SOR/Hot Files 2.0

2019 OpenFox® Training and Implementation Meeting

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What is SOR?

The SOR system assist agencies with monitoring and tracking sex offenders after their release into the community

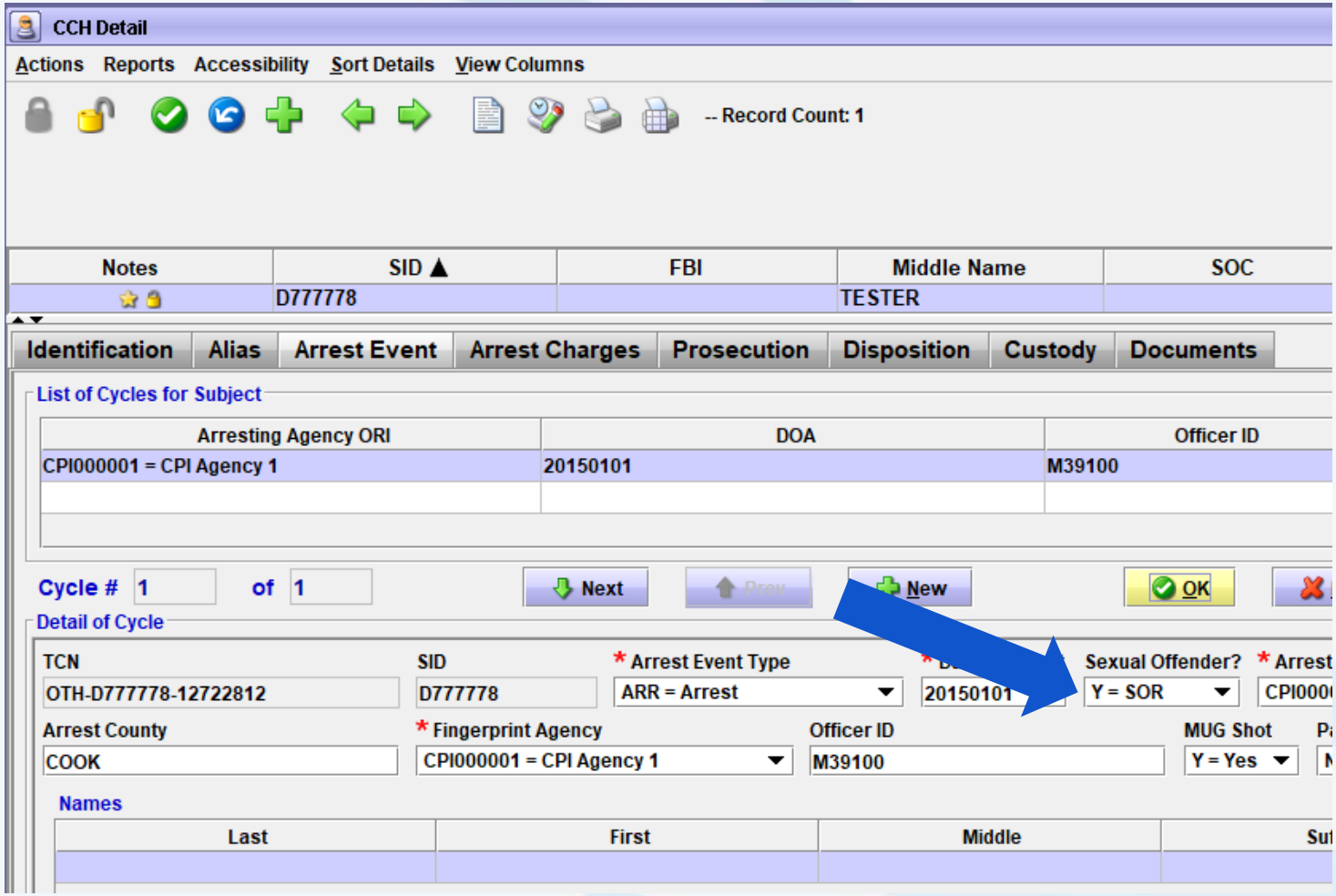
What is SOR?

- Offenders name
- Current location
- Offenses

Evolution of SOR

- Flag on CCH Record
- Oracle Forms
- SOR 1.0
- SOR 2.0

Tracking SOR Records



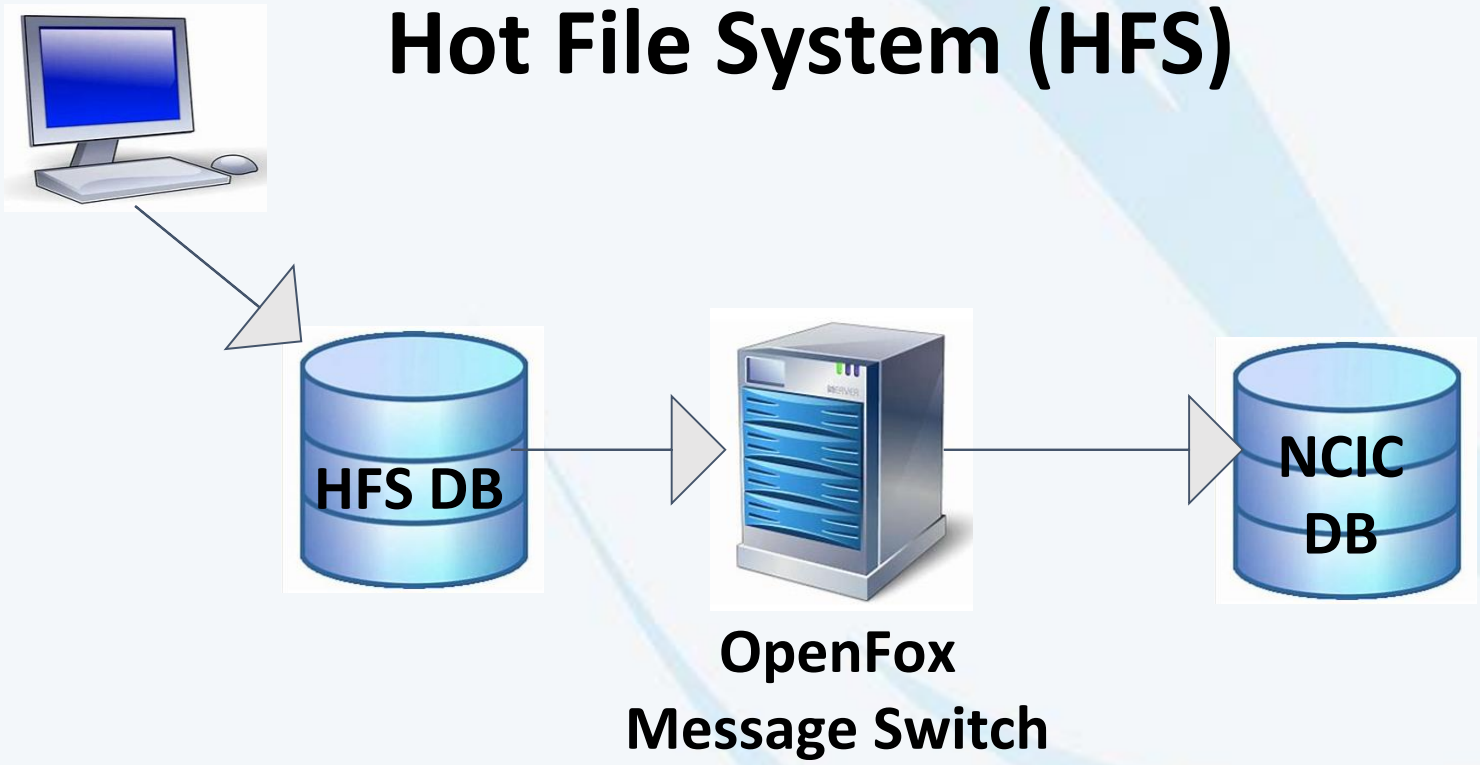
Demands

NCIC Implements The National Sex Offender Registry File

Evolution of SOR

STEP BACK, REASSESS, MOVE FORWARD

Evolution of SOR – HFS



Evolution of SOR – HFS Sync

Enter Sex Offender Record

- Enter Base (EXS)
- Enter Supplemental (EXSN)

Modify Base Record

- Modify Base (MXS)

Modify Supplemental

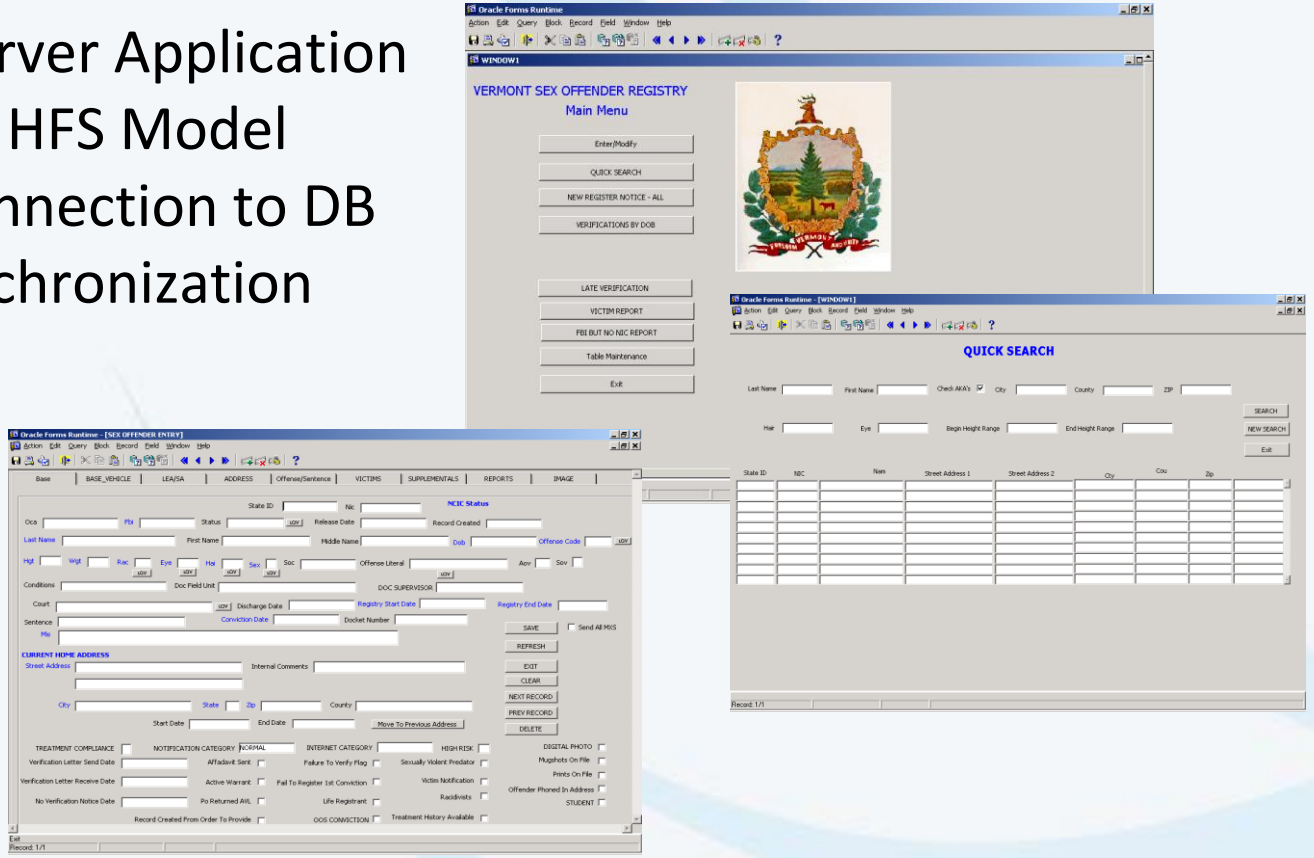
- Cancel Supplemental (XXSN)
- Re-enter Supplemental (EXSN)

Evolution of SOR – Demands

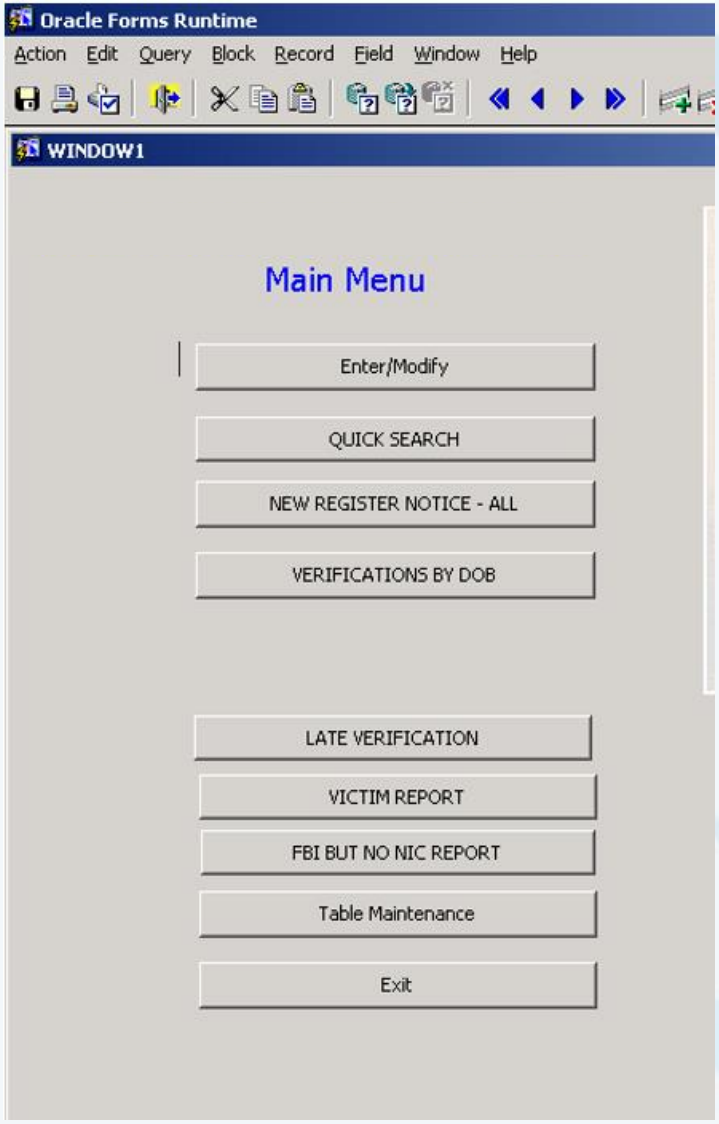
- Employment
- Vehicles
- Warrants
- Historical data

Oracle Forms

- Originated in 2003
- Client/Server Application
- Leverage HFS Model
- Direct connection to DB
- NCIC Synchronization



Oracle Forms - Functionality



- Search Functionality
- Record Maintenance
- Active & Historical Data
- Address Verification
- Reports & Letters
- Table Maintenance
- NCIC Sync

Evolution of SOR

OpenFox SOR 1.0

- Released in 2008
- Fully integrated into the Desktop Environment
- Takes full advantage of all features available to Desktop modules

SOR 1.0 - Desktop Features

Foxtalk Communication Protocol

Central Site Application

Browser Based

Automated Update Delivery

Integrated User Authentication/Authorization

RMS Library

SOR 1.0 - Desktop Features

- Foxtalk Communication Protocol
- **Central Site Application**
- Browser Based
- Automated Update Delivery
- Integrated User Authentication/Authorization
- RMS Library

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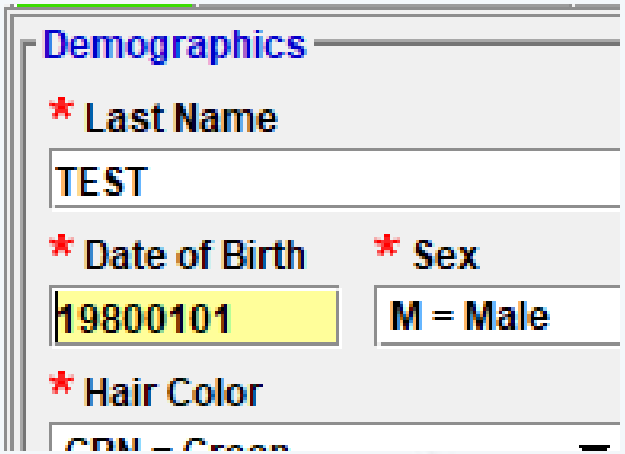
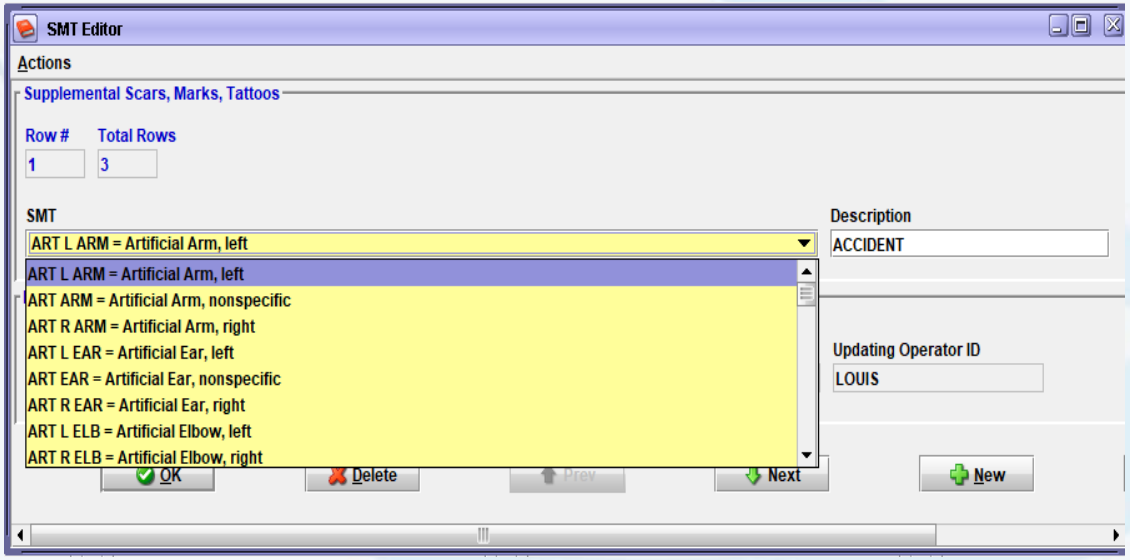
SOR 1.0 - Desktop Features



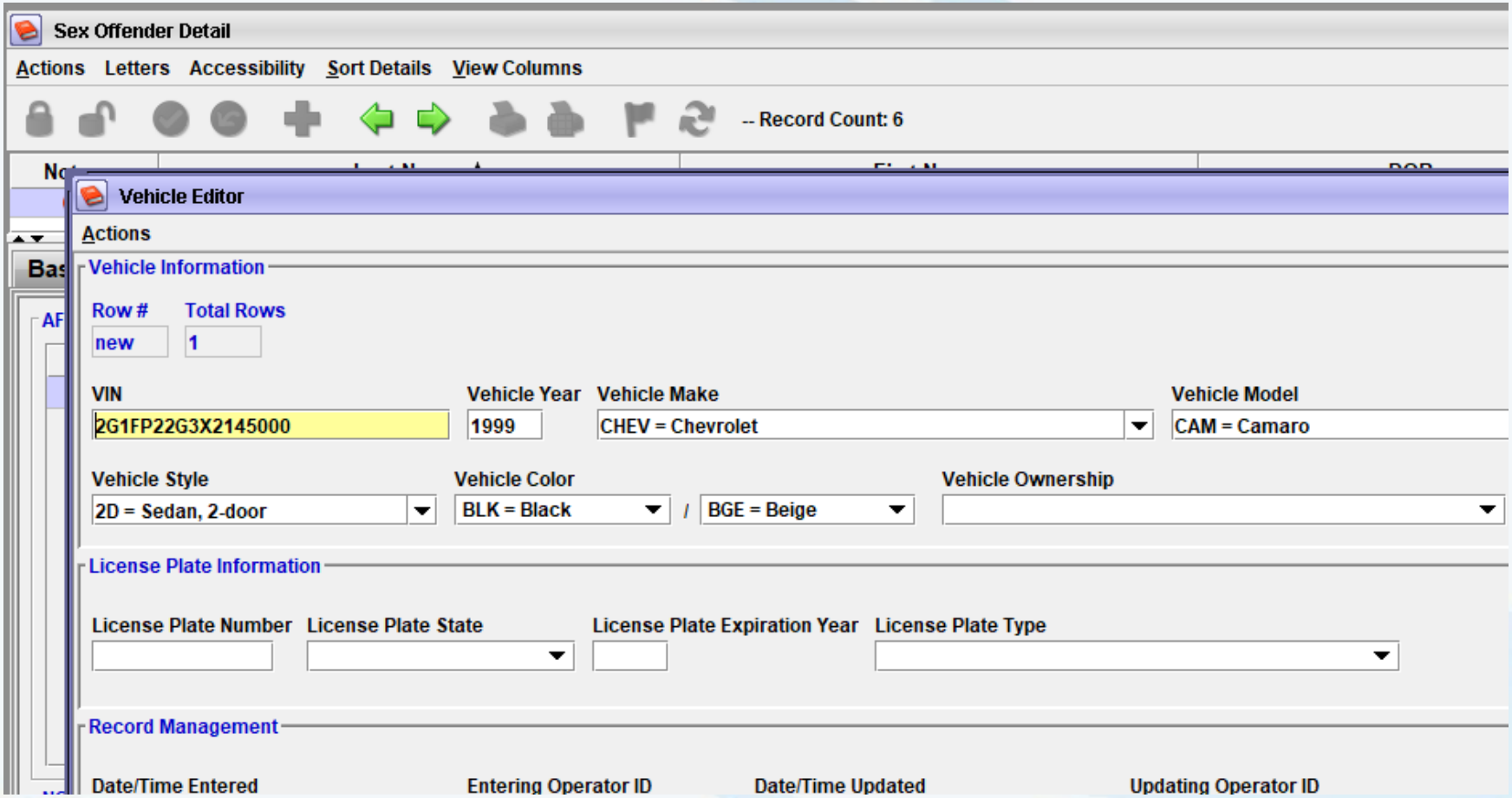
Focus Indicator

Code List



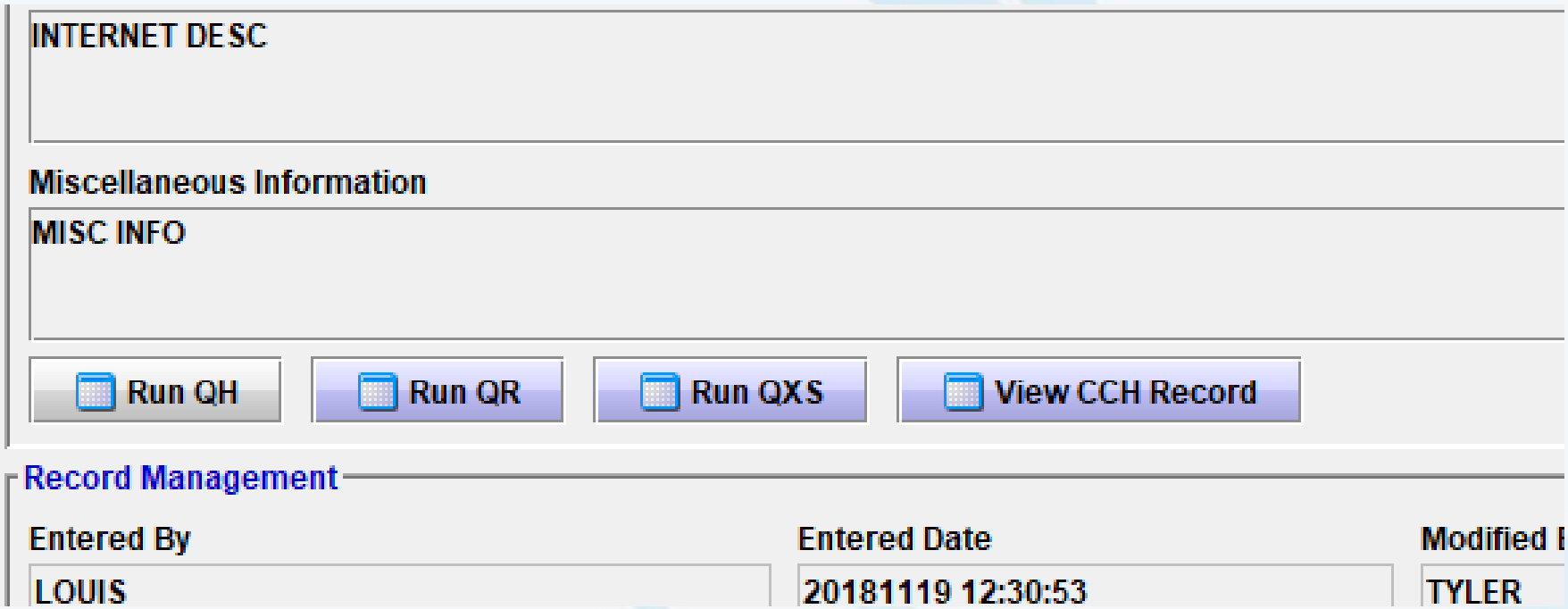
SOR 1.0 - Desktop Features

VIN Assist



SOR 1.0 - Desktop Features

Inter Module Communication



SOR 1.0 - Functionality

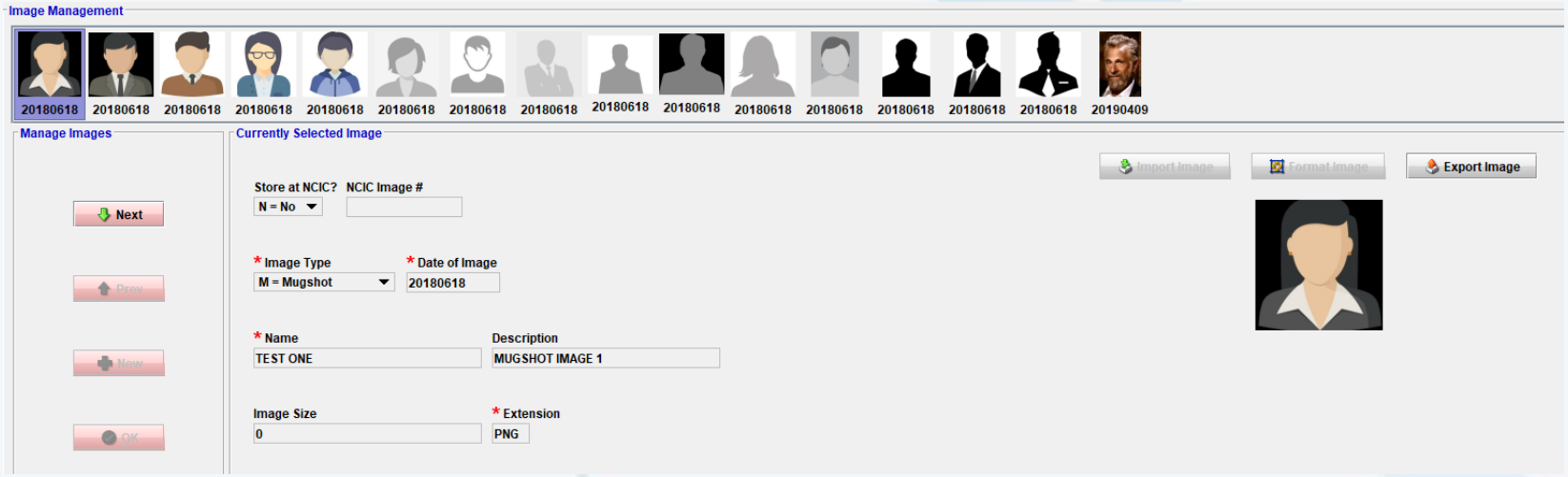
- Ease of Record Maintenance
- Robust Search Engine
- Active & Historical Data
- State-Specific Data
- Image Handling
- NCIC Sync process leveraging HFS model

SOR 1.0 - Enhancements

- Address Validation
- Geocoding
- Registration Functionality
- Signature Capture
- Enhanced Reporting/Letter design

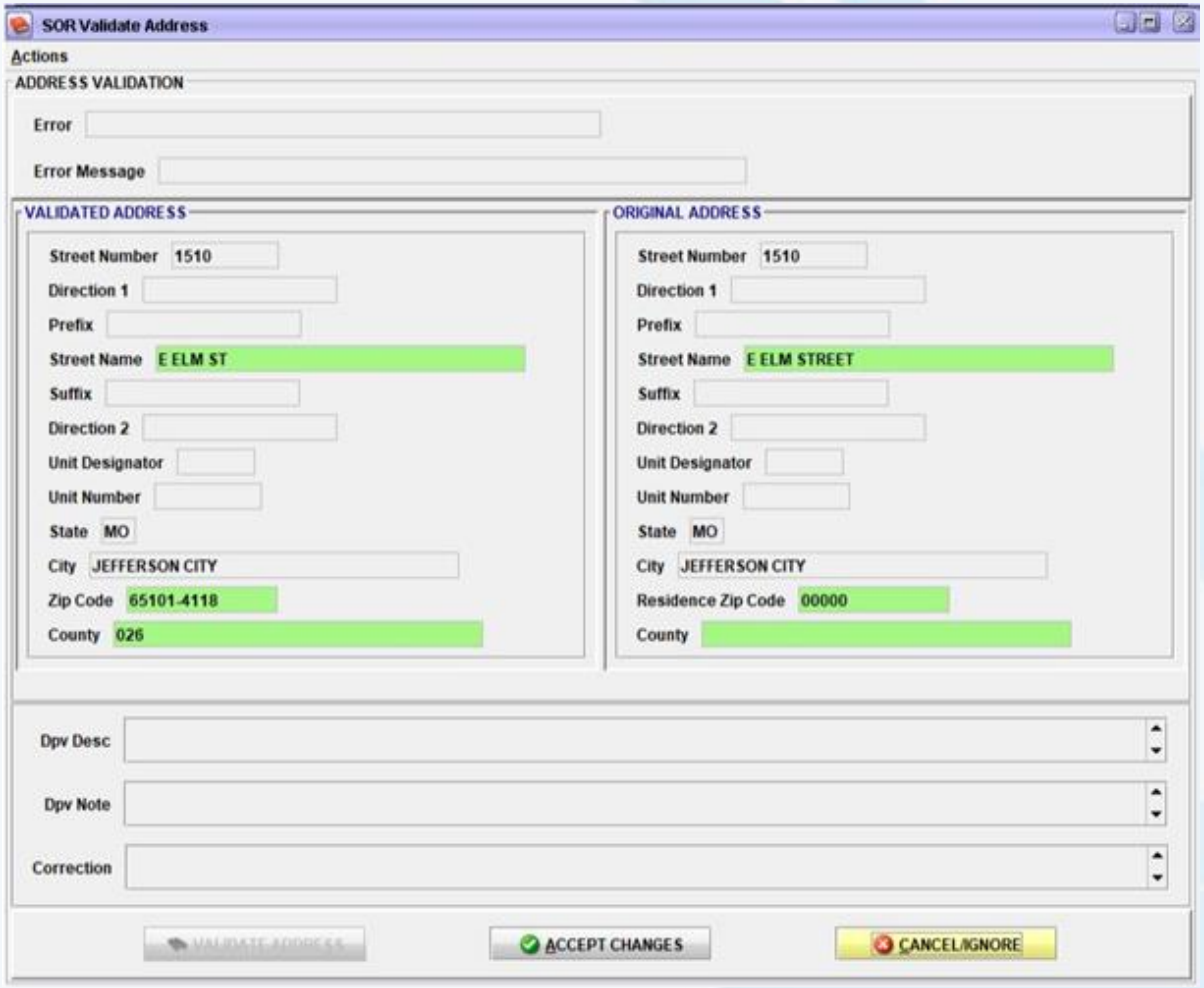
SOR 1.0 - Enhancements

Image Processing



SOR 1.0 - Enhancements

Address Validation



SOR 1.0 - Enhancements

Registration Functionality

- Allows Agencies to register a sex offender
- Allows central sites to review registrations and sync with NCIC
- Registration History

SOR 1.0 - Enhancements

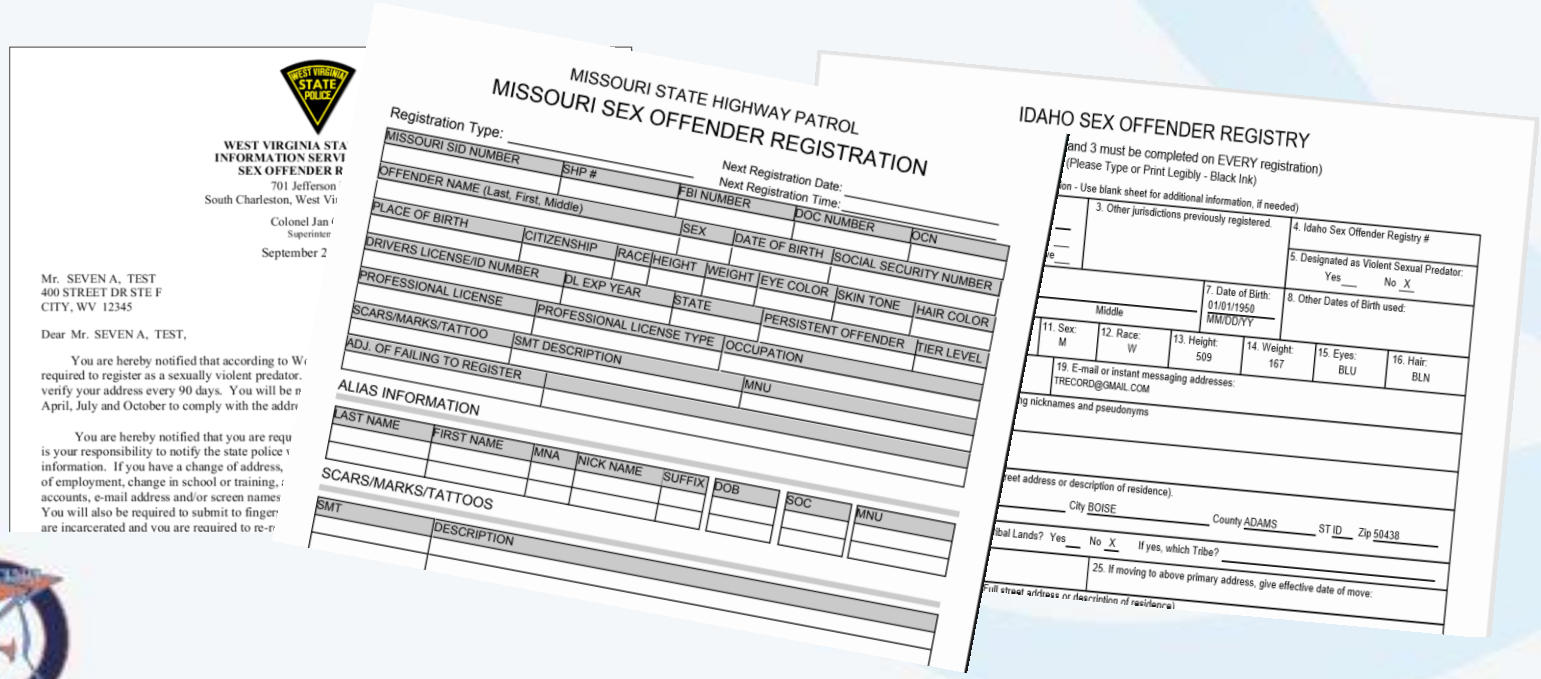
Topaz Signature Pad Support

Capture offenders signature at registration

SOR 1.0 - Enhancements

JasperReports

- Open source Java reporting library
- Rich displays that include in-line imaging
- Highly configurable



SOR 1.0 Implementations

SOR Reboot - Change is coming

SOR Reboot - Change is coming

- Searches
- CRUD (**C***reate* **R***ead* **U***pdate* **D***elete*)
- NCIC Synchronization
- Reports
- Client Specific Functionality

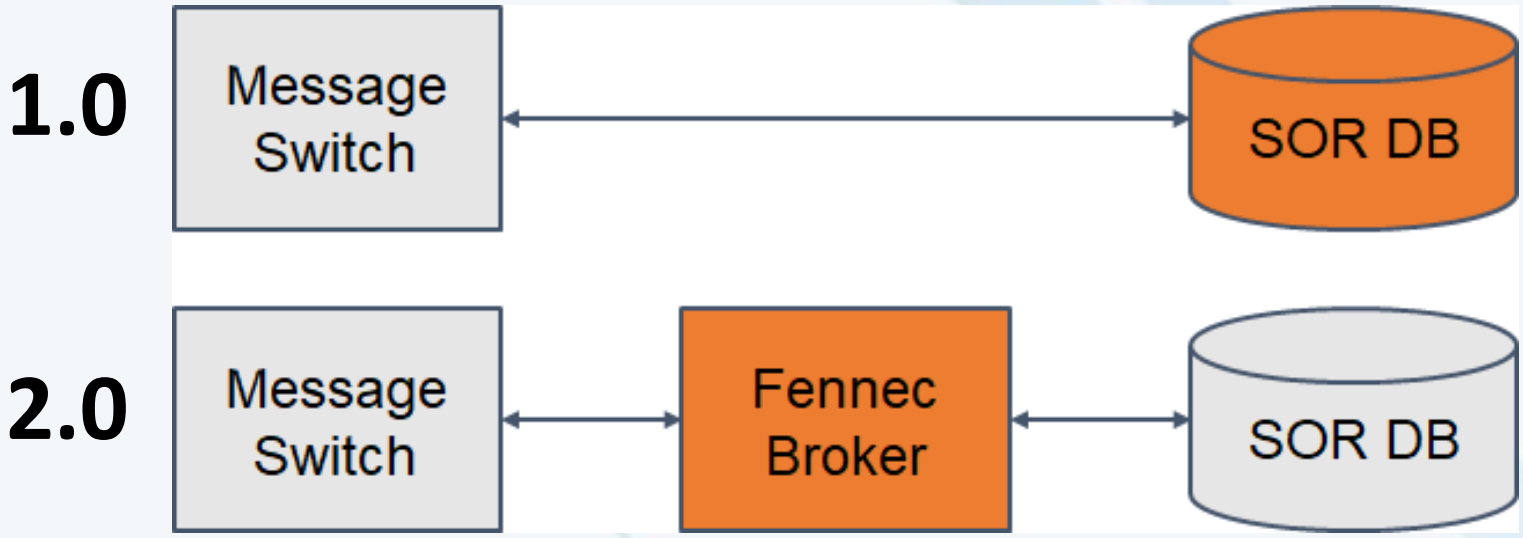
SOR Reboot

SOR Reboot - New Backend

Fennec Broker platform

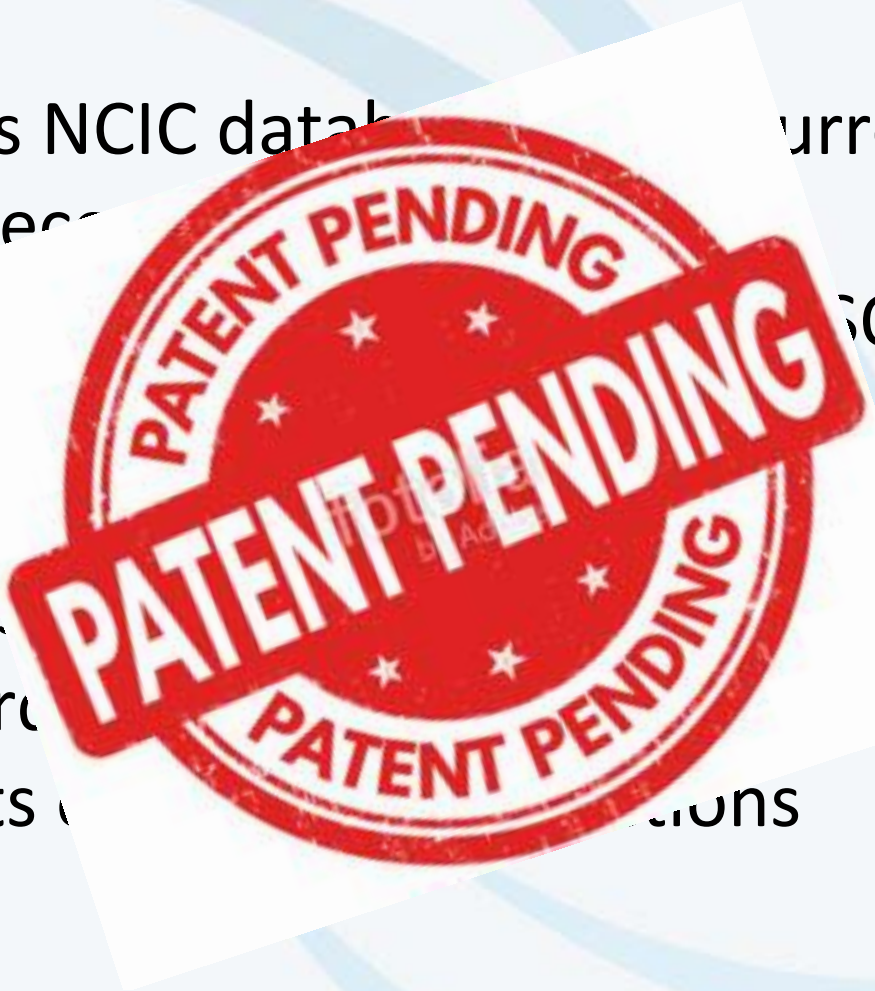
- Java middle tier app
- Powerful language
- Platform independent
- Database independent

SOR Reboot - New Backend

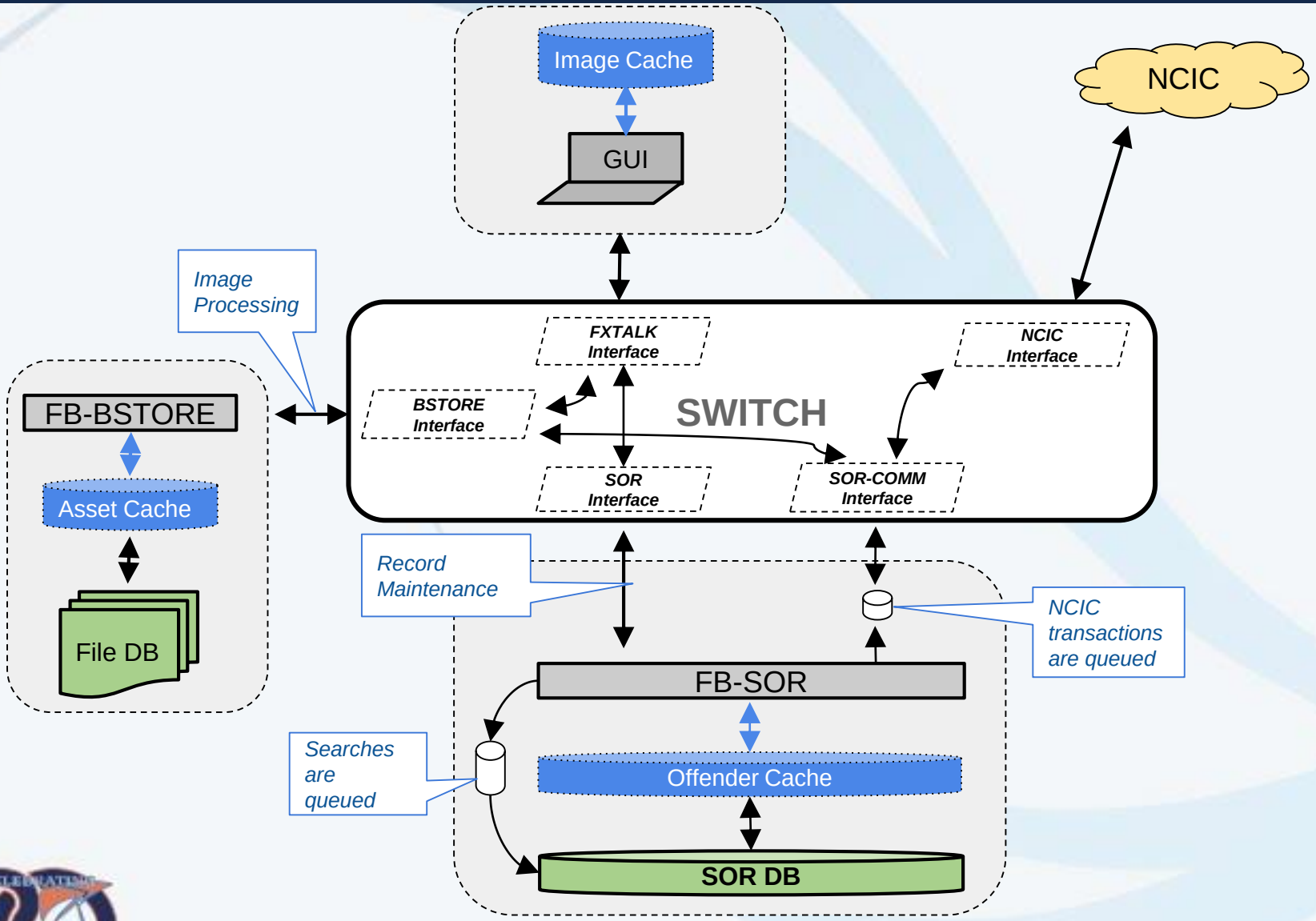


SOR Reboot - New Sync Process

- FB queries NCIC datab… …urrent state of NSOR rec…
- FB crea… …SOR record and NSC…
- FB comp… …ls to compile li… …red to sync recor…
- FB submits … …tions

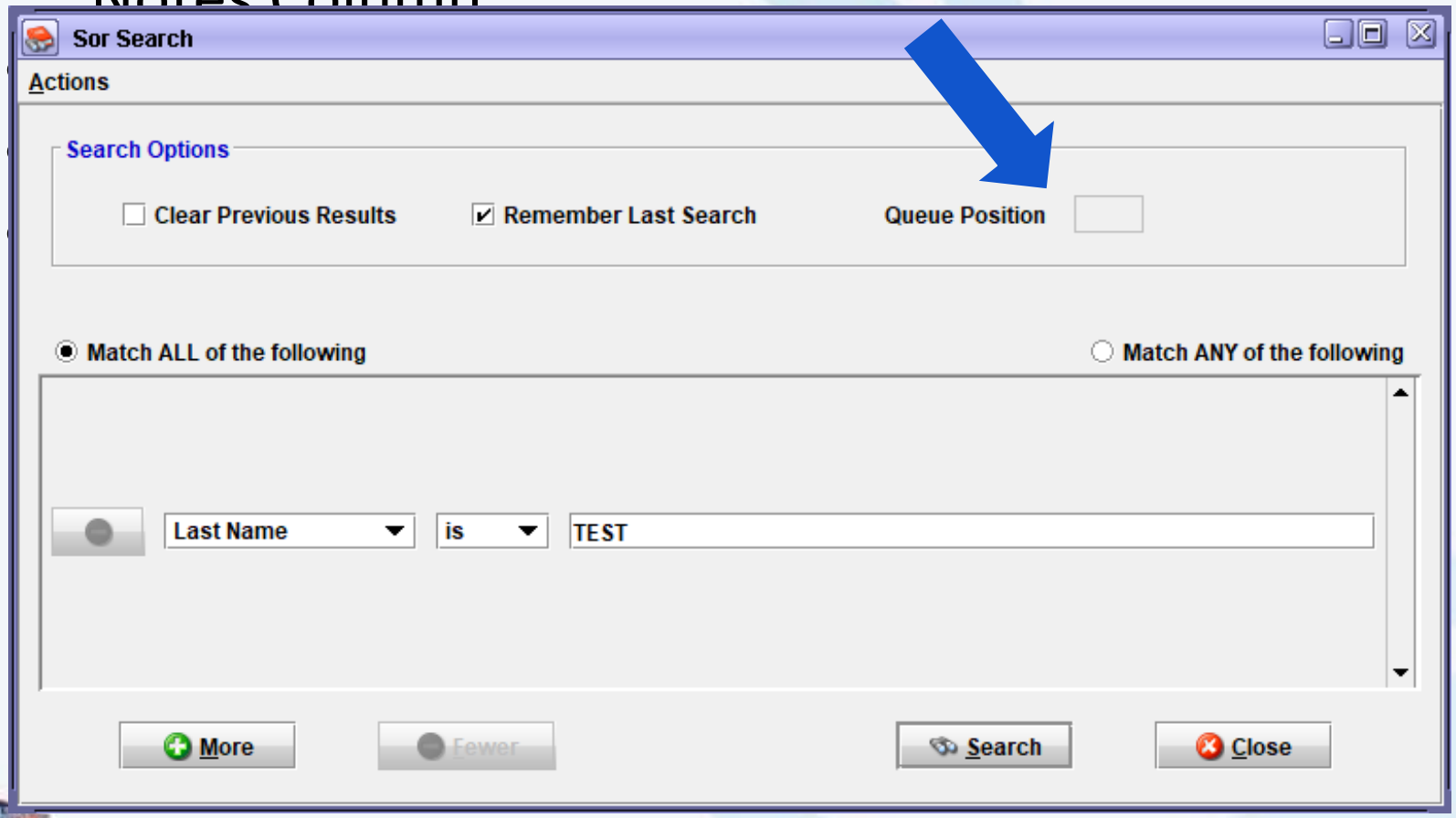


SOR Reboot - Architecture



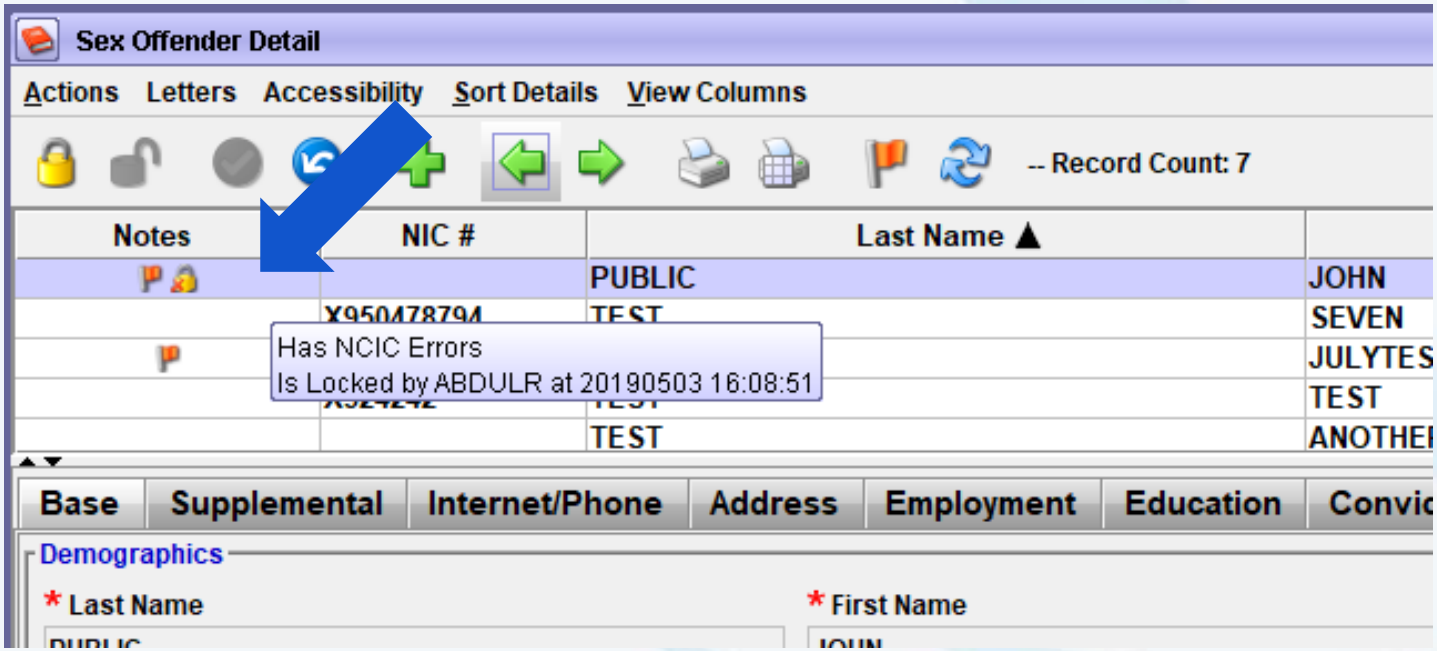
SOR Reboot - Transparency

- **Search Queues**
- Notes Column



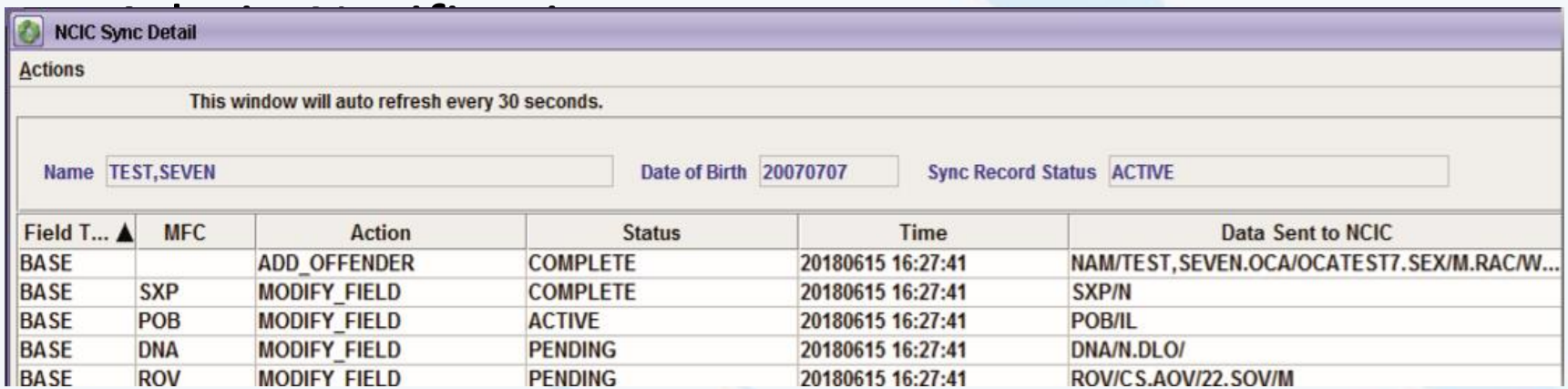
SOR Reboot - Transparency

- Search Queues
- **Notes Column**
- NCIC Sync



SOR Reboot - Transparency

- Search Queues
- Notes Column
- **NCIC Sync**
- System Health



SOR Reboot - Transparency

- Search Queues
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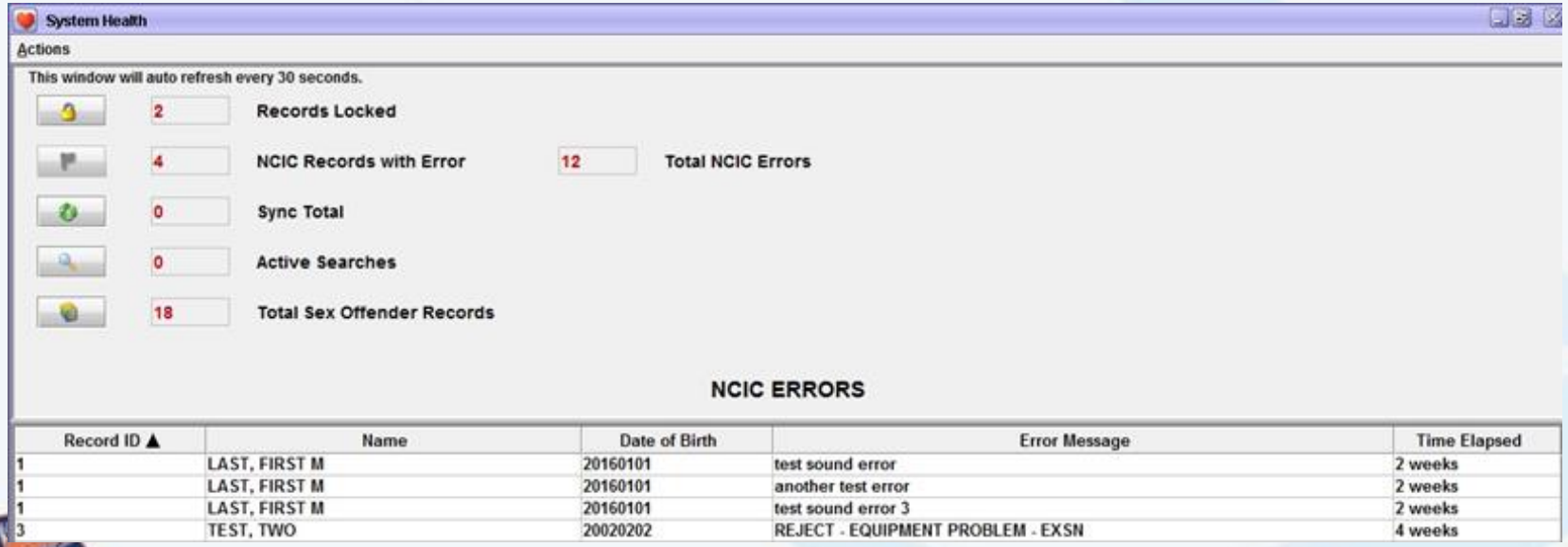
- NCIC Sync
- **System Health**
- Admin Notifications



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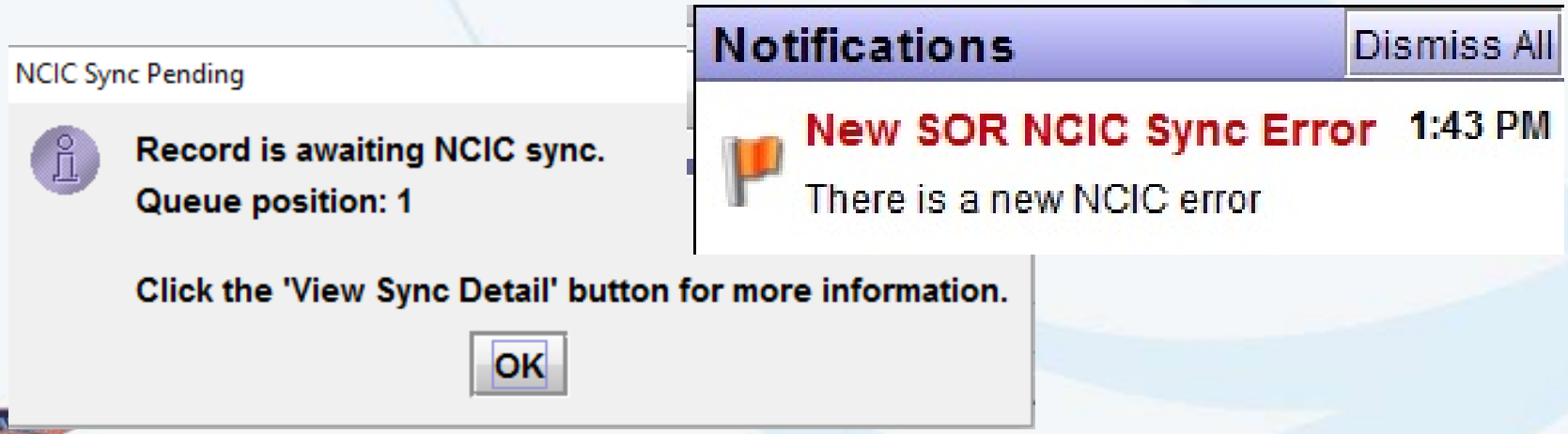


SOR 2.0 - Goals

NCIC
Data Model

Reliability

Performance

Transparency

SOR 2.0 - Summary

- 3 Tier Architecture
- Patent Pending NCIC Sync Process
- NCIC Data Model
- Out of Box Functionality

What's next?

Where else can this technology be used?

What's next?

KAREN YUAN

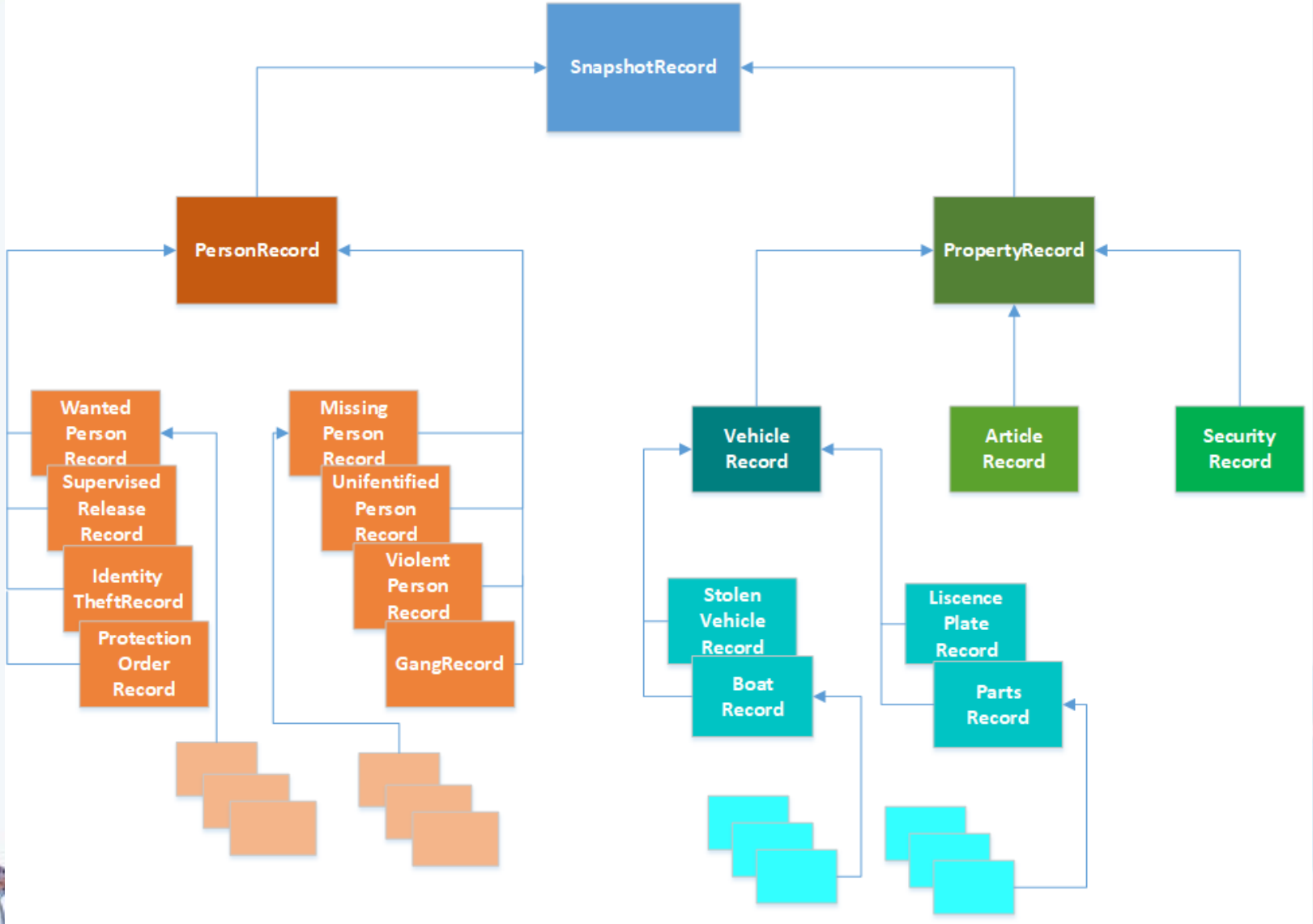
Hot Files 2.0 Design Principles

- NCIC compliance
- Enhance performance
- Enhance flexibility
- Ease of maintenance
- Robust query functionalities
- Flexible reporting capabilities

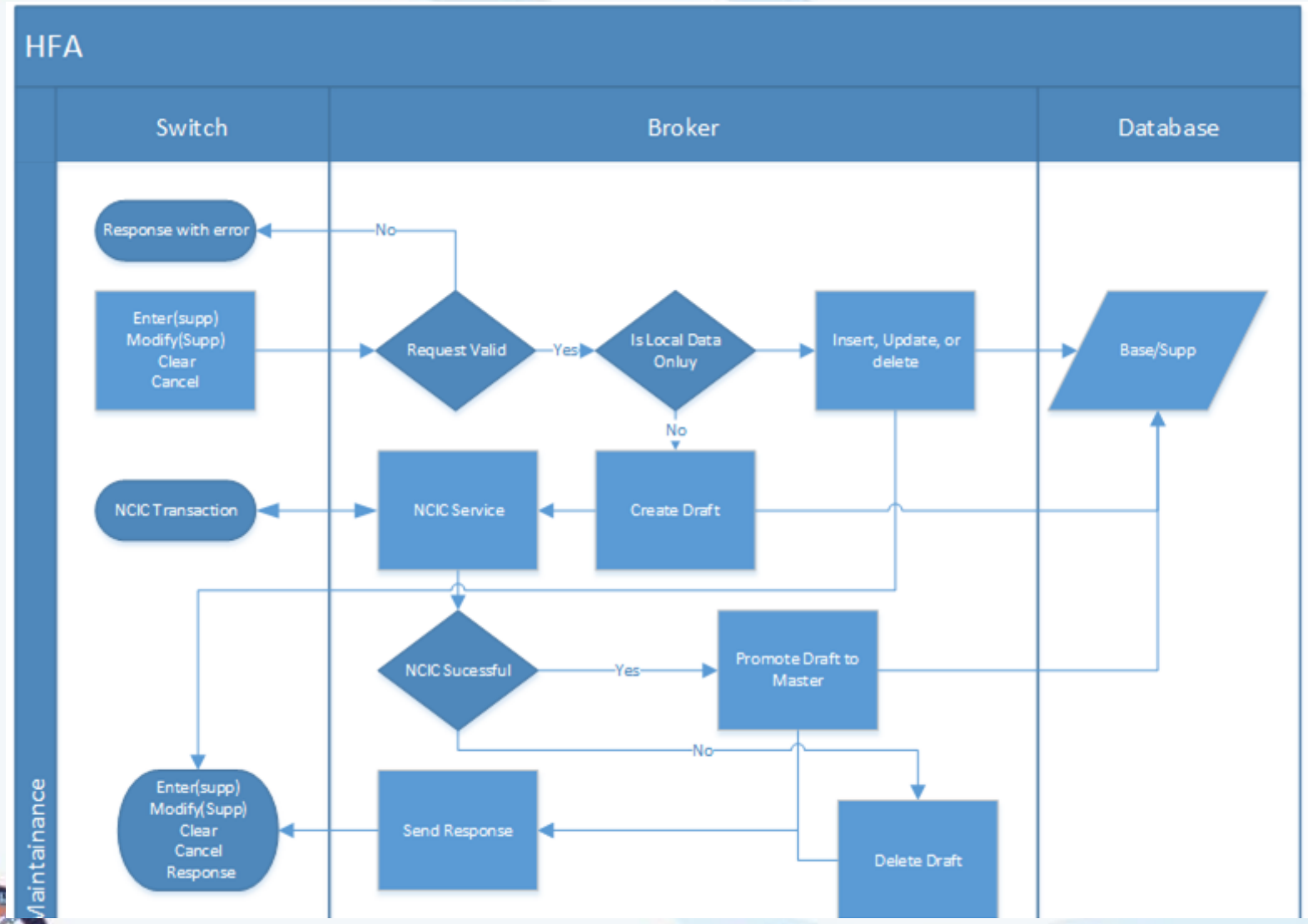
Hot Files 2.0 NCIC Compliance

- Leverage patent pending NCIC sync technology
- New NCIC data model
  - Handle both letter O and zero for record matching
- Handle NCIC unsolicited messages
- Send unsolicited messages for local only records
- Validation and reporting capabilities

Hot Files 2.0 Data Models



Hot Files 2.0 Process Flow



Hot Files 2.0 Hibernate Framework

- Underline database independent
- Code auto generation
- More robust data retrieval
- Conjunction with data structure redesign

Hot Files 2.0 Reporting Capabilities

Real-time Replication Reporting Database

- Enhance Flexibility
- No negative impact on production database performance
- Soft delete allow reports on purged records

Hot Files 2.0 Current State

- Arizona under UAT
- Illinois LEADS in development
- More agile approach can be utilized
- Automated testing to ensure quality

Hot Files 2.0 Future State

- Adding GUI client
- Others?
- Birds of a Feather sessions in the afternoon

Thank You!