Verifiable Voting Schemes Workshop, from Theory to Practice

Luxembourg 21-22 March 2013.

SnT Auditorium, 4 rue Alphonse Weicker, Luxembourg.

Recently there have been a number of initiatives around the world implementing and deploying verifiable voting schemes for real elections: Scantegrity II in Takoma Park, Helios at UCL, the Norwegian and Estonian systems, the DemTech project in Denmark, Wombat at the ISC Hurzliya, Prêt à Voter in Victoria State Australia, StarVote in Travis County, etc. This invitation-only workshop has as its primary focus to bring together people active in these initiatives. We see this as an opportunity to exchanges ideas, experiences, lessons learnt etc.

Sponsors: FNR Luxembourg

Steering Committee

P Y A Ryan (Chair), S A Schneider, J Heather, M D Ryan, V Teague, R Haenni.

Local organization

R Joaquim

Schedule (draft):

Thursday 21 March

9.00: P Y A Ryan: welcome and intro.

9.10 Practice, session I

Keynote: Dan Wallach (Rice, USA): "STAR-Vote: A Secure, Transparent, Auditable, and Reliable Voting System".

10.10 Steve Schneider (Surrey, UK): "vVote: implementing Prêt a Voter for the State of Victoria".

10.40 Coffee Break

11.00 Theory, session I

Mark Ryan (Birmingham, UK): "Caveat Coercitor: coercion-evidence in electronic voting"

Rolf Haenni (BHS, Switzerland): "Internet Voting with Trusted Hardware"

Rui Joaquim (University of Luxembourg): the EVIV protocol

12.30 Lunch
14.00  Theory to Practice

Olivier Pereira (UCL, Belgium) : "Helios voting: theory and practice"

Richard Buckland (UNSW, Australia): "Best Practice Guidelines for E-voting Systems"

Kristian Gjøsteen (NUST): "Is end-to-end verifiable remote voting possible in Norway?"

15.30  Break

16.00  Practice

Christian Bull (The Norwegian Ministry of Local Government and Regional Development): "Improvements in the Norwegian Internet Voting System for 2013 (and beyond?)"

Carsten Schürmann (DTU Denmark): The DemTech project

Philip B. Stark (Berkeley, USA): "Election Integrity: Resilience, Brittleness, Audits, and E2E"

Vanessa Teague (Melbourne, Australia): Verifiable Postal Voting

17.00  Rump session

18.00  Close

Banquet

Friday 22 March

9.00

Keynote 2: TBC

Poorvi Vora (GMU, USA): A Protocol Model for E2E Elections

Veronique Cortier (CNRS, France): A variant of Helios to ensure full correctness against a dishonest ballot box: security proof and implementation

10.30  Break

11.00

Ralf Kuesters (Trier, Germany): Defining Security Requirements for E-Voting Systems

Douglas Wikström (KTH Sweden): "Mix-net with randomized partial checking"
Helger Lipmaa (Tartu, Estonia): A More Efficient Computationally Sound Non-Interactive Zero-Knowledge Shuffle Argument

12.30 Lunch

14.00 Wrap-up

15.30 Close