



U.S. ELECTION ASSISTANCE COMMISSION

Voting System Testing and Certification Program

1201 New York Avenue, NW, Suite 300

Washington, DC. 20005

EAC Certified System Technical Advisory – ESS2011-03

EAC System(s) Affected:	ES&S Unity 3.2.1.0
Component(s) Affected:	DS200
Version(s) Affected:	DS200 firmware version 1.4.3.11 (Unity 3.2.1.0)
Advisory Release Date:	July 28, 2011
Summary:	During local acceptance testing a DS200 Ballot Scanner failed to count a marked ballot position resulting in a lost vote.

Advisory:

Jurisdictions currently with, or considering upgrading/purchasing, the Election Systems & Software (ES&S) Unity 3.2.1.0 voting system should be aware that during local acceptance testing of the Unity 3.2.1.0 system, a DS200 Ballot Scanner failed to count a marked ballot position resulting in a lost vote.

Issue Description:

During testing on the Unity 3.2.1.0, a DS200 did not count a valid mark for a race. The anomaly was discovered when county testers reviewed the printed election summary report for the DS200 unit. The count for a single contest did not match the expected results. The test was performed to verify that ES&S had corrected a previous anomaly with similar symptoms. The county testers were using a 17" ballot with contests concentrated in the lower sections of the ballot (see Appendix A).

Root Cause:

In discussion with the EAC, ES&S stated that they have only been able to replicate this issue in testing by removing the plastic guides and physically altering the ballot (cutting of a corner).

EAC Comments:

In an effort to understand the issue the EAC focused on reviewing ballot images from several states and previous test campaigns. The review included 11", 14", 17" and 19" ballots. In the course of the review, the EAC found various degrees of ballot image distortion; with the 17" ballot having the largest degree of skew (see Appendix B). The EAC is working with jurisdictions, VSTLs and the manufacturer to understand and resolve this issue.

Recommended Procedures:

No recommend procedures at this time.

Notice Questions:

Please direct any question on this notice to the Election Assistance Commission Testing and Certification Division at 202-566-3100.

Appendix A – Image of ballot with dropped vote

TEST

D PARMA -03-B E F PARMA -03-B

3

**PROPOSED TAX LEVY
(ADDITIONAL)
COUNTY**

**A majority affirmative vote is
necessary for passage**

An additional tax for the benefit of the Brecksville-Broadview Heights City School District for the purpose of current expenses at a rate not exceeding 5.3 mills for each one dollar of valuation, which amounts to 53 cents for each one hundred dollars of valuation, for five years, commencing in 2011, first due in calendar year 2012.

3

**PROPUESTA PARA
RECAUDACIÓN DE IMPUESTOS
(ADICIONAL)
CONDADO**

**Se requiere un voto afirmativo por
mayoría para su aprobación**

Un impuesto adicional que beneficiará al Distrito Escolar de la Ciudad de Brecksville-Broadview Heights con el fin de cubrir los gastos actuales sin exceder 5.3 milésimos por cada dólar de valoración, lo cual representa 53 centavos por cada cien dólares de valoración, por cinco años, comenzando en el 2011, con su primer vencimiento en el año calendario del 2012.

YES / SI

NO / NO

4

**PROPOSED TAX LEVY
(ADDITIONAL)
COUNTY**

**A majority affirmative vote is
necessary for passage**

An additional tax for the benefit of the Strongsville City School District for the purpose of current expenses at a rate not exceeding 9.9 mills for each one dollar of valuation, which amounts to 99 cents for each one hundred dollars of valuation, for a continuing period of time, commencing in 2011, first due in calendar year 2012.

4

**PROPUESTA PARA
RECAUDACIÓN DE IMPUESTOS
(ADICIONAL)
CONDADO**

**Se requiere un voto afirmativo por
mayoría para su aprobación**

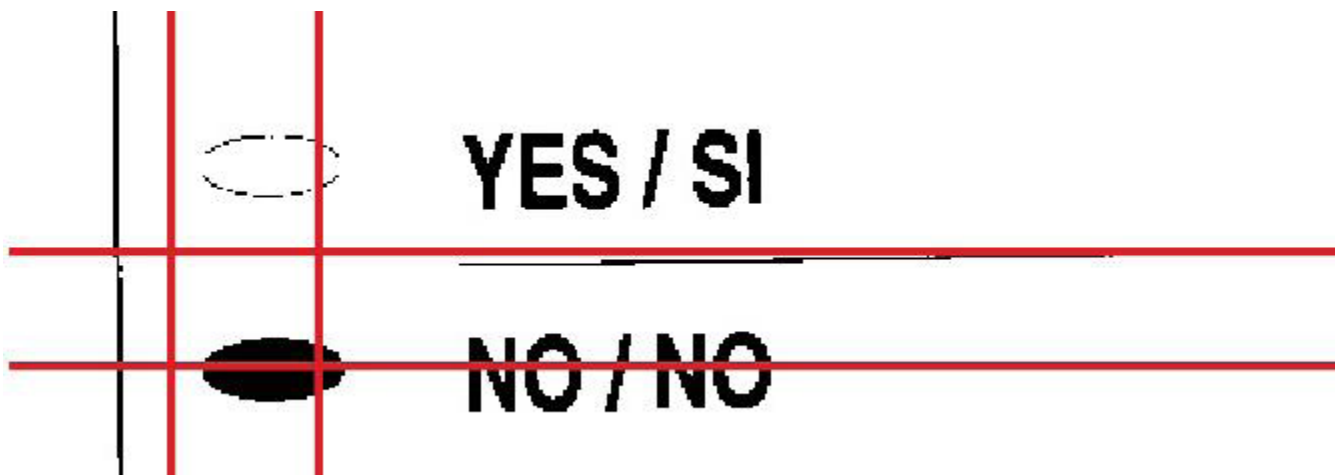
Un impuesto adicional que beneficiará al Distrito Escolar de la Ciudad de Strongsville con el fin de cubrir los gastos actuales sin exceder 9.9 milésimos por cada dólar de valoración, lo cual representa 99 centavos por cada cien dólares de valoración, por un período continuo, comenzando en el 2011, con su primer vencimiento en el año calendario del 2012.

YES / SI

NO / NO

D PARMA -03-B E Typ:06 Seq:0823 Spl:01 F PARMA -03-B

17 inch target area zoomed in



Appendix B – Examples of ballot Images

A	Lincoln Hills	B	C
<p>Straight Party</p> <p><input type="radio"/> American</p> <p><input type="radio"/> Communist</p> <p><input type="radio"/> Constitution</p> <p><input type="radio"/> Democrat</p> <p><input type="radio"/> Green</p> <p><input type="radio"/> Labor</p> <p><input checked="" type="radio"/> Libertarian</p> <p><input type="radio"/> Republican</p>		<p>Representative in Congress Vote for one</p> <p><input type="radio"/> Ben Baker American</p> <p><input type="radio"/> Edwin Lewis Communist</p> <p><input type="radio"/> Frank L. Matthews Constitution</p> <p><input type="radio"/> Gale Smith Democrat</p> <p><input type="radio"/> James A. Clark Green</p> <p><input type="radio"/> Ken Anderson Labor</p> <p><input type="radio"/> Leo Cross Libertarian</p> <p><input type="radio"/> Theodore Judd Republican</p> <p><input type="radio"/> Write-in</p>	
<p>President of the United States Vote for one</p> <p><input type="radio"/> Barbara Barrett Hicks American</p> <p><input type="radio"/> Edris Thomas Communist</p> <p><input type="radio"/> Fiero Finn Constitution</p> <p><input type="radio"/> Gail Keefe Democrat</p> <p><input type="radio"/> Imran Rashid Green</p> <p><input type="radio"/> Jack "Duke" Brodisky Labor</p> <p><input type="radio"/> Kay Raab Libertarian</p> <p><input type="radio"/> Sam Patel Republican</p> <p><input type="radio"/> Write-in</p>		<p>Associate Judge of Court of Appeals Vote for one</p> <p><input type="radio"/> Ala Dee Smith American</p> <p><input type="radio"/> Calvin Marino Communist</p> <p><input type="radio"/> David Cox Constitution</p> <p><input type="radio"/> Eugene Ruff Democrat</p> <p><input type="radio"/> Kerry Jones Green</p> <p><input type="radio"/> Mildred Dudo Labor</p> <p><input type="radio"/> Philip Thorpp Libertarian</p> <p><input checked="" type="radio"/> Thomas Reiss Republican</p> <p><input type="radio"/> Write-in</p>	
<p>United States Senator Vote for one</p> <p><input type="radio"/> Barry Josey American</p> <p><input type="radio"/> Edwin Best Communist</p> <p><input type="radio"/> Floyd W. Schisler Constitution</p> <p><input type="radio"/> Gail Ross Democrat</p> <p><input type="radio"/> Jack Hall Green</p> <p><input type="radio"/> Keith Satterwhite Labor</p> <p><input type="radio"/> Laurie St Laurent Libertarian</p> <p><input type="radio"/> Tetty Rogiers Republican</p> <p><input type="radio"/> Write-in</p>		<p>State Assembly Vote for one</p> <p><input type="radio"/> Betty Williams American</p> <p><input type="radio"/> Elizabeth Mack Communist</p> <p><input type="radio"/> Frank Pearson Constitution</p> <p><input type="radio"/> Gary Klemann Democrat</p> <p><input type="radio"/> James Ayers Green</p> <p><input type="radio"/> Kenneth Interlicchio Labor</p> <p><input type="radio"/> Leon Lewis Libertarian</p> <p><input type="radio"/> Theodore Kopp Republican</p> <p><input type="radio"/> Write-in</p>	
<p>State Supreme Court Justice Vote for one</p> <p><input type="radio"/> Bruce Willis American</p> <p><input type="radio"/> Ernst Lynch Communist</p> <p><input type="radio"/> Glenn T Combs Constitution</p> <p><input type="radio"/> Herbert Schweppenhauser Democrat</p> <p><input type="radio"/> Linda Hall Green</p> <p><input type="radio"/> Micheal McClelland Labor</p> <p><input type="radio"/> Philip Thorpp Libertarian</p> <p><input type="radio"/> Eugene Kessler Republican</p> <p><input type="radio"/> Write-in</p>		<p>County Commisioner Vote for one</p> <p><input type="radio"/> Brent Gilley American</p> <p><input type="radio"/> Elizabeth Piazza Communist</p> <p><input type="radio"/> Franklin Margo Constitution</p> <p><input type="radio"/> Gene Tillman Democrat</p> <p><input type="radio"/> James Collins Green</p> <p><input type="radio"/> Kerry Jones Labor</p> <p><input type="radio"/> Lewis Tese Libertarian</p> <p><input type="radio"/> Tony Grzanich Republican</p> <p><input type="radio"/> Write-in</p>	
A		C	

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11 inch target area zoomed in

		LIBERTARIAN
		Charles Place
		Republican
		Write-in

A	Hillwood	B	C
<p>Straight Party</p> <p><input type="radio"/> American</p> <p><input type="radio"/> Communist</p> <p><input type="radio"/> Constitution</p> <p><input type="radio"/> Democrat</p> <p><input type="radio"/> Green</p> <p><input checked="" type="radio"/> Labor</p> <p><input type="radio"/> Libertarian</p> <p><input type="radio"/> Republican</p>		<p>Representative in Congress Vote for one</p> <p><input type="radio"/> Ben Baker American</p> <p><input type="radio"/> Edwin Lewis Communist</p> <p><input type="radio"/> Frank L. Matthews Constitution</p> <p><input type="radio"/> Gale Smith Democrat</p> <p><input type="radio"/> James A. Clark Green</p> <p><input type="radio"/> Ken Anderson Labor</p> <p><input type="radio"/> Leo Cross Libertarian</p> <p><input type="radio"/> Theodore Judd Republican</p> <p><input type="radio"/> Write-in</p>	
<p>President of the United States Vote for one</p> <p><input type="radio"/> Barbara Barrett Hicks American</p> <p><input type="radio"/> Edris Thomas Communist</p> <p><input type="radio"/> Fiero Finn Constitution</p> <p><input type="radio"/> Gail Keefe Democrat</p> <p><input type="radio"/> Imran Rashid Green</p> <p><input type="radio"/> Jack "Duke" Brodisky Labor</p> <p><input type="radio"/> Kay Raab Libertarian</p> <p><input type="radio"/> Sam Patel Republican</p> <p><input type="radio"/> Write-in</p>		<p>Associate Judge of Court of Appeals Vote for one</p> <p><input type="radio"/> Ala Dee Smith American</p> <p><input type="radio"/> Calvin Marino Communist</p> <p><input type="radio"/> David Cox Constitution</p> <p><input type="radio"/> Eugene Ruff Democrat</p> <p><input type="radio"/> Kerry Jones Green</p> <p><input type="radio"/> Mildred Dudo Labor</p> <p><input type="radio"/> Philip Thorpp Libertarian</p> <p><input type="radio"/> Thomas Reiss Republican</p> <p><input type="radio"/> Write-in</p>	
<p>United States Senator Vote for one</p> <p><input type="radio"/> Barry Josey American</p> <p><input type="radio"/> Edwin Best Communist</p> <p><input type="radio"/> Floyd W. Schisler Constitution</p> <p><input type="radio"/> Gail Ross Democrat</p> <p><input type="radio"/> Jack Hall Green</p> <p><input type="radio"/> Keith Satterwhite Labor</p> <p><input type="radio"/> Laurie St Laurent Libertarian</p> <p><input type="radio"/> Tetty Rogiers Republican</p> <p><input type="radio"/> Write-in</p>		<p>State Assembly Vote for one</p> <p><input type="radio"/> Betty Williams American</p> <p><input type="radio"/> Elizabeth Mack Communist</p> <p><input type="radio"/> Frank Pearson Constitution</p> <p><input type="radio"/> Gary Klemann Democrat</p> <p><input type="radio"/> James Ayers Green</p> <p><input type="radio"/> Kenneth Interlicchio Labor</p> <p><input type="radio"/> Leon Lewis Libertarian</p> <p><input type="radio"/> Theodore Kopp Republican</p> <p><input type="radio"/> Write-in</p>	
<p>State Supreme Court Justice Vote for one</p> <p><input type="radio"/> Bruce Willis American</p> <p><input type="radio"/> Ernst Lynch Communist</p> <p><input type="radio"/> Glenn T Combs Constitution</p> <p><input type="radio"/> Herbert Schweppenhauser Democrat</p> <p><input type="radio"/> Linda Hall Green</p> <p><input type="radio"/> Micheal McClelland Labor</p> <p><input type="radio"/> Philip Thorpp Libertarian</p> <p><input type="radio"/> Eugene Kessler Republican</p> <p><input type="radio"/> Write-in</p>		<p>County Commisioner Vote for one</p> <p><input type="radio"/> Brent Gilley American</p> <p><input type="radio"/> Elizabeth Piazza Communist</p> <p><input type="radio"/> Franklin Margo Constitution</p> <p><input type="radio"/> Gene Tillman Democrat</p> <p><input type="radio"/> James Collins Green</p> <p><input type="radio"/> Kerry Jones Labor</p> <p><input type="radio"/> Lewis Tese Libertarian</p> <p><input type="radio"/> Tony Grzanich Republican</p> <p><input checked="" type="radio"/> Write-in</p>	
<p>County Comptroller Vote for one</p> <p><input type="radio"/> Brian Edwards American</p> <p><input type="radio"/> Eric Sheehy Communist</p> <p><input type="radio"/> George A. Fisk Constitution</p> <p><input type="radio"/> Helena Slack Democrat</p> <p><input type="radio"/> Lewis Touhay Green</p> <p><input type="radio"/> Mary L. Daniel Labor</p> <p><input type="radio"/> Nyda E Hamblin Libertarian</p> <p><input type="radio"/> Charles Place Republican</p> <p><input type="radio"/> Write-in</p>		<p>291 of 372</p>	

11

21

40

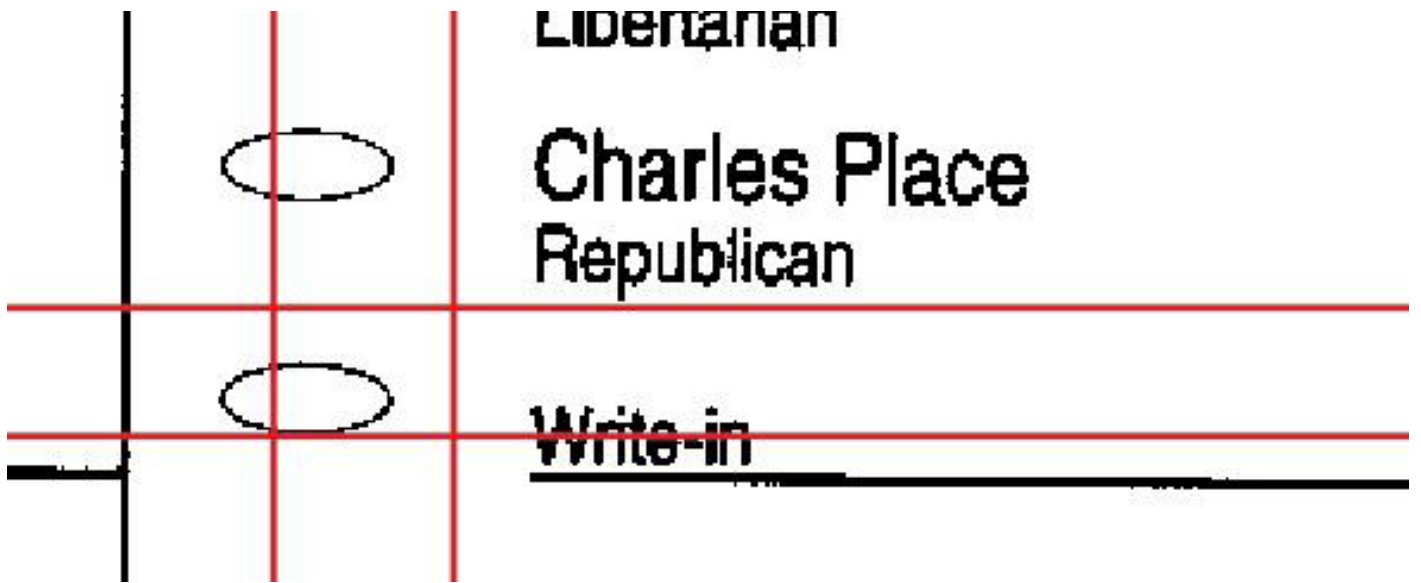
41

42

43

51

14 inch target area zoomed in



Davis Hills

Straight Party

- American
- Communist
- Constitution
- Democrat
- Green
- Labor
- Libertarian
- Republican

State Assembly
Vote for one

- Betty Williams
American
- Elizabeth Mack
Communist
- Frank Pearson
Constitution
- Gary Klemann
Democrat
- James Ayers
Green
- Kenneth Interlicchio
Labor
- Leon Lewis
Libertarian
- Theodore Kopp
Republican
- Write-in

County Comptroller
Vote for one

- Brian Edwards
American
- Eric Sheehy
Communist
- George A. Fisk
Constitution
- Helena Slack
Democrat
- Lewis Touhay
Green
- Mary L. Daniel
Labor
- Nyda E Hamblin
Libertarian
- Charles Place
Republican
- Write-in

President of the United States
Vote for one

- Barbara Barrett Hicks
American
- Edris Thomas
Communist
- Fiero Finn
Constitution
- Gail Keefe
Democrat
- Imran Rashid
Green
- Jack "Duke" Brodsky
Labor
- Kay Raab
Libertarian
- Sam Patel
Republican
- Write-in

State Supreme Court Justice
Vote for one

- Bruce Willis
American
- Ernst Lynch
Communist
- Glenn T Combs
Constitution
- Herbert Schweppenhauser
Democrat
- Linda Hall
Green
- Micheal McClelland
Labor
- Philip Thorp
Libertarian
- Eugene Kessler
Republican
- Write-in

County Assessor
Vote for one

- Brian Getz
American
- Ernest Snyder
Communist
- Gerald Danson
Constitution
- Herbert Devine
Democrat
- Linda Gapp
Green
- Micheal H Walker
Labor
- Philip Rebis
Libertarian
- William Sullivan
Republican
- Write-in

United States Senator
Vote for one

- Barry Josey
American
- Edwin Best
Communist
- Floyd W. Schisler
Constitution
- Gail Ross
Democrat
- Jack Hall
Green
- Keith Satterwhite
Labor
- Laurie St Laurent
Libertarian
- Tetty Rogiers
Republican
- Write-in

Associate Judge of Court of Appeals
Vote for one

- Ala Dee Smith
American
- Calvin Marino
Communist
- David Cox
Constitution
- Eugene Ruff
Democrat
- Kerry Jones
Green
- Mildred Dudo
Labor
- Philip Thorp
Libertarian
- Thomas Reiss
Republican
- Write-in

Councilman District 2
Vote for one

- Arthur Salamack
Non Partisan
- Carter McGaw
Non Partisan
- Derek Persons
Non Partisan
- Elizabeth Piazza
Non Partisan
- Franklin Margo
Non Partisan
- Louis Korte, Jr
Non Partisan
- Mary L. Daniel
- Write-in

Representative in Congress
Vote for one

- Ben Baker
American
- Edwin Lewis
Communist
- Frank L. Matthews
Constitution
- Gale Smith
Democrat
- James A. Clark
Green
- Ken Anderson
Labor
- Leo Cross
Libertarian
- Theodore Judd
Republican
- Write-in

County Commissioner
Vote for one




- Brent Gilley
American
- Elizabeth Piazza
Communist
- Franklin Margo
Constitution
- Gene Tillman
Democrat
- James Collins
Green
- Kerry Jones
Labor
- Lewis Tese
Libertarian
- Tony Grzanich
Republican
- Write-in

Councilman District 5
Vote for one

- Arnold Krill
Non Partisan
- Christopher R. Richardson
Non Partisan
- Delores DeVan
Non Partisan
- Ernest Snyder
Non Partisan
- George A. Fisk
Non Partisan
- Helena Slack
Non Partisan
- Imran Rashid
Non Partisan
- Write-in

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19 inch target area zoomed in

	LEW CRUSS Libertarian
	Theodore Judd Republican
	Write-in