



## ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

**Manufacturer:** Unisyn Voting Solutions

**System:** OpenElect Voting System 2.2

**ECO Number:** NCC 1031

**ECO Description:** Transport Media Device

### Overview:

This ECO introduces a commercial Flash Drive, USB (8GB), Model: TS8GJF270M to augment systems using similar 1GB models in the field in cases of high usages (max ballots) with large ballot images which can exceed the capacity of the 1GB Models. Per Unisyn, the new part has the same form, fit and function of the 1GB drives and can be used interchangeably. Products Affected: OpenElect Voting System, Version 2.2

### Supporting Documentation:

NCC 1031 (*Unisyn Certification Change Notification*)

TM\_8GB\_MLC\_TC (*Test Plan*)

TM\_8GB\_MLC\_TC\_TestCasesAsRun (*Unisyn As-Run Test Cases*)

Election Ballot Reports (*Ballot Proof Report, Election Proof Report, and Precinct Ballot Style Report*)

EM Reports (*Ballot Proof Report, Machine Group Report, and Precinct Barcode Report*)

Supplemental Information - Unisyn ECO 1031 (*Supplemental information*)

### Engineering Recommendation:

Technical Documentation Review and Functional Testing, which included a Volume Test performed by Pro V&V for final recommendation. Pro V&V reviewed and sampled Unisyn-submitted test cases for functional testing. Volume Testing was performed on the OpenElect Voting Central Scan (OVCS) and Freedom Vote Scan (FVS) components of the system. Based on testing performed, Pro V&V determined the change did not adversely affect the system functionality, performance, accessibility, usability, safety, or security of the system. The system tested was verified to be accurate during testing with the actual results matching the expected results. No issues were encountered during testing.

Pro V&V determined the new Flash Drive operates successfully with the system with no issues. No additional testing is required. This recommendation is based on the change having the following general characteristics: (1) Does not negatively impact overall system functionality; (2) Do not modify the counting or tally logic of a component or the system; (3) Does not affect the accuracy of the component or system; (4) Does not negatively impact the functionality, performance, accessibility, usability, safety, or security of a component or system, and (5) Does not alter the overall configuration of the certified system.

*All test artifacts (as-run test cases) were submitted to the EAC for review along with this ECO Analysis. Pro V&V evaluated this ECO under Section 3.3.2 Bug Fix of the Voting System Testing and Certification VVSG Lifecycle Policy.*

### Engineering Analysis: De Minimis – No Additional Testing Required

#### Reviewer:

Wendy Owens

Printed Name

*Wendy Owens*

Signature

04/08/2025

Date

#### Approver:

Michael L. Walker

Printed Name

*Michael L. Walker*

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