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

Test Number
BC1-P3 - 101
After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:
All other voting system databases submitted for certification shall have the voting systems databases hardened to database manufacturer's existing hardening requirements.

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

Test Procedures:
This rule section is not applicable until after March 31, 2008

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, step and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operation</th>
<th>Activities and Safety</th>
<th>Incident Report</th>
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<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>
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</table>

**Acceptable Compromising Controls**

**Test Results:**

<table>
<thead>
<tr>
<th>Test Review</th>
<th>T. Bishop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printed name</td>
<td>Michael C. Cheever</td>
</tr>
<tr>
<td>Signature</td>
<td>Michael C. Cheever</td>
</tr>
<tr>
<td>Date</td>
<td>9-17-07</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Final Review</th>
<th>John Gardner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printed name</td>
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<tr>
<td>Signature</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>9-26-07</td>
</tr>
</tbody>
</table>

Voting Systems Certification Program

Created by the Colorado Secretary of State's Office
Observations:

n/a

Findings:

n/a

T. Bishop  
Printed name  
Signature  
9-17-07  
Date

Michael L. Chadwell  
Printed name  
Signature  
9-26-07  
Date

John Gardner  
Printed name  
Signature  
9-26-07  
Date
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number

BC1-P3 - 102

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The voting system shall meet the following requirements for database security: After March 31, 2008 if manufacturer’s requirements do not exist for the specifically designed system, the voting systems submitted for certification shall have the voting systems databases hardened to the database vendors specifications.

**Purpose:**

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

**Test Procedures:**

This rule section is not applicable until after March 31, 2008

**Prerequisites:**

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.
Additional Observations and Findings

Observations:

n/a

Findings:

n/a

T. Bishop
Printed name
Signature 9-17-07

Michael L. Cheek
Printed name
Signature 9-26-07

John Gardner
Printed name
Signature 9/26/07

[Signature] [Date]  [Signature] [Date]  [Signature] [Date]
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number

BC1-P3 - 103
After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:

All voting systems submitted for certification shall have all voting systems databases restricted to allowing access to database authentication from application only (or through application only).

Purpose:

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

Prerequisites:

Test Procedures:

This rule section is not applicable until after March 31, 2008

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, rerouting, stop and restoring the system as necessary.
Observations:
n/a

Findings:
n/a
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number

BC1-P3 - 104
After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:

All data stored at rest in any voting system database shall be encrypted in accordance with section (vi) of this requirement.

**Purpose:**

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

**Test Procedures:**

This rule section is not applicable until after March 31, 2008

**Test Procedures:**

N/A until after 3/31/2008

**Variance Used During Testing:**
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>Operation</th>
<th>Activities and Comments</th>
<th>Incident Reports</th>
</tr>
</thead>
<tbody>
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</table>

Continue to next page...
Observations:
n/a

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

Test Number

BC1-P3 - 105

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The voting system shall meet the following requirements for database security: After March 31, 2008, all Cryptography modules shall be documented by the voting system vendor to be certified to US Federal Information Processing Standard (FIPS-140-2), and validated to FIPS 180 standards.

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

Prerequisites:

Test Procedures:
This rule section is not applicable until after March 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, retiring, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Activity or Details</th>
<th>Test Log/Report</th>
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<tbody>
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<thead>
<tr>
<th>Test Number</th>
<th>BC1-P3 - 105</th>
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<table>
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<th>Date</th>
<th>Time</th>
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<th>Student Reports</th>
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<tbody>
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### Attachments

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<td>Photos (list all photos)</td>
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<td>Yes</td>
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</table>

### Acceptable Compromising Controls

### Results Summary

- **Test Not Date Applicable**: N/A

### 1st Review
- **T. Bishop**
  - Printed name: ______________________
  - Signature: ______________________
  - Date: 9-17-07

### 2nd Review
- **Michael L. Chadwell**
  - Printed name: ______________________
  - Signature: ______________________
  - Date: 9-26-07

### Supervisor Approval
- **John Gardner**
  - Printed name: ______________________
  - Signature: ______________________
  - Date: ()
Additional Observations and Findings

Observations:

n/a

Findings:

n/a

T. Bishop
Printed name

Michael L. Chadwell
Printed name

John Gardner
Printed name

Signature 9-17-07  
Date  

Signature  
Date  

Signature  
Date  

Signature  
Date  

Voting Systems Certification - Testing Log rev. 2.1  
Created by the Colorado Secretary of State's Office  
approved 6/30/07
CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007
2007-CDOS-HAR-001-0404

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

Prerequisites:

Test Procedures:
This rule section is not applicable until after March 31, 2008

Variances Used During Testing:

Test Results:
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 set up, start, process, measurements, shut down, restarting, step and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Authors and Contacts</th>
<th>Incident Reports</th>
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Continue to next page...
Observations:

n/a

Findings:

n/a
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number

BC2-P3 · 201
### 2007-CDOS-HAR-001-0404

**After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:**

(i) All voting systems submitted for certification using Oracle 9i, Oracle 10g, or Microsoft SQL shall be hardened to the existing and published NSA guidelines for databases as follows:

(A) Oracle 9i and Oracle 10g databases shall be hardened to the Center for Internet Security Benchmark for Oracle 9i/10g Ver. 2.0;

(B) Microsoft SQL databases shall be hardened to the NSA Guide to the Secure Configuration and Administration of Microsoft SQL Server 2000.

<table>
<thead>
<tr>
<th>Test Procedure Specifications</th>
</tr>
</thead>
</table>

#### Purpose:

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

#### Prerequisites:

V

#### Test Procedures:

This test is not applicable at this time.

#### 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>Operator</th>
<th>Number of Counters</th>
<th>Incident Reports</th>
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Continue to next page...
Observations:
n/a

Findings:
n/a

<table>
<thead>
<tr>
<th></th>
<th>First Review</th>
<th>Second Review</th>
<th>Supervisor Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Bishop</td>
<td>Printed name</td>
<td>Printed name</td>
<td>John Gardner</td>
</tr>
<tr>
<td>Signature</td>
<td>9-17-07</td>
<td>Signature</td>
<td>Date</td>
</tr>
<tr>
<td></td>
<td>Michael A. Chadwell</td>
<td>Signature</td>
<td>9-26-07</td>
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<td>Signature</td>
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</table>
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number: BC2-P3 - 202

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**2007-CDOS-HAR-001-0404**

The voting system shall meet the following requirements for database security: After March 31, 2008

If manufacturer's requirements do not exist for the specifically designed system, the voting systems submitted for certification shall have the voting systems databases hardened to the database vendors specifications.

<table>
<thead>
<tr>
<th>Purpose:</th>
<th>Prerequisites:</th>
</tr>
</thead>
<tbody>
<tr>
<td>This test is Not Applicable at this time - application for certification is prior to 3/31/2008.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Procedures:</th>
<th>Variance Used During Testing:</th>
</tr>
</thead>
<tbody>
<tr>
<td>This test is not applicable at this time.</td>
<td></td>
</tr>
</tbody>
</table>

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, retiring, step and restoring the system as necessary.
<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>
</table>

**Acceptable Compensating 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></td>
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</tbody>
</table>

Printed name

Signature 9-17-07

Date

Michael L. Chadwick

Printed name

Signature 9-26-07

Date

John Gardner

Printed name

Signature 9-29-07

Date
Additional Observations and Findings

Observations:
n/a

Findings:
n/a

T. Bishop  
Printed name  
Signature  
Date

Michael L. C. Harder  
Printed name  
Signature  
Date

John Gardner  
Printed name  
Signature  
Date
CDOS Certification Number: **2007-CDOS-HAR-001-0404**

Manufacturer: **Hart Intercivic**

Application Date: **04/04/2007**
2007-CDOS-HAR-001-0404

Rule/Section: 45.5.2.6.1(C)(v)

Test Procedure Specification:

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

**Prerequisites:**

**Test Procedures:**
This test is not applicable at this time.

**Variances 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, making, and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Advise and Contact</th>
<th>Incident Report</th>
</tr>
</thead>
</table>

Continue to next page...
Additional Observations and Findings

Observations:
n/a

Findings:
n/a

T. Bishop
Printed name
9-17-07
Signature
Date

Michael L. Chadwell
Printed name
9-26-07
Signature
Date

John Gardner
Printed name
9-29-07
Signature
Date
CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number
BC2-P3 - 204

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2007-CDOS-HAR-001-0404

The voting system shall meet the following requirements for database security: After March 31, 2008, all Cryptography modules shall be documented by the voting system vendor to be certified to US Federal Information Processing Standard (FIPS-140-2), and validated to FIPS 180 standards.

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

Prerequisites:

Test Procedures:
This test is not applicable at this time.

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.
Additional Observations and Findings

Observations:
n/a

Findings:
n/a

T. Bishop
Printed name
Signature
9-17-07
Date

Michael L. Chadwell
Printed name
Signature
9-26-07
Date

John Gardner
Printed name
Signature

Voting Systems Certification - Testing Log rev. 2.1
approved 03/05/07
Created by the Colorado Secretary of State's Office
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number
BC2-P3 - 205

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2007-CDOS-HAR-001-0404

After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:

All voting systems submitted for certification shall have all voting systems databases restricted to allowing access to database authentication from application only (or through application only).

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

Prerequisites:

Test Procedures:
This test is not applicable at this time.

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>Activities and Results</th>
<th>Incident Reports</th>
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</thead>
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</tbody>
</table>

Continue to next page...
Additional Observations and Findings

Observations:
n/a

Findings:
n/a

First Review
T. Bishop
Printed name
Signature
Date 9-17-07

Second Review
Michael L. Chadwick
Printed name
Signature
Date 9-24-07

Supervisor Approval
John Gardner
Printed name
Signature
Date 9/27/07
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

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

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

Test Procedures:
This test is not applicable at this time.

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, retarding, stop and restoring the system as necessary.
### Document Details

**Test Number**: BC2-P3 - 206

**Document Title**: 2007-CDOS-HAR-001-0404

### Attachments

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

### Personnel

**1st Review**

- **Name**: T. Bishop
- **Date**: 9-17-07
- **Signature**: [Signature]

**2nd Review**

- **Name**: Michael L. Chadwell
- **Date**: 9-26-07
- **Signature**: [Signature]

**Supervisor Approval**

- **Name**: John Gardner
- **Date**: 12-6-07
- **Signature**: [Signature]
Additional Observations and Findings

Observations:
n/a

Findings:
n/a

1st Review
T. Bishop
Printed name
Signature 9-17-07 Date

2nd Review
Mike Shaw
Printed name
Signature 9-26-07 Date

Supervisor Approval
John Gardner
Printed name
Signature 9-29-07 Date
CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007
After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:

(i) All voting systems submitted for certification using Oracle 9i, Oracle 10g, or Microsoft SQL shall be hardened to the existing and published NSA guidelines for databases as follows:

(A) Oracle 9i and Oracle 10g databases shall be hardened to the Center for Internet Security Benchmark for Oracle 9i/10g Ver. 2.0;
(B) Microsoft SQL databases shall be hardened to the NSA Guide to the Secure Configuration and Administration of Microsoft SQL Server 2000.

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

Prerequisites:

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

Variances Used During Testing:

Test Required 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, restarting, stop and restoring the system as necessary.
<table>
<thead>
<tr>
<th>Date</th>
<th>Name</th>
<th>Test Logs</th>
<th>Acceptable Compensating Controls</th>
<th>Result Summary</th>
<th>Final Test Status</th>
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**Vacation**

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</tr>
</tbody>
</table>

**Reviewers**

1st Review: T. Bishop

2nd Review: Michael C. Crowell

Supervisor Approval: John Gardner

Printed name: T. Bishop

Printed name: Michael C. Crowell

Printed name: John Gardner

Date: 9-17-07

Signature: T. Bishop

Date: 9-23-07

Signature: Michael C. Crowell

Date: 9-29-07

Signature: John Gardner
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  9-17-07
Date

Michael Crowell
Printed name
Signature  7-03-07
Date

John Gardner
Printed name
Signature  7-29-07
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

Text Number
BC3-P3 - 302

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After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:

All voting systems submitted for certification shall have all voting systems databases restricted to allowing access to database authentication from application only (or through application only).

Purpose:

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

Test Procedures:

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

Prerequisites:

Variance Used During Testing:
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>Name</th>
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<th>Printed Name</th>
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<th>Printed Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-17-07</td>
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<td>John Gardner</td>
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</table>
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

BC3-P3 - 303
### Test Procedure Specification

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

**Prerequisites:**

**Test Procedures:**
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, restarting, stop and restoring the system as necessary.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Activities and Status</th>
<th>Incident 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.

T. Bishop  
Printed name  
Signature  9-17-07  
Date

Michael C. Gardner  
Printed name  
Signature  9-23-07  
Date

John Gardner  
Printed name  
Signature  9-29-07  
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

BC3-P3 - 304

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2007-CDOS-HAR-001-0404

The voting system shall meet the following requirements for database security: After March 31, 2008, all Cryptography modules shall be documented by the voting system vendor to be certified to US Federal Information Processing Standard (FIPS-140-2), and validated to FIPS 180 standards.

Purpose:

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

Prerequisites:

Test Procedures:

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, restarting, stop and restoring the system as necessary.

<table>
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<th>Date</th>
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<th>Activity Details</th>
<th>Identified Report</th>
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</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.

T. Bishop
Printed name
Signature 9-17-07 Date

Michael L. Chadwell
Printed name
Signature 9-25-07 Date

John Gardner
Printed name
Signature Date
CDOS Certification Number: **2007-CDOS-HAR-001-0404**

**Manufacturer:** Hart Intercivic

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

**Test Number**

BC3-P3 - 305
### Purpose:
This test is Not Applicable at this time - application for certification is prior to 3/31/2008.

### Prerequisites:

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

### 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>
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</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.

T. Bishop
Printed name
Signature 9-17-07

Michael S. Cook
Printed name
Signature 9-28-07

John Gardner
Printed name
Signature 9-29-07
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
BC3-P3 - 306

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The voting system shall meet the following requirements for database security. After March 31, 2008, if manufacturer's requirements do not exist for the specifically designed system, the voting systems submitted for certification shall have the voting systems databases hardened to the database vendors specifications.

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

**Prerequisites:**

**Test Procedures:**
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, returing, stop and restoring the system as necessary.

<table>
<thead>
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<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Activities</th>
<th>Incident Report</th>
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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.
CDOS Certification Number: 2007-CDOS-HAR-001-0404
Manufacturer: Hart Intercivic
Application Date: 04/04/2007

Test Number

BC4-P3 - 401

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After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:

All voting systems submitted for certification shall have all voting systems databases restricted to allowing access to database authentication from application only (or through application only).

**Purpose:**

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

**Test Procedures:**

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

**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.
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
After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:

1. All voting systems submitted for certification using Oracle 9i, Oracle 10g, or Microsoft SQL shall be hardened to the existing and published NSA guidelines for databases as follows:

   A. Oracle 9i and Oracle 10g databases shall be hardened to the Center for Internet Security Benchmark for Oracle 9i/10g Ver. 2.0;

   B. Microsoft SQL databases shall be hardened to the NSA Guide to the Secure Configuration and Administration of Microsoft SQL Server 2000.

Purpose:

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

Prerequisites:

Variances Used During Testing:

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

Test Completed Date:

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>
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</table>

(Continue to next page...)

Voting Systems Certification Program

Created by the Colorado Secretary of State's Office
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
</tr>
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</table>

**Attachments**

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

**Acceptable Compensating Controls**

**1st Review**

T. Bishop

Printed name

Signature

Date

**2nd Review**

Michael L. Caldwell

Printed name

Signature

Date

**Supervisor Approval**

John Gardner

Printed name

Signature

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.
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 database security: After March 31, 2008, if manufacturer's requirements do not exist for the specifically designed system, the voting systems submitted for certification shall have the voting systems databases hardened to the database vendors specifications.

<table>
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<th>Prerequisites:</th>
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<table>
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<tr>
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<tbody>
<tr>
<td>This test is Not Applicable at this time - application for certification is prior to 3/31/2008.</td>
<td></td>
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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, returing, step and restoring the system as necessary.
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
</tr>
</thead>
</table>

**Attachments**

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

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

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

**Acceptable Controlling Controls**

**Results 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 St. Goodwell</td>
<td>John Gardner</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Printed name</th>
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<tr>
<td></td>
<td>Michael St. Goodwell</td>
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</tbody>
</table>
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.

T. Bishop
Printed name
Signature  9-17-07
Date

Michael L. Chadwell
Printed name
Signature  9-29-07
Date

John Gardner
Printed name
Signature  9/21/07
Date
CDOS Certification Number: 2007-CDOS-HAR-001-0404

Manufacturer: Hart Intercivic

Application Date: 04/04/2007

Test Number BC4-P3 - 404

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After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:

All data stored at rest in any voting system database shall be encrypted in accordance with section (vi) of this requirement.

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

Prerequisites:

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

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.
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
<table>
<thead>
<tr>
<th>Purpose:</th>
<th>Prerequisites:</th>
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<tr>
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<td>Variance Used During Testing:</td>
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<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>Operatio</th>
<th>Testbags</th>
<th>Service and Support</th>
<th>Premium Report</th>
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**Attachments**

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

**Results Summary**

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

Printed name

Signature  9-17-07

Date

Signature  9-29-07

Date

Created by the Colorado Secretary of State's Office
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.
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

BC4-P3 - 406

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2007-CDOS-HAR-001-0404

After March 31, 2008 all voting systems submitted for certification shall meet the following requirements for database security:
All other voting system databases submitted for certification shall have the voting systems databases hardened to database manufacturer's existing hardening requirements.

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

Prerequisites:

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

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Findings:
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T. Bishop
Printed name
Signature
Date

Michael L. Chadwell
Printed name
Signature
Date

John Gardner
Printed name
Signature
Date