

Law Enforcement National Data Exchange



Data Analysis and Visualization
03/28/2008



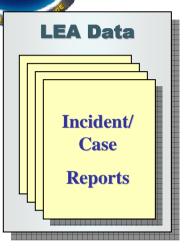


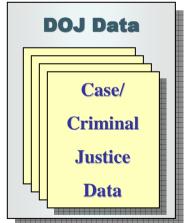
Law Enforcement National Data Exchange

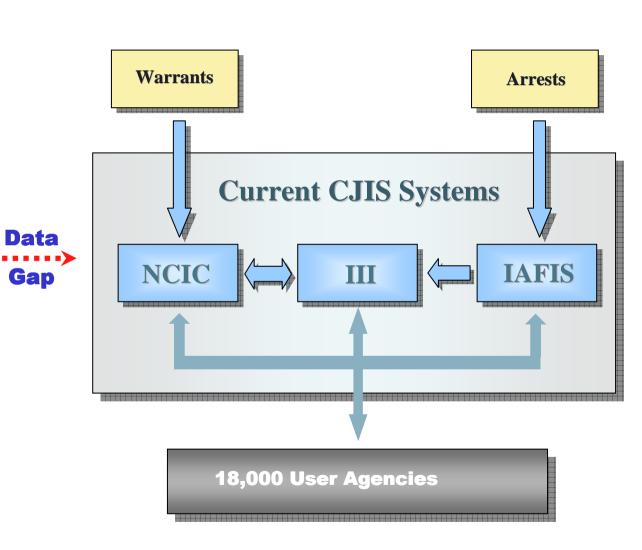


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CJIS Information Sharing Gap

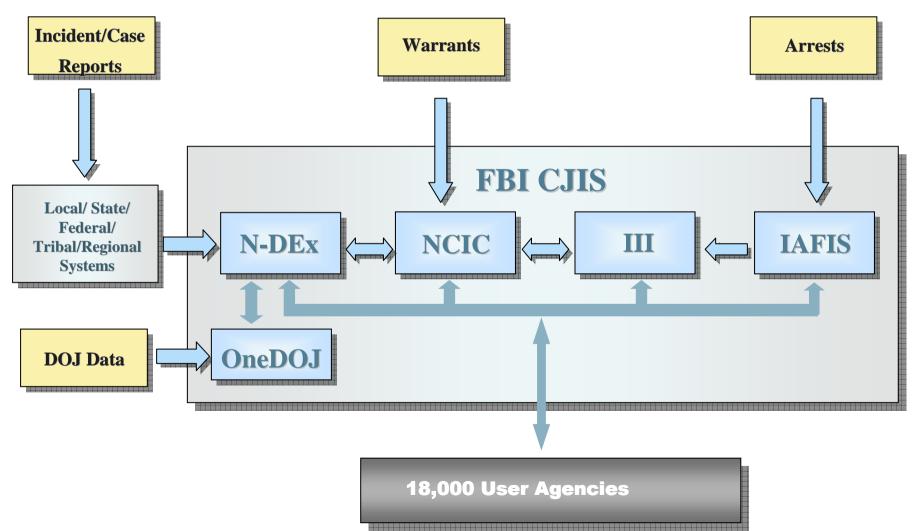








CJIS Information Sharing With N-DEx/OneDOJ Integration



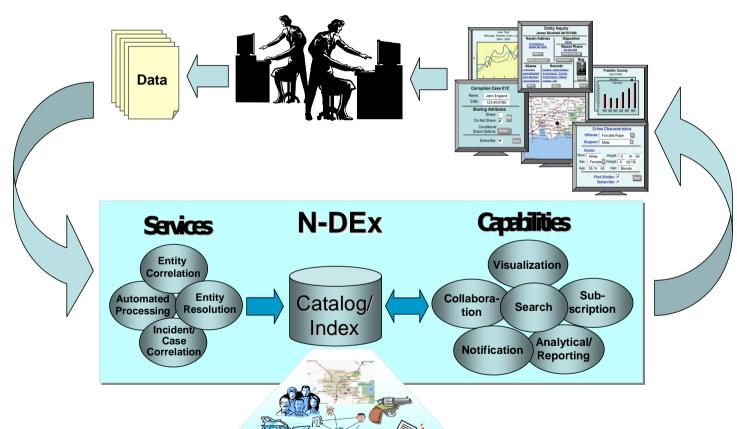


N-DEx Concept

Services/Capabilities from Concept of Operations

Data Submitted

Information Returned



People, Places, Things. Relationships. Characteristics

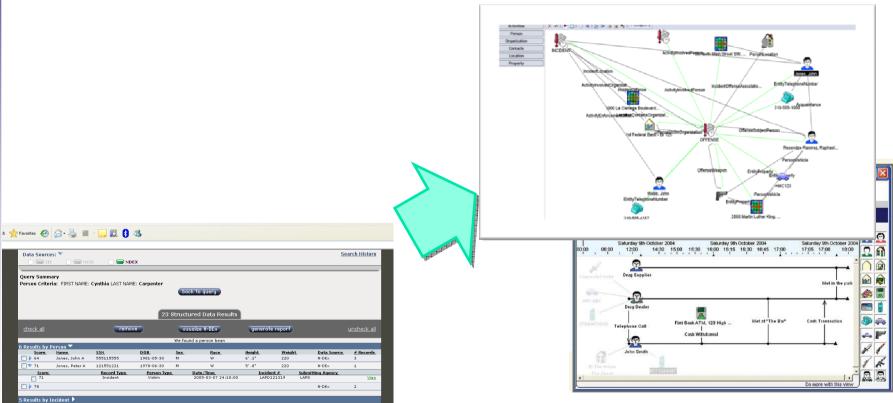
Entities

Enhanced Capabilities Search

Capability	Inc. 1	Inc. 2
Entity Search (Structured)		
Search Multiple Entity Types (e.g. Person, Location)		
Search History		
Display Detailed Record (N-DEx Rendering)		
Display Person Image		
Search Multiple Entity Types (e.g. Multiple People, Property)		
Full-Text Narrative Search		
Geospatial Search		
Limit Search Based on Region		
Limit Search Based on Incident Date Range		
Create Save or Modify Search Preferences/Templates		
Display Per XSLT Rendering Instructions		
Display Other Images		0



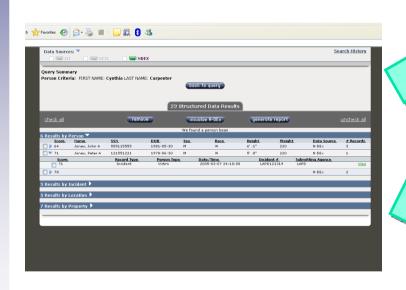
Enhanced Capabilities Visualization (Increment 1)

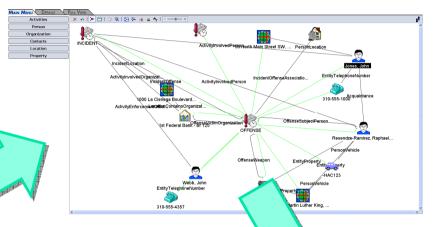


Increment 1 allows users to view relationships between entities selected from results set



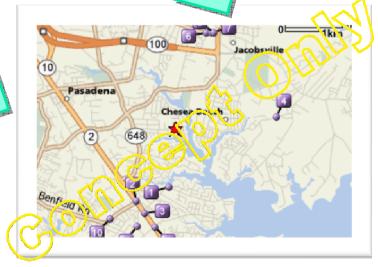
Enhanced Capabilities Visualization Increment 2





Increment 2 will allow users to view:

- relationships of entities selected from a result set
- locations of entities selected from results set
- locations of entities selected from a link visualization

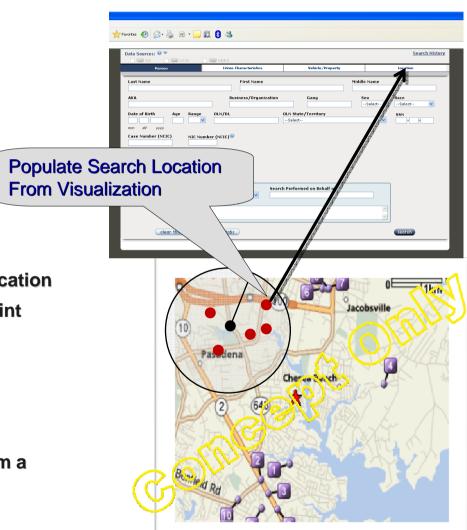




GeoSpatial Search

Allows users to perform geospatial search

- Search for location types:
 - o residence
 - o employment
 - o last seen
 - o arrest
 - seized (property)
 - o etc.
- Specify radius
- Show difference between query point and location
- Specify geographic region or geographic point
 - o Address
 - Lat/long
 - o Zip code
 - o City, County, State
- Use Boolean combinations
- Import geographic query point locations from a geo-visualization display





Enhanced Capabilities Reports

Report Capability	Inc. 1	Inc. 2
Data Management Reports	(0
LEA/User Reports		
Crime Analysis Reports		
Audit Reports (CJIS)		
Audit Log Service (LEA)		
NIBRS Extract		



Enhanced Capabilities Additional Data Types/Standards

Increment 2 will be able to process new data types using latest standards while maintaining backward compatibility with existing submission standards

Submission Standards	Inc 1	Inc 2
N-DEx IEPD 1.0	0	
N-DEx Bundle		
N-DEx IEPD 2.0		<u> </u>
Incarceration/Booking IEPD		
LEXS 3.1.1		(



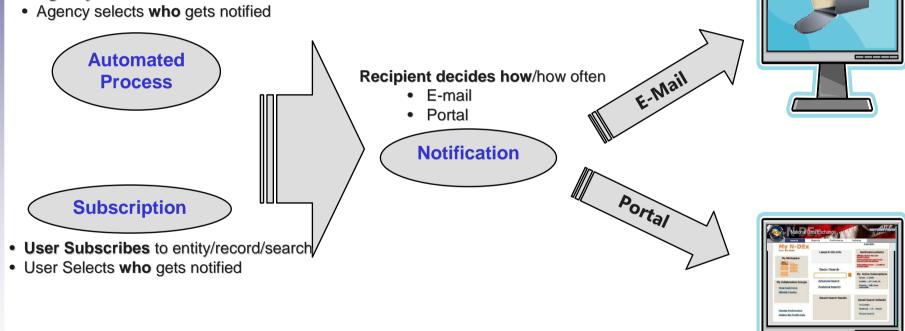
System Capacity/Sizing

	Increment 1	Increment 2
Users	50,000	100,000
Concurrent User Sessions	1,875	3,250
System Search Response Time / Second	6	6
Ingested Records/day	1,000,000	1,000,000
Geo-Coding Records/Day (Ingest)	N/A	1,000,000



New Capabilities Notification

• Agency Subscribes to Automated Process

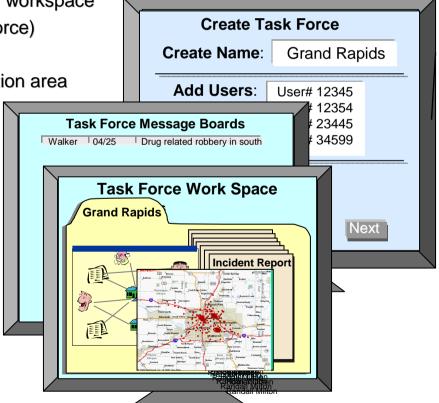




New Capabilities Collaboration

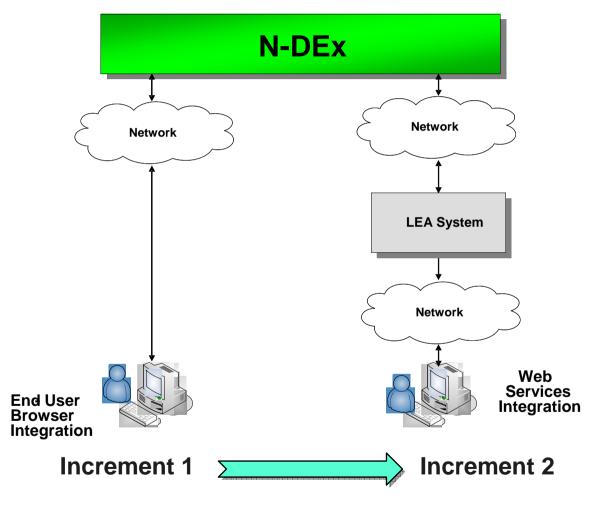
Increment 2 will provide a collaboration function to enable N-DEx Users to exchange information with other N-DEx Users.

- Share information from user's desktop
- Capability to create folders/share files within workspace
- Creation of collaboration groups (e.g. task force)
- Capability to send instant messages
- Auditing of user actions within the collaboration area





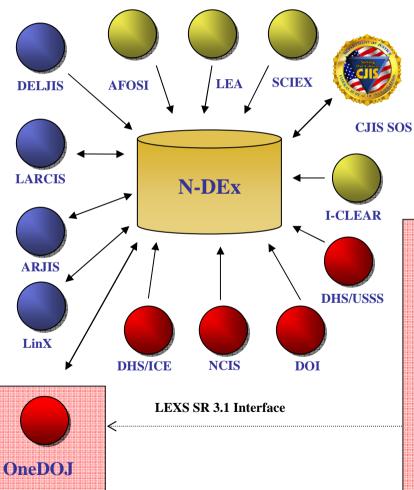
New Capabilities Basic Search - Web Service



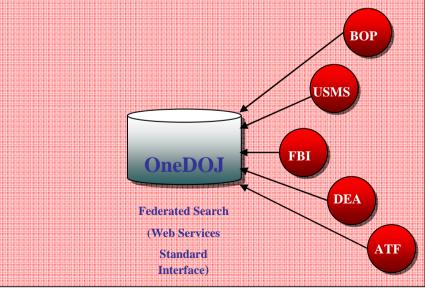
Increment 2 will develop a LEXS Web Services Interface/Prototype with a goal to support a basic search web service in Increment 2.



New Capabilities Web Services and Federated Search



- National Information Sharing
- Virtual Regional Information Sharing
- Provides extensibility of systems





Questions

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