

SLI Compliance

Data, Software or TDP Minor Change Evaluation & Review Form

Vendor:	Hart InterCivic	Date:	7/12/2023
Change ID:	ECO-01599	System(s):	Verity 2.7 Voting System
Product:	Verity Data/Build, Central, Scan, and Reader (non-EAC certified device)	Relevant Application(s):	Verity Data/Build, Central, Scan, and Reader (non-EAC certified device)

Put an X in the appropriate box(es):

	TDP Change
	Data Change
x	Software Change

Change Summary Description

This ECO makes enhancements to Printed Vote Records (PVRs) to maximize the number of voter selections on each sheet and to improve usability. These enhancements include a new condensed PVR template that increases the number of choices per PVR sheet by displaying two sets of columns, relocation of header fields on PVR sheets, and automatic PVR short names refresh in Verity Data.

PVRs ballots are used with the Verity Touch Writer Duo series of Ballot Marking Devices. This ECO includes changes that allow jurisdictions to maximize the number choices shown on a PVR sheet and to improve usability. The changes include:

- A new PVR template, *English-only Condensed Portrait*, that supports the presentation of Contests, Choices, and Choice Order across two columns, nearly doubling the number of displayable rows on one PVR sheet. The template supports both 8.5x11" and 8.5x14" PVR paper lengths.
- Minor modifications to the placement of three fields in the PVR header on all PVR templates to improve usability.
- PVR Short Names will now automatically update in Verity Data any time the primary ballot content is updated without user intervention.

The following software applications are updated to support the changes:

- Data/Build
- Central
- Scan
- Reader - a non-EAC certified ballot verification device for select State deployments.

Reference Documents:

EAC 2005 Voluntary Voting System Guidelines (VVSG) Vol. II, Sec. 1.7.2
 EAC Voting System Testing and Certification Program Manual Ver. 3.0, Sec. 3.5.1.
 NOC 19-01: Software De Minimis Changes, 11-15-2019

Documentation used in SLI's Assessment:

ECO-01599 Summary - Verity 2.7 PVR Enhancements 4005824 A00

Manufacturer Reasoning for Minor Change Determination

These changes do not materially alter the system’s reliability, functionality, capability, or operation.

Put an X in the appropriate box:

Change Evaluation		Comments
	The change affects the form, fit or function of the voting system component(s) and therefore requires further testing to be performed.	N/A
	Minor change: a change to a certified voting system’s data and/or TDP, the nature of which will not materially alter the system’s reliability, functionality, capability, or operation	N/A
x	Software Minor change: a change to the system’s software that meets the EAC requirements as identified below.	The proposed changes do not impact the Base OS master image. No other Verity products or releases are impacted by this change.

Software minor changes should have the following general characteristics:

- (1) Update a discrete component of the system and do not impact overall system functionality.
- (2) Do not modify the counting or tally logic of a component or the system (formatting changes to reports are allowable).
- (3) Do not affect the accuracy of the component or system.
- (4) Do not negatively impact the functionality, performance, accessibility, usability, safety, or security of a component or system.
- (5) Do not alter the overall configuration of the certified system (e.g. adding ballot marking device functionality to a previously certified DRE component).
- (6) Can be reviewed and/or tested by VSTL personnel in a short amount of time (approximately less than 100 hours)

SLI Evaluation and Minor Change Determination

The following workstation software images are updated to version 2.7.5:

- Data/Build Standalone
- Data/Build (Server only)
- Data/Build Client
- Data/Build/Count
- Central Server (AKA Standalone)
- Central DB Server
- Central Client

The following devices CFast card software images are updated to version 2.7.5:

- Verity Scan (38BT)
- Verity Reader (38BT) - a non-EAC certified verification device for select State deployments.

Trusted Build was witnessed by SLI Compliance via Teams. Source review found changes to 7 files and 315 lines. All changes reviewed were for the purpose of expanding the information being presented on PVRs. Most of the changes

removed code that would limit this ability, replacing it with a more expanded version. No other changes were noted, and no changed source code was found that would otherwise affect the operation of the software.



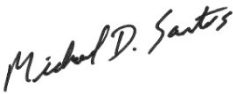
The testing, as detailed in Hart’s internal QA “ECO-01599 QA Test Report for Verity 2.7.5 provides sufficient coverage for enhancements made to the Printed Vote Records within Verity Voting 2.7 System.

All testing passed with no issues.

As required under section 3.5.1 of the EAC’s Voting System Testing and Certification Program Manual Version 3.0, and in accordance with the instruction provided in *NOC 19-01: Software De Minimis Changes*, SLI Compliance considers the nature of ECO-01599 to be minor and therefore not to affect the Federal certification status for the Verity Data 2.7 within the Verity Voting 2.7 system. No further testing is required.

For Software minor changes only: Summary of Test Results (attach any additional documentation)

See ECO-01599 QA Test Report for Verity 2.7.5 for additional details.

	Approved by/Title	Signature:	Date:
	Darrick E. Forester Voting Hardware Test Engineer		7/12/2023
	Michael D. Santos Director		7/12/2023

