**P1622.5**

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Type of Project: New IEEE Standard  
PAR Request Date: 12-Feb-2014  
PAR Approval Date: 27-Mar-2014  
PAR Expiration Date: 31-Dec-2018  
Status: PAR for a New IEEE Standard

1.1 Project Number: P1622.5  
1.2 Type of Document: Standard  
1.3 Life Cycle: Full Use

2.1 Title: Standard for Election Systems Usability and Accessibility

3.1 Working Group: Election System Usability-Accessibility (C/VSSC/1622/SUA_WG)  
Contact Information for Working Group Chair  
Name: Linda Harley  
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Contact Information for Working Group Vice-Chair  
None

3.2 Sponsoring Society and Committee: IEEE Computer Society/Voting Systems Standards Committee (C/VSSC)  
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4.1 Type of Ballot: Individual  
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 06/2017  
4.3 Projected Completion Date for Submittal to RevCom: 02/2018

5.1 Approximate number of people expected to be actively involved in the development of this project: 20  
5.2 Scope: This standard defines the requirements for usability and accessibility for voting systems. Voting systems include election administration systems, election management systems, vote capture devices, and tabulation devices that present voting information to voters, poll workers, election officials, and any other users. This standard specifies the requirements needed to make a voting system functional, acceptable, usable and accessible by all, including those with disabilities, while maintaining appropriate levels of voter security and confidentiality. The standard defines the user experience by leveraging user interface and interaction design best practices, existing accessible and universal design standards, and by examining workflow and user needs through human factors systems engineering.

5.3 Is the completion of this standard dependent upon the completion of another standard: No  
5.4 Purpose: This standard facilitates the evaluation of the voting system user experience and, hence, the usability and accessibility performance of the voting systems without specifying detailed designs of the hardware and user interface. It sets forth requirements for designing usable and accessible systems that are specific for voting systems.

5.5 Need for the Project: Voters and poll workers have a wide range of abilities. There are many situations, human limitations, and disabilities that affect voters' ability to interact with a voting system to cast their ballot privately. These include low literacy, reading difficulties, age related limitations, vision and hearing impairments, mobility, and cognitive limitations and injuries. The Help America Vote Act mandates that voting systems in the US be accessible by all eligible voters, and usable (effective and efficient) to ensure ease of use in casting a ballot. Standards for the next generation technology applied to voting systems have not been developed and existing standards, which may be applicable, are based on older architectures and technology.

5.6 Stakeholders for the Standard: Voters including overseas and military, those with disabilities, poll workers, election equipment
manufacturers and software developers, election officials, election observers, the US Election Assistance Commission (EAC), the Federal Voting Assistance Program (FVAP), and the general public.

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**Intellectual Property**

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No  
6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

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7.1 Are there other standards or projects with a similar scope?: No  
7.2 Joint Development  
   Is it the intent to develop this document jointly with another organization?: No

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8.1 Additional Explanatory Notes (Item Number and Explanation):