



**ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM**

<b>Manufacturer:</b>	MicroVote
<b>System:</b>	MicroVote EMS V4.1 System
<b>ECO Number:</b>	128
<b>ECO Description:</b>	End-of-Life Component Replacement

**Overview:**

This ECO documents evaluation of a request to add replacement laptop (Lenovo L430 Thinkpad) due to current component becoming end-of-life. Current laptops certified for EMS V4.1 system are end-of-life. Due to increase need of mail-in ballot scanning capability, the State is requiring additional models capable of supporting upcoming elections.

**Supporting Documentation:**

ECN 128 - Replacement Lenovo L430 Thinkpad for EMS system V4.1.pdf (*MicroVote ECN*)  
 ECN 128-Supplement.pdf (*detailed information in support of ECN*)  
 DO1.3TDP-A-EMS41-C01-E.docx (*MicroVote full end-to-end testing plan and results*)

**Engineering Recommendation:**

Technical documentation review performed to determine disposition. Replacement component is comparable in form, fit, and function to current model. It was determined that the new version will not adversely impact the certified systems. No change to firmware/software is required. MicroVote conducted full end-to-end testing on the laptop model and has confirmed system compatibility.

No testing required.

**Engineering Analysis: De Minimis**

<p><b>Reviewer:</b></p> <p align="center">Wendy Owens        _____        Printed Name</p> <p align="center"><i>Wendy Owens</i>        _____        Signature</p> <p align="center">07/10/2020        _____        Date</p>	<p><b>Approver:</b></p> <p align="center">Michael L. Walker        _____        Printed Name</p> <p align="center"><i>Michael L. Walker</i>        _____        Signature</p> <p align="center">07/10/2020        _____        Date</p>
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