC 3.13” by 80’ thermal paper rolls. The NCR part number is 2200. **Recommended Quantity**: 1 full roll per scanner
- **USB Flash Drive**: A USB flash drive stores the scanner’s election definition ballot count and ballot images. The standard memory capacity for each flash drive is 1, 2, 4 and 8 GB. **Recommended Quantity**: 1 per scanner
- **Marking Devices**: ES&S recommends and supplies the Bic Grip (Black) medium point roller ball pen for voters to mark ballots.
- **Pressurized air cans**: Use pressurized air to clean the scanner. **Recommended Quantity**: 2 cans per scanner
- **Lint-free cloth**: Use for general cleaning purposes.
- **Cleaning pad and isopropyl rubbing alcohol**: Use isopropyl alcohol to clean the scanner rollers, CIS sensors and LCD screen. Alcohol swipes are preferable to bottled rubbing alcohol. If you order the cleanser from ES&S, the part identifier is ES-Cleaner. To clean the scanner rollers, pour the cleanser into a spray bottle and dampen the cleaning pad. Never spray cleanser directly on the scanner. **Recommended Quantity**: 1 bottle per scanner

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Chapter 5: Pre-Election Day Tasks

Ballot Box

Assemble the Ballot Box

1. Place the emergency ballot bin into the ballot bin.

2. Use the side bars from the DS200 carrying case to lift it above the ballot bin.

3. Place the DS200 carrying case above the ballot bin. Make sure the wheels from the carrying case fit into the holes in the emergency ballot bin.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
• iVotronic DRE • Unity Data Acquisition Manager (DAM) • Unity iVotronic Ballot Image Manager (iVIM)
USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S DS200 System Operations Procedures v. 1.6.1.0
ES&S
August 7, 2012
4. Use the ballot box key to lock the left and right sides of the carrying case into place.
NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Attach the DS200 Power Source to the Ballot Box

1. Use the ballot box key to unlock the rear panel of the DS200.

2. Place the DS200 power source behind the two bands in the back of the DS200 carrying case.
3. Attach the AC power cord to the DS200 power source.

4. Start the looping the Power Cord. There should be 4” of slack from the edge of the Power Cord Entrance to the middle of the Power Cord Loop. The Power Cord looping should be no larger than 4” in diameter. There should be an 8” tail protruding from the Loop of the Power Cord.

5. Install a Wire Tie wrap on the bottom side of the Power Cord Loop.

6. Trim up the Wire Tie wrap.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
7. Once the Edge Guard is completely installed, and the Power Cord has been looped and secured, install two Wire Tie Wraps into the two holes closed to the left edge of the Power Cord Entrance.

8. Insert the Power Cord Loop into the Power Cord Entrance (with the Power Cord Tail remaining outside as shown above). Ensure that the 4” of excess Power Cord is pushed to the far left inside the Power Cord Entrance. Secure the Power Cord Loop to the edge threading the two Wire Tie Wraps through the middle of the Power Cord Loop.

9. Use wire cutters to trim up the Wire Tie Wraps. When the install is complete, the setup should look like the picture above. Use wire cutters to cut the excess slack from the plastic tie straps.

   **Important:** Once you tie the DS200 cord, make sure no part of the cord can be seen where the ballot path lies. If any part of the cord is in the ballot path, ballot jams will occur when the DS200 is in voting mode.

To verify that the setup is correct, hold the Power Cord Connector to the right of the Power Cord Entrance as shown above. The end of the Power Cord Connector should reach to the right side of the Foam edge on the Power Cord Entrance.

10. Move the metal bar to the lowered position to lock the DS200 into place for voting.

    **Warning:** Opening the polls without lowering the metal bar will block the DS200 ballot input path, preventing the scanner from accepting ballots.

11. Plug the DS200 into an AC outlet.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features **HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) TO THE REQUIREMENTS OF THE VSS:**

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

**USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:**
Attach the DS200 to the Ballot Box

1. Use the ballot box key to open the front of the DS200 carrying case.

2. Press up on the two tabs to unlock the DS200 carrying case.

3. Inspect the power cord for damage before you mount your scanner to the top of the ballot bin.

   **Electrical Shock Danger:** If the cord appears damaged, discard it and contact ES&S for a new cord.

4. Place the scanner about one-third of the way into the recessed area and slide it onto the mounting rails until it sits about four or five inches (0.1 meters) from the back of the recessed area.
5. Plug the power cord into the power port on the back of the scanner and then plug the AC power cord from the external power supply into a 120-volt wall outlet. Arrange your voting equipment to make sure that no one trips on the cord or accidentally unplugs the scanner on Election Day.

**Warning:** Only plug the DS200 scanner into a grounded, three-pronged electrical outlet. Plug only one scanner into each available outlet. ES&S does not recommend using an extension cord.

**NOTE:** If the scanner is not receiving power through the power cord the scanner will give a series of beeps and print out “SWITCHED TO BATTERY POWER” and the light blue and dark blue plugs images are separated in the upper right corner of the screen. The scanner should continue to operate on battery power. When the power cord is attached to the scanner then the scanner will print “SWITCHED TO AC POWER”. Disconnect the Wall Power Adapter cord from unit. The light blue and dark blue plug images in the upper-right corner will be plugged together.

6. Slide the scanner against the back of the DS200 carrying case. The scanner will press against the two protective foam inserts.
7. Insert the ballot box key into the lock inside the DS200 carrying case and securely lock the DS200 onto the metal rails.

8. Raise the hinged access door on the DS200 carrying case and lock the hinged door into place to secure the scanner in the carrying case.

Test the door to make sure the lock properly engages. If the door cannot be locked, the DS200 may not be pushed completely up against the back of the DS200 carrying case.
Attach the DS200 to the Metal Ballot Box

The metal ballot box does not require assembly. Take the following steps to attach the DS200 to the Ballot Box.

**Warning:** Do not transport the DS200 while attached to the metal ballot box. The DS200 should be delivered separately in the tabulator’s storage and transport case and attached to the metal ballot box at the polling location.

1. Before you mount your scanner to the top of a ballot box, inspect the power cord for damage.

   **Electrical Shock Danger:** If the cord appears damaged, discard it and contact ES&S for a new cord.

2. Insert the DS200 power cord from the external power supply through the opening on the outer left side of the ballot box.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
3. Thread the cord through the outside opening on the back of the box until the cord appears on the inside of the opening at the top recessed area.

4. Pull the cord through the opening until it extends a few inches into the recessed area of the ballot box.

5. Remove the scanner from the carrying case.

6. Place the scanner about one-third of the way into the recessed area and slide it onto the mounting rails until it sits about four or five inches from the back of the recessed area.

7. Slide the scanner against the back of the ballot box. Make sure the diverter connector at the back of the scanner locks into the slot on the ballot box.

8. Plug the power cord into the power port on the back of the scanner and then plug the AC power cord from the external power supply into a 120-volt wall outlet. Arrange your voting equipment to make sure that no one trips on the cord or accidentally unplugs the scanner on Election Day.

Electrical Shock Danger: Only plug the DS200 scanner into a grounded, three-pronged electrical outlet. Plug only one scanner into each available outlet. ES&S does not recommend using an extension cord.
Note: A “No Input Power Detected” message appears on the scanner’s display screen and a “Switched to Battery Power” message is added to the audit log if the scanner is not receiving power through the power cord. Check your connections and the wall outlet if this message appears on your scanner’s display screen. After the scanner has been re-connected through the power cord, a “Switched to AC Power” message is added to the audit log.

9. Raise the hinged access door on the ballot box and lock the hinged door into place to secure the scanner in the ballot box. Test the door to make sure the lock properly engages. If the door cannot be locked, the DS200 may not be pushed completely up against the back wall of the ballot box.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S DS200 System Operations Procedures v. 1.6.1.0
August 7, 2012
Seals and Locks

DS200 Seals and Locks

1. Insert the USB flash drive containing the election definition.
2. Secure the USB flash drive with a seal (ES&S part number 6024).
3. Close and lock the access door.
4. Insert the USB Backup Memory Device in the rear compartment.
5. If your election rules require the use of a backup memory device, you should secure the USB Backup with a seal (ES&S part number 6024).
6. Close and lock the access door.
7. Place the tamper evident seal (ES&S part number RISBL) across the access door as shown.
8. Close the display and lock. A tamper evident seal may be placed vertically from the lock to the display as shown.
9. Assure that the modem door is locked and place a tamper evident seal as shown.

**Note:** Contact the Election Administrator for instructions specific to your jurisdiction for removing or replacing seals.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
DS200 Carrying Case and Ballot Bin Security Seals

The DS200 carrying case and ballot bin has nine possible locations for wire-type seals.

A. To secure the carrying case to the bin, engage the locks on the sides of the bin between the handles, then place one seal on each side of the bin between the handles (two seals).

B. To secure the ballot bin, assure that both doors are locked and place one seal on each door (two seals).

C. To secure the carrying case lid, secure both lid latches and lock the lid using the lock between the two latches. Place at least one seal on the lid latch. There are two locations for seals on each latch. Only one seal should be necessary to secure the lid.

D. To secure the DS200 inside the carrying case, lock the front door and place a seal through the lock bracket.

E. Further polling site security may be attained by using the integrated anchor point on the DS200 Ballot Bin.

Note: ES&S does not recommend any specific lock for this application due to the unknown anchor points at your polling sites. Check with your local hardware, sporting goods or computer supply store for options.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Chapter 5: Pre-Election Day Tasks

Steel Ballot Box Seals

The steel ballot box has six possible locations for seals.

A. Slide the tabulator onto the ballot box rails and secure. A tamper evident seal can also be added for additional security.

B. Access to the emergency ballot bin is limited by this lock. A tamper evident seal can also be added for additional security.

C. In operation the ballot flap must be in the UP position. During storage, transportation, or periods of higher security, the ballot flap can be locked in the closed position.

D. Access scanned ballots through doors located on each side of the ballot box. These doors should be locked, and a tamper evident seal can also be added for additional security.

E. Additional security can be implemented by adding a seal on the bottom of the ballot box door.
Prepare the Counter

After you mount the scanner to the ballot box, there are a number of tasks that you must complete before you open the polls. Because the proper operation of the counter depends on performing the following tasks, it is important to carefully review this section before every election.

Charge the Battery

The DS200 uses a backup battery to ensure that scanner operations continue without interruption during a power failure. Plug the scanner in and turn on the power.

Check the Battery Charge

1. Turn on the DS200. After the scanner powers up, the following welcome screen appears:

![Welcome Screen]

2. The battery power icon, located in the upper-right region of the screen, displays the battery’s charge. The battery is charging whenever the power cord is plugged into the unit. If the battery does not show a full charge, continue to supply power to the unit until it reaches a full charge. The amount of charge time required to fully charge the battery depends on the current status of the battery icon. See Menu Display for additional information about the battery power icon.

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Load the Election Definition

DS200 precinct tabulators use the election definition programmed on USB flash drives to recognize ballot marks and tabulate results. Once you load the election definition, you will need to calibrate the DS200.

**Warning:** You must insert the election definition before you turn on the DS200.

If you do not have a definition loaded when you turn on the DS200, the message “Election Definition Not Found” appears.

1. Lift the access door on the front left of the scanner to access the USB flash drives.
2. If necessary, remove the protective plastic covering of the USB flash drive containing your election definition.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
3. Insert the USB flash drive into one of the USB slots. Do not force the flash drive into the slot.

![USB flash drive](image)

**NOTE:** The flash drive has a slot on top for wire seals. If wire seals are used to secure the device, route the wire through this slot and through the associated seal hole on the tabs next to the flash drive wells.

4. Turn on the DS200.

5. Once you checked and verified the Election Definition you can shutdown the scanner.

**Check the Election Definition for Accuracy**

The DS200 automatically generates an Initial State report when you start the scanner. Check the report for the following information:

- **System Values:** Make sure the date and the time appear correctly on the report. If the information is not correct, change date and time from the Systems Setting screen.

  ![System Values](image)

  For more information about changing the date and time settings for the scanner, see the **Change Date and Time Settings** heading in this chapter.

- **Election Information:** Make sure that the jurisdiction name, polling place, and the number of precincts listed on the report are correct.
Administration Menu

After you insert an election definition and start the scanner, the message, “Election Definition Found” appears on the screen. Press the arrow button in the lower-right corner of the screen to access the Go To Admin button.

**NOTE:** You can access the Administration Menu screen if you do not have an election definition installed. However, the menu options will be limited.

1. Once you press the Go to Admin button, the Enter Password screen appears.

![Administration Menu Screen](image)

2. Use the buttons on the screen to enter your password and press the Enter key to access the Administration Menu screen.
3. Access the following screens from the Administration Menu screen:

- Press **Ballot Diagnostics** to open the Ballot Diagnostics screen. The Ballot Diagnostics menu is used by certified ES&S Technicians for scanner maintenance.
- Press **System Settings** to perform the following tasks:
  - Press **Date & Time** to change the scanners date and time settings.

  ![Administration Menu](image)

  See the **Change Date and Time Settings** heading in this chapter for more information about changing the time and date settings.

  - **Top CIS Threshold & Bottom CIS Threshold** - ES&S Technicians use these settings to adjust the image. The default value should be 150.

  For more information on the threshold settings please see the **DS200 Maintenance Manual** or contact ES&S.

- Press **Election Test** to test your scanner and election definition.

  For more information about testing your scanner, see the **Test the Election Definition** heading in this chapter.
Load new firmware onto the DS200.

For more information about loading new firmware onto the DS200, see Chapter 13: Load New Firmware onto the DS200.

Press Printer Diagnostics to perform basic diagnostic tests for your printer.

Press Diverter Diagnostics to perform basic diagnostic tests for the ballot box diverter.

Press Set Data Trans Code to set the Data Transmission Code to allow you to Auto-Transmit results at poll close.

NOTE: The DS200 does not allow you to open the scanner for voting unless you install a USB flash drive programmed with an election definition. If you start the DS200, without installing a flash drive first, only the diagnostics menu will be accessible. For a description of the menu options available without an election definition, see Chapter 8: System Menus.

Change Date and Time Settings

Use the Date & Time option from the System Settings screen to change the scanner’s date and time settings.
1. From the Administration Menu, press the **System Settings** button. The System Settings screen appears.

![System Settings](image1)

2. Press the **Date & Time** button. The Select Date and Time screen appears.

![Select Date And Time](image2)

3. Press the button for the item you wish to change. A screen will appear that corresponds with your selection (for example, if you press **Month**, a window will appear, displaying the months of the year).

4. From the window you selected, make your date or time changes.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features **HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS**:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

**USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:**

5. After you correct the scanner’s date and time settings, press *Previous*. The Set Time & Date screen appears.

![SET TIME Screen](image)

6. From the Set Time window, select one of the following options:
   - Press **Accept New Time** to accept the new time and/or date setting.
   - Press **Retry** to return to the Set Time & Date screen.
   - Press **Cancel** to return to the System Settings screen. The DS200 will not save your changes and will revert back to the previous time setting.

**Test the Election Definition**

Test the election definition for each of your scanners before you deliver DS200s to your polling places. To test a DS200 election definition, scan the ballot test deck supplied by ES&S with your election definition USB flash drive and compare the results to the test reports supplied by ES&S.
Test the scanner only after you install the election definition and configure the DS200. If your jurisdiction programs its own election definitions, create a test deck that includes at least one ballot for each precinct enabled for your scanner and maintain accurate records of your test ballot selections. After you scan the test ballots, generate a results report and compare the scanner report to your ballot records. If the results do not match, make sure that the marks on your test ballots are dark and clean and then scan the test ballots again.

**NOTE:** Do not use an exception ballot when running an election test. An exception ballot is any ballot that contains a write-in, overvote or no votes on the ballot.

Scan a Ballot Test Deck

1. Start the scanner and access the Administration Menu.
2. Press **Election Test**. The Election Test screen appears.

![Election Test Menu]

3. From the Election Test screen, press **Scan Ballots**.
4. Insert the ballots into the scanner. The DS200 can scan ballots inserted in any orientation. As ballots are scanned, the public count will increase by one for each ballot inserted. If the auto-read mode is activated, the public count will appear as follows:

![Scan Ballots Menu]

**NOTICE OF UNCERTIFIED FUNCTIONALITY**
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Print Ballot Test Reports

1. After you finish scanning test ballots, press **Previous** to return to the Election Test screen.

2. From the **Election Test** screen, select one of the following options:
   - Press **Status Report** to generate a report that includes the number of ballots processed by your scanner. This report also displays the ballot counts for each active precinct and the totals for your polling place.
   - Press **Precinct Report Media** to generate a report that includes the results for every contest voted on the scanner. The results are broken down by precinct.
   - Press **Poll Report Media** to generate a report that includes the results for all precincts in a single report.

3. Verify your results and then press **PREVIOUS** to exit the Administration Menu screen. If your scanner results and test records do not match, review your test ballots for errors and repeat the test. If the results are not correct after running the test a second time, contact ES&S for customer support.
Test the Thermal Printer

Before you open the polls, test the thermal printer to see if your printer paper is installed correctly.

1. Take the paper that is sticking out of the DS200 and fold it over to your left.
2. Scratch the paper. If a grey mark appears, the paper is loaded correctly. If a grey mark does not appear, open the printer door and place the paper in the printer so the thermal (the side where the grey mark appears) side is facing the thermal printer.

Set Data Transmission Code on DS200

NOTE: This section references network results functionality that is not supported with the current voting system configuration

You can store the Data Transmission Code on the DS200, which will not require the user to enter it at poll close.

1. After you insert the election definition for the election and start the scanner, the message, “Election Definition Found” appears on the screen. Press the arrow button in the lower-right corner of the screen to access the Go To Admin button.

NOTE: You can access the Administration Menu screen if you do not have an election definition installed. However, the menu options will be limited.
2. Once you press the **Go to Admin** button, the Enter Password screen appears.

![Password Screen](image1)

3. Use the buttons on the screen to enter your password and press the **Enter** key to access the Administration Menu screen.

![Administration Menu](image2)

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
4. Select **Set Data Trans Code** to enter your Data Transmission Code for your election.

![Image of Data Transmission Code Entry]

5. Enter your Data Transmission Code then press **Enter**. The DS200 will validate the code. After you have entered the correct code the following screen will appear.

![Image of Successfull Stored DTC Code]

**NOTE:** If you enter the Data Transmission Code incorrectly a screen will appear to alert you.

6. Select **Continue** to go back to the Administration Menu.
Pre-Voting Checklist

Review the following list before you open the scanner for voting:

☐ Have you anticipated all potential special voting conditions, such as overvotes and absentees, and included those conditions in the election definition?
☐ Have you charged the scanner’s back-up battery?
☐ Is there a sufficient paper supply for the printer? Is a backup roll readily available?
☐ Have you properly completed setup and test procedures?
☐ Do ballots contain the correct precinct identification number(s)?

After completing all pre-election preparations, press Shutdown to turn off the DS200. Once the DS200 is turned off, unplug the DS200. Lock all access panels and prepare the scanner for transportation to the polling place.

See the DS200 Precinct Ballot Scanner Pre-Election Day Training Manual for detailed steps for preparing the scanner.
Chapter 6: Election Day Tasks

This chapter contains instructions for the following Election Day tasks:

- Open the Polls
- View Write-in Votes on a USB Drive
- Reopen the Polls
- Handling Uncounted Ballots
- Print Election Reports
- Modem Results

Open the Polls

Before your polling location opens for voting, retest and check the system configuration for each of your scanners.

For more information about testing and configuring scanners, see Chapter 5: Pre-Election Day Tasks.

After you test and configure your scanners, load the USB flash drives with the scanner election definitions and turn on the DS200 scanner. Then, use the following instructions to prepare the scanners for voting.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
1. After you start the scanner, the following screen appears:

![Election Definition found.

2. Press **Open Polls** to initialize the following scanner functions:
   - The scanner checks available memory and scans the election definition for errors.
   - Depending on options set for your election definition, the DS200 prints a Status Report and/or a Zero Certification Report on activation. To stop the current report from printing press **Cancel Printing**, then press **Yes** to confirm the print cancellation.

3. After the DS200 finishes printing the startup reports and zero report, close and lock the access panel.

   **NOTE:** To review a scanner’s function history, print a system audit report. To print an audit report, go to the Administration Menu and press **Diagnostic Reports**. From the Diagnostic Reports screen, press **AUDIT LOG REPORT** to print the report. You can cancel the report at any time by pressing **CANCEL**.
4. After you remove the key, the DS200 scanner is ready for live voting. Make sure that the public counter on the DS200 display screen increases by one with each ballot cast but do not make any further adjustments to the scanner unless a system message appears.

Use the DS200 For Early Voting

If you are using the DS200 over a period of days for early voting, follow the same Open the Polls procedures described in this chapter. When you are prompted to print a zero report, the Totals Only zero report will print a summary report that will only contain the grand totals. The All Precincts zero report will print a summary precinct-by-precinct breakdown report. Depending on the number of precincts in your district, it may take several hours to print an All Precincts zero report. ES&S recommends opening polls prior to the first day of early voting and closing the polls only at the end of the last day of early voting.

Take the following steps to power down the DS200 at the end of each day of early voting:

1. Lift the access door on the front left of the scanner to access the USB flash drives.
2. Remove the USB flash drive containing the election definition.

Once the flash drive is removed, the following screen appears.

3. Press **Shutdown**, then press **Continue Power Down** to continue turning off the scanner. Press **Cancel Power Down** if you do not want to shutdown the scanner.

4. Lock the access door, remove the key and place the key and the USB flash drive in a secure location.

Take the following steps to power up the DS200 at the start of each day and resume early voting:
1. Unlock the access door to the DS200.

2. Insert the USB flash drive containing the election definition.

3. Press the bottom button to turn on the DS200.

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

---

ES&S DS200 System Operations Procedures v. 1.6.1.0
August 7, 2012
4. The following screen appears indicating that an Election Definition was found. Press **Open Polls** to begin the opening polls process.

5. A screen appears indicating that the DS200 is opening polls and printing reports.

6. The following screen appears. Enter the number of the precinct and press **Enter**.
7. The following screen appears identifying the number of the precinct selected. Select **Continue** if the number is correct. Select **New Search** if the number is not correct.

8. A screen appears indicating that you can insert all ballot pages now.
Multi-Language Support

In addition to English the DS200 also supports Spanish. Both languages appear on the Welcome, Thank You For Voting and Ballot Error screens.

Welcome screen

Thank You For Voting screen

Public Count: 1 Cómputo público: 1

You are finished. Thank you for voting!

Usted ha terminado. Gracias por su votación.
Multi-Language Support - Ballot Messages

The DS200 can display messages to alert voters. These messages appear if, for example, a voter inserts a blank ballot or if a ballot is inserted incorrectly. Voters can select a language to view the ballot message.
Write-in Votes

If a ballot contains write-in entries, the DS200 will stamp a red circle on the ballot. The stamp will be on the bottom center of the reverse side of the ballot, regardless of the orientation in which the ballot was scanned.

View Write-in Votes on a USB Drive

In addition to viewing stamped ballots for write-in votes, you can also view write-in votes on a USB drive if the Save Only Ballot Images With Write-Ins option button is selected in the DS200 Scanner Options window in Hardware Programming Manager.

Refer to the DS200 Scanner Options heading under Chapter 14: Election Specification in the Hardware Programming Manager System Operations Procedures manual for more information about ballot image settings for the DS200.

Refer to the View Ballot Images section in Chapter 7: Post Election Day Tasks for more information about viewing ballot images on a USB drive.
Close the Polls

Close your polling place for voting at the assigned time and then, use the DS200 Close Polls button to prepare scanner results for processing. You cannot print reports or process vote totals from the scanner’s USB flash drive until you properly close the polls.

You can print election, event, and audit log reports after you close the scanner for voting.

1. Check the ballot auxiliary bin for sorted, uncounted ballots.

   **NOTE:** Study your jurisdiction’s procedures for handling uncounted ballots before Election Day.

   For more information about removing and processing sorted ballots, see Handling Uncounted Ballots in this chapter.

2. Unlock the DS200 access door.

3. Press and hold down the CLOSE POLLS button, located above the power button, for about four seconds and then release to officially close the polls. Depending on your election configuration, the scanner may automatically print one or more of the following reports: Status report, Race Results report, Certification report and/or Audit Log report. Press CANCEL to stop printing reports at any time.

4. Press Shutdown to turn off the DS200.

5. Remove the USB flash drive from the DS200.

6. Take the USB flash drive and any printed reports to election headquarters.

Reopen the Polls

If you discover voted ballots mistakenly left in voting booths or in the temporary ballot storage bin after the polls close or, if you must close the scanner for voting before the assigned time, you can reopen the DS200 to scan uncounted ballots.

**NOTE:** Some jurisdictions do not allow reopening of the polls after the assigned closing time. Your jurisdiction must specifically request the option to reopen the polls from ES&S election programmers or include the option on the election definition USB flash drive in order to reopen polls.
1. If the DS200 scanner is turned off, use the key to open the access door. If you removed the USB flash drive, reinsert the USB flash drive and turn on the DS200. The Polls Closed screen appears.

2. Press **Reopen Polls**. The password entry screen appears.

3. Contact your election administrator or ES&S Customer Support for the scanner password.

4. Press **ENTER** after you input the password. The Reopen Polls screen appears.
5. Press Resume Voting to resume voting and add the new totals to the election count that was saved when the DS200 was first closed. If you select this option, go to Step 7. Press Clear Counts to clear the election count and resume voting. The Clear Counts screen appears.

6. Press Yes to clear the results and continue reopening the polls. Press No to return to the previous Reopen Polls screen. If you pressed Yes, the following screen appears.

7. Press Open Polls

8. After the polls are reopened the scanner is ready to scan ballots.
Handling Uncounted Ballots

Save any ballots that were not counted during voting due to power failure or scanner problems in the temporary ballot storage bin. Unlock the emergency access door on the front of the ballot box to remove uncounted ballots. Before you close the polls, remove and scan the uncounted ballots to add the totals to your scanner’s memory. Study your jurisdiction’s regulations for handling uncounted ballots before you remove and scan stored ballots.

Access the Temporary Ballot Storage Bin

1. Unlock the emergency ballot bin door on the ballot box.

2. Inspect the uncounted ballots for damage and then feed them into the scanner.

NOTE: Double-check the back of the bin to make sure that no ballots remain uncounted.

Print Election Reports

The DS200 generates a variety of results reports after the polls close. Depending on the options configured for your election definition, the scanner may automatically print reports when you close the polls or you can manually select reports from the POLLS CLOSED screen.

1. Close the polls to access the POLLS CLOSED screen and press RESULTS REPORT to reprint any automatic reports generated when the polls are closed. The types of reports generated depend on your election definition settings.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
2. To print additional reports, return to the **POLLS CLOSED** screen and select from one of the following report options:
   - Precinct Report Media
   - Precinct Report Summary
   - Audit Log Report
   - Poll Report Media
   - Poll Report Summary

For descriptions and examples of each DS200 report, see Chapter 9: Reports.
Modem Results

NOTE: Remote transmission of election results are not supported with the current voting system.

If you are transmitting results via modem, you can transmit the results manually or automatically.

Refer to Election Specifications in the Hardware Programming Manager’s System Operations Procedures manual for more information about adjusting your modem settings.

Important: If you use a DS200 for early voting, you cannot transmit the results by modem.

NOTE: For various reasons and in rare instances, the DS200 may require up to 10 re-tries to successfully connect to the server and transfer election results. Such re-tries are automatically performed by the DS200

Auto Transmit Results

The results will automatically be transmitted via modem, after you enter the Data Transmission Code, if the Auto Transmit Results check box was selected in the Model 100/200 Scanner Options in Hardware Programming Manager. Also, if a valid Data Transmission Code was set and stored, it will not ask for the code when the results are sent.

The DS200 can be set up that allows the user to store the Data Transmission Code, which will not require it to be entered at poll close. See Set Data Transmission Code on DS200 in Chapter 1: Pre-Election Day Tasks

Plug in the phone cord before closing the polls, because the results will automatically transmit when the polls are closed.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)
USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
1. Use the key to open the back access panel of the DS200.

2. Insert one end of the phone cord into the modem jack.

3. Insert the other end into a nearby phone jack.

4. To close the polls, refer to the Close the Polls section in this chapter.

**Warning:** Do not remove the USB flash drive while you are transmitting results.

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
5. The DS200 connects to the server and uploads the election results. A “Successfully Transferred Results” message appears if there are no issues with the transfer.

![Screen Shot]

Refer to Chapter 11: System Messages if you receive any error messages related to using the modem.

**Manually Transmit Modem Results**

If you are not set up to automatically transmit results, take the following steps to manually transmit your results.
1. Use the key to open the back access panel of the DS200.

2. Insert one end of the phone cord into the modem jack.

3. Insert the other end into a nearby phone jack.
4. *(Optional Step)* The Change Modem Phone Number screen appears. Press **NO** if you do not want to change the modem number and the transmission continues. Press **YES** if you want to change the modem phone number.

5. *(Optional Step)* The Modify Phone Number screen appears if you selected **Yes** on the Change Phone Number screen. Enter the desired number and press **Enter**. After you press **Enter**, the transmission continues. If the modem phone number is left blank the system defaults to the number originally set in the election definition.
6. The POLLS CLOSED screen appears.

![POLLS CLOSED Screen](image)

7. From the Polls Closed screen, press **Modem Results**. The Enter Data Transmission Code may appear.

The DS200 can be set up to allow the user to store the Data Transmission Code, and will not require the code to be entered at poll close. See **Set Data Transmission Code on DS200** in Chapter 1: Pre-Election Day Tasks.
8. If prompted, enter the Data Transmission Code, then press Enter.

9. The DS200 will attempt to dial the host server, if needed press Cancel to stop the transmission. Once the transmission has transferred the results. The following screen will appear.

10. Press OK when the results have been transferred.

**Warning:** Do not remove the USB flash drive while you are transmitting results.
Transfer Results

If your jurisdiction uses Election Reporting Manager to generate election reports, transfer election results from your precinct counters to the PC running the reporting software.

If you have not closed the polls see the Close the Polls section.

1. Unlock the access door.
2. Remove the USB flash drive from the scanner.
3. Deliver the USB flash drive to election headquarters.

NOTE: Deliver all write-in ballots to your election administrator as soon as possible after the polls close. Separate all of the write-in ballots from regular ballots. To remove write-in ballots from the ballot box, follow the instructions in the Handling Uncounted Ballots section of this chapter.
Chapter 7: Post Election Day Tasks

Use the instructions in this chapter to perform the following tasks after you have ran your election.

- Remove the Scanner From the Ballot Box
- View Ballot Images

Remove the Scanner From the Ballot Box

Carefully pack the scanner and ballot box for storage.

1. If the unit is still on, press Shutdown on the DS200 screen.
2. Close the Key Access Panel and Printer Access Panel.
3. Pull the scanner forward about four to five inches (0.1 meters) and disconnect the power cord from the back of the terminal.
4. Slide the scanner forward until it clears the mounting rails and remove the scanner from the ballot box.

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.
View Ballot Images

You can view ballot images in the event of a recount or for auditing purposes after your election. The ballot images are stored on the USB flash drive with your election results.

Important: Each ballot image is saved as a .pbm file. You will need a program that can read .pbm files to view ballot images.

NOTE: You can also save your images to your hard drive when you load your election results. When you load the USB flash drive that contains your election results, copy the imgs folder from the USB flash drive to your hard drive.

1. Plug the USB flash drive containing your election results and ballot images into a USB port in your PC.
2. Right-click on the Start menu and click Explore.
3. Locate the drive containing the USB flash drive.
4. Double-click the images folder.
5. Double-click one of the folders that contains two characters.
6. Double-click one of the folders that contains one character.
7. Double-click one of the zipped files. Files beginning with N are ballots with no write-ins. Files beginning with W are ballots with write-ins. Files ending with F are front-sided ballot images. Files ending with R are back-sided ballot images.

8. Right-click on the .pbm file and click Open With.
9. Select the application that you will use to view the .pmb file.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

• iVotronic DRE • Unity Data Acquisition Manager (DAM) • Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Part 4: System Menus

Part 4 contains information about the following topics.

- Chapter 8: System Menus
Chapter 8: System Menus

This chapter contains descriptions of DS200 menu functions. Which menu selections are available depend on what operating mode you activate for the DS200. For example, if you do not have an election definition loaded in the DS200 tabulator, the POLLS OPEN option is not accessible. The DS200’s three operating modes are ADMINISTRATION MENU, POLLS OPEN, and POLLS CLOSED.

Polls Opened Menu

Use the Polls Opened Menu to override the election query settings for blank ballots, over-votes, cross-overs, marginal (unreadable) marks, and under-votes. For example, when you enable the override for over-votes, the DS200 accepts all over-vote ballots and does not query a voter to fix or accept an over-vote ballot. You can also access the Ballot Style and Zero Totals reports from this menu.

Access the Polls Opened Menu

To access the Polls Opened Menu, follow the steps below:

1. Select the icon located in the top right corner of the Welcome screen.
2. Enter your password and select ENTER on the subsequent screen.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
• iVotronic DRE
• Unity Data Acquisition Manager (DAM)
• Unity iVotronic Ballot Image Manager (iVIM)
USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
3. Select the desired query override option button or reports button.

- If you select on an override screen, select **Enable** to accept the ballots or **Disable** to query voters to fix or accept the ballots.
• If the reports are active, select a report. The DS200 will begin printing the report and displays a reports printing message. Select **CANCEL PRINTING** if you want to stop the report from finishing printing and press **Yes** to confirm you want to cancel the report. See **Status Report** and **Zero Totals Report and Certification Report** for additional information about the available reports.

**Administration Menu**

Use the Administration Menu to perform diagnostic tests before you open the scanner for voting. DS200 diagnostic test functions include processing a test deck, setting the system date and time, calibrating the scanner, and auto-reading ballots. After you open the polls, the Administration Menu cannot be accessed.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Access the Administration Menu With an Election Definition Loaded in the DS200

To access the Administration Menu, start the DS200 with a USB flash drive inserted in one of the USB slots and press the arrow button in the lower-right corner of the screen to access the Go to Admin button. Press the Go to Admin button to access the Administration Menu.

![Administration Menu Image](image-url)
Access the Administration Menu With No Election Definition Loaded in the DS200

If you do not have a USB flash drive inserted in a USB slot, you can access the Administration Menu by pressing the Go to Admin button on the Election Definition Not Found screen.

Diagnostic Reports Menu

Diagnostic Reports are used by certified ES&S technicians to perform system maintenance.

❖ The following sections are available under the Diagnostic Reports menu:

• Debut Report
• Configuration Report
• System Audit Log Report

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)
USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
**Ballot Diagnostics menu**

The Ballot Diagnostic menu is used to indicate how the scanner is reading.

![NOTE: The Ballot Diagnostics menu should be accessed by a certified ES&S Technician. See the DS200 System Maintenance Manual for procedures.]

- **Mark Code Report** - This shows the different types of marks recognized by the scanner in every possible response area.
- **Digital Readings Table** - This report shows how many pixels the scanner is reading in every possible response area.
- **View Top Sensor Image & View Bottom Sensor Image** - Technician report to view the top and bottom digital images.

**System Settings Menu**

Use System Settings options to set the system clock, calibrate your scanner or set the CIS threshold for your ballots. You must install your election definition USB flash drive before you activate the scanner to alter scanning options.

**Date & Time**

1. Press the arrow button in the lower-right corner of the screen to access the **Go To Admin** button.
2. Press **Go to Admin**. The Enter Password screen appears.
3. Enter your password and press **Enter**. The Administration Menu appears.
4. Press **System Settings**. The System Settings screen appears.
5. Press **Date & Time** and select from the following options to adjust the system time and date.

Refer to the **Change Date and Time Settings** section of **Chapter 5: Pre-Election Day Tasks** for more information about setting the date and time.

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Top CIS Threshold & Bottom CIS Threshold

ES&S Technicians set the brightness threshold for the top and bottom image sensors.

**NOTE:** The Top CIS Threshold and Bottom Threshold menu should only be accessed by a certified ES&S Technician. The default value should be 150. See the DS200 System Maintenance Manual for procedures.

Calibrate Scanner

Use the Calibrate Scanner function to recalibrate the DS200 scanner. Recalibrating the DS200 scanner will normalize the photo sensors in the contact image sensor. You should run scanner calibration:

- Before each election or approximately 10,000 ballots in extended election mode
- When firmware is updated
- When maintenance is performed on the unit

**Important:** Before you calibrate the scanner, the ballot transport must be cleared of all debris and thoroughly cleaned. Scrub the white spring-loaded plates opposite the contact image sensors with a rag and isopropyl alcohol to remove any streaks or marks.

Refer to the Clean the Scanner section in Chapter 10: Maintaining the Counter for more information about cleaning the ballot transport mechanism.

1. Press the arrow button in the lower-right corner of the screen to access the Go To Admin button.
2. Press Go to Admin. The Enter Password screen appears.
3. Enter your password and press Enter. The Administration Menu appears.

5. Press **Calibrate Scanner**. The Calibrate Scanner screen appears.

6. Press **Continue**. The Calibrate Scanner screen appears.

**Warning:** Do not turn off the DS200 while the scanner is calibrating its settings.
7. Once the scanner has finished calibrating, the Successfully Calibrated Scanner appears.

**SUCCESSFULLY CALIBRATED SCANNER**

8. Press Continue to return to the System Settings screen.

**Diverter Diagnostics Menu**

Use the options from the Diverter Diagnostics screen to test the ballot box’s diverter.

**Diverter Test**

Use the Diverter Test option to do a full test of the ballot box diverter.

1. Press the arrow button in the lower-right corner of the screen to access the Go To Admin button.

2. Press Go to Admin. The Enter Password screen appears.
3. Enter your password and press **Enter**. The Administration Menu appears.

![Administration Menu](image)

4. Press **Diverter Diagnostics**. The Diverter Diagnostics screen appears.

![Diverter Diagnostics](image)

5. Press **Diverter Test**. The left and right bins of the ballot box will move.

**Divert Left Bin**

Use the Divert Left Bin option to test the left side of the ballot box diverter.

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

---
1. Press the arrow button in the lower-right corner of the screen to access the Go To Admin button.

2. Press Go to Admin. The Enter Password screen appears.

3. Enter your password and press Enter. The Administration Menu appears.


5. Press Divert Left Bin. The diverter will move to the left ballot bin.
Divert Right Bin

Use the Divert Right Bin option to test the right side of the ballot box diverter.

1. Press the arrow button in the lower-right corner of the screen to access the Go To Admin button.
2. Press Go to Admin. The Enter Password screen appears.
3. Enter your password and press Enter. The Administration Menu appears.


5. Press Divert Right Bin. The diverter will move to the right ballot bin.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Diverter Test Scan Recycle

Use the Diverter Test Scan Recycle option to test the ballot box diverter when you are in ballot recycle mode.

1. Press the arrow button in the lower-right corner of the screen to access the Go To Admin button.
2. Press Go to Admin. The Enter Password screen appears.
3. Enter your password and press Enter. The Administration Menu appears.


5. Press Diverter Test Scan Recycle. The Exercise Diverter for Each Ballot Recycle screen appears.

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
6. From the Exercise Diverter for Each Ballot Recycle screen, select one of the following options:
   • Press **Enable** to test the ballot diverter when the ballot is inserted in the DS200 in its recycle mode.
   • Press **Disable** to disable the ballot diverter when the ballot is inserted in the DS200 in its recycle mode.

**Printer Diagnostics**

Use the options from the Printer Diagnostics screen to test the DS200's printer.

**Printer Test**

Use the Printer Test option print a test line on your tape.

1. Press the arrow button in the lower-right corner of the screen to access the **Go To Admin** button.
2. Press **Go to Admin**. The Enter Password screen appears.
3. Enter your password and press **Enter**. The Administration Menu appears.
4. **Press Printer Diagnostics.** The Printer Diagnostics screen appears.

5. **Press Printer Test.** The DS200 will print a test line on the tape.

**Form Feed**

Use the Form Feed option to advance the tape without printing a test line.

1. Press the arrow button in the lower-right corner of the screen to access the **Go To Admin** button.
2. **Press Go to Admin.** The Enter Password screen appears.
3. Enter your password and press **Enter.** The Administration Menu appears.
4. Press **Printer Diagnostics**. The Printer Diagnostics screen appears.

5. Press **Form Feed**. The DS200 advance the tape without printing a test line.

**Print Test Scan Recycle**

Use the Print Test Scan Recycle to test the printer when the DS200 is in recycle mode. When you scan ballots in recycle mode, the DS200 will take a single ballot and repeatedly run it through the scanner. Each time the DS200 scans the ballot, the public count will increase by one. A test line will print on the report tape each time the DS200 scans the ballot.

1. Press the arrow button in the lower-right corner of the screen to access the **Go To Admin** button.

2. Press **Go to Admin**. The Enter Password screen appears.
3. Enter your password and press Enter. The Administration Menu appears.

![Administration Menu]


![Printer Diagnostics]

5. Press Print Test Scan Recycle. The Print Test Recycle screen appears.

6. From the Print Test Recycle screen, select one of the following options:
   - Press Enable to enable the print test line function. If you select this option, the printer will print a test line on the report tape each time a ballot is scanned in recycle mode.
   - Press Disable to disable the print test line function. If you select this option, the printer will not print a test line on the report tape each time a ballot is scanned in recycle mode.
Once you select an option, you will return to the Printer Diagnostics screen.

7. Press **Previous**. The Administration Menu appears.
8. Press **Ballot Diagnostics**. The Ballot Diagnostics screen appears.
9. Press **Set Cycle Count**. The following screen appears.

![Image of Set Cycle Count screen]

10. Press the numbers on the keypad to enter the number of times you want the DS200 to scan your ballot.
11. Press **Enter**. You will return to the Ballot Diagnostics screen.

![Image of Ballot Diagnostics screen]

12. Insert a ballot into the scanner. The DS200 will scan the ballot as many times as you selected in **Step 10**.
• If you selected **Enable** in **Step 6**, a test line will print on the report tape for each ballot scanned.

• If you selected **Disable** in **Step 6**, the printer will not print test lines.

**Election Test Menu**

Use options from the Election Test Menu to verify the election definition and check the system counting logic. In the Election Test menu, totals are stored on the USB flash drive in order to test the flash media. However, when you leave the Election Test Menu, the results are erased from the drive in order to generate a zero report when polls are officially opened.

1. Press the arrow button in the lower-right corner of the screen to access the **Go To Admin** button.

2. Press **Go to Admin**. The Enter Password screen appears.

3. Enter your password and press **Enter**. The Administration Menu appears.

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
4. Press Election Test. The Election Test Menu screen appears.

5. From the Election Test screen, press Scan Ballots to enable ballot scanning.

6. Insert test ballots into the scanner as you would for a normal election.

7. After you finish scanning test ballots, press Previous to navigate back to the Election Test Menu.

You can select the following options from the Election Test Menu:

- Precinct Report Media
- Poll Report Media
- Status Report
- Precinct Report Summary
- Poll Report Summary
- Zero Totals
Part 5: After the Election

Part 5 contains information about the following topics.

- Chapter 9: Reports
- Chapter 10: Maintaining the Counter

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S DS200 System Operations Procedures v. 1.6.1.0
August 7, 2012
Chapter 9: Reports

The DS200 generates a variety of election results reports. This chapter contains descriptions and examples of each available report. Use the information in this chapter to become familiar with the report formats and types so that you can generate the proper reports for your jurisdiction.

Results Reports

Select from the following report formats and types to print reports for your jurisdiction.

Report Format

ES&S or your jurisdiction’s election programmer hard code available report formats into the DS200 election definition. The report formats that you select (either media or summary) affect the Poll Reports and Precinct Reports generated directly from the DS200. Reports printed in media format display candidate names, candidate vote totals and write-in totals. Reports printed in summary format display candidate names, candidate vote totals, write-in totals, undervote totals and overvote totals.

The DS200 generates the following report types:

- Election Startup Reports
- Poll Closing Reports
- Diagnostic Reports

Election Startup Reports

The DS200 prints the following reports when you are opening polls:

- Initial State Report
- Audit Log Report
- Zero Totals Report and Certification Report
Initial State Report

The initial state report is a descriptive list of system settings that automatically generates when you turn on the scanner. The report includes a list of election configuration settings if the election definition is loaded when you turn on the scanner.

The following is an example of the Initial State report.

Sample Initial State Report

```
*** Initial State Report ***
15:33:26 08/13/2009

DS200 Firmware Version:
  1.6.1.0
Power Management Firmware Version:
  1.2.4.0a
Scanner Firmware Version:
  2.22.0.0
Protected Count:370
Machine ID: 0000ES0107370024
ANY COUNTY, USA
PRIMARY ELECTION
0001 BETHELEHEM 1 0001
Election Date: December 31,
Maximum Number of Types: 1
Number of Precincts: 1
Number of Ballot Face Styles: 1
Audit Log Entries: 68/21158

System Configuration:
  Election Results Printing: Enabled
  Election Results Transferred: NO
  Diverter Installed: YES
  Unreadable Marks Setting: Reject
  Report Type: SUMMARY
  Ability to Reopen Polls: YES
  Report Format: Precinct By Precinct
  Report By Rotation: NO

  Election Configuration:
  Ballots by Style: YES
  Overvoted Ballots: Query
  Blank Ballots: Query
  Cross-over Ballots: Query
  Single Over-Vote: NO
  Divert Blanks to Write Bin: NO
  Response Type: OVAL
  Use Separate Non Party Type: NO
  Support Type: Election Day
  Language: A
  Save Ballot Images: A
  Suppress Race Title: Y

  Ballot Information:
  Inches: 14
  Rows: 36
  Columns: 3
  Ballot Sides Defined:
```

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### Audit Log Report

The audit log lists all of the scanner events that occur from the time you load your election definition USB flash drive into the scanner to the time you remove the flash drive after your election is complete. The audit log also displays the total number of write-in votes counted by the scanner as well as the number of accepted and rejected blank ballots, the number of overvoted ballots and the number of crossover ballots scanned.

The following is an abbreviated example of the Audit Log report.

#### Sample Audit Log Report

```plaintext
*** Audit Log Report ***
15:34:16 08/13/2012
Machine ID: 0000E50107370024
ANY COUNTY, USA
PRIMARY ELECTION 0001 BETHELHEM 1 0001
Election Date: December 31.

System Events
Protected Count: 371
Last Clock Change: 09:52:01 10/16/2007
Last Polls Open: 08:14:28 08/13/2009

Ballot Accounting
Precinct:
BETHELHEM 1
Total Blank Accept: 0
Total Blank Reject: 0
Total Overvote Accept: 1
Total Overvote Reject: 4
Total Crossover Accept: 0
Total Crossover Reject: 0
Total Marginal Accept: 0
Total Marginal Reject: 0
Total Write-ins: 0
Total Undervote Accept: 0
Total Undervote Reject: 0

Master Accounting:
Total Blank Accept: 0
Total Blank Reject: 0
Total Overvote Accept: 1
Total Overvote Reject: 4
Total Crossover Accept: 0
Total Crossover Reject: 0
Total Marginal Accept: 0
Total Marginal Reject: 0
Total Write-ins: 0
Total Undervote Accept: 0
Total Undervote Reject: 0

08:14:20 08/13/2009
ELECTION DEFINITION LOADED UNIT: 107370024
08:14:23 08/13/2009
Report Canceled
08:14:26 08/13/2009
User Event: Open Polls
08:14:26 08/13/2009
DIAGNOSTICS CHECK COMPLETED
08:14:26 08/13/2009
User Event: Status Report Selected
08:14:28 08/13/2009
POLL OPENED
```

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Zero Totals Report and Certification Report

The Certification report, or Zero Totals report, prints automatically when you open the polls for voting. The Zero Totals report lists the date and time that the polls open followed by the vote count for all of your contests and blank signature lines for poll worker certification. You can print multiple Zero Totals reports prior to casting the first ballot from the Polls Opened Menu. Once a ballot has been scanned you can no longer print a Zero Totals report.

Sample Zero Totals Report

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTER</td>
<td>PILOPP40 - OPEN PRIMARY</td>
<td>0001 PRECINCT 1</td>
</tr>
<tr>
<td>Election Date: January 02, 2010</td>
<td>Total Number Voting: 0</td>
<td></td>
</tr>
</tbody>
</table>

Precinct Voting Report

<table>
<thead>
<tr>
<th>PRECINCT 1</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Ballots</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Ballots for Code 00001-01-01</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

PARTY PREFERENCE

| REPUBLICAN PARTY | 0 |
| DEMOCRATIC PARTY | 0 |
| LIBERTARIAN PARTY | 0 |
| Over Votes       | 0 |
| Under Votes      | 0 |
| Total Votes      | 0 |

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Sample Certification Report

WE, THE UNDERSIGNED, DO HEREBY CERTIFY
THAT THE ABOVE RESULTS ARE A TRUE AND
ACCURATE ACCOUNT OF ALL BALLOTS COUNTED
AND THAT ALL COUNTERS WERE ZERO (0)
WHEN THE POLLS OPENED AND THAT THE
ELECTION WAS HELD IN ACCORDANCE WITH
THE LAWS OF THE STATE.

ELECTION JUDGE

ELECTION JUDGE

ELECTION JUDGE

ELECTION JUDGE

Poll Closing Reports

The DS200 prints the following reports when you are closing the polls:

- Status Report
- Precinct Report
- Poll Report
- Audit Log Report
- Ballot Styles Report

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- iUnity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S DS200 System Operations Procedures v. 1.6.1.0
August 7, 2012
Status Report

The status report lists the number of ballots accepted by the scanner and categorizes the ballots by type. This report also displays the ballot counts for each active precinct and the totals for your polling place, as well as a protected count of the public count totals.

NOTE: Counts of cross over votes are for statistical use and are not included in the ballot totals.

NOTE: The Protected Count in the Status report gets incremented every time when the Public Count value gets incremented. In multi page ballot election, the protective count gets incremented with every accepted page. The Protected Count is used to ensure vote counting accuracy.

Sample Status Report

*** Status Report ***
15:36:37 08/13/2009
Protected Count: 370
Machine ID: 0000ES0107370024

ANY COUNTY, USA
PRIMARY ELECTION
0001 BETHLEHEM 1 0001
Election Date: December 31,
BETHLEHEM 1

Ballot Types:
ALL
----
1
Total: 1

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
• iVotronic DRE
• Unity Data Acquisition Manager (DAM)
• Unity iVotronic Ballot Image Manager (iVIM)
USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Precinct Report

The precinct report displays the results for every contest voted on the scanner broken down by precinct.

Sample Precinct Report—Summary Format

```
*** Voting Results Report ***
10:48:54 06/19-2002

Any County   1
Any State Open Primary 17/41
0001 POLLING PLACE 1 0001
Election Date: July 4, 2002
Total Number Voting: 4

WARD 1
Total Ballots1

PARTY PREFERENCE
DEMOCRAT 0
REPUBLICAN 1
WISCONSIN GREEN 0
LIBERTARIAN 0
Over Votes 0
Under Votes 0

Total Votes 1
(REP) GOVERNOR
CHUCK HALE 1
Write In 0
Over Votes 0
Under Votes 0

Total Votes 1
(REP) LIEUTENANT GOVERNOR
MICK FLEETWOOD
Write In 0
Over Votes 0
Under Votes 1

Total Votes 1
NONPARTISAN JUDICIAL RACE
JUDICIAL CANDIDATE 11
Over Votes 0
Under Votes 0

Total Votes 1
```

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Poll Report

The poll report displays the results for every contest voted by polling place.

Sample Poll Report—Summary Format

<table>
<thead>
<tr>
<th>County</th>
<th>District</th>
<th>Name</th>
<th>Position</th>
<th>Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>John Doe</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jane Smith</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Peter Johnson</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S August 7, 2012

ES&S DS200 System Operations Procedures v. 1.6.1.0
Audit Log Report

The audit log lists all of the scanner events that occur from the time you load your election definition USB flash drive into the scanner to the time you remove the flash drive after your election is complete. The audit log also displays the protected count of scanned ballots, total number of write-in votes counted by the scanner as well as the number of accepted and rejected blank ballots, the number of overvoted ballots and the number of crossover ballots scanned.

Sample Audit Log Report

*** Audit Log Report ***
11:08:09  06/19/2002

System Events
Protected Count: 371
Last Clock Change: 15:10:11 12/18/2001
Last Power On: 11:02:49  06/19/2002
Last Polls Open: 11:04:16  06/19/2002

Ballot Accounting
Precinct: WARD 3
Total Blank Accept:0
Total Blank Reject:0
Total Overvote Accept:0
Total Overvote Reject:0
Total Crossover Accept:0
Total Crossover Reject:0
Total Marginal Accept:1
Total Marginal Reject:0
Total Write-Ins: 0
Total Undervote Accept:0
Total Undervote Reject:0

Master Accounting:
Total Blank Accept:0
Total Blank Reject:0
Total Overvote Accept:0
Total Overvote Reject:0
Total Crossover Accept:0
Total Crossover Reject:0
Total Marginal Accept:1
Total Marginal Reject:0
Total Write-Ins: 0
Total Undervote Accept:0
Total Undervote Reject:0

11:02:49  06/19/2002
ELECTION DEFINITION LOADED UNIT: 3159

11:03:05  06/19/2002
User Event: Open Polls

11:03:09  06/19/2002
SUPERVISOR SWITCH DISENGAGED

11:03: 09  06/19/2002
DIAGNOSTICS CHECK COMPLETED

11:03:10  06/19/2002
COUNTERS CLEARED
11:04:16  06/19/2002
Polls Opened
11:04:53  06/19/2002

FIRST BALLOT PROCESSED

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

● iVotronic DRE ● Unity Data Acquisition Manager (DAM) ● Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Ballot Styles Report

The Ballot Styles Report is an optional report containing counts of each ballot style processed for each precinct during early voting. You can print this report from the DS200 while the machine is open. Some users choose to print this report when closing polls for the day, others run the report after emptying each ballot bin. The date, time, and DS200 serial number is printed at the beginning and end of the report.

The report is only available if you have an early vote poll and when the polls are open.

The following is an example of the Ballot Styles report.

```plaintext
*** BallotStyle Counts Per Precinct ***
15:43:49 08/13/2009
Machine ID: 0000ES0107370024

PRECINCT 1
Ballots for code 00001-01-01  0

PRECINCT 2
Ballots for code 00002-01-01  0

PRECINCT 5
Ballots for code 00003-01-01  0

PRECINCT 18
Ballots for code 00004-01-01  0
Ballots for code 00004-01-02  0

15:43:49 08/13/2009
Machine ID: 0000ES0107370024

0005 Early Voting Poll
Election Date: September 07, 2010
```
Diagnostic Reports

The DS200 prints the following diagnostic reports:

- Debug Report
- Configuration Report
- System Audit Log Report
Debug Report

The debug report displays low-level system settings. ES&S technical support uses the debug report to diagnose problems with the DS200.

Sample Debug Report

*** DEBUG REPORT ***
11:09:48 06/19/2007

Program Version: 0.1.2.0.0
Errno: 0
Errno String: Success
1 minute load average (loads [0]): 13056
5 minute load average (loads [1]): 4896
15 minute load average (loads [2]): 1216
Total usable main memory size: 4620000128 (bytes)
Available memory size: 410054856 (bytes)
Amount of shared memory: 0 (bytes)
Memory used by buffers: 3174400 (bytes)
Total swap space size: 0
Swap size still available: 0
Number of current processes: 28
Total high memory size: 0 (bytes)
Available high memory size: 0 (bytes)
Memory unit size in bytes: 1

Election Definition Size: 6308 Bytes
Configuration Report

The configuration report lists system and election configuration settings along with scanning parameters.

Sample Configuration Report

*** Configuration Report***
11:10:10  06/19/2008

DS200 Firmware Version:
1.3.6.0
Power Management Firmware Version:
2.8.0.0
Machine ID: 3161
Wisconsin Certification
Wisconsin Open Primary 19/68
0002 POLLIN PLACE 2 0002
Election Date: November 7, 2008
Maximum Number of Types: 6
Number of Precincts: 1
Number of Ballot Face Styles: 6
Audit Log Entries: 14/20857

System Configuration:
Election Results Printing: Enabled
Election Results Transferred: NO
Diverter Installed: YES
Unreadable Marks Setting: Reject
Report Type: Summary
Ability to Reopen Polls: YES
Report Format: Poll Report
Report by Rotation: NO

Election Configuration:
Ballots by Style: NO
Overvoted Ballots: Query
Blank Ballots: Query
Cross-over Ballots: Query
Single Overvote: NO
Divert Blanks to WriteIn Bin: NO
Response Type: OVAL
Use Separate Non Party Type: YES

Ballot Information:
Inches: 17
Rows: 45
Columns: 3
Ballot Sides Defined: 2
Support Type: Early Vote

Modem Info
Modem Phone#: 1

Scanning Parameters:
Scanning Threshold Top: 168
Scanning Threshold Bottom: 166

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
●iVotronic DRE ●Unity Data Acquisition Manager (DAM) ●Unity/iVotronic Ballot Image Manager (iVIM)
USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

ES&S DS200 System Operations Procedures v. 1.6.1.0
ES&S
August 7, 2012
NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Chapter 10: Maintaining the Counter

Perform the following maintenance tasks to keep your DS200 scanner in proper working order:

- **Clean the Scanner**
- **Clean the Ballot Box**
- **Replace the Paper Roll**
- **Maintain the Scanner Battery**

Clean the Scanner

Clean your scanner before and after each election.

1. Turn off the scanner and unplug the power cord.

    **Electrical Shock Danger:** Always unplug the AC power cord and turn the scanner off before you clean a DS200 scanner.

2. Clean the ballot entry and exit slots with a can of pressurized clean, dry air or inert gas, which is available for order from ES&S. Aim the air can’s spray tube into the ballot entry slot and blow out all the debris. Clean the ballot exit slot in the same way. Repeat the entire procedure and inspect the entrance and exit slots with a flashlight.

3. Use pressurized air to remove dust and debris from around the menu display.

4. Use a soft, lint-free cloth and water, or Isopropyl Alcohol (70%), to wipe down the scanner. Dampen, do not soak, the cloth with the cleaning solution. Do not spray cleaning solution directly onto the scanner.

5. Clean the LCD display window with the damp cloth. Be careful not to scratch the display panel.

6. Use the cloth and cleaning solution to clean the scanner’s outer case. Start at the top and work down to the base.

7. Clean the scanner’s stainless steel base plate with the cleaning solution. Wipe all traces of the cleaning solution off the scanner after you finish cleaning.
8. Unlock the rear access door on the back cover of the DS200.

9. Once this door is unlocked and back cover of the DS200 is raised, the ballot transport mechanism can be opened.

10. Lift up the latches on the left and right side of the ballot transport.
11. Lift up the top cover to access the ballot transport.

12. Use a lint-free cloth and isopropyl alcohol to clean the spring plates opposite the contact image sensors.

13. Clean the rubber rollers on the bottom surface of the ballot transport.

Clean the Ballot Box

Clean your DS200 ballot boxes either before or after each election. The ballot box requires no disassembly.

1. Use a cloth dampened with cleaning solution to clear dust and debris from the ballot box.

2. Remove the divider from the lower ballot bin before you clean the bottom section of the ballot box. Clean the inside of the bin first and then the outside. Wipe down the interior ballot divider and the box cover. Remember to periodically rinse the cleaning cloth.
3. Stand the ballot box upright to clean the recessed, scanner housing.

**Warning:** Make sure the power cord and the diverter motor connector are not damaged or dirty.

4. Turn the mounting pedestal upside down and clean the inside of the box. Use a soft cleaning brush or feather duster to clear dust and debris. Use a brush to clean the diverter vane, the diverter motor and the controller circuit board for the ballot diverter. Do not to bend or damage any of the sensitive components contained in the diverter motor assembly.

5. Use a brush to clean debris and dust from the ballot chute assembly. Do not use liquids to clean the inside of scanner mounting pedestal. Re-assemble the unit after you finish cleaning.

### Replace the Paper Roll

Check the DS200 printer and change the paper roll, if necessary, for Election Day.

**NOTE:** A warning message may appear if the internal printer is out of paper.

1. Unlock the access door, located above the printer. This will provide access to the printer release lever.
2. Press the lever to unlock the printer door.

3. Open the printer door.

4. Drop the paper into the printer paper compartment.

![Important: Make sure the glossy side of the thermal paper is facing the thermal printer.](image)

5. Pull the end of the paper roll out toward the input tray of the DS200.
6. Close the printer door and press firmly on the door to make sure it locks into place.
7. Lock the access door above the printer.

![Warning] If the printer door is not properly locked in position, the printer may not function.

Test the Thermal Printer

Before you open the polls, test the thermal printer to see if your printer paper is installed correctly.

1. Take the paper that is sticking out of the DS200 and fold it over to your left.
2. Scratch the paper. If a grey mark appears, the paper is loaded correctly. If a grey mark does not appear, open the printer door and place the paper in the printer so the thermal (the side where the grey mark appears) is facing the thermal printer.
Maintain the Scanner Battery

The DS200 uses an 18-volt, 5-amp lithium ion battery to power the scanner in case of an electrical power failure. A fully charged battery can power an “active” scanner for up to two hours and an “idle” scanner for up to three hours. The machine is “active” when counting ballots or printing reports. Estimated battery life is five years.

To check the charge for your backup battery, look at the light indicator on the back of your DS200 machine.

❖ If the light is flashing **green**, the battery is charged.
  • If the light is green and not flashing, the DS200 is plugged in and the battery is fully charged.
  • If the light is flashing at a slow rate, the DS200 is operating on battery power and the battery has 75 percent or more of its charge remaining.
  • If the light is flashing at a medium rate, the DS200 is operating on battery power and the battery has 50 percent of its charge remaining.
  • If the light is flashing at a fast rate, the DS200 is operating on battery power and the battery has 25 percent of its charge remaining.

❖ If the light is **amber**, the battery is charging. If the light is amber, allow the DS200 to charge until the light turns green. If the battery is not charged, it will take up to six hours to charge the battery.
  • If the light is flashing at a slow rate, the battery is 75 percent charged.
  • If the light is flashing at a medium rate, the battery is 50 percent charged.
  • If the light is flashing at a fast rate, the battery is 25 percent charged.
If the light is **flashing red**, the battery is not taking a charge. This could be caused by:

- A dead battery.
- A bad connection to the battery.
- No battery is in the DS200.

**NOTE:** If the DS200 has not operated on battery power and was stored with a full battery charge, the charge time required to fully recharge the battery will be minimal.

**Battery Cautions**

**Warning:** Removing the battery from the scanner exposes it to risks that are not present under normal operating conditions.

Shorting the battery terminals together is especially hazardous even if the battery is “discharged” or “dead.” Shorting the terminals can create sparks, melt wires, and possibly start a fire. Use extreme caution when handling the backup battery.

**NOTE:** The DS200 battery may be recycled. Please dispose of the battery properly.

**Charge the Battery**

The amount of time required to charge a battery can be anywhere from five minutes to seven hours, depending on the battery’s current charge.

Refer to the **Charge the Battery** heading of Chapter 5: Pre-Election Day Tasks for more information about the battery power icons.
Part 6: Appendix

Part 6 contains information about the following topics.

- Chapter 11: System Messages
- Chapter 12: Troubleshooting
- Chapter 13: Load New Firmware onto the DS200
- Chapter 14: Miscellaneous Information

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Chapter 11: System Messages

This chapter lists all messages a user could encounter on the DS200. In addition to the message itself, the scanner beeps to provide an audible cue that a message requires attention from a poll worker.

If you find your message in this chapter and still require assistance, contact your election administrator to schedule technical service or a back-up machine. Election administrators may contact ES&S at 1-800-247-8683.

Messages can appear in one or more ways. The following message list indicates if the individual message is:

- Displayed to the screen
- Printed to the tape when the message event occurs
- Appears in the audit log
- Will lead to a system halt

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

iVotronic DRE • Unity Data Acquisition Manager (DAM) • Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCEPT BALLOTS FOR PRECINCT</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>ATTEMPT SEND RESULTS</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>AUDIT LOG FULL</td>
<td>This message appears if audit log is full. There is a large but limited capacity for audit log entries stored to the USB flash drive.</td>
<td>The system will shutdown after allowing the user to print the current audit log. A new USB flash drive is required to continue counting ballots. Remove the original USB flash drive and insert a new USB flash drive programmed with a duplicate election definition. Return to the menu and function where the error occurred and contact your system administrator.</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Automatically Send Results</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Ballot Cast</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Ballot Dragged. Turn Ballot Over and Try Again</td>
<td>The ballot did not travel through the transport properly.</td>
<td>Turn the ballot over and try to scan the ballot again. If the problem persists, follow your jurisdictions procedures for &quot;spoiling&quot; the ballot and issue another to the voter. If it continues after that, contact your election administrator to schedule technical service and request backup equipment.</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Ballot found in scanner during startup could not be removed</td>
<td>Ballot jammed in transport</td>
<td>Follow instructions in documentation for removing the ballot and restart DS200.</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballot found in scanner during startup is ejected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Ballot image exceeds skew threshold.</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Ballot Jam During Return: Ballot not counted</td>
<td>DS200 failed to return the ballot to the user due to a jam error.</td>
<td>Remove ballot from the transport, and re-insert again.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ballot Jam: Ballot counted but not saved to bin</td>
<td>This message appears if a DS200 has read and counted a ballot, but the scanner’s exit sensor indicates that the ballot has not completely exited the scanner and dropped into the ballot bin. Reasons for this error can include a power cable intruding on the ballot path or the ballot bin being full and unable to hold any additional ballots.</td>
<td>Remove the ballots from the ballot bin and store them in a secure location. Because the DS200 has already counted the ballot that triggered this message, store this ballot with the other counted ballots. Do not rescan the ballot.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ballot Jam: Check Bin Or Diverter. Please check for damage and reinsert</td>
<td>The scanner was not able to drop the ballot into the box.</td>
<td>Check to make sure the ballot bin door is open and that the diverter is not stuck or damaged and then re-insert the ballot.</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ballot Jam: Remove Ballot. Please check for damage and reinsert</td>
<td>The ballot is stuck in the middle of the transport.</td>
<td>Clear the ballot path and inspect both the path and the ballot for damage. If no damage found, re-insert the ballot. If the paper transport is damaged, contact your election administrator to request technical service and backup equipment.</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### Chapter 11: System Messages

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballot Jam: Stacked Diverter. Please check for damage and reinsert</td>
<td>Ballots have stacked up on top of the diverter and are causing newly inserted ballots to get stuck in the transport.</td>
<td>Clear the ballot path and follow the instructions for your jurisdiction for clearing ballots from the top of the diverter. If no damage found to the scanner or the ballot, re-inset the ballot. If damage to the scanner is found, contact your election administrator to request technical service and backup equipment.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ballot Not Detected After Scan: Ballot Counted</td>
<td>The ballot was removed from the scanner, was dropped into the ballot bin, or the ballot is under the exit sensor, but the exit sensor indicated the incorrect status.</td>
<td>If the ballot is visible under the scanner's exit sensor, manual drop the ballot into the ballot box since it has been counted. If the ballot wasn't located near to scanner's exit sensor, or near the scanner, this means that the ballot did get counted but might drop into the scanner bin. In this case no action required.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ballot Not Detected After Scan: Ballot Not Counted</td>
<td>The ballot was removed from the scanner, was routed into the ballot bin, or the ballot is located under the exit sensor, but the exit sensor gave the incorrect status.</td>
<td>If the ballot is visible under the scanner's exit sensor, remove the ballot from the transport and re-scan the ballot. If the ballot wasn't located near the scanner's exit sensor or by the scanner bin, this means that the ballot didn't get counted but might drop into in the scanner bin and in this case, the number of voters indicated by the DS200 might not match the expected number by the poll worker.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.
### Message Text | Cause | Resolution | Message Displayed | Message Printed | Message Logged | Results in a System Halt
--- | --- | --- | --- | --- | --- | ---
Ballot Not Inserted Far Enough. Please Re-insert Ballot After Beeps | The user did not insert the ballot far enough to engage the transport rollers. | Wait for the beeps to stop and then re-insert the ballot. If the problem persists, contact your election administrator to request technical service and backup equipment. | X | X | |
Ballot Read Error. Please See Election Official | The user has inserted a photocopied ballot and is possibly counterfeit. | Contact the Election Administrator for instructions specific to your jurisdiction. | X | X | |
Ballot Read Error. Turn Ballot Over and Try Again | This message appears if the ballot cannot be read due to the ballot being slanted or crooked in the transport. | Remove ballot from the transport, and re-insert again. If the problem persists, Contact your election administrator for information specific to your jurisdiction. | X | |
Ballot Rejected: Election Media Full | This message appears if the USB flash drive is full and there is no room to store additional election data. Results from the ballot currently inserted in the machine are not added to the scanner’s running total. | The system stops when the media is full. Shut down the DS200 and keep the USB flash drive loaded in the scanner. Contact your election administrator for information specific to your jurisdiction. | X | X | |
Ballot Too Long. Please See Election Official | The inserted ballot is longer than the ballot length that was programmed into the election definition. | Insert a ballot of the correct length. If the error occurs again, contact your election administrator to schedule technical service. | X | X | |
Ballot Too Short. Please See Election Official | The inserted ballot is shorter than the ballot length that was programmed into the election definition | Insert a ballot of the correct length. If the error occurs again, contact your election administrator to schedule technical service. | X | X | |

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

Use of any uncertified system negates the Unity 3.4.0.0 Federal Certification:
## Notice of Uncertified Functionality

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.

### Table of System Messages

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ballot Transport Error During Scan: Ballot Not Counted</td>
<td>A unique case in the scanner firmware didn't get handle properly and caused the ballot to drop into the ballot box after scan and before got through the tabulation process. Or manually the ballot was pulled immediately after scan. Ballot will not be counted.</td>
<td>If the ballot is visible under the scanner's exit sensor, Remove ballot from the transport and re-scan ballot. If the ballot wasn't anywhere close to scanner's exit sensor, or by the scanner bin. This means the ballot didn't get counted but might end up in the scanner bin, and in this case the number of voters from DS200 might does not match the expected number by the poll worker.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>BLANK BALLOT ACCEPTED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>BLANK BALLOT RETURNED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Blank Query Override Disabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Blank Query Override Enabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>BLOCKED SENSOR CONTINUOUS</td>
<td>This message appears if the scanner detects an obstruction on part of the CCD array Read-Head, or a contiguous vertical line on the ballot.</td>
<td>Check the scanner for foreign material and remove if found. If problem persists contact your election administrator to schedule technical service and request a backup scanner.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Changing time zones requires restart. System now shutting down...</td>
<td>This message indicates the current time-zone has been changed and the scanner is about to re-start.</td>
<td>Follow the on-screen procedure to set-up the new time-zone. A re-start is required at this time.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Configuration Report Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

### Notice of Ballot Transport Error

**Message Text:** Ballot Transport Error During Scan: Ballot Not Counted

**Description:** A unique case in the scanner firmware didn't get handle properly and caused the ballot to drop into the ballot box after scan and before got through the tabulation process. Or manually the ballot was pulled immediately after scan. Ballot will not be counted.

**Resolution:** If the ballot is visible under the scanner's exit sensor, remove ballot from the transport and re-scan ballot. If the ballot wasn't anywhere close to scanner's exit sensor, or by the scanner bin. This means the ballot didn't get counted but might end up in the scanner bin, and in this case the number of voters from DS200 might not match the expected number by the poll worker.

**Message Displayed:** X

**Message Printed:** X

**Message Logged:** X

**Results in a System Halt:** X
## Message Text | Cause | Resolution
---|---|---
COUNTER BLOCK FAILED CRC | This message appears if the counter block fails a cyclic redundancy check (CRC). As the election progresses, data is copied to the Election Media Device in “counter blocks” of data. The CRC is a safety check that the scanner performs to ensure proper copying of data to the card. | The USB flash drive may be corrupt; either reprogram the same USB flash drive or try a different drive programmed with a duplicate election definition. If the machine has already processed election day ballots contact your election administrator for additional instruction on how to proceed. If the message continues, contact your election administrator to schedule technical service and request backup equipment. |
Counterfeit Calibration Fail | This message indicates the scanner counterfeit sensor is damaged and the calibration cannot be performed. | The system will not process ballots with counterfeit marks correctly. Contact your election administrator to schedule technical service. |
Counterfeit Calibration Menu Accessed | Status Message | NA |
Counterfeit Calibration Started | Status Message | NA |
Counterfeit Calibration Success | Status Message | NA |
Counterfeit Multiplier Change Failed | This message indicates the scanner counterfeit sensor is damaged and the calibration cannot be performed. | The system will not process ballots with counterfeit marks correctly. Contact your election administrator to schedule technical service. |
Counterfeit Multiplier Changed | Status Message | NA |

### Message Displayed, Message Printed, Message Logged
- X: Displayed
- X: Printed
- X: Logged

### Results in a System Halt
- X: Halt

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counterfeit Multiplier Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>COUNTERS ARE FULL</td>
<td>This message appears if the counter blocks on the USB flash drive are full and there is no room to write further counts to the flash drive. Results from the ballot currently inserted in the machine are not added to the scanner’s running total.</td>
<td>The system will not allow election processing to continue when counters are full. Contact your election administrator to request technical assistance.</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>COUNTERS ARE IN OVERFLOW</td>
<td>The counter has exceeded its storage limit. If this error occurs, the election results stored to the scanner’s DRAM are corrupt, although the scanner values on the USB flash drive may be correct.</td>
<td>The system will not allow election processing to continue. The system will force the user to shutdown. After the shutdown turn the scanner back on. Keep the USB flash drive loaded in the scanner. If the error persists, contact your election administrator to request technical assistance.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>COUNTERS CAN NOT HOLD NEXT COUNT</td>
<td>There is not enough space left within the counters to store the count for the current race.</td>
<td>The system will not allow election processing to continue. The system will force the user to shutdown. After the shutdown, turn the scanner back on. Leave the USB flash drive loaded in the scanner. If the error persists, contact your election administrator to request technical assistance.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>COUNTERS CLEARED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Crossover Query Override Disabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Message Text</td>
<td>Cause</td>
<td>Resolution</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossover Query Override Enabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossover Type Not Defined!</td>
<td>The election definition contains an invalid location for crossover information.</td>
<td>Contact your election administrator to obtain a new USB flash drive containing the correct election definition. If this does not work, contact ES&amp;S customer support.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CROSSVOTED BALLOT ACCEPTED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CROSSVOTED BALLOT RETURNED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CURRENT UNIT</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATA TRANSMISSION CODE ENTERED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date - Time Changed Successfully</td>
<td>Status Message</td>
<td>This message appears when you change the date only, time only or both.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Debug Report Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIAGNOSTICS CHECK COMPLETED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Table Printed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diverter Detection Error</td>
<td>This message appears if the election definition loaded into the DS200 is programmed for a ballot box with a diverter unit, but the diverter motor is not working properly.</td>
<td>Contact your election administrator to schedule technical service and request backup equipment.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### Message Text | Cause | Resolution | Message Displayed | Message Printed | Message Logged | Results in a System Halt
--- | --- | --- | --- | --- | --- | ---
Diverter Diagnostic Left Selected | Status Message | NA | | | | X
Diverter Diagnostic Right Selected | Status Message | NA | | | | X
Diverter Diagnostic Test Selected | Status Message | NA | | | | X
Diverter Not Detected | This message appears if the election definition loaded into the DS200 is programmed for a ballot box with a diverter unit, but the scanner cannot detect a divert unit. | Contact your election administrator to schedule technical service and request backup equipment. | X | | X
DIVERTER NOT FOUND | This message appears if the election definition loaded into the DS200 is programmed for a ballot box with a diverter unit, but no diverter unit is detected. | Contact your election administrator to schedule technical service and request a backup scanner. | X | | X
Diverter Not Initialized | This message appears if the election definition loaded into the DS200 is programmed for a ballot box with a diverter unit, but the diverter failed to initialize. | Contact your election administrator to schedule technical service and request backup equipment. | X | | X
DRAM COUNTER SPACE BAD | This message appears if the scanner encounters a problem with the DRAM memory section that stores the election results. | The System halt screen will appear requiring the user to shut down the machine. Contact your election administrator to schedule technical service and request a backup scanner. | X | X | X | X

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### Message Text | Cause | Resolution |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTION CERTIFIED-MEDIA IN ROM MODE</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>ELECTION DEFINITION FAILED CRC</td>
<td>This message indicates that the election definition failed the CRC.</td>
<td>The Election Media Device may be corrupt and a new Media Device is required. Contact your election administrator to schedule technical service.</td>
</tr>
<tr>
<td>ELECTION DEFINITION LOADED</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>ELECTION DEFINITION REMOVED</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>ELECTION MEDIA DRIVER MISSING</td>
<td>The message appears if the election definition file descriptor is invalid.</td>
<td>The system will not allow election processing to continue. Contact your election administrator to schedule technical service and request a backup scanner.</td>
</tr>
<tr>
<td>ELECTION MEDIA DRIVER MISSING ERROR RETRIEVING MEDIA DEVICE NAME</td>
<td>The message appears if the scanner cannot retrieve a valid USB media device name.</td>
<td>Make sure that the USB Election Media is secure inserted into the machine and re-try the last action. If problems persist, contact you election administrator for additional actions specific to your jurisdiction.</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### ELECTION MEDIA NOT INSERTED
This message appears if the Election Media is removed while the scanner attempts to access the USB drive. The system will not allow election processing to continue and removing the USB Election Media before the machine is shut down may corrupt the data stored to the Election Media. Make sure the media is properly inserted by turning the system off, re-inserting the USB drive, and turning the power back on. If this action fails, you may require a new Election Media device. Try the same procedure with a different Election Media programmed with a duplicate election definition. If the error continues, contact your election administrator to schedule technical service and request a backup scanner.

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTION MEDIA NOT INSERTED</td>
<td>This message appears if the Election Media is removed while the scanner attempts to access the USB drive. The system will not allow election processing to continue and removing the USB Election Media before the machine is shut down may corrupt the data stored to the Election Media. Make sure the media is properly inserted by turning the system off, re-inserting the USB drive, and turning the power back on. If this action fails, you may require a new Election Media device. Try the same procedure with a different Election Media programmed with a duplicate election definition. If the error continues, contact your election administrator to schedule technical service and request a backup scanner.</td>
<td>X X X X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTION MEDIA RECOVERED IN MACHINE</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>ELECTION MEDIA WITH OPEN POLLS DETECTED</td>
<td>The USB flash drive containing the election definition is in the open polls mode.</td>
<td>X</td>
</tr>
<tr>
<td>ELECTION RESULTS SENT</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>ENTERED BALLOT TEST MODE</td>
<td>Status Message</td>
<td>NA</td>
</tr>
</tbody>
</table>

### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.
### Chapter 11: System Messages

#### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.

<p>| Message Text               | Cause                                                | Resolution                                                                 | Message Displayed | Message Printed | Message Logged | Results in a System Halt |
|----------------------------|                                                      |                                                                          | X               | X              | X              | X                     |
| Error Compressing Ballot Image | The ballot image file could not be compressed.        | The system will not allow processing to continue and will shut down. Contact your election administrator to request technical service and possible additional information specific to your jurisdiction. | X               | X              | X              | X                     |
| Error Creating Ballot Image PBM File | The PMB file could not be created on the USB flash drive. | The system will not allow processing to continue and will shut down. Contact your election administrator to request technical service and possible additional information specific to your jurisdiction. | X               | X              | X              | X                     |
| Error Creating Directory | The system was not able to create a file system directory. | The system will not allow processing to continue and will shut down. Contact your election administrator to request technical service and possible additional information specific to your jurisdiction. | X               | X              | X              | X                     |
| Error Moving Image PBM File | An error occurred while moving a ballot image file from one location to another in the filesystem. | The system will not allow processing to continue and will shut down. Contact your election administrator to request technical service and possible additional information specific to your jurisdiction. | X               | X              | X              | X                     |
| ERROR READING ELECTION MEDIA | An error occurred while reading data from the USB election media. | The system will not allow processing to continue and will require the user to shut down. Contact your election administrator to request technical service | X               | X              | X              | X                     |</p>
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERROR READING ELECTION MEDIA. UNABLE TO LOAD ELECTION DEFINITION</td>
<td>An error occurred while attempting to load the election definition from the USB election media.</td>
<td>Shut down the unit and make sure the election media is completely inserted into the USB socket. Then, re-start the unit and attempt to open the election. If the problem persists, contact your election administrator to request technical service.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ERROR READING SYSTEM AUDIT LOG</td>
<td>This message appears if an error occurs while the scanner reads the system audit log stored on the internal compact flash card.</td>
<td>The system will not allow processing to continue. It is possible the section of the compact flash that hold the system log is corrupt. Contact your election administrator to schedule technical service and request backup equipment.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Error Retrieving Password</td>
<td>The system could not retrieve the stored password to match against the user enter password.</td>
<td>The system will not allow processing to continue and will shut down. Contact your election administrator to request technical service and possible technical service.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Error Saving Ballot Image</td>
<td>The DS200 cannot save the ballot image to the USB flash drive.</td>
<td>The system will shut down. Contact your election administrator for information specific to your jurisdiction.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ERROR SEEKING ON ELECTION MEDIA</td>
<td>An error occurred while seeking a specific location on the election definition file.</td>
<td>Make sure that the USB Election Media is secure inserted into the machine and re-try the last action. If problems persist, contact you election administrator for additional actions specific to your jurisdiction.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.
### Chapter 11: System Messages

#### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

**USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.**

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERROR SEEKING ON ELECTION MEDIA</td>
<td>An error occurred while seeking a specific location on the election definition file.</td>
<td>Make sure that the USB Election Media is secure inserted into the machine and re-try the last action. If problems persist, contact you election administrator for additional actions specific to your jurisdiction.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Error Setting Timestamp on Ballot Image</td>
<td>An error occurred while changing the ballot image timestamps.</td>
<td>The system will not allow processing to continue and will require the user to shut down. Contact your election administrator to schedule technical service and request a backup scanner.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ERROR WRITING ELECTION MEDIA</td>
<td>An error occurred while writing data to the USB election media.</td>
<td>Contact your election administrator to schedule technical service and request a backup scanner.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ERROR WRITING ELECTION MEDIA</td>
<td>An error occurred while writing data to the USB election media.</td>
<td>The system will not allow processing to continue and will shut down. Contact your election administrator to request technical service and possible additional information specific to your jurisdiction.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ERROR WRITING SYSTEM AUDIT LOG</td>
<td>This message appears if an error occurs while the scanner is writing the system audit log stored on the internal compact flash card.</td>
<td>The system will not allow processing to continue. It is possible the section of the compact flash that hold the system log is corrupt. Contact your election administrator to schedule technical service and request backup equipment.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Message Text</td>
<td>Cause</td>
<td>Resolution</td>
<td>Message Displayed</td>
<td>Message Printed</td>
<td>Message Logged</td>
<td>Results in a System Halt</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>-----------------</td>
<td>-----------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>ERROR: Incomplete Data Transfer</td>
<td>Could be any network problem caused the modem operation to fail before send all the precincts data.</td>
<td>Check the phone line connection, then Try again, If the problem persists, contact your election office.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ERROR: Invalid Password</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>ERROR: Invalid Phone Number</td>
<td>Phone number associated with modeming is invalid.</td>
<td>The system will not allow modeming. Contact your election administrator to report this issue and make sure the correct election definition was provided to your poll place.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ERROR: Modem Setup Failed</td>
<td>Your modem may not be plugged in.</td>
<td>Check to see if the modem is plugged in correctly.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ERROR: No Host Response</td>
<td>The phone line is not plugged in correctly.</td>
<td>Check the phone line connection. If the problem persists, contact your election office.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ERROR: No Modem Found</td>
<td>Phone number associated with modeming is invalid.</td>
<td>Check the phone line connection. If the problem persists, contact your election office.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>EVENT LOG FAILED CRC</td>
<td>The Event Log failed the Cyclic Redundancy Check (CRC). A CRC is a safety check the counter performs to ensure that data is being copied properly.</td>
<td>The USB flash drive may be corrupt; either reprogram the same USB flash drive or try a different drive programmed with a duplicate election definition. If the machine has already processed election day ballots contact your election administrator for additional instruction on how to proceed. If the message continues, contact your election administrator to schedule technical service and request backup equipment.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVENT LOG FAILED CRC COMPUTED CRC DIDN’T MATCH</td>
<td>The Event Log failed the Cyclic Redundancy Check (CRC). A CRC is a safety check the counter performs to ensure that data is being copied properly.</td>
<td>The USB flash drive may be corrupt; either reprogram the same USB flash drive or try a different drive programmed with a duplicate election definition. If the machine has already processed election day ballots contact your election administrator for additional instruction on how to proceed. If the message continues, contact your election administrator to schedule technical service and request backup equipment.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>EXITED BALLOT TEST MODE</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Failed to Get Precinct Name</td>
<td>The firmware failed to read precinct name from the election definition, possibly a problem in the election definition or the USB stick itself.</td>
<td>Contact ES&amp;S customer support.</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Failed To Log Error Event</td>
<td>Adding an event to the audit log failed and the log is not full.</td>
<td>The system will not allow election processing to continue and will force the user to shut down. After the shutdown, re-start the DS200. If the error appears again, contact your election administrator to request technical service and backup equipment.</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filesystem Sync Failed</td>
<td>An error occurred while saving a file to the USB media.</td>
<td>This message may occur if you pull the USB flash drive out before the DS200 has finished working with it. Be sure you do not pull out the USB flash drive until after you shut down the DS200 after the polls close. Contact your election administrator for additional instructions.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Firmware Update has Failed</td>
<td>The scanner was unable to update the firmware.</td>
<td>Contact ES&amp;S technical support.</td>
<td>X</td>
<td>X</td>
<td>NA</td>
<td>X</td>
</tr>
<tr>
<td>FIRST BALLOT PROCESSED</td>
<td>Status Message</td>
<td>NA</td>
<td>X</td>
<td>X</td>
<td>NA</td>
<td>X</td>
</tr>
<tr>
<td>GUI Client Error</td>
<td>An internal error occurred in the GUI engine.</td>
<td>The DS200 will shut down. Restart the DS200. If you continue to receive this error, contact your election administrator for additional instructions.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>INCOMPATIBLE ELECTION MEDIA FORMAT XXX PLEASE REMOVE CARD FROM SLOT</td>
<td>This message appears if the version for the election definition in the inserted USB is not what the firmware supports. They used old version of HPM to code the election card.</td>
<td>Contact your election administrator to burn a new election card using the correct version of HPM.</td>
<td>X</td>
<td>X</td>
<td>NA</td>
<td>X</td>
</tr>
<tr>
<td>INCOMPATIBLE SYSTEM LOG FORMAT</td>
<td>This message indicates that the System Log format is incompatible with the current application code version.</td>
<td>Contact your election administrator to schedule technical service.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.
### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incorrect Password Entered Please Try Again, or Cancel</td>
<td>This message indicates that an incorrect password has been entered.</td>
<td>The system will not accept the password. Please follow the on-screen instruction to cancel or re-try the password entry.</td>
</tr>
<tr>
<td>INVALID SEQ-TYPE-SPLIT FOR ELECTION</td>
<td>This message indicates that the Sequence-Type-Split code on an inserted ballot does not match the codes defined in the election definition. The ‘X’ values will be the Sequence-Type-Split code of the scanned ballot.</td>
<td>Insert a ballot with the correct Sequence-Type-Split code. If the error occurs again, contact your election administrator to schedule technical service.</td>
</tr>
<tr>
<td>MARGINAL MARK</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>MARGINAL MARK BALLOT ACCEPTED</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>MARGINAL MARK BALLOT RETURNED</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>Marginal Query Override Disabled</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>Marginal Query Override Enabled</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>Mark Code Printed</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>Maximum Number Of Precincts Exceeded</td>
<td>Status Message</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Text</td>
<td>Cause</td>
<td>Resolution</td>
<td>Message Displayed</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Maximum Number of Precincts Exceeded For Modeming</td>
<td>This message indicates the scanner counterfeit sensor is damaged and the calibration cannot be performed</td>
<td>The system will not process ballots with counterfeit marks correctly. Contact your election administrator to schedule technical service.</td>
<td>X</td>
</tr>
<tr>
<td>MEDIA HEADER SECTION FAILED CRC</td>
<td>The CRC check on the header section of the election definition failed.</td>
<td>Shutdown the system and make sure the USB drive is properly inserted and then restart. If the problem persists, contact your election administrator to schedule technical service and request backup equipment.</td>
<td>X</td>
</tr>
<tr>
<td>MEMORY ALLOCATION ERROR</td>
<td>This message indicates that the scanner did not successfully allocate system memory.</td>
<td>The system will not allow election processing to continue and will shut down. Contact your election administrator to schedule technical service and request backup equipment.</td>
<td>X</td>
</tr>
<tr>
<td>MEMORY ALLOCATION ERROR COUNTER BLOCK TOO LARGE TO LOAD</td>
<td>This message appears if the election definition contains too large of a counter block to load.</td>
<td>The election definition on the USB media will not work on the machine. Contact your election administrator and request additional technical service.</td>
<td>X</td>
</tr>
<tr>
<td>MEMORY ALLOCATION ERROR ELECTION DEFINITION TOO LARGE</td>
<td>This message appears if the election definition is too large to load.</td>
<td>The election definition on the USB media will not work on the machine. Contact your election administrator and request additional technical service.</td>
<td>X</td>
</tr>
<tr>
<td>MEMORY ALLOCATION ERROR</td>
<td>This message appears if the system has issues freeing up the memory allocated relative to the election definition processing.</td>
<td>The System Halt screen will appear. The system will not allow processing to continue and will shut down. Contact your election administrator to schedule technical service the USB media if the issue persists.</td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### Message Text | Cause | Resolution | Message Displayed | Message Printed | Message Logged | Results in a System Halt
--- | --- | --- | --- | --- | --- | ---
MEMORY ALLOCATION ERROR | This message appears if the system has issues freeing up the memory allocated relative to the election definition processing. | The System Halt screen will appear. The system will not allow processing to continue and will shut down. Contact your election administrator to schedule technical service the DS200 (possible DRAM issue). | X | X | X |  
Missed Orientation Marks. Turn Ballot Over and Try Again | The scanner could not determine the orientation of the ballot. | Turn the ballot over and try to scan the ballot again. If the problem persists, follow your jurisdictions procedures for “spoiling” the ballot and issue another to the voter. If it continues after that, contact your election administrator to schedule technical service and request backup equipment. | X | X |  
MISSING PRECINCT COUNTER BLOCK | This message appears if the scanner cannot locate the race counter block for a given race. | The election definition is incorrect and the machine will not allow processing to continue. Contact your election administrator for technical assistance. | X | X | X |  
Modem Activated | Status Message | NA | X |  
Modem Checking Phone Number | Status Message | NA | X |  
Modem Deactivated | Status Message | NA | X |  
Modem device (0) found | Status Message | NA | X |  
Modem device (0) not found | Status Message | NA | X |  
Modem Generating Election Key | Status Message | NA | X |  

**NOTICE OF UNCERTIFIED FUNCTIONALITY**
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Result in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modem Initializing a Modem</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Operation Completed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Packaging Election Bundle</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Packaging Election Results</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Phone Number Changed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Searching for a Modem</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Signing Election Package</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Status: Detected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Status: Not Detected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Modem Transfer Success</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Multiple Ballots Detected. Please Re-insert One Ballot After Beeps</td>
<td>Status Message</td>
<td>The scanner has detected more than one ballot in the feed path.</td>
<td>Remove all ballots from the transport</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO BACK IMAGE DETECTED</td>
<td>The scanner displays this message if the DS200 does not detect anything on the back of the ballot when the election definition indicates that information should appear on the back of the ballot.</td>
<td>Give the vote a properly printed ballot and &quot;spoil&quot; the old one according to local procedures.</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>No Data Found. Please Re-insert Ballot After Beeps</td>
<td>The scanner did not recognize the data from the image sensors.</td>
<td>Wait for the beeps to stop and then re-insert the ballot. If the problem persists, contact your election administrator to request technical service and backup equipment.</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>No Response From Hal</td>
<td>The tabulator program is no longer communicating with the HAL (Hardware Abstraction Layer)</td>
<td>The system will not allow election processing to continue and will force the user to shut down. After the shutdown, re-start the DS200. If the error appears again, contact your election administrator to request technical service and backup equipment.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>No Response From Scanner</td>
<td>The tabulator program is no longer communicating with the scanner board.</td>
<td>The system will not allow election processing to continue and will force the user to shut down. After the shutdown, re-start the DS200. If the error appears again, contact your election administrator to request technical service and backup equipment.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
### NULL POINTER ERROR
- **Cause:** This message indicates the program encountered a memory address set to NULL.
- **Resolution:** The System Halt screen will appear. The system will not allow processing to continue and will shut down. Contact your election administrator to schedule technical service and request a backup scanner.

### NULL POINTER ERROR
- **Cause:** This message indicates the program encountered a memory address set to NULL.
- **Resolution:** The System Halt screen will appear. The system will not allow processing to continue and will shut down. Contact your election administrator to schedule technical service and request a backup scanner.

### NULL POINTER RECEIVED
- **Cause:** This message indicates the program encountered a memory address set to NULL.
- **Resolution:** The system will not allow processing to continue and will shut down. Contact your election administrator to schedule technical service and request a backup scanner.

### NULL POINTER RECEIVED
- **Cause:** This message indicates the program encountered a memory address set to NULL.
- **Resolution:** The system will not allow processing to continue and will shut down. Contact your election administrator to schedule technical service and request a backup scanner.

### Orientation Skip Error. Turn Ballot Over and Try Again
- **Cause:** The scanner did not recognize enough orientation marks.
- **Resolution:** Turn the ballot over and try to scan the ballot again. If the problem persists, follow your jurisdictions procedures for "spoiling" the ballot and issue another to the voter. If it continues after that, contact your election administrator to schedule technical service and request backup equipment.

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overvote Query Override Disabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Overvote Query Override Enabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>OVERVOTED BALLOT ACCEPTED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>OVERVOTED BALLOT RETURNED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Polls Closed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Polls Opened Menu Button Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Polls Reopened. Totals Cleared</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Polls Reopened. Totals Not Cleared</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Possible Ballot Entry or Sensor Error. Please Re-insert Ballot After Beeps.</td>
<td>The user inserted the ballot and then pulled it out before the scanner could move it through the transport.</td>
<td>Wait for the beeps to stop and then re-insert the ballot. If the problem persists, contact your election administrator to request technical service and backup equipment.</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>POSSIBLE BLOCKED SENSOR</td>
<td>This message appears if the scanner detects an intermittent obstruction on part of the Read-Head, an intermittent fault in the CCD array Read-Head, or a non-contiguous vertical line on the ballot.</td>
<td>Check the scanner for foreign material and remove if found. If problem persists contact your election administrator to schedule technical service and request a backup scanner.</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### Notice of Uncertified Functionality

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Management Board Requested Emergency</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>Shutdown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POWER OFF</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>POWER ON</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>PPP service started for telephone number {0}</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>baud rate {1}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printer Diagnostic Form Feed Selected</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>Printer Diagnostic Test Selected</td>
<td>Status Message</td>
<td>NA</td>
</tr>
</tbody>
</table>
| PRINTER TIMEOUT - ABORT PRINTING?                | Status Message   | Make sure there is still some paper in the printer before contacting your election administrator to schedule a technical service.
| RACE RESULTS CROSS-CHECK FAIL                   |                  |                                                                           |
| REAL TIME CLOCK SET                               | Status Message   |                                                                           |

**Table**

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER MANAGEMENT BOARD REQUESTED EMERGENCY SHUTDOWN</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>POWER OFF</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>POWER ON</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>PPP service started for telephone number {0} baud rate {1}</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>Printer Diagnostic Form Feed Selected</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>Printer Diagnostic Test Selected</td>
<td>Status Message</td>
<td>NA</td>
</tr>
<tr>
<td>PRINTER TIMEOUT - ABORT PRINTING?</td>
<td>Status Message</td>
<td>Make sure there is still some paper in the printer before contacting your election administrator to schedule a technical service.</td>
</tr>
<tr>
<td>RACE RESULTS CROSS-CHECK FAIL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REAL TIME CLOCK SET</td>
<td>Status Message</td>
<td></td>
</tr>
</tbody>
</table>

**Notice of Uncertified Functionality**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recycle Test Diverter Disabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Recycle Test Diverter Enabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Recycle Test Printing Disabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Recycle Test Printing Enabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Report Canceled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Report Completed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Scanner Calibrated Successfully</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Scanner Calibration Failed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>SFTP service canceled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>SFTP service started for IP address {0}</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>SFTP transfer complete for file {0}</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
## NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

---

### Status Results Cross-Check Fail

This message appears if the status counters fail the cross-check (between the precinct and master counters). This condition indicates that the election results stored in DRAM are corrupt.

The system will not allow election processing to continue. Reboot the system by turning the power switch OFF and then back ON to re-initialize the USB flash drive. If the system reads the card correctly, continue with the election process. If the error appears again, contact your election administrator for additional instructions and a new USB Election media.

### Supervisor Switch Disengaged

Status Message

[NA]

### Supervisor Switch Engaged

Status Message

[NA]

### Switched to AC Power

Status Message

[NA]

### Switched to Battery Power

Status Message

[NA]

### System Audit Log Failed CRC

This message appears if the System Audit Log stored to NVRAM fails the CRC. The software attempts to initialize the log with default values. If this operation is unsuccessful, the system shuts down.

Allow the system to initialize the System Audit Log using default values. If the initialization shuts down the system using default values, contact your election administrator to schedule technical service and request a backup scanner.

---

### Message Table

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status Results Cross-Check Fail</td>
<td>This message appears if the status counters fail the cross-check (between the precinct and master counters). This condition indicates that the election results stored in DRAM are corrupt.</td>
<td>The system will not allow election processing to continue. Reboot the system by turning the power switch OFF and then back ON to re-initialize the USB flash drive. If the system reads the card correctly, continue with the election process. If the error appears again, contact your election administrator for additional instructions and a new USB Election media.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Supervisor Switch Disengaged</td>
<td>Status Message</td>
<td>[NA]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supervisor Switch Engaged</td>
<td>Status Message</td>
<td>[NA]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switched to AC Power</td>
<td>Status Message</td>
<td>[NA]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switched to Battery Power</td>
<td>Status Message</td>
<td>[NA]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Audit Log Failed CRC</td>
<td>This message appears if the System Audit Log stored to NVRAM fails the CRC. The software attempts to initialize the log with default values. If this operation is unsuccessful, the system shuts down.</td>
<td>Allow the system to initialize the System Audit Log using default values. If the initialization shuts down the system using default values, contact your election administrator to schedule technical service and request a backup scanner.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Message Text</td>
<td>Cause</td>
<td>Resolution</td>
<td>Message Displayed</td>
<td>Message Printed</td>
<td>Message Logged</td>
<td>Results in a System Halt</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>----------------</td>
<td>----------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>SYSTEM AUDIT LOG FAILED CRC</td>
<td>An error occurred while saving a file to the USB media.</td>
<td>The system will not allow processing to continue and will require the user to shut down. Contact your election administrator to schedule technical service and request a backup scanner.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>COMPUTED CRC DIDN’T MATCH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Audit Log: Bad Input Parameter Received</td>
<td>This error occurs if invalid input parameters (a NULL pointer) was received when the DS200 attempted to open, read, or write to the System Audit Log file.</td>
<td>Contact ES&amp;S customer support.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSTEM Halted</td>
<td>A major system error occurred.</td>
<td>The System Halt screen will appear. The system will not allow processing to continue and will shut down. Contact your election administrator to schedule technical service the DS200.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>System Log Report Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Path To The Ballot Bin Is Not Clear</td>
<td>While the DS200 is in scan mode and accepting ballots, when a new voter inserts their ballot the DS200 checks the paper detected (S2) or the exit sensor: (S3) for any paper jam from a previous scan. If DS200 detects any paper under these two sensors, this error is displayed and logged.</td>
<td>First remove the new voter’s ballot, then check for a ballot or paper jam under the sensors. <strong>Note:</strong> The DS200 tries to eject the ballot out if it finds the ballot ONLY under the paper detect sensor. Conversely, the DS200 tries to drop the ballot in the ballot bin if the ballot is detected only under the exit sensor. If the DS200 fails to implement these solutions, a ballot jam error is displayed and logged.</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Zone Changes Successfully</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>TOTAL ACCEPTED BALLOTS</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Unable to Load Signal Handlers</td>
<td>The system was unable to load the handlers for low level signals from the operating system.</td>
<td>The system will not allow election processing to continue and will force the user to shut down. After the shutdown, re-start the DS200. If the error appears again, contact your election administrator to request technical service and backup equipment.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>UNABLE TO READ MEDIA COUNTER BLK</td>
<td>The space used to store counters on the USB Election Media failed to read correctly.</td>
<td>Replace the election media and re-try. If problems persist, contact your election administrator to schedule technical service and request a back up scanner.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Unable To Read Timing Ban. Turn Ballot Over and Try Again</td>
<td>The scanner could not read the timing marks.</td>
<td>Turn the ballot over and try to scan the ballot again. If the problem persists, follow your jurisdictions procedures for &quot;spoiling&quot; the ballot and issue another to the voter. If it continues after that, contact your election administrator to schedule technical service and request backup equipment.</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Message Text</td>
<td>Cause</td>
<td>Resolution</td>
<td>Message Displayed</td>
<td>Message Printed</td>
<td>Message Logged</td>
<td>Results in a System Halt</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>----------------</td>
<td>----------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>UNABLE TO UPDATE COUNTERS</td>
<td>This message appears if the scanner software fails to update the counters after you scan a ballot.</td>
<td>The system will not allow election processing to continue and requires a new USB flash drive to resolve. Turn off the scanner, insert a new USB flash drive with a duplicate election definition and turn the scanner back on. If the problem continues, contact your election administrator to schedule technical service and a request a backup scanner.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Undervote Query Override Disabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Undervote Query Override Enabled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>UNERVOTED BALLOT ACCEPTED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>UNERVOTED BALLOT RETURNED</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Unpacking Authorization Bundle</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Admin Password Entry Failure</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Admin Password Entry Successful</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Event: Auto-Read Settings Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Ballot Diagnostics Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Ballot Style Rpt Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Ballot Style Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Bottom CIS Threshold Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Calibrate Scanner Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Close Polls</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Date And Time Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Diagnostic Reports Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Digital Table Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Diverter Diagnostics Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Event: Firmware Update Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Lid Closed, Shutting Down</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Modem Operation Cancel</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Modem Retry</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: More Reports</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Open Polls</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Password Entry Cancel Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Password Entry Failure</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Password Entry Try Again Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Poll Media Rprt Select</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Poll Reopen Canceled</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Poll Summary Rprt Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### Message Text | Cause | Resolution | Message Displayed | Message Printed | Message Logged | Results in a System Halt
--- | --- | --- | --- | --- | --- | ---
User Event: POWER Switch Pressed And Hold | Status Message | NA | | | | X
User Event: Prec Media Rprt Select | Status Message | NA | | | | X
User Event: Prec Summary Rprt Selected | Status Message | NA | | | | X
User Event: Printer Diagnostics Accessed | Status Message | NA | | | | X
User Event: Re-Open Polls | Status Message | NA | | | | X
User Event: Reopen Password Entry Failure | Status Message | NA | | | | X
User Event: Reopen Password Entry Successful | Status Message | NA | | | | X
User Event: Results Report Selected | Status Message | NA | | | | X
User Event: Scan Ballots Test Selected | Status Message | NA | | | | X
User Event: Send Results Selected | Status Message | NA | | | | X
User Event: Send Results Selected | Status Message | NA | | | | X
User Event: Send Results Selected | Status Message | NA | | | | X

**NOTICE OF UNCERTIFIED FUNCTIONALITY**
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:
- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- iVotronic Ballot Image Manager (iVIM)

*USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION*
### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

---

<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Event: Shutdown Button Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Status Report Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Top CIS Threshold Accessed</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Transmit Retry</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>User Event: Zero Totals Rprt Selected</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Valid Password Entered</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>VOTING CONTINUED PREV UNIT</td>
<td>Status Message</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>WARNING: Continuing this process will power the unit off with Election Test Totals on the media!</td>
<td>This message indicates the power button has been pressed during the election test mode.</td>
<td>The system is about to shut down. Please follow the on-screen instruction to pursue with the powering off process.</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

---

**User Event:**

- **Set Cycle Count Accessed**: NA
- **Shutdown Button Selected**: NA
- **Status Report Selected**: NA
- **System Settings Accessed**: NA
- **Top CIS Threshold Accessed**: NA
- **Top Sensor Image Accessed**: NA
- **Transmit Retry**: NA
- **Zero Totals Rprt Selected**: NA
- **Valid Password Entered**: NA
- **VOTING CONTINUED PREV UNIT**: NA
- **WARNING**: This message indicates the power button has been pressed during the election test mode. The system is about to shut down. Please follow the on-screen instruction to pursue with the powering off process.
<table>
<thead>
<tr>
<th>Message Text</th>
<th>Cause</th>
<th>Resolution</th>
<th>Message Displayed</th>
<th>Message Printed</th>
<th>Message Logged</th>
<th>Results in a System Halt</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING: Continuing this process will power the unit off with Election Totals on the media!</td>
<td>This message indicates the power button has been pressed during the election regular mode.</td>
<td>The system is about to shut down. Please follow the on-screen instruction to pursue with the powering off process.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>WARNING: Continuing this process will power the unit off!</td>
<td>This message indicates the power button has been pressed during the other mode than the election test and regular election</td>
<td>The system is about to shut down. Please follow the on-screen instruction to pursue with the powering off process.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>WARNING: Ballot found in scanner during start up. Ejecting ballot now. Please see the election administrator for instructions.</td>
<td>This message indicates the scanner transport detects a ballot at start-up. The ballot has been correctly ejected.</td>
<td>The system ejected the ballot correctly.</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>WARNING: Ballot found in scanner during start up. Ejecting ballot now. Please see the election administrator for instructions.</td>
<td>This message indicates the scanner transport detects a ballot at start-up. The ballot is the cause of a jam.</td>
<td>The system will not accept any ballot because it is jammed. Proceed with clearing the jam. Contact your election administrator to schedule technical service if the jam frequently occurs on this scanner.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION.
Chapter 12: Troubleshooting

This chapter provides instructions for the steps to take for some common issues that may occur with the DS200. Take these steps before you call for Technical Service.

Temporary Ballot Storage Bin

If the DS200 fails during an election, use the following procedure to store ballots in the temporary bin until you can repair or replace the scanner.

1. Unlock the emergency bin.

2. Voters may now insert ballots into the newly exposed slot for temporary storage. Store uncounted ballots in the emergency bin until you can repair or replace the scanner.

Recovering or Replacing the DS200

If one of your scanners fails and must be replaced, turn the malfunctioning scanner off and remove the election definition USB flash drive from the slot. Insert the USB flash drive into a replacement scanner and turn the replacement scanner on. Two options are available to the poll worker: CLOSE POLLS and CONTINUE VOTING.

For more information about resuming scanner operations, see the Reopen the Polls section in Chapter 5: Pre-Election Day Tasks.
Calibrate the Screen

If the DS200 screen does not respond to touch, or if a screen other than the one you selected appears, the screen may need calibration. Take the following steps to calibrate the screen:

1. If your DS200 scanner is turned on, turn off the DS200 by pressing **Shutdown**.
2. Unlock the access door to the DS200.

3. Press the bottom button to turn on the DS200.

4. The DS200 will start the process of opening and the System Initializing screen appears.
5. Press and hold down the **Close Polls** button for about four seconds or until the button light turns off. The calibration screen appears.

6. From the calibration screen, press the circle in the upper-left corner. The circle will turn black.

7. Press the circle in the lower-right corner of the screen. The circle will turn black. A confirmation screen appears.

Test the calibration by touching the screen and see if the pointer will follow the touch points.

Press the Recalibrate button on the screen to recalibrate the touch screen.

Press the Save & Exit button to save the calibration and return to the menu.

Calibration will restart after 30 seconds if no buttons are pressed.
8. From the calibration screen, touch an area on the screen. A pointer will appear in the area you touched.

9. From the calibration screen, press **Save & Exit** to save your calibration setting. Press **Recalibrate** if the pointer appears anywhere other than the place on the screen you touched to return to the calibration screen and repeat steps 5-7.

If the screen does not calibrate after four attempts, or if the calibration circles do not turn black, contact ES&S Technical Support.
Chapter 13: Load New Firmware onto the DS200

To install new firmware on the DS200, obtain an official DS200 firmware update USB flash drive from Election Systems & Software.

1. Unlock the access door to the DS200.

2. Insert the USB flash drive containing the firmware update into one of the USB slots. Do not force the flash drive into the slot.

3. Turn on the DS200 and the firmware update will load automatically.

   NOTE: Do not remove the USB flash card during this process.
4. When the firmware update is completed, an Update Successful message will appear.

```
<table>
<thead>
<tr>
<th>Update Successful</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success! Update completed, remove the USB Update media before rebooting the system.</td>
</tr>
</tbody>
</table>
```

NOTE: When you turn on the DS200, the firmware version will appear on the initial state report.

5. Power down the scanner and remove the Update Media.
Chapter 14: Miscellaneous Information

DS200 USB Flash Drive Memory Structure

The USB Flash Drive on the DS200(i) has the following general folder structure:

```
[root]
    PCBn
    [images]
        00
            X999999ssssssssssssssssssssssrrrrrrrrrrrrrrrrY.zip (ballot image file)
            X999999ssssssssssssssssssssssrrrrrrrrrrrrrrrrY.zip (ballot image file)
            ...
            ...
            ...
            \f
            \f
            0
            .
            .
            0
```

Data Written to the USB Flash Drive

1. When burning the DS200’s USB Flash Drive in HPM, the PCBn file is written to the 
   
   \root of the USB Flash Drive. This file contains the poll specific election definition as 
   
   well as the required data structures to store tabulated vote totals. As part of this 
   
   process, if a PCBn already exists on the USB Flash Drive, HPM issues a warning 
   
   message indicating that the USB Flash Drive contains a PCB file and gives the user the 
   
   option to continue or cancel. If the user selects continue, the PCB file currently on the 
   
   USB Flash Drive is erased along with the \images folder. The new PCBn file is then 
   
   written to the USB Flash Drive. If the user selects cancel, a new USB Flash Drive can be 
   
   inserted and then the PCBn file is written onto that USB Flash Drive.

2. When running ballots on the DS200, the PCBn file on the USB Flash Drive is 
   
   updated with tabulated vote totals and audit log entries. Each ballot scanned may 
   
   also create two ballot image files depending upon the user selection for saving ballot 
   
   images set in HPM. See detail discussion below regarding ballot image files.

NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
3. When vote totals are cleared using the DS200 menu’s (Reopen Polls, Clear Totals) all tabulated vote totals are set to zero in the PCB file and all sub-folders under the \Images folder are deleted. All audit log entries in the PCBnnnn file are preserved as part of the election audit trail.

**Ballot Images Written to the USB Flash Drive During Ballot Scanning**

Two graphical ballot images, in Portable Bitmap (PBM) format, are created for each ballot processed on the DS200.

Each image is assigned a unique file name as described below. The .PBM images are compressed in .zip format on the USB Flash Drive.

**Ballot image file naming convention: X999999ssssssssssssssrrrrrrrrrrrrrrrY.zip**

- X: N or W,  N = No Write-Ins, W = Writes-Ins on Ballot
- 999999: ERM precinct number – 6 digits
- sssssssssssssss: DS200 machine serial number – 16 characters
- rrrrrrrrrrrrrrrr: Random 15 bytes of hex values (0 thru F)
- Y: R or F,  R = rear ballot image, F = front ballot image
- .zip: ZIP format extension

**Example file names – no write-in**

N0000220000ES0107380023014d93501a0fa2fF.zip

N0000220000ES0107380023014d93501a0fa2fR.zip

**Example file names – write-in on front side of ballot**

N0000220000ES01073800230a32e5967a20539R.zip

W0000220000ES01073800230a32e5967a20539F.zip

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
Ballot Image Folder Structure on DS200 USB Flash Drive

Ballot images will be distributed to a maximum of 4096 folders under \images based upon the first 3 hex characters of the random 15 characters of each ballot image file name. The first 2 random hex characters will determine the folder name directly under \images on the DS200 USB Flash Drive. The 3rd random hex character will determine the folder names under the folders created by the first 2 hex characters.

The characters in red in this example file name determine the sub-folders under \images.

X999999ssssssssssssssrrrrrrrrrrrrY.zip

Example of folder structure on DS200 USB Flash Drive

```
(root)\images\ 00\ 0\ 1\ ...
  01\ 0\ 1\ ...
    ...
      ...

Example: If a ballot image name is: N0000990000ES01073700763d27bb1e48c2024F.zip (random number is 3d27bb1e48c2024) it would be saved to the directory \images\3d\2\ on the DS200 USB Flash Drive.

This scheme yields 256 * 16 = 4096 possible directories
```
ERM

When DS200 USB Flash Drive are read into the ERM DS200 Collect Ballot Image process, all ballot images are retrieved from the USB Flash Drive and are stored into sub-folders under the \elecdata folder structure. Images that start with a “N” in the file name are left in .zip format. Images that start with a “W” (ballot has write-in votes) are unzipped, converted from .PBM (portable bitmap) to .BMP (Windows bitmap) and stored into a separate folder that can then be viewed by the user using a 3rd party tool.

ERM folder structure

Multiple folders will be created under the \Raw Images folder based upon the precinct number portion of each image file name: x999999sssssssssssssssssssrY.zip.

The precinct number portion of the file name will range from 000001 to 009999. This will distribute the ballot images into the same number of folders as the jurisdiction has precincts and serve to limit the number of image files in any given folder to a reasonable number and allow the user to index into the ballot images for a specific precinct (using 3rd party tools) fairly simply. Within each precinct name folder, the image file naming convention that includes the DS200(i) machine serial number allows the images for a specific DS200 to be culled out as well.

NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
All ballot image files names that start with “w” (contains write-ins) will be stored in a single \Write-Ins folder under \Images in .BMP format.

The ERM “Clear All Ballot Images” process will remove all ballot image files from this folder structure under \ELECDATA. The user may select to clear all images from the \Raw Images folder structure and / or all images from the \Write-Ins folder.

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
## Chapter 15: Revision History

### DS200 System Operations Procedures Manual 1.6.1.0
Document Version 7.0
August 7, 2012

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title Page</td>
<td>Updated Title page (Hardware version to 1.2)</td>
</tr>
</tbody>
</table>

### DS200 System Operations Procedures Manual 1.6.1.0
Document Version 6.0
July 26, 2012

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Updated Uncertified Functionality statement.</td>
</tr>
<tr>
<td>Chapter 1: Introduction</td>
<td>Updated Facilities, Furnishings and Fixtures Required for DS200 Operation section.</td>
</tr>
<tr>
<td>Chapter 5: Pre-Election Day Tasks</td>
<td>Added the following sections:</td>
</tr>
<tr>
<td></td>
<td>• DS200 Seals and Locks</td>
</tr>
<tr>
<td></td>
<td>• Attach the DS200 to the Metal Ballot Box</td>
</tr>
<tr>
<td></td>
<td>• DS200 Carrying Case and Ballot Bin Security Seals</td>
</tr>
</tbody>
</table>

### DS200 System Operations Procedures Manual 1.6.1.0
Document Version 5.0
April 11, 2**012**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 5: Pre-Election Day Tasks</td>
<td>Updated Attach the DS200 Power Source to the Ballot Box section.</td>
</tr>
</tbody>
</table>

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (IVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
## Chapter 15: Revision History

### DS200 System Operations Procedures Manual 1.6.1.0
**Document Version 4.0**  
**April 10, 2012**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Updated images, revised and edited for clarity.</td>
<td></td>
</tr>
</tbody>
</table>

### DS200 System Operations Procedures Manual 1.6.1.0
**Document Version 3.0**  
**March 30, 2012**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Updated images, revised and edited for clarity.</td>
<td></td>
</tr>
</tbody>
</table>
| Chapter 3: Introduction to the DS200  
Chapter 11: System Messages | Added section Keyboard Entry Screen  
Updated system message table. |         |

### DS200 System Operations Procedures Manual 1.6.1.0
**Document Version 2.0**  
**March 26, 2012**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
<th>Project</th>
</tr>
</thead>
</table>
| All     | Updated various images, revised and edited for clarity throughout the document.  
Added the following sections:  
• Facilities, Furnishings and Fixtures Required for DS200 Operation  
• Specifications and Cautions  
• System Acquisition Procedures |         |
| Chapter 1: Introduction  
Chapter 3: Introduction to the DS200  
Chapter 11: System Messages | Added Roles section  
Updated System Message list. |         |

---

**NOTICE OF UNCERTIFIED FUNCTIONALITY**

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE  
- Unity Data Acquisition Manager (DAM)  
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
### NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity /Votronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

---

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Initial document</td>
<td></td>
</tr>
</tbody>
</table>

---

**DS200 System Operations Procedures Manual 1.6.1.0**  
**Document Version 1.0**  
**January 13, 2012**
NOTICE OF UNCERTIFIED FUNCTIONALITY
The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:
NOTICE OF UNCERTIFIED FUNCTIONALITY

The following products and/or system features HAVE NOT COMPLETED TESTING FOR CERTIFICATION BY THE ELECTION ASSISTANCE COMMISSION (EAC) to the requirements of the VSS:

- iVotronic DRE
- Unity Data Acquisition Manager (DAM)
- Unity iVotronic Ballot Image Manager (iVIM)

USE OF ANY UNCERTIFIED SYSTEM NEGATES THE UNITY 3.4.0.0 FEDERAL CERTIFICATION:

Facilities, Furnishings and Fixtures Required for DS200 Operation, 3

P

Paper Roll
  Replacing, 129–131
Paper Spools, 33
Poll Report Media, 58, 77
Poll Report Summary, 77
Polls Closed Mode, 20
Polls Open Mode, 20
Power Cord Protection, 9
Power Sources, 8
Precinct Report, 118
Precinct Report - Summary Format, 118, 119
Precinct Report Media, 58, 77
Precinct Report Summary, 77
Pre-Voting Checklist, 62
Printer, 104–110, 129–131
Public Count, 57

R

Recovering or Replacing the DS200, 171
Recycle Mode, 106–109
Reopen Polls, 73–75
Reports, 58
  Printing, 76
Results
  Transferring, 85
Results Report, 76
Revision History, 182

S

Safety Information, 8
  Battery Replacement Warning, 10
  Cleaning, 9
  Heating, 9
  Power Cord Protection, 9
  Power Sources, 8
Service, 10
  Damage Requiring Service, 10
  Instructions, 10
Set Data Transmission Code on DS200, 59
Specifications and Cautions, 4
Status Report, 58, 117
Steel Ballot Box Seals, 48
System Acquisition Procedures, 11
System Audit Log Report, 125
System Messages, 135
System Settings, 95

T

Temporary Ballot Storage Bin, 171
Thermal Printer
  Testing, 59, 131
Touch Screen Controls, 16

U

Uncounted Ballots, 76
USB Flash Drive, 16, 33, 73, 85, 95

V

Ventilation, 9
View Ballot Images, 87–88

W

Warning Symbols, 8
Water and Moisture, 9
Write-in Votes, 72

Z

Zero Report, 28, 30, 115