

#### Criminal Justice Information Sharing Committee Update

JUSTICE C

#### November 17, 2021



#### **CJIS Goal**



### **Shared infrastructure that:**

- Provides justice professionals with the accurate and timely information they need to effectively fulfill their respective missions.
- Provides policymakers with data to effectively plan, prioritize, and evaluate the impact of resources invested in the criminal justice system.
- Provides the public at-large with information by which to evaluate the performance of the justice system and returns on taxpayer resources.

# **Current Data Supply Chain**



\*Multiple apps- EPR, FIC, DORS, BEAST. To be consolidated into Hexagon in 2022

#### Problem: Redundant data entry / paper-driven workflows

Process	Redundant Data Entered	Prior Entry Point
Jail Acceptance / Pre-Booking Workflow (OPSO)	<ul> <li>Incident information (offense location, offense time, Item Number, etc.)</li> <li>Arresting officer information</li> <li>Charges</li> <li>Suspect information</li> <li>Victim/Witness information</li> <li>Gist</li> </ul>	NOPD (Electronic Police Report)
Post-First Appearance Inmate Charge Record Update (OPSO)	<ul><li>Probable cause determination</li><li>Bond amount</li><li>Release conditions</li></ul>	Clerk of Criminal Court (AS400 DEFCHG)
Prosecutor Screening Decision	<ul> <li>NOPD incident report &amp; supplemental materials</li> </ul>	NOPD (Electronic Police Report)
Screening Action (Clerk of Court / OPSO if defendant in active custody)	<ul> <li>Refused charges / accepted charges / modified charges</li> <li>Bill of Information</li> </ul>	District Attorney (Prosecutor By Karpel)
Charge disposition tracking – arraignment through sentencing (District Attorney / Public Defender)	<ul><li>Plea entered</li><li>Verdict</li><li>Sentence</li></ul>	Clerk of Court (AS400 DEFCHG, SENTEN)



#### > Inability to link key records for cross-system defendant/charge tracking

Data Object in System A	Data Object in System B	lssue
Electronic Police Report arrested subject ("Offender")	Jail Management System arrested subject ("Inmate Folder")	NOPD lacks persistent person-level identifier across incident reports. No police report person identifiers included in jail booking data.
Sheriff inmate charge (IMCHGD)	Criminal Court defendant charge (DEFCHG)	Person (SCN) and arrest (Arr No, ATN) identifiers shared by both systems, but no shared identifier at charge level.

Problem - Documents stored on disparate network and cloud environments. Users need documents and images from across the system but can only access those stored in their respective agency's environment.



On prem database Cloud storage



Problem - complex system-to-system interface requirements massively inflate cost and difficulty of replacing key legacy systems.

#### **Example: Jail System Interfaces**





# Long Term Vision for CJIS Environment



• Map to adopted naming standards

application neutral and

compatible with both on

premise and cloud data

sources.

 Add meta data, security tags and enhancers.

zones.

#### Secure.

- Encryption
- Admin roles
- Activity logs
- Audits

business logic.

![](_page_7_Picture_11.jpeg)

allows source systems

to receive data via API

at desired update

frequency (data

latency).

Federated access via agency-specific active directories.

application for business analysts. No-code & Al enhanced apps for functions not supported by agency source system.

# Data flow sample (high level)

![](_page_8_Figure_1.jpeg)

![](_page_8_Picture_2.jpeg)

#### **Detailed Data Flow With Azure Components**

![](_page_9_Picture_1.jpeg)

(From Data Platform in 30 Days proposal by Insight)

![](_page_10_Picture_1.jpeg)

![](_page_10_Figure_2.jpeg)

NOPD EPR/FIC	Corresponding NIEM Element /
Element	(Definition)
FirstName	nc:PersonGivenName (A first name of a person.)

![](_page_10_Figure_4.jpeg)

![](_page_10_Figure_5.jpeg)

Sheriff JMS Data Element	Corresponding NIEM Element / (Definition)
IFFNAM	nc:PersonGivenName (A first name of a person.)

#### Surrogate Keys and Universal Tracking Numbers

keys).

![](_page_11_Picture_1.jpeg)

![](_page_11_Figure_2.jpeg)

under original tracking numbers (surrogate

### **Subscription & Publication**

Solution: Enterprise Service Bus allows data to be published to all authorized subscribers via one interface/API independent of source system.

![](_page_12_Figure_2.jpeg)

 Source system can be replaced without disruption to external agencies dependent on jail/arrest data.

#### Shared Cloud Storage / Federated Access

![](_page_13_Figure_1.jpeg)