CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number
BB1-P3 - 101

(This page intentionally left blank)
2007-CDOS-HAR-001-0404

The voting system shall meet the following requirements for operating system security: If the manufacturer has not established requirements for the specifically designed system, after March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to the voting system providers' specifications.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Test Procedures:

Prerequisites:

Variances Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarding, stop, and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Activities and Remarks</th>
<th>Remarks or Reports</th>
</tr>
</thead>
</table>

Continue to next page...
<table>
<thead>
<tr>
<th>Location</th>
<th>Reporting</th>
<th>Equipment</th>
<th>Environment</th>
<th>Last Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BB1-P3 - 101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Name</th>
<th>Printed name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-13-07</td>
<td>T. Bishop</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9-26-07</td>
<td>John Gardner</td>
<td></td>
<td>Signature</td>
<td></td>
</tr>
</tbody>
</table>

The test is not applicable for this voting device.
Observations:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Findings:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

T. Bishop
Printed name
Signature
Date

Maurice L. Crowder
Printed name
Signature
Date

John Gardner
Printed name
Signature
Date
State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number
BB1-P3 - 102

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variances Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restarting, step and restoring the system as necessary.
Observations:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Findings:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.
CDOS Certification Number: **2007-CDOS-HAR-001-0404**

Manufacturer: **Hart Intercivic**

Application Date: **04/04/2007**

Test Number

BB1-P3 - 103
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:

- Microsoft Windows 2000 operating systems shall be hardened to the following NSA Guides:
  - i. Guide to the Secure Configuration and Administration of Microsoft Internet Information Services 5.0 Version 1.4;
  - ii. Guide to the Secure Configuration and Administration of Microsoft ISA Server 2000 Version 1.5;
  - vi. Guide to Securing Microsoft DNS Version 1.0;
  - x. Group Policy Reference Version 1.2.8;
  - xii. Microsoft Windows 2000 IPSec Guide Version 1.0;

Purpose:

This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variances Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retuning, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operation</th>
<th>Activities and Issues</th>
<th>Incident Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Continue to next page...
### Observations:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

### Findings:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

<table>
<thead>
<tr>
<th>1st Review</th>
<th>2nd Review</th>
<th>Supervisor Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Bishop</td>
<td>Ms. Brandi</td>
<td>John Gardner</td>
</tr>
<tr>
<td>Printed name</td>
<td>Printed name</td>
<td>Printed name</td>
</tr>
<tr>
<td>9-13-07</td>
<td>7-26-07</td>
<td>9/24/07</td>
</tr>
<tr>
<td>Signature</td>
<td>Signature</td>
<td>Signature</td>
</tr>
<tr>
<td>Date</td>
<td>Date</td>
<td>Date</td>
</tr>
</tbody>
</table>

Voting Systems Certification - Testing Log rev. 2.1

Approved 10/01/07

Created by the Colorado Secretary of State's Office
State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State
Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-HAR-001-0404**

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

---

**Test Number**

BB1-P3 - 104

{This page intentionally left blank}
2007-CDOS-HAR-001-0404

The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variance Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restarting, stop and restoring the system as necessary.
<table>
<thead>
<tr>
<th>Environment</th>
<th>Test Log</th>
<th>Incident Report</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Ticket</th>
<th>Operator</th>
<th>Test Date</th>
<th>Notes and Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documents (list all documents)</td>
</tr>
<tr>
<td>Videos (list all videos)</td>
</tr>
<tr>
<td>Photos (list all photos)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acceptable Compromising Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Result Summary</th>
<th>1st Review</th>
<th>2nd Review</th>
<th>Supervisor Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T. Bishop</td>
<td>Michael L. Chadwell</td>
<td>John Gardner</td>
</tr>
</tbody>
</table>

Printed name: T. Bishop  
Printed name: Michael L. Chadwell  
Printed name: John Gardner

9-13-07  
9-26-07  
9/24/07

Signature:  
Signature:  
Signature:

Voting Systems Certification Program
Created by the Colorado Secretary of State's Office
Observations:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Findings:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.
State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number
BB1-P3 - 105

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:

Sun Solaris 8 operating systems shall be hardened to the NSA Guide to the Secure Configuration of Solaris 8 Version 1.0.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variance Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restarting, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operation</th>
<th>Activities/Measurements</th>
<th>Incident/Report</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Continue to next page...
Observations:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Findings:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.
State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Text Number
BB1-P3 - 106

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:
Sun Solaris 9 operating systems shall be hardened to the NSA Guide to the Secure Configuration of Solaris 9 Version 1.0.

**Purpose:**
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

**Prerequisites:**

**Test Procedures:**

**Variances Used During Testing:**

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restarting, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Entry</th>
<th>Time</th>
<th>Operator</th>
<th>Activities or Comments</th>
<th>Findings/Records</th>
</tr>
</thead>
</table>

Continues to next page...
Observations:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Findings:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.
State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart InterCivic

Application Date: 04/04/2007

Test Number
BB1-P3 - 107

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:

a. Apple max OS X systems shall be hardened to the NSA Apple Mac OS X v10.3.x "Panther" Security Configuration Guide Version 1.1;

Purpose:

This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Variances Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restarting, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Problems/Obstacles</th>
<th>Immediate Report</th>
</tr>
</thead>
</table>

Continue to next page...
**Observations:**
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

**Findings:**
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

---

2nd Review

T. Bishop
Printed name

Signature
Date: 9/13/07

---

2nd Review

Michael J. Chevak
Printed name

Signature
Date: 9/26/07

---

Supervisor Approval

John Gardner
Printed name

Signature
Date: 9/26/07
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007
The voting system shall meet the following requirements for operating system security: All other voting system operating systems submitted for certification after March 31, 2008 shall have all operating systems hardened to existing manufacturer's hardening requirements.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variances Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restarting, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Observer</th>
<th>Notes and Queries</th>
<th>Incident Report</th>
</tr>
</thead>
</table>

Continue to next page...
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Test Logs</th>
<th>Test Procedure</th>
<th>Test Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documents (list all documents)</td>
</tr>
<tr>
<td>Videos (list all videos)</td>
</tr>
<tr>
<td>Photos (list all photos)</td>
</tr>
</tbody>
</table>

Acceptable Computatation Controls

Result Summary

<table>
<thead>
<tr>
<th>1st Review</th>
<th>2nd Review</th>
<th>Supervisor Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Bishop</td>
<td>Michael L. Chadwell</td>
<td>John Gardner</td>
</tr>
</tbody>
</table>

Printed name

Signature 9-13-07  Date

Signature 9-26-07  Date

Signature 9/23/07  Date

Created by the Colorado Secretary of State's Office
Observations:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Findings:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.
State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State
Holly Lowder
Director of Elections

CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number
BB1-P3 - 109

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security. After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:
Apple Server Operating Systems shall be hardened to the NSA Apple Mac OS X Server v10.3.x "Panther" Security Configuration Guide.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variances Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, repeating, stop and restoring the system as necessary.
Additional Observations and Findings

**Observations:**
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

**Findings:**
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

---

**First Review**

T. Bishop
Printed name
Signature 9-13-07
Date

**Second Review**

Michael L. Gardner
Printed name
Signature 9-24-07
Date

**Supervisor Approval**

John Gardner
Printed name
Signature 9-24-07
Date
CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number
BB4-P3 - 401

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: The voting system provider shall use a virus protection/prevention application on the election management server(s)/workstations which shall be capable of manual updates without the use of the Internet.

**Purpose:**
The Purpose of this test is to: verify that the voting system manufacturer provided virus protection/prevention application on the EMS server/host which is capable of manual updates.

**Test Procedures:**
Input workstations/receivers for virus protection.

**Prerequisites:**
N/A

**Voting System Virus Protection can be updated manually.**
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restart, step and restoring the system as necessary.
Additional Observations and Findings

Observations: Voting system vendor did not supply anti-virus application.

Findings: Voting system does not meet requirements of this test.

1st Review

Michael L. Chadwell
Printed name

Signature Date

2nd Review

Supervisor Approval

Printed name

Signature Date

Michael S. Chadwell
9/26/07

9/18/07

9/12/07

9/12/07
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number
BB4-P3 - 402
The voting system shall meet the following requirements for operating system security: All other voting system operating systems submitted for certification after March 31, 2008 shall have all operating systems hardened to existing manufacturer's hardening requirements.

**Purpose:**
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

**Prerequisites:**

**Test Procedures:**

**Variances Used During Testing:**

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retaining, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Activities and Remarks</th>
<th>Individual Signatures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Continue to next page...
Observations:
Not Applicable at this time

Findings:
Not Applicable at this time
CDOS Certification Number: **2007-CDOS-HAR-001-0404**

Manufacturer: **Hart Intercivic**

Application Date: **04/04/2007**

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:
Sun Solaris 8 operating systems shall be hardened to the NSA Guide to the Secure Configuration of Solaris 8 Version 1.0.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variances Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, testing, stop and restoring the system as necessary.
Additional Observations and Findings

Observations:
Not Applicable at this time

Findings:
Not Applicable at this time

First Review
Printed name
Signature
Date

Second Review
Printed name
Signature
Date

Supervisor Approval
Printed name
Signature
Date
CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

[This page intentionally left blank]
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:
Apple Server Operating Systems shall be hardened to the NSA Apple Mac OS X Server v10.3.x * Panther* Security Configuration Guide.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variance Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restarting, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operation</th>
<th>Activities and Errors</th>
<th>Incident Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Continue to next page...
**Observations:**
Not Applicable at this time

**Findings:**
Not Applicable at this time
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number

BB4-P3 - 405

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security. After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows: Microsoft Windows XP Operating systems shall be hardened to the NSA Windows XP Security Guide Version: 2.2 and the NSA Windows XP Security Guide Addendum Version 1.0.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Variances Used During Testing:
N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retreating, stop and restoring the system as necessary.
Additional Observations and Findings

Observations:
Not Applicable at this time

Findings:
Not Applicable at this time
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:

Microsoft Windows 2000 operating systems shall be hardened to the following NSA Guides:

i. Guide to the Secure Configuration and Administration of Microsoft Internet Information Services 5.0 Version 1.4;
ii. Guide to the Secure Configuration and Administration of Microsoft ISA Server 2000 Version 1.5;

vi. Guide to Securing Microsoft DNS Version 1.0;

x. Group Policy Reference Version 1.0.8;
xii. Microsoft Windows 2000 IPSec Guide Version 1.0;

This test is Not Applicable at this time - application for certification is prior to 3/31/2008.
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, returing, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Activities and Outages</th>
<th>Test Log</th>
<th>Methodology</th>
<th>Reports</th>
</tr>
</thead>
</table>

Continue to next page...
Observations:
Not Applicable at this time

Findings:
Not Applicable at this time
State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number

BB4-P3 - 407

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:

a. Apple Mac OS X systems shall be hardened to the NSA Apple Mac OS X v10.3.x "Panther" Security Configuration Guide Version 1.1;

**Purpose:**

This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

**Prerequisites:**

**Test Procedures:**

**Variances Used During Testing:**

N/A until after 3/31/2008
The test leg shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, returing, step and restoring the system as necessary.
<table>
<thead>
<tr>
<th>Date</th>
<th>Test</th>
<th>Recipient</th>
<th>Test List</th>
<th>Incident Report</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Attachments**

- **Documents**
  - No [ ]
  - Yes [ ]
  - (list all documents)

- **Videos**
  - No [ ]
  - Yes [ ]
  - (list all videos)

- **Photos**
  - No [ ]
  - Yes [ ]
  - (list all photos)

**Acceptable/Compensating Controls**

**Results Summary**

**1st Review**

- Printed name: [Signature]
- Date: [Signature]

**2nd Review**

- Printed name: [Signature]
- Date: [Signature]

**Supervisor Approval**

- Printed name: [Signature]
- Date: [Signature]
Observations:
Not Applicable at this time

Findings:
Not Applicable at this time
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number

BB4-P3 - 408

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows: Microsoft Windows Server 2003 operating systems shall be hardened to the NSA Microsoft Windows Server 2003 Security Guide Version 2.1 and The Microsoft Windows Server 2003 Security Guide Addendum Version 1.0.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Test Procedures:

Variance Used During Testing:

Test/Expected/Outcome:
N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, returllag, stop and restoring the system as necessary.
Observations:
Not Applicable at this time

Findings:
Not Applicable at this time
State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State
Holly Lowder
Director of Elections

CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number
BB4-P3 - 409

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: After March 31, 2008, all voting systems being submitted for certification shall have all operating systems hardened to NSA guidelines for operating systems as follows:
Sun Solaris 9 operating systems shall be hardened to the NSA Guide to the Secure Configuration of Solaris 9 Version 1.0.

Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Test Procedures:

Prerequisites:

Variance Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, restarting, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operation</th>
<th>Activities and Events</th>
<th>Incident Reports</th>
</tr>
</thead>
</table>

Continue to next page...
Observations:
Not Applicable at this time

Findings:
Not Applicable at this time
CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

BB4-P3 - 410

(This page intentionally left blank)
2007-CDOS-HAR-001-0404

Purpose:

This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

Prerequisites:

Variances Used During Testing:

N/A until after 3/31/2008
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, returning, step and restoring the system as necessary.
Observations:
Not Applicable at this time

Findings:
Not Applicable at this time
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number

BB4-P3 - 411

(This page intentionally left blank)
The voting system shall meet the following requirements for operating system security: The voting system provider shall configure the voting system operating system of the workstation and/or server used for the election management software to the following requirements:

a. The ability for the system to take an action upon inserting a removable media (Autorun) shall be disabled; and

b. The voting system shall only boot from the drive or device identified as the primary drive. The voting system shall not boot from any alternative device.

Purpose:
The Purpose of this test is to verify that the software has disabled the autorun feature of the device and is capable of booting only from the drive or device identified by the system.

Prerequisites:

Test Procedures:

Variances Used During Testing:

Voting system does not have auto boot and auto run capabilities functioning on workstations and/or servers.
The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, returing, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Criteria</th>
<th>Actions and Findings</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Continue to next page...
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Observer</th>
<th>Test Log</th>
<th>Activities and Entries</th>
<th>Incident Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Attachments**

<table>
<thead>
<tr>
<th>Documents (list all documents)</th>
<th>No</th>
<th>Yes</th>
<th>Videos (list all videos)</th>
<th>No</th>
<th>Yes</th>
<th>Photos (list all photos)</th>
<th>No</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Acceptable Comparator/Contrast**

- See Observations

**Result Summary**

- See Findings

**Pass Condition**

- Printed Name: Michael L. Chadwell
- Signature: Date: 9-23-07

**Supervisor/Approval**

- Printed Name: John Gardner
- Signature: Date: 9-23-07
Observations: Autumn and the last process is a function of the workstation/server hardware (computer) and must be verified at the time of software installation. See attached photo.

Findings: Voting system meets the requirement if the test is performed if above conditions are met.

1st Review: [Signature] 9/18/07
2nd Review: [Signature] 9/26/07
Supervisor Approval: [Signature] 9/29/07