



ENGINEER CHANGE ORDER (ECO) ANALYSIS

Manufacturer: Election Systems & Software (ES&S)

System: EVS ExpressVote 3.0

ECO Number: ECO-1201

ECO Description: Update to the motherboard for bug fix

Overview:

This ECO introduces two bug fix updates to the A21 model motherboard BIOS and microcontroller unit (MCU) code for ExpressVote 3. The BIOS will be updated from version 1.00 to version 1.03 for use in new production and spare parts to remedy an issue in which the Intel® Celeron processor model J6412 erratum is resulting in a no boot condition. This issue is resolved via UEFI change to Intel Best Known Configuration (BKC). The MCU code will be updated due to a periodic update release for bug fixes. Per ES&S, this is a one time update coming from a bug fix release.

Systems Affected:

Federal: EVS 6.5.0.0; State: EVS 6.5.1.0, EVS 6.5.1.1, EVS 6.5.1.2, EVS 6.5.2.0, EVS 6.5.2.1

Supporting Documentation:

- ECO 1201 ORIGINAL (*ES&S Engineering Change Order*)
- EAC ECO-1201 Required Questions (*ECO Supplemental Information*)
- Intel CSE (*Notice from manufacturer*)
- Test Case - Updated BIOS for EV3 boot issue (*ES&S Test case and Results*)
- 50-10094-00 ExVt v3 A1.03 BIOS_MCU-114 Update_Instructions (*ES&S Work Instructions*)

Engineering Recommendation:

Based on successful technical documentation review, Pro V&V determines the submitted modification does not adversely impact the functionality, performance, accessibility, usability, safety, or security of the components or system or alter the overall configuration of the certified systems. No change to firmware/software is required. Per ES&S, there is no impact to election official documentation. Based on its review, Pro V&V recommends the modification be approved for use with the EVS Systems identified above with no testing required.

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: Minor Change – No testing required

Reviewer:

Wendy Owens

Printed Name

Wendy Owens
Signature

02/18/2026

Date

Approver:

Michael Walker

Printed Name

Michael L. Walker
Signature

02/18/2026

Date