



# Dutch Electoral Council

**5th Review Meeting of Recommendation CM  
Rec(2004)11 on legal, operation and technical  
standards for e-voting to be held in  
Lochau/Bregenz, Austria, on the  
28th of October 2014**

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# History of e-voting in the Netherlands (1)

- Around 2006 almost 99% of the Dutch local communities used electronic voting machines
- Internet voting for Dutch voters living abroad
- Plans for introducing internet voting for Dutch voters living within the Netherlands

## History of e-voting in the Netherlands (2)

- 2006: Action group “We don’t trust voting computers”
- 2007: Commission proposed to introduce voteprinter and votescanner
- 2008: Cabinets decision: NO
- 2009: first (EP)elections with pen and paper;
- 2013: New proposals to introduce voteprinter and votescanner (report “Every vote counts”)

# Principles of the electoral pocess

- Equal suffrage
- Accessibility
- Transparency
- Verifiability
- Free suffrage
- Secret suffrage
- Fairness
- Independency

# Four voting methods

- Model 1: Voting and counting using a voting computer with a verified paper record;**
- Model 2: Voting using a voting printer with electronic counting;**
- Model 3: Voting using a ballot paper with electronic counting;**
- Model 4: Voting using current ballot papers with manual counting;**

# Paper process the guiding principle

Stemprinter met scanner

2



Kiezer print  
stembiljet



Scanner telt  
stembiljetten  
en print  
het resultaat

# Electronic **voting** and counting

- More voters can vote in person
- More reliable (feedback 2x)



# Electronic voting & counting

- Better and faster results





# Requirements (1)

- **Common criteria certification by independent body of printer and scanner on the protection levels EAL 6 (printer) and EAL 5 (scanner)**
- **No standard components and standard products**
- **Protection Profiles**
- **Use of open software and publishing of source code**



## Requirements (2)

- **Measures against the tempest problem: restrict the possibility of “reading” radiation within 8 meters (NATO-standard SDIP-27/1 level A.3)**
- **One central administrative body responsible for procurement, testing, maintenance and distribution of the equipment**
- **Constant new risk analysis and testing**
- **Standard recounts of paper ballots**

# Present situation (1)

Different lines of approach by the Ministry of the Interior:

- Technical University of Delft (industrial design) -> improving accessibility
- University of Leiden -> developing a method of checking the electronic counting outcome
- Fox-IT: demands non-recording of votes by printer
- TÜViT -> Protection Profiles
- Berenschot -> organizational consequences
- ?? -> Activating of printers

## Present situation (2)

- New questions for Commission (protection level, costs and number of printers)
- The Ministry is going to experiment with a new type of ballot (smaller, with logo's of parties; split choice)
- The Ministry also has (unclear) thoughts about internet voting



# Problems

- **Introducing of central government responsibilities in Dutch highly decentralized electoral system**
- **Costs**
- **Solving tempest problem is complex**
  - **NATO norm is classified**
  - **Testing of printers and scanners**

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