VSTOP Report
to
The Indiana Election Commission

Hart InterCivic Verity Voting 2.3

Application for Voting System Certification
Evaluation of a New Voting System

July 22, 2019

Scope of Certification (a list of all voting system components, with limitations therein):

Hardware:

Component	Version
Verity Scan	2.3.1
Verity Touch Writer	2.3.1
Verity Touch Writer Duo	2.3.1
Verity Controller	2.3.2

Firmware:

Component	Version
Verity Scan	2.3.1
Verity Touch Writer	2.3.1
Verity Touch Writer Duo	2.3.1
Verity Controller	2.3.2

Software:

Component	Version
Verity Election Management	2.3.1
Verity User Management	2.3.1
Verity Desktop	2.3.1
Verity Data	2.3.1
Verity Build	2.3.1
Verity Central	2.3.1
Verity County	2.3.1

COTS:

Component	Version
Verity Key	2005361
Verity vDrive	AH322
Verity vDrive	AH162-A
HP Z240 Workstation	Z240 Minimum Requirements: • Processor – Intel Celeron D 420 3.06GHz Dual-Core • Memory – 2GB • Hard Drive – 120 GB • Removable Storage – 8xDVD+/-RW Slimline • USB Ports – 4 ports • Video Card - Integrated Graphics • Keyboard – USB Keyboard • Mouse – USB Mouse

Canon G1130 scanner	G1130
Canon G1100 scanner	G1100
Okidata printer	B432dn
	B831dn
HP P232 Display	P232
Autoballot barcode scanner	DS4308
USB Duplicator 7-targets	USBShark-7T-BK
USB Duplicator 23-bay	USBShark-23T-BK
UPS for Touch Writer Printer	5P1500
Verity Device Battery	1005015
	U80327
Verity Touch Writer, Scan only AC-DC Power Supply	VEH60WS24
Verity all devices AC-DC Power Supply	TE60B2449F02
Verity Touch Writer Headphones	HA300-2NP
Verity Application Workstation Ethernet Switch	1405-8G

Findings:

The Verity Touch Writer Duo is a series of (up to 12) ballot marking devices connected via a daisy-chain network. VSTOP's findings are that the network is closed and poses no additional vulnerabilities or threats without having direct physical access to the hardware.

The Verity Print features were determined to not be under the scope of certification and were removed from the original application. Hart InterCivic provided an amended application which did not include the Verity Print.

On May 21, 2019, during the mock election at Ball State University, VSTOP experienced an issue of straight party voting affecting the at-large races. The predetermined vote tallied for at-large races did not match the tabulated results from the Hart system. The representative from Hart InterCivic was responsive to this and explained to us that this was due to the improper selection of settings during election setup. He and his team at Hart were able to identify the issue so that VSTOP could conduct a repeat of the mock election on May 22, 2019 and the vote tallies matched as expected.

Recommendation:

On the basis of VSTOP's review and evaluation, we find that the voting system referenced herein (and with the Scope of Certification and the limitations therein) meets all the requirements of the Indiana Code for use in the State of Indiana. This finding includes compliance with the legal requirements for voters with disabilities.

Included in this recommendation, VSTOP advises that Hart InterCivic train poll workers to instruct voters to verify their cast ballots (printed from the Verity Touch Writer) before scanning with the Verity Scan. VSTOP also recommends that Hart InterCivic properly trains the personnel creating and validating the election setup to be in compliance with Indiana requirements.

Jay Bagga
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Dr. Jay Bagga, Co-Director
Date: July 22, 2019

Bryan Byers
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Dr. Bryan Byers, Co-Director
Date: July 22, 2019

List of Attachments:

[1] IEC-11 application originally filed dated January 1, 2019 and amended on July 15, 2019
[2] VSTL (SLI Compliance) Report on Verity Voting 2.3 dated January 25, 2019
[3] EAC Certification of Conformance on Verity Voting 2.3 dated March 15, 2019