CHAMBER OF DEPUTIES

IT SERVICES TO MPs

Umberto Biagi
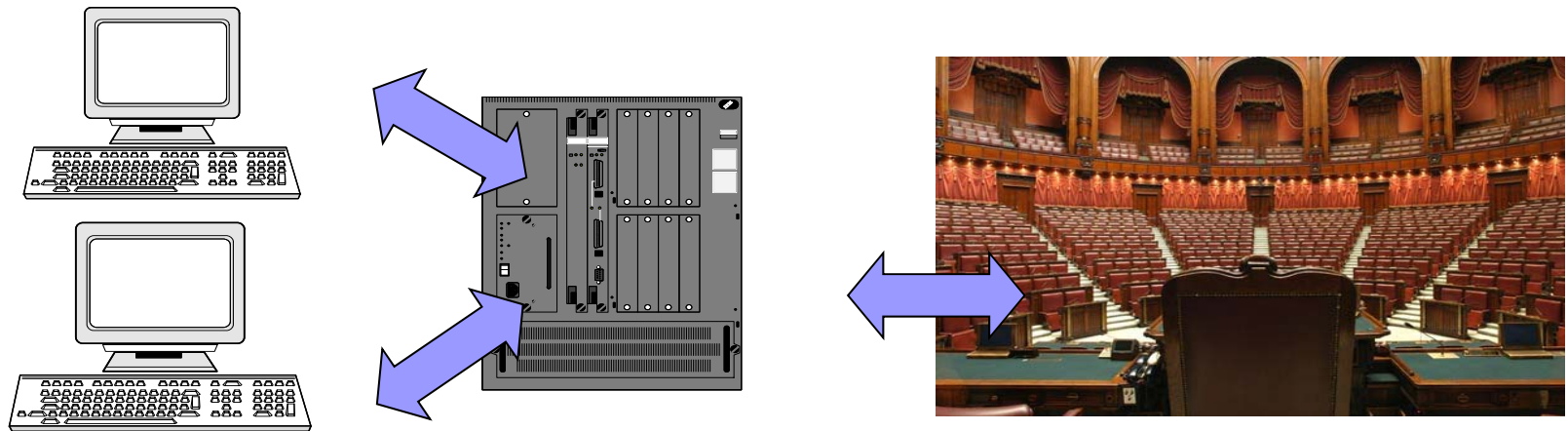
Head of Office - Chamber of Deputies

Contents

- Plenary Hall Electronic Voting System

ELECTRONIC VOTING SYSTEM

The electronic voting system of the Chamber of Deputies is a stand-alone, integrated system, running on a concentrator and servers located in a dedicated control room, next to the Plenary Hall.

THE VOTING TERMINALS

Inside the Chamber Plenary Hall there are 661 voting terminals as follows:

- 620 at the benches of Members of Parliament
- 009 at the benches of Parliamentary Committees
- 011 at the desks of Undersecretaries of State
- 011 at the desks of Ministers
- 010 at the desk of the Speaker of the House.
- All of the 620 voting seats on the Floor are assigned on a fixed personal basis.
- Government, Committees and Speaker's benches are free (not assigned exclusively)

ELECTRONIC VOTING SYSTEM

- **Last year to reinforce the security of the personality of the vote the system was improved**

- **Each voting terminal was upgraded in order to be activated by fingerprint recognition**

THE PERSONAL VOTING CARD

Each MP has a personal smart card, which in addition to several services (payments, etc.), enables the exclusive use of a specific assigned, voting terminal. On the chip are stored templates (Enrollment phase) for fingerprint matching.
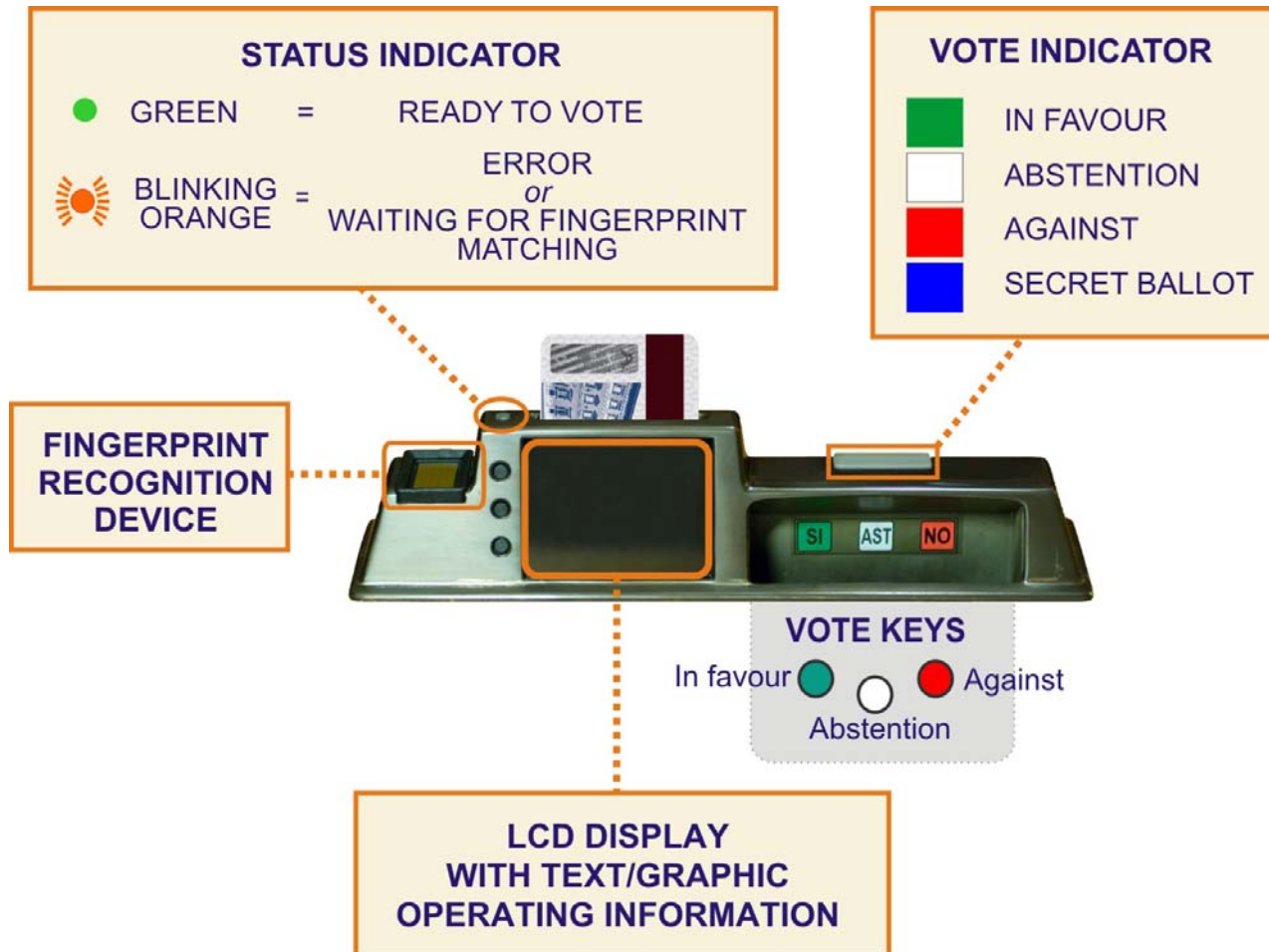
THE VOTING TERMINAL

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THE VOTING TERMINAL

STATUS INDICATOR

- ● GREEN = READY TO VOTE
- ☀ BLINKING ORANGE = ERROR *or* WAITING FOR FINGERPRINT MATCHING

VOTE INDICATOR

- ■ IN FAVOUR (green)
- □ ABSTENTION (white)
- ■ AGAINST (red)
- ■ SECRET BALLOT (blue)

FINGERPRINT RECOGNITION DEVICE

VOTE KEYS

In favour ● ○ ● Against

Abstention

LCD DISPLAY WITH TEXT/GRAPHIC OPERATING INFORMATION

THE VOTING TERMINAL

- **Each seat inside the Chamber has installed a voting terminal.**

- **This terminal is composed of:**
  - 3 buttons: **Yes** / **No** / **Abstention**
  - Smart-card insertion slot
  - Informative light with visible expression of **vote** / **presence** / **abstention** (as required by Chamber rules)
  - Informative LCD display with text/graphic operating information
  - Fingerprint recognition device.

Technical Aspects

- Fingerprint device: "Touch Chip" UPEK TCEBB1C

- Fingerprint algorithm: software Cogent (one the most accurate)

- Very low error rates (FRR, FAR)

- Smartcard: 64 K (Oberture Card System 64 RSA T vers, 5.4)

Technical Aspects

- To solve FR (False Rejection) problems during the vote and allows all MPs to vote we have implemented a system software that disables the fingerprint mechanism on a specific terminal when an MP signals the problem to the Speaker

ELECTRONIC VOTING SYSTEM

In Conclusion:

- All Mps vote

- System in use from march 2009

- No technical problems

- No "Pianists"

OTHER COMPONENTS

- In addition to voting terminals, the system includes other features allowing MPs to follow the voting procedure:
  - Floor layout displays
  - Vote count boards.

- All of the operations are managed by a system management console to the Speaker order

FLOOR LAYOUT DISPLAYS

- Two layout displays schematically reproduce the entire seats area. They are situated at the sides of the Chamber, above back-benches.

- Each voting seat is showed with a colored light indicating actual vote of each MP.

| YES | NO | ABSTENSION | YES/NO | NO VOTE |

THE VOTE COUNT BOARDS

■ Next to the layout displays, the vote count boards show the following :

- Type of vote (roll-call, secret ballot)
- Type of qualified majority, if required
- Vote order number
- Status of voting (open, closed, cancelled)
- Results

RESULTS ON THE BOARDS

Results

THE USE OF VOTING DATA

■ At the end of the sitting, all voting data are extracted to be published in official documents and on the Internet and Intranet web sites.

Atti Parlamentari — Votazioni II — Camera dei Deputati

XV LEGISLATURA — DISCUSSIONI — SEDUTA DEL 6 GIUGNO 2006 — N. 9

ELENCO N. 1 DI 1 - VOTAZIONI DAL N. 1 AL N. 6

DEPUTATI	1	2	3	4	5	6							DEPUTATI	1	2	3	4	5	6					
ACERBO	V	V	V	V	V								BELLOTTI	V	V	V	V	V	V					
ADAMO	V	V	V	V	V	V							BELTRANDI	V	V	V	V	V	V					
ADENTI	V	V	V	V	V	V							BENEDETTI VALENTINI	V	V	V	V	V	V					
ADOLFO	V	V	A	V	V	V							BENVENUTO	V	V	V	V	V	V					
ADORNATO	V	V	V	V	V	V							BENZONI	V	V	V	V	V	V					
AFFRONTI	V	V	V	V	V	V							BERLUSCONI											
AIRAGHI	V	V	V	V	V	V							BERNARDO											
ALBONETTI	M	M	M	M	M	M							BERRUTI	V	V	A	V	V	V					
ALEMANNO	V	V	V	V	V	V							BERSANI	M	M	M	M	M	M					
ALESSANDRI	V	V	V	V	V	V							BERTOLINI	V	V	V	V	V	V					
ALFANO ANGELINO													BEZZI	A	V	V	V	V	V					

Risultato Statistiche

Dati riepilogativi da inizio legislatura (29 Aprile 2008) al mese di *Ottobre 2009* relativi alle 4628 votazioni con procedimento elettronico

(*) I dati registrati dal sistema di voto non evidenziano quando la mancata partecipazione alle votazioni sia dovuta a malattie o altre cause giustificate.

Elenco alfabetico generale

Deputato	Gruppo	Votazioni effettuate dal deputato		Missioni del deputato		Totale presenze (*votazioni + missioni*)		Votazioni alle quali non ha partecipato (*)	
		Numero	Percent.	Numero	Percent.	Numero	Percent.	Numero	Percent.
Abelli Gian Carlo	PDL	3918	84,66%	0	0,00%	3918	84,66%	710	15,34%
Abrignani Ignazio	PDL	3954	85,44%	0	0,00%	3954	85,44%	674	14,56%
Adornato Ferdinando	UDC	2281	49,29%	0	0,00%	2281	49,29%	2347	50,71%
Agostini Luciano	PD	4145	89,56%	0	0,00%	4145	89,56%	483	10,44%
Albonetti Gabriele	PD	1112	24,03%	3230	69,79%	4342	93,82%	286	6,18%
Alessandri Angelo	LNP	1271	27,46%	3058	66,08%	4329	93,54%	299	6,46%
Alfano Angelino	PDL	232	5,01%	4222	91,23%	4454	96,24%	174	3,76%
Alfano Gioacchino	PDL	4552	98,36%	0	0,00%	4552	98,36%	76	1,64%
Allasia Stefano	LNP	4507	97,39%	0	0,00%	4507	97,39%	121	2,61%

Questions

Are there any questions?

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