



# Cook County Enterprise Service Bus

Facilitating Secure Data Exchanges throughout the County



# Project Mission, Goals and Scope

## What

Service Oriented Architecture (SOA)

National Information Exchange Model (NIEM)

Data Sharing

End-to-end security

Tracking, auditing, data protection

## Why

Autonomous agencies with varying tech sophistication

Interoperability and Reusability

Reduce or eliminate paper-based processes

Right data, right time, right person

CJIS Compliance

## How

Enterprise Service Bus (ESB)

Information Exchange Package Definition (IEPD)

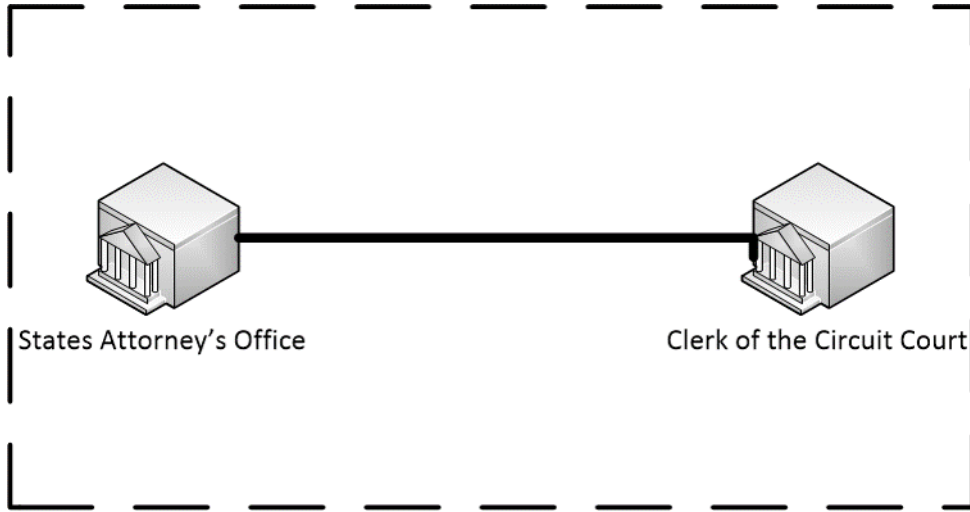
Data exchanges

Data sharing policies, MOU, MOA

Change management and governance

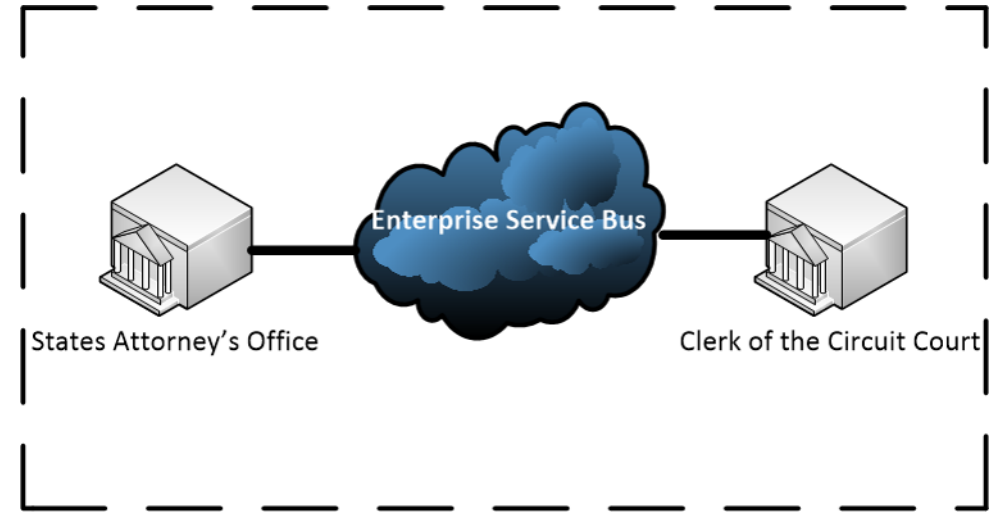


# Current State's Attorney to Clerk Exchange



**Point-to-Point transmission within Datacenter**

Future State →



**Insert Service Oriented Architecture with minimal Impact**

Transfer of Charging data from SAO to Clerk

Point-to-point connection—lack of standards and policies

Limited to single-purpose data transfer feed from SAO to Clerk



SOA permits the use of existing connection technologies

Provides enhance uniform security methods to connections

Reusable standards-based structures [NIEM]



## State of the Art Security

**Data is fully  
Encrypted from  
End-to-End**

**Only  
Information  
Security Office  
(ISO) has access  
to Audit Log  
information**

**Alerts for any  
unauthorized  
activity 24x7**

**Every Activity  
on the ESB is  
Captured in a  
secure Audit  
Log**

**NO DATA is  
stored on the  
ESB nor in the  
Audit Log**

**Policies  
determined by  
County  
Agencies**



# Project Governance Progress

<u>Milestone</u>	<u>Description</u>	<u>Status</u>
Project Mobilization	<ul style="list-style-type: none"><li>• Assemble project team and provide orientation to the Consulting Team. Includes development of the preliminary consulting staff list.</li></ul>	Complete
Project Kick-Off	<ul style="list-style-type: none"><li>• Conduct Project Kick-Off meeting and provide an overview of:<ul style="list-style-type: none"><li>• Project Scope</li><li>• Project Schedule</li></ul></li></ul>	Complete
Project Charter	<ul style="list-style-type: none"><li>• Vendor and County will work together to develop project governance. The guidelines document includes:<ul style="list-style-type: none"><li>• Project Management Approach, Organization Chart, Methodology, Issue Management, Change Management, and Risk Management</li></ul></li></ul>	Complete
Project Plan	<ul style="list-style-type: none"><li>• Develop Project Plan complete to the point that major milestone and deliverables are included.</li><li>• The deliverable material includes:<ul style="list-style-type: none"><li>• Work Breakdown Structure</li><li>• Project Baseline</li><li>• Resource assignments at task level (Without leveling)</li></ul></li></ul>	Complete
Requirements Specifications	<ul style="list-style-type: none"><li>• Listing of known business requirements for the data exchanges – this involves the review of operational, technical, and information security processes with the County’s team.</li></ul>	In Progress



# Technical Progress

<u>Milestone</u>	<u>Description</u>	<u>Status</u>
Hardware and Off-the-Shelf Software Deliverables	<ul style="list-style-type: none"><li>• <b>Receive and validate all equipment and off-the-shelf software required for the project.</b></li></ul>	Complete
Deploy Physical Server Environments	<ul style="list-style-type: none"><li>• <b>The Full Environment includes Development, Test, Production, Training/Staging and Disaster Recovery systems.</b></li><li>• <b>Walkthroughs of the data center to review physical systems complete.</b></li></ul>	Complete
Deploy SOA Environments	<ul style="list-style-type: none"><li>• <b>Installation of software by Oracle complete.</b></li><li>• <b>Setup of SOA platforms continues.</b></li><li>• <b>Development &amp; Test environments complete.</b></li><li>• <b>Stage/Training, Production &amp; Disaster Recovery remain</b></li></ul>	In Progress



# Next Steps and Development

## Top Priority: Bond Court Process

### Agencies

- Various Law Enforcement Agencies
- Clerk of the Circuit Court
- States Attorney
- Office of Chief Judge
- Sheriff
- Public Defender

### Documents

- Arrest Information Report
- Bond Order
- Case Report
- Complaint
- Felony 101
- Inventory Report
- Prisoner Data Sheet

## Criminal Justice agencies processes prioritization:

Justice agencies working on prioritizing a master list

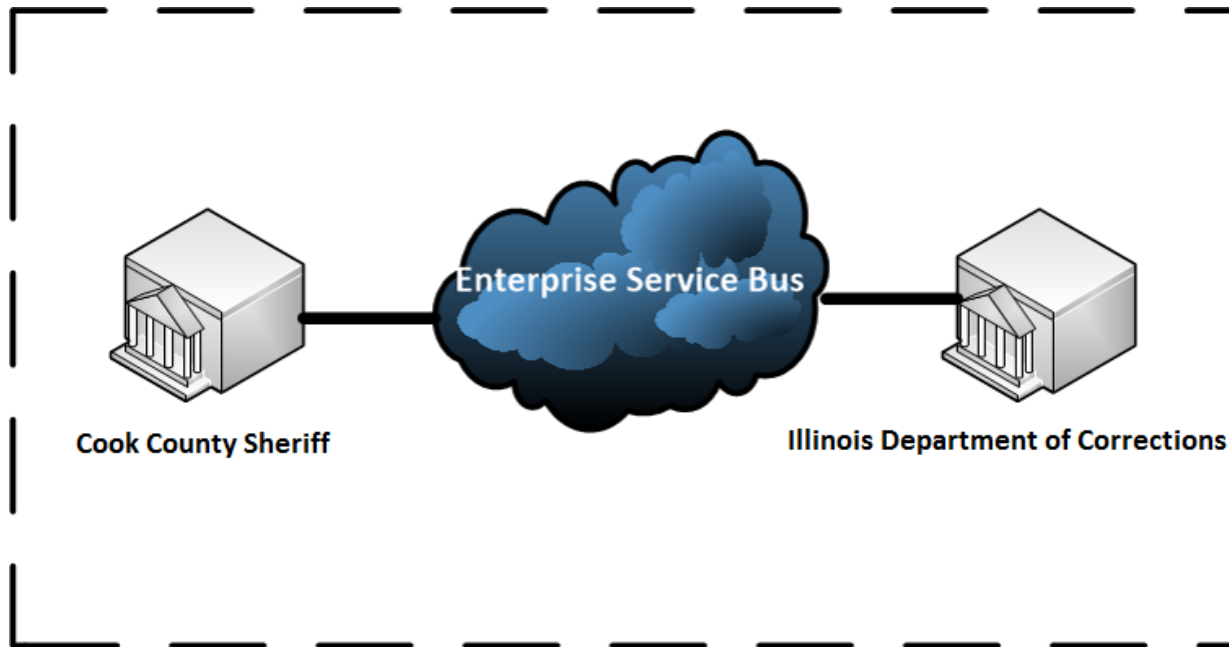
Considerations: the business events and process conditions, documents;

Heat map: an aggregation of agency specific urgency for specific business processes, events and/or documents;

ROI Template: a common list, weighing indicators for calculating the return on investment.



# Future integrations between Sheriff and IDOC



Facilitate transfer of JMS data from Sheriff to IDOC in advance or Prisoner Transfer

## Transfer JMS data

- Mittimus data
- Statement of Fact

## Transfer Prisoner Data

- Health & Mental Health Data
- Behavioral information
- Gang Affiliations

## Permit for Planning

- IDOC sees space needs in advance
- IDOC can plan for destination