



ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

Manufacturer: Unisyn Voting Solutions

System: OpenElect Voting System (OVS) 2.1

ECO Number: 17120

ECO Description: Add Dell Latitude 5520 with CentOS 7.9

Overview:

This ECO documents the addition of a Dell Latitude 5520 laptop computer with CentOS 7.9 to the OpenElect product line supporting 2.X OCS/OVCS applications.

The resulting version of this update would show as EOS 5.0 on the About Screen for all OCS/OVCS applications. Using CentOS 7.9 as the baseline OS with the ElRepo kernel 5.13.9_e17 for driver support, the EOS 5.0 is configured to meet SCAP best practices and function equivalently with EOS 4.0, supporting OpenElect 2.X versions of the OCS/OVCS.

Products Affected: OpenElect Voting System (OVS) OCS/OVCS Components

Supporting Documentation:

EOS 5.0_Dell 5520 ECO.pdf (*Unisyn ECO*)

04-00617_EOS_Linux_Installation_Guide.pdf (*Unisyn Technical Document*)

PC Hardware De Minimus Test Cases_QA_TC_5520.xlsx (*Unisyn Functional Verification Test Results*)

CentOS_7.9_SCAP Verification.xlsx (*Unisyn SCAP Review Checklist*)

Engineering Recommendation:

Documentation review performed for recommendation. After review, Pro V&V determined the following tasks would need to be performed to verify the alternate laptop does not adversely affect system reliability, functionality, capability, or operation:

TDP Review, FCA, Electrical Supply, Accuracy, System Integration, and Security Review (SCAP).

Pro V&V recommends the testing required to make a final determination be completed under the ECO program and not as a system modification. Upon successful completion of all recommended testing, Pro V&V will submit a revised analysis and test result reports to the EAC for consideration.

Engineering Analysis: Testing Required

Reviewer:

Wendy Owens

Printed Name

Wendy Owens
Signature

09/07/2021

Date

Approver:

Michael L. Walker

Printed Name

Michael L. Walker
Signature

09/07/2021

Date