

DRAFT

# Arkansas All-Payer Claims Database Project

## Technical Workgroup Meeting



All-Payer Claims  
Database

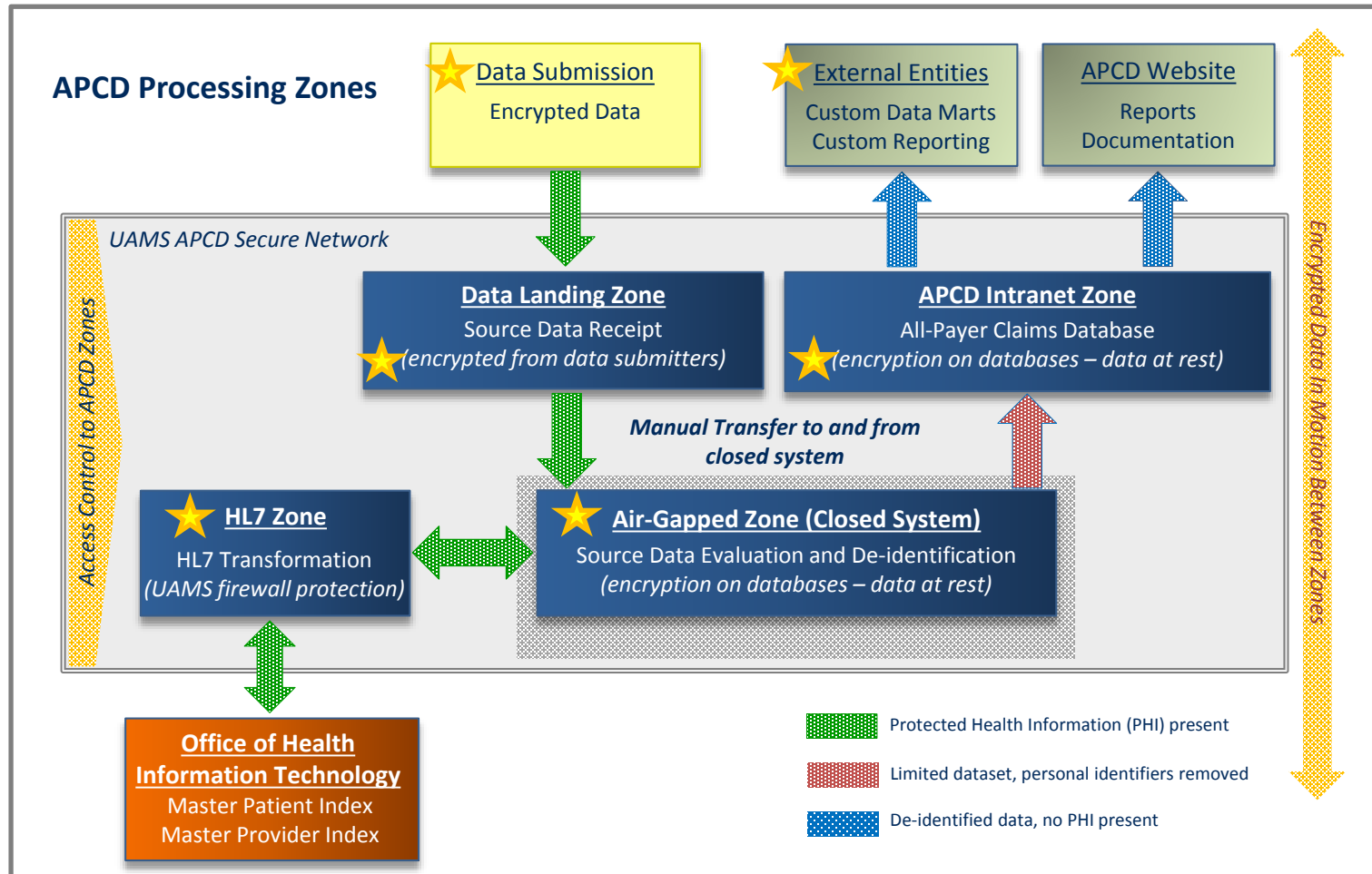
January 16, 2014

ADMINISTERED BY **ACHI**  
ARKANSAS CENTER FOR HEALTH IMPROVEMENT

# Agenda

- **HIPAA and APCDs**
- **APCD Security**
- **SHARE Interface**
- **Cyber Insurance**

# APCD Encryption Touch Points



# APCD De-identification Protocols

Variable/Process	De-identification Action
Names	First, middle, and last names removed from all records
Geographic Identifiers	<ul style="list-style-type: none"> <li>Remove street addresses, and cities from all records.</li> <li>Selected geographic populations under 20,000:               <ul style="list-style-type: none"> <li>Remove counties, precincts, geo-codes</li> <li>Retain only the first 3 digits of the ZIP codes</li> </ul> </li> </ul>
Social Security Number	Social Security Number removed from all records
Date of Birth	Age and birth year retained
Key Identifiers	Unique codes replace medical record numbers, health plan beneficiary numbers, account numbers
Key Dates	Year retained
Misc. Identifiers: Phone/fax numbers, email addresses, certificates/licenses, vehicle identifiers, device identifiers/ serial numbers, URLs, IP addresses, biometric identifiers, full face photographs	All are removed from each record

*Source specific data de-identification is based on data use agreement requirements.*

# APCD Zone Data

## ACHI Closed Network

### Air-Gapped Zone

- PHI Data Storage
- Person identifier Assignment
- SHARE EPID assignment

## UAMS Secure Network

### APCD Intranet Zone

#### Removed:

- Name
- Street Address
- Social Security Number
- Date of Birth
- Misc. Identifiers

#### Keep:

- Key identifiers
- APIDs, EPIDs
- Key dates
- Age/Birth Year (under 89)
- County
- ZIP Codes

## Outside UAMS Secure Network

### External Entities

Replace with unique codes:

- APIDs
- Misc. Identifiers

Reformat:

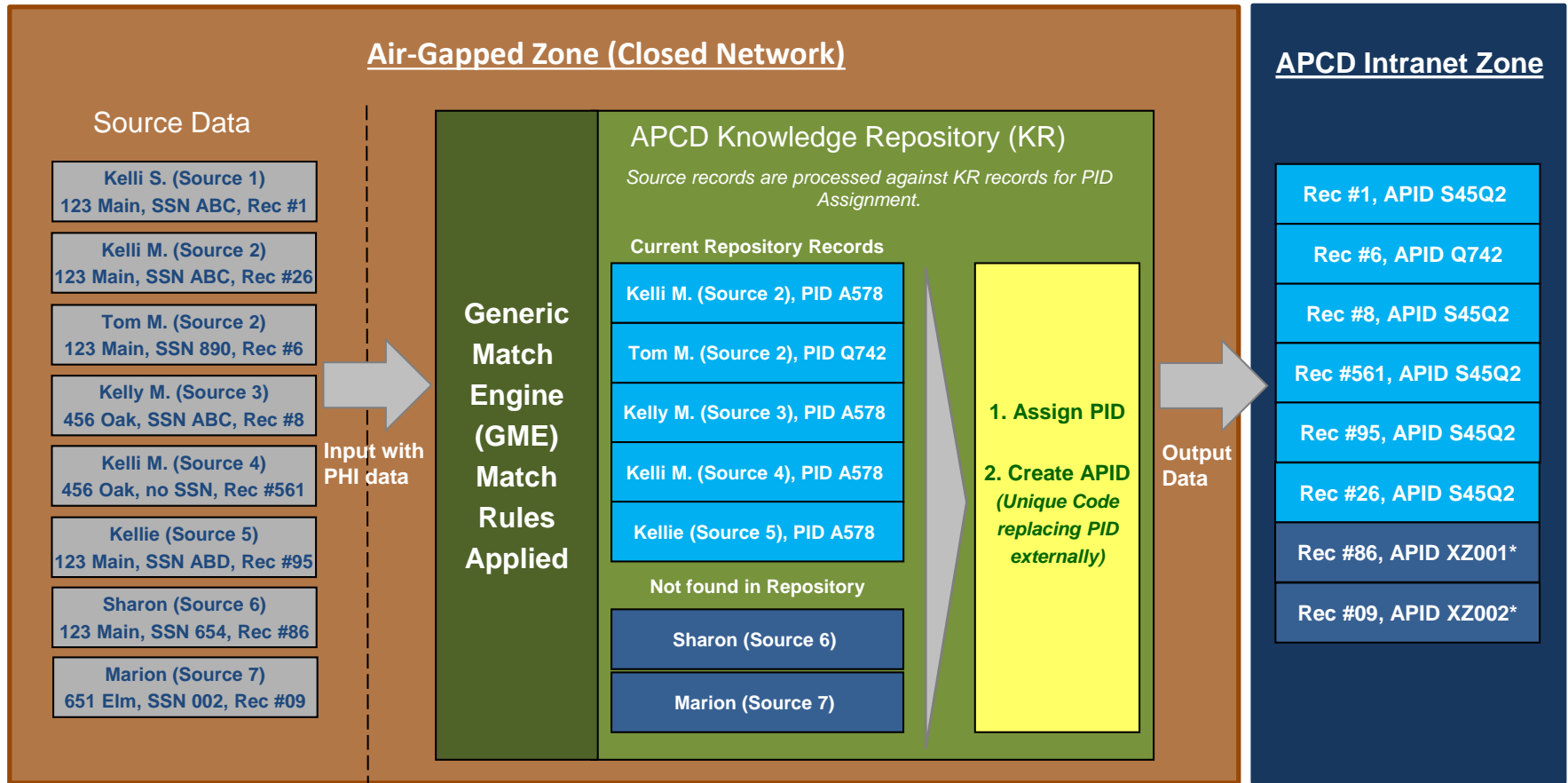
- Key Dates to years only
- ZIP codes to first 3 digits if quantity < 20K

Omit:

- Geo codes
- County

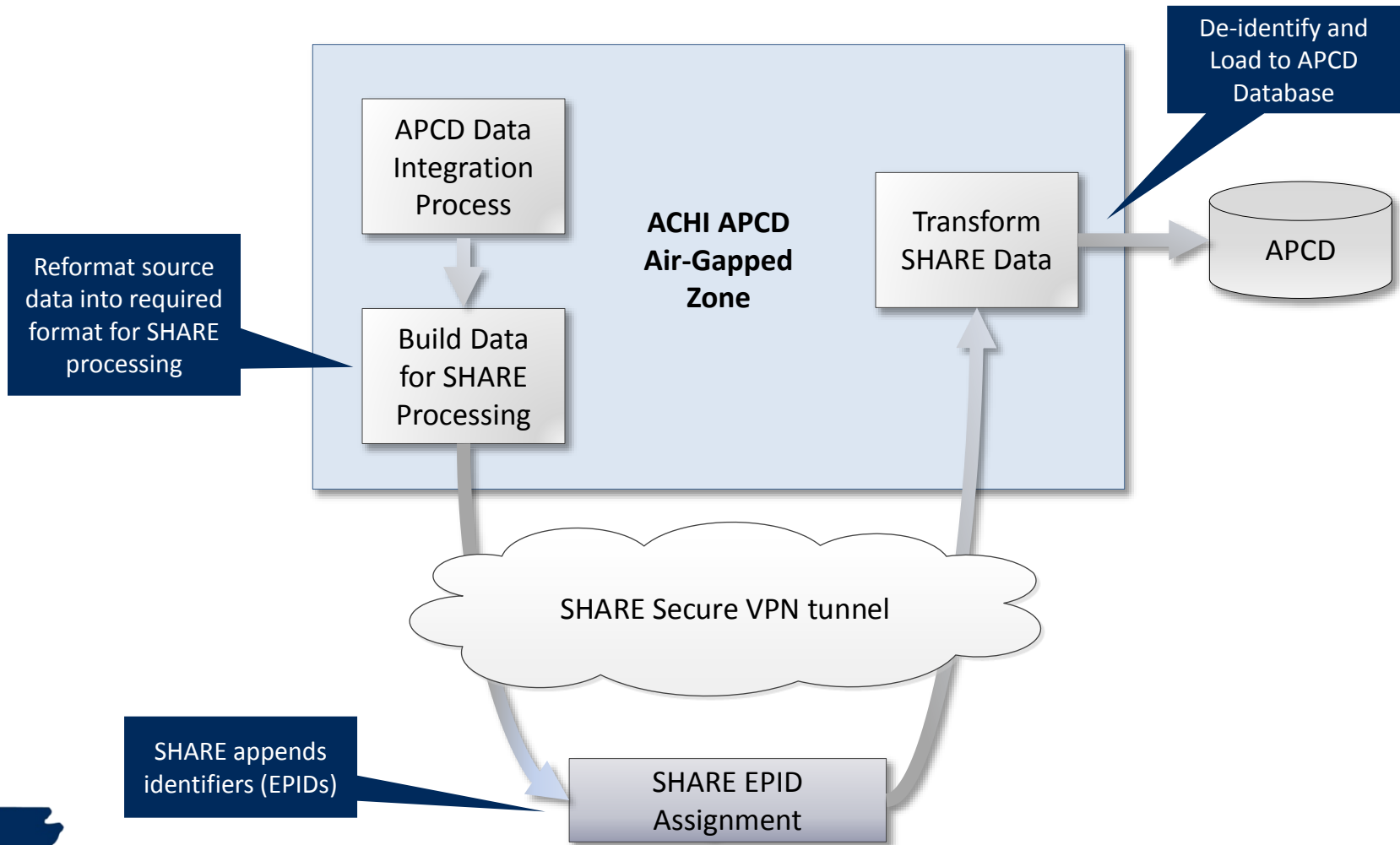
*External extracts are based on source specific data use agreement requirements.*

# APCD Identity Resolution



\* Indicates new record not on current KR. New PIDs are assigned. These records can be added to the KR for future updates.

# SHARE APCD Interface



# Cyber Insurance

Cyber Insurance is used to hedge risk of data breach, data loss, DDOS attack, outages, PHI disclosures, lawsuits, etc.

## Cyber Insurance Coverage

- **Technology Professional Services Liability**
  - Errors and omissions, negligent or unintentional breach of contract
- **Third Party Security & Privacy Liability**
  - Failure to prevent unauthorized access, data theft, disclosure or loss of PHI
- **Privacy Regulatory Actions**
  - Awards from legal actions resulting from privacy or security breach (HIPAA)
- **Privacy Breach Response, Customer Notification**
  - Crisis management and customer notification costs
- **Data Recovery and Business Income loss**
  - Loss of business income due to outage, intrusion, loss of data or privacy disclosure
- **Cyber Extortion**
  - Covers response to a threat to harm, release data and/or ransom payments