

**DIEBOLD ELECTION SYSTEMS' RESPONSES**  
**TO THE STATE OF OHIO CLARIFICATION REQUEST**  
**REGARDING A STATEWIDE VOTING SYSTEM**

**1. Provide documentation to support the claim of a 20-year DRE life expectancy.**

**RESPONSE:** Based on usage information, the AccuVote-TS unit should last for 1,000 elections. If a customer had 4 elections per year, then the unit would theoretically continue for 250 years before failing.

AccuVote-TS component life expectancies are as follows:

**On/off Switch:** 50,000 activations

**LCD:** 50,000 hours

**Backlight inverter:** 458,000 hours

**Touch screen:** proven lifetime of greater than 35 million touches in one location without failure, using a stylus similar to a finger

**Smart Card Reader:** contact durability 100,000 insertions; Secure-Tech ST-201F, Operation life: 500,000 insertion cycles

**Printer:** 15,000,000 lines

**Keypad:** Life  $2 \times 10^7$  cycles

**PCMCIA Connector:** 10,000 insertions

The following electromechanical parts from the AccuVote-TS system were used to establish the lowest MTBF component:

Description	Storage Temp. (°C)	Operating Temp. (°C)	Relative Humidity (non-condensing)	Component MTBF	Duty Cycle (Per Election)	MTBF (elections)
On/Off	-40 to +85	-30 to +85	0 to 90%	50,000 Make/Break	20 operations	2,500
PCMCIA Conn	N/a	N/a	N/a	10,000 Insertions	10 insertions	1,000
Smart Card Reader	N/a	-5 to +55	10% to 90%	500,000 Min. Insertions	350 insertions	1,428
TFT LCD	-20 to +60	0 to +50	0 to 90%	50,000 Hours	14 hours	3,571
Backlight Inverter	-20 to 85	0 to +55	5% to 95%	458,000 Hours	14 hours	32,714
Touch Panel	-40 to +71	-10 to +50	0% to 90%	35,000,000 Touches	7000 touches	5,000
Printer	-20 to +60	0 to +45	10% to 90%	6,000,000 Lines	1094 lines	5,484
VIBS Keypad	N/a	0 to +70	0% to 98%	$2 \times 10^7$ Make/Break	N/a	N/a

The MTBF for the AccuVote system is based on the PCMCIA Card Connector, which represents the highest failure rate of all components.

MTBF = 1,000 elections x 14 hrs/election = 14,000 hours

**2. Are you proposing your optical count system be used for precinct count purposes?**

**RESPONSE:** Diebold Election Systems proposed the industry leading AccuVote-OS Precinct Tabulator for use in the precinct should a county, or counties, select the optical scan based system approach.

The AccuVote-OS Tabulator has also been proposed as the central count solution with or without an Auto Feed device attached depending on the size of the respective county and the number of optical scan absentee ballots to be tabulated.

There are over 900 election jurisdictions, including the State of Alaska, which employ the AccuVote-OS Precinct Tabulator in the polling place and as the absentee tabulator.

**3. Provide the number of units built by Diebold versus Global.**

**RESPONSE:** Diebold Election Systems manufactures both the touchscreen and optical units.

Diebold Election Systems built 57,650 touchscreens and 2,805 optical scan systems since the acquisition of Global.

**4. Restate number of languages supported.**

**RESPONSE:** Diebold Election Systems currently provides seven languages on our touch screen early voting devices for Los Angeles County, California. It is anticipated that additional languages will possibly be required.

Diebold Election Systems, by utilizing the Microsoft platform, is capable of supporting the Microsoft language suite.

**5. What is your definition of small, medium and large counties?**

**RESPONSE:**

Type	Explanation
Small	Less than 100 units
Medium	100-299 units
Large	300-999 units
Extra Large	Over 1,000 units