ONLINE VOTING TECHNOLOGY
YOUR TRUSTED PARTNER FOR ELECTION MODERNIZATION

Internationally recognized for its expertise, Scytl has managed over 100,000 electoral events electronically, trained over 100,000 poll workers online and managed elections in over 35 countries.

- **Worldwide leader in online voting** - With over 90% market share worldwide in online voting, Scytl is also the trusted advisor of reference for international institutions and governmental agencies looking into online voting best practices.

- **Strong scientific background** - Founded in 2001 as a spin-off from a university research group, Scytl has the largest patent portfolio of the industry with more than 40 international patents.

- **Trusted expert** - Scytl’s solutions have been audited by independent organizations worldwide and by academic experts in the field of election administration, who have consistently found its security and technology to be accurate, reliable and secure.
Types of Online Voting

Scytl offers groundbreaking and highly secure Internet voting solutions for both on-site and remote voting.

On-site Online Voting
Innovative poll-site eVoting solution that turns standard or touch screen computers into a secure, accessible and reliable voting terminal.

Remote Online Voting
Enabling the casting of votes through any device (PC, mobile phone, PDA, etc.) with an Internet connection.

Online Voting Scenarios

Scytl Online Voting enables voters to securely and easily cast their vote from any location and on any device with a stable Internet connection. Internet voting enfranchises all voters, including remotely located voters, while ensuring privacy and results integrity and reducing the costs involved with conducting an election.
The foundation of Scytl’s authentication process is the use of digital certificates that guarantee the privacy and the integrity of votes by encrypting them.

In the case where digital certificates are not widely available, the solution also supports the use of alternative authentication methods, such as password based credentials, that are used to download “ad-hoc” digital certificates for protecting and casting votes (key roaming system).

Scytl’s Online Voting solution has been designed with flexibility in mind, allowing it to support any type of authentication. It facilitates the use of any pre-existing authentication mechanism or the adoption of a specific voting authentication method.

On-site
Authentication with:
• Standard or Electronic ID
• Biometrics
Voter list management
• Paper-based poll books
• Electronic poll books

Remotely
Authentication with:
• Electronic ID
• Digital certificates
• Voting credentials
• Webcrossing

Single voting interface for remote and on-site voters:
• Voter privacy is ensured through ballot encryption.
• Voter eligibility is ensured through the digital signature of election data.
• Results integrity is guaranteed thanks to the traceability of voting operations.

Process:
When the voter has made his selections and is ready to cast his vote, the selected voting options are shown for confirmation.

When these are confirmed by the voter, the vote is encrypted and digitally signed with the voter’s credentials. The central system verifies if the vote is valid and stores it in the digital ballot box. A confirmation message is sent back to the voter.

Adapted to the blind and visually impaired:
Scytl takes into account the specific needs of the blind and the visually impaired, enabling them to participate in elections without assistance, guaranteeing their privacy.

Before the election period, Scytl’s Online Voting solution can be tested and validated by visually-impaired volunteers.

Scytl can provide Electoral Authorities with:
• Several zoom and contrasting options on kiosk screens.
• Audio on kiosks and telephones.
Scytl’s Online Voting solution allows electoral authorities to electronically receive the results from all the polling places and consolidate them from different voting channels such as poll-site voting, Internet voting and postal voting.

Results can be transmitted immediately through the Internet to the national servers or can be deferred if polling stations are not equipped with internet connections. In this case, after the closing of the polls, ballots can be transferred physically to the central consolidation servers or can be transmitted securely via telephone network.

Decryption of the ballots – “Mixing” process

After the election is closed, all the electronic votes are consolidated and transferred securely to Scytl’s “Mixing” service, located in the Electoral Commission’s main offices.

A quorum of Central Electoral Board members will be required to regenerate the election cryptographic key necessary to decrypt the votes. This approach ensures the election cryptographic key is not available during the voting period and nobody can rebuild it and decrypt the votes without the Central Electoral Board consent.

The “Mixing” process decrypts the votes and breaks the correlation between the encrypted votes and the identity of the voters, making it impossible to associate the votes with the person who cast them, thus protecting voters’ privacy.

In addition to the traditional reports for the media, the results can also be published on an interactive online portal with graphics and drill-down capabilities, showing the results by polling-places, districts, municipalities, regions, etc.
Online Voting Checklist
Solutions need to be designed in a way that ensures the highest levels of transparency in election processes.

Online voting solutions should be specifically designed to be accessible to both the computer-illiterate and disabled voters as well as cater to any multi-lingual requirements.

Solutions need to provide end-to-end security, preventing both internal and external attacks, guaranteeing voters’ privacy and allowing their audit by authorized third-parties.

Full auditability and strong audit references: auditable for their security, accuracy and reliability by independent international experts and proficient academics before, during and after Election Day.

Online voting technology needs to ensure the optimization of the delivery of public services, enhancing governments’ efficiency in carrying-out electoral processes.

It is essential to give consideration to the breadth of an online voting solution offering, whether there has been an investment in certifications/audits/patent research, if there is a focus on accessibility and in particular, an emphasis on security.
Scytl Online Voting Success Evolution

Scytl continues pioneering technology and techniques that ensure ballots are free from tampering from the time they leave your office to the time they are tallied. These technologies such as voting receipts, digital signatures, and data encryption have been certified by twelve countries and successfully used in numerous elections across the globe.

2005
- Switzerland Neuchâtel
  2005 permanent online voting platform
- Argentina Mendoza
  2005 online voting platform to be used by the medical board of Mendoza

2006
- Australia Victoria Electoral Commission
  2006, 2010 voting solution for handicapped and illiterate voters for state-level Elections

2007
- Philippines COMELEC
  2007 online voting for Filipino citizens living abroad
- UK Ministry of Justice
  2007 eVoting solution in multi-channel scenarios for the municipality elections

2008
- USA State of Florida
  2008, 2010 online voting allowing UOCAVA voters located in Japan, Germany and the UK participate in the elections

2009
- Austria, Ministry of Science and Research
  2009 binding online voting elections for universities
- France Ministry of Foreign Affairs
  2009 to 2013 online voting for French citizens living overseas

2010
- Canada Halifax
  2010 absentee voters solution for voters living overseas
- Peru OEA
  2010 to 2011 audit of in-person eVoting solution developed by the ONPE
- India State of Gujarat
  2010 to 2015 online voting over 5 years by +50 million voters
- Norway KRD
  2010 to 2015 online voting for all public Norwegian elections and referendums
- Spain City of Barcelona
  2010 online citizen consultations voting remotely or from one of the 110 polling centers

2011
- UAE EIDA
  2011 to 2015 eVoting for the National Electoral Commission of the UAE

2012
- Canada Saskatchewan NDP
  2013 telephone and online voting for Party Leadership elections
- Romania TNL Primaries
  2013 online voting for Party Primaries

2013
- Scotland
  2013 online voting for local elections
- Iceland
  2014 – Scytl launches eConsultations aimed at streamlining the path to online voting in the country

2014
- France Ministry of Education
  2010 to 2013 online voting for over 1 million voters for Union representatives

2015
- Argentina Mendoza
  2005 online voting platform to be used by the medical board of Mendoza
- Switzerland Neuchâtel
  2005 permanent online voting platform
- Argentina Mendoza
  2005 online voting platform to be used by the medical board of Mendoza

2016
- Australia Victoria Electoral Commission
  2006, 2010 voting solution for handicapped and illiterate voters for state-level Elections
- USA State of Florida
  2008, 2010 online voting allowing UOCAVA voters located in Japan, Germany and the UK participate in the elections
Scytl Online Voting

USA State of West Virginia
- 2010 absentee voters solution for voters living overseas

USA Department of Defense
- 2010 absentee voters solution compliant with the MOVE Act

France Ministry of Education
- 2010 to 2013 online voting for over 1 million voters for Union representatives

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- 2010 to 2011 audit of in-person eVoting solution developed by the ONPE

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Canada Halifax
- 2012 online and telephone voting for 2012 municipality elections

Canada Edmonton
- 2012 online voting for Edmonton’s Election & Census Office

Canada NDP
- 2012 Federal NDP Leadership Convention, remote and on-site online voting

Mexico Federal District
- 2012 - online voting platform for citizens residing abroad during the governor elections

Canada Saskatchewan NDP
- 2013 telephone and online voting for Party Leadership elections

Romania TNL Primaries
- 2013 online voting for Party Primaries

New Zealand Auckland Council
- 2013 kids online voting for the 2013 Elections

Iceland
- 2014 – Scytl launches eConsultations aimed at streamlining the path to online voting in the country

2010 2011 2012 2013 2014

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Scytl Online Voting Leadership and Customer Success

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To better cater to our customers’ needs and enable a closer interaction and understanding of their specific electoral processes, Scytl provides the most extensive subsidiary network in the industry as well as the highest number of employees.
About Scytl

Scytl is the global leader in secure election management and electronic voting solutions. Specializing in election modernization technologies, Scytl offers the first end-to-end election management and voting platform, providing the highest security and transparency standards currently available. Scytl has capitalized on its more than 18 years of research to develop election-specific cryptographic security technology protected by more than 40 international patents and patent applications, positioning Scytl as the company with the largest patent portfolio of the industry. Scytl’s solutions have been successfully used in more than 35 countries over the last 10 years, including Canada, the United States, Mexico, Ecuador, Honduras, Costa Rica, France, Norway, Switzerland, Bosnia-Herzegovina, Iceland the UAE, India and Australia.

Scytl is headquartered in Barcelona, Spain with strategic offices in Canada, the United States, Peru and Greece as well as field offices in the UK, Ukraine, Malaysia, Brazil South Korea and Australia.

www.scytl.com