



ENGINEER CHANGE ORDER (ECO)/ENGINEERING CHANGE NOTICE (ECN) ANALYSIS FORM

Manufacturer: MicroVote

System: MicroVote EMS V4.41

ECO/ECN Number: 140

ECO/ECN Description: Add replacement laptop Dell Latitude 3550

Overview:

This ECN documents the addition of a replacement laptop to MicroVote EMS V4.41. Previously certified EMS V4.41 laptops, including the current Dell Latitude 3540, are end-of-life. Dell Latitude 3550 is the next model to replace the previous models. Latitude 3550 passed the executed end-to-end test case.

Systems Affected:
EMS V4.41

Supporting Documentation:

ECN 140 - Replacement Dell Latitude 3550 laptop for EMS V4.41 system (*MicroVote ECN*)
ECN 140 - De minimis justification (*Supplemental Information*)
ECN 140 - DO1.4TDP-A-EMS44-C01-E-Latitude 3550-AV (*Test Execution Plan and Results*)

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 system. Replacement component is comparable in form, fit, and function to current model. No change to firmware/software is required. Per MicroVote, the operating system and settings remain unchanged from other certified laptops, there is no impact on election officials, and there is no change to system documentation. MicroVote has successfully conducted full end-to-end testing on the laptop model and has confirmed EMS V4.41 system compatibility.

No additional testing required.

*Pro V&V evaluated this ECO under **Section 3.3.3 COTS Replacement** of the Voting System Testing and Certification VVSG Lifecycle Policy.*

Engineering Analysis: Minor Change – No additional testing required

Reviewer:

Wendy Owens

Printed Name

Wendy Owens
Signature

09/09/2025

Date

Approver:

Michael L. Walker

Printed Name

Michael L. Walker
Signature

09/09/2025

Date