A Secure e-Government's e-Voting System

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Abstract—this paper proposed a reliable cost effective secure electronic voting system that can be used in cost effectively way in many development countries like Egypt. The important obstacle in any e-voting system across the world is the security issue. Election's results may be modified when delivered to the Higher Elections Committee, unauthorized voter may vote instead of the eligible voter, a vote may not be calculated; also the voter has to ensure that nobody has the possibility to know his ballot data. The proposed Voting Model System overcomes these obstacles. Security evaluation experiments are performed successfully to the proposed system proving that it satisfies privacy, accuracy, reusability, eligibility and integrity.

Keywords—Electronic Voting (E-Voting); Voting Model System (VMS); Higher Elections Committee (HEC); Federal National Council (FNC); Voter; Candidate; Polling Station; Committee; Authentication; Ballot