

Memorandum

To: Connie Kaplan
CC: Lester Sola
From: Orlando Suarez *Orlando*
Date: 10/10/2003
Re: iVotronic Event Log

*Connie
This is the material
I used earlier this
month to research the
Event Log report.
Orlando
10-17-03*

According to ES&S documentation (ERM Workbook page 58) "the event log is a record of every action taken on each of your Votronic or iVotronic voting terminal during your election." In other words, the event log can be used to audit the activity of each iVotronic used during an election.

Last June, I spent some time reviewing the event log (and the vote image log) of a then recent election and found a number of issues which I subsequently reported to Ana Quevedo from ES&S (see attached). Basically, the issue at that time was that there were "bugs" in the program(s) that generate the even log and the vote image log thus making these reports useless for auditing an election. These "bugs" were causing the reports to show incorrect iVotronic serial numbers (i.e., the information was in the report but the iVotronic serial number was incorrect) so that if an audit was conducted of a particular iVotronic, the serial number of that iVotronic might not be in the report although the serial number of another iVotronic (one that was not used in the election) would be in the report. The information pertaining to the iVotronic was in the report thus if an audit was conducted to validate the number of ballots cast, it would be accurate.

In my report to ES&S I asked for a fix to the program(s) as quickly as possible given that we have frequent elections and their audit trail reports need to be accurate. Ana Quevedo responded that ES&S was aware of these "bugs" and that they would be fixed in the next release of the Unity software.

As you know, the next release of Unity (Unity 2.4) has yet to be released and it probably will not be in place before the March 2004 elections.

This week I again took time to review the event log of the October 7th election and this time I found what I consider a more serious issue. This time the report was missing activity information from 5 iVotronics. The audit data had been properly collected from all iVotronics and the files from each iVotronic's flash card were properly uploaded to the Unity server. However, the event log report failed to show the activity of 5 iVotronics that accounted for 162 ballots cast. If an audit was to be conducted using the event log reports, this discrepancy would be cause for investigation and research - a lot of questions would be raised.

This time, rather than submitting my concern directly to ES&S, I am bringing them to your attention so that you can personally address them. I am available at your convenience to discuss this with you and to show you the details of my research.