

# Kansas ELVIS System



State Voter Registration  
Workshop II  
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**E**lection

**V**oter

**I**nformation

**S**ystem

# HAVA - The Law

Each state, acting through its chief state election official, shall implement, in a uniform and nondiscriminatory manner, a single, uniform, official, centralized, interactive, computerized, statewide voter registration list defined, maintained and administered at the state level. Public Law 107-252, Title III, Sec. 303(a)

- Background
- Approach
- Challenges
- Application / Interfaces
- Security
- What's next

# Background

## What does HAVA mean for KS?

- Single database hosted and managed at the state level, data maintained by the counties – “Top down”

## 105 counties

- 14 different VR / EM systems in use

## Limited resources

## CIA

# Approach

## Requirements set by county workgroup

- 7 counties; state ELM, IT, legal, consultant
- Voter registration, election management
  - poll worker, polling place, petitions, imaging, barcode voting history update / mailings

## RFP process: Election Systems & Software (ES&S)

- PPEE (ELVIS), Voterview, iPowerProfile
- Alabama, Arizona, Arkansas, Nebraska, New Mexico
- Built for 600 total users, 510 county users
- 5 years maintenance, help desk

## HAVA requirements implemented 12/2005

## Interfaces

- KDOR (DMV), KDOC, KDHE

# Challenges

- Time and resources
  - County workgroup, steering committee, KS PM, vendor management, deliverables based fixed price contract
- Connectivity
  - Availability, maintenance, security – KANWIN, required router and circuit upgrades
- Conversion
  - 105 county data sets, establishing agreed upon standards, mappings, clean-up
- Security
  - Central system, all registration records in one place
- Availability
  - Fully redundant primary site, D/R site
- Training
  - Initial, ongoing releases, refreshers
  - Regional classroom, webex
- Partnerships/communication are key

# ELVIS Registrant Search / Entry

**PowerProfile - ELVIS - TEST (9.1.4.1.543.0) Shawnee**

File Edit View Module Reports Go Administration Window Help

**Registrant Search**

**Main** | Additional Info | Addresses | Advance Early Voter | Election Worker | ☒ Jurisdiction

<<Registrant ID:  ☐ Secure ☐ Advance ☐ Early Voter ☐ Election Worker ☐ In NVRA Process

**Name**  
<<Title:  <<Last:  ☐ Soundex First:  Middle:  <<Suffix:   
☐ Search previous names? ☐ Search alternate names?

**Registrant Data**  
<<SSN:  -  -  DL or ID #:   
<<Date of Birth:  <<Gender:  Email:   
<<Language:  <<Party:   
Phone:  -  -  Work:  -  -  x:

**Federal Data**  
Reg date:  to   
Status:  Reason:   
Source:   
<<How Reg:  ID Required:   
Citizenship Verified

**Resides in**  
<<Precinct:  <<Precinct Part:  <<District:

**Age**  
Between:  And:

**Voted in**  
Election:




**Registrant Search Results**

Jurisdiction	Registrant ID	Secure	First	Middle	Last	Suffix	SSN	DOB	Reg Date	Status	Party
Shawnee	2977195		Adam	Michael	Stewart			11/30/1984	10/16/2004	Inactive	Republican
Shawnee	2980290		Adrienne	Michelle	Stewart			1/6/1987	3/22/2005	Active	Republican
Shawnee	2937883		Aisha	S	Stewart			8/26/1981	10/27/1999	Active	Democrat
Shawnee	2951989		Alyson	Beth	Stewart			4/23/1976	10/15/2004	Active	Republican

Still retrieving registrants... Row 1 of 5

Ready | 11/27/2007 4:08 PM

# External Interfaces

-  All interfaces handled through system application, Agency Central
-  KDHE – death records
  - Manual download and load into AC database, instant check against new/changed registrant records, batch run against VR database
-  KDOC – felon records
  - Automated download and load into AC database, instant check against new/changed registrant records, batch run against VR database



## External Interfaces Cont.,

### KDOR (DMV) – DL/SSN

- Real time web service call on new/changed registrant records w/DL, DMV perform SSA check

### KSOS set-up & monitoring of jobs

### Counties notified via email, reports from batch jobs

### Counties presented with potential matches from interfaces, responsible for further research and decision on match

# ELVIS PKI

- 🔒 Securing statewide application
- 🔒 Vetting of identity
- 🔒 Authentication – two factor
- 🔒 Requirements
  - Leverage state PKI infrastructure - must have KS PKI certificate to “see” ELVIS system
  - Portability for county election office front counter, temporary workers

# ELVIS PKI Implementation

✘ Vetting – contracts between SOS, counties

✘ Verisign USB Token Based system

- Portability
- Certificate private key not exportable from token
- PIN – for two factor authentication
- Uses additional certificate field, must be same as in active directory

✘ Lessons Learned

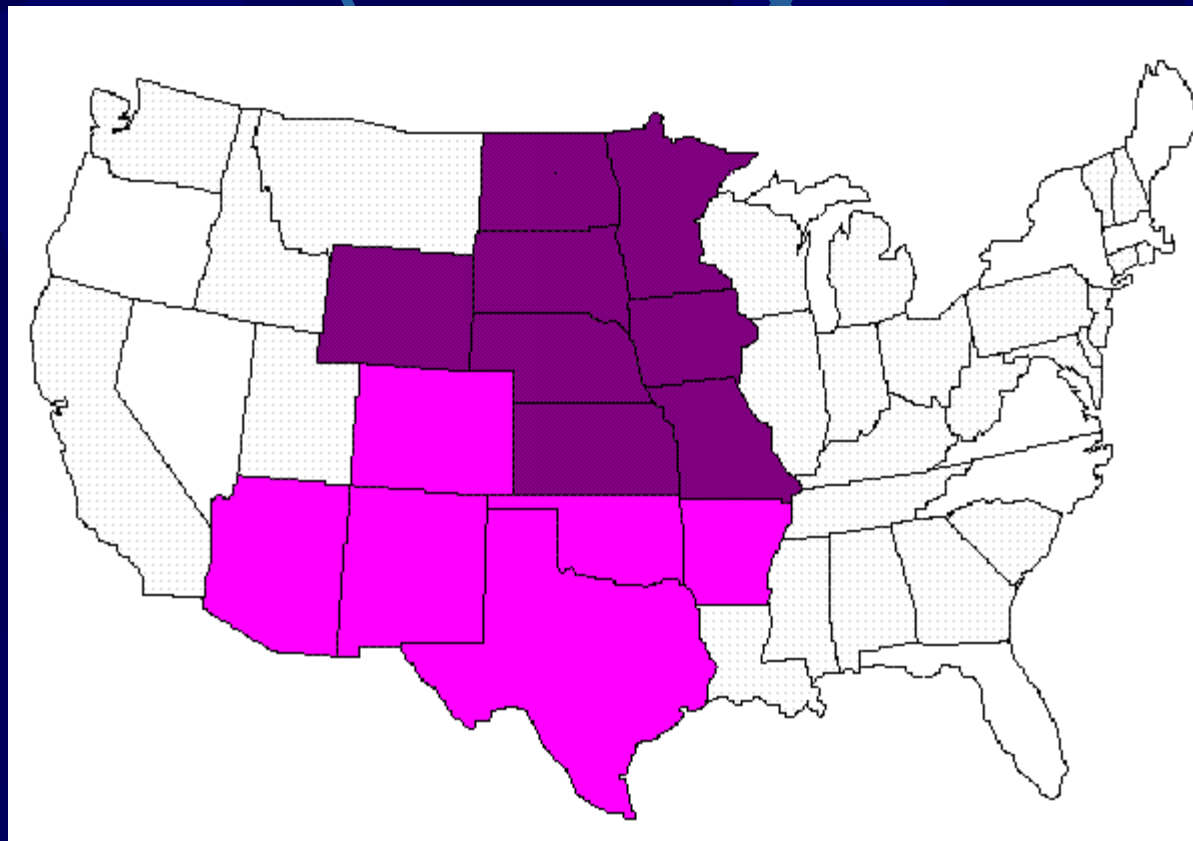
- “Technical” process, must follow instructions EXACTLY
- Software on workstation
- Token lifecycle – forgotten PIN, distribution, temp workers



## What's Next

- Quarterly enhancements, bug fixes
- Candidate management module
- Election night, official results
- Accepting DMV e-registrations
- Cross state check – original MOU Dec 2005  
IA, KS, NE, MO, MN. SD, ND, WY added for  
next year. Working on south central state  
MOU: AR, AZ, KS, OK, TX, NM, CO.

# Cross Check States



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