TotalVote
ELECTION SOFTWARE

Microsoft Silver Partner

50 statewide implementations in 12 States

System Security and Reliability

The TotalVote system is a proven market leader in Election Night Reporting, built on state-of-the-art technology and focused on providing a wealth of information to your voters and the public. Our web-based system has been successfully deployed by over 800 jurisdictions of all sizes around the country since 2008, including over 50 statewide implementations in 12 states.

BPro's software and staff are unlike any other you will find – we work hard to make sure our software works for your needs. As Election Day approaches, a large part of this work is making preparations to ensure BPro's Election Night Reporting technology is Reliable and Secure.

BPRO

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Below is a brief outline of our preparation :

RELIABILITY
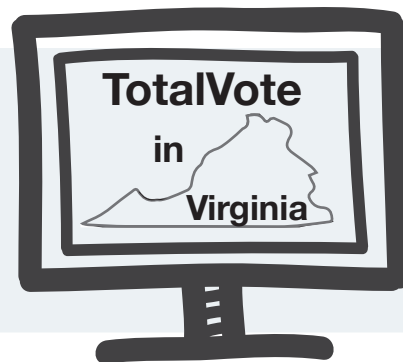
1. Performance Testing

Test → Find issues → High Performance

In order to ensure your website can handle anticipated traffic, BPro performance tests every Election Night Reporting system before Election Day to expose any problems in the application or hosting configuration of the system. This includes load testing, which allows us to identify bottlenecks and make adjustments to achieve the highest performance possible.

All this is a fancy way of saying the TotalVote system won't crash on Election Night, no matter how many voters access your site.

Virginia 2013 –

TotalVote in Virginia

- 40,000 users
- 3.7 million page views
- 530,000 user sessions

As an example, BPro's Election Night Reporting system was used in Virginia's 2013 General Election, which received national attention. At its peak, there were just under 40,000 concurrent users on the site. Overall, there were over 3.7 million pageviews and over 530,000 user sessions with a third of those occurring in a single hour (between 9 and 10 pm on Election Night).

SECURITY

2. Vulnerability Testing

BPro's Election Night Reporting solution has passed various security and penetration tests and tests are run by a separate third party before every major election. All discovered issues are promptly addressed and corrected. Since new threats and methods continually surface, we schedule regular tests before each major election to make sure system security is safe and up-to-date.

Microsoft *Silver* Partner

As a Microsoft Silver Partner with Cloud Competency, BPro has run TotalVote in the Microsoft Azure Cloud since early 2012. Hosting in the Azure Cloud allows us to scale and configure the environment based on need and when the usage spikes on Election Night, we can allocate more resources in a matter of minutes. Should there be an unexpected spike, we can configure the Azure environment to automatically add resources and then remove them again when traffic subsides.