Law Enforcement Information Exchange (LInX) Overview & Update

CJIN Governing Board Meeting

Mark Harris / Jim Dundas
LInX Program

November 15, 2012

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LInX Status

• Operational in 11 Regions
  – Department of Defense Information Exchange (NCIS, Air Force OSI, Army CID)
  – LInX Northeast (Connecticut)
  – LInX National Capitol Region (Northern Virginia & Maryland)
  – LInX Virginia (Central & Southern Virginia)
  – LInX North Carolina (North Carolina & South Carolina)
  – LInX Southeast (Northern Florida & Georgia)
  – LInX Gulf Coast (Texas)
  – LInX Rio Grande (New Mexico)
  – LInX Southern California
  – LInX Northwest (Washington, Idaho, Oregon & Alaska)
  – LInX Hawaii (Hawaii, Oahu, Maui, Kauai)
## LInX Regions Summary – Data / Users

<table>
<thead>
<tr>
<th>Region</th>
<th>Agencies in Region</th>
<th>Agencies providing Data</th>
<th>Trained Active Users*</th>
<th>Region Total w/o Narr &amp; Mugs</th>
<th>Narratives</th>
<th>Mugshots</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-DEx</td>
<td>5</td>
<td>3</td>
<td>506</td>
<td>879,171</td>
<td>872,033</td>
<td></td>
</tr>
<tr>
<td>Northeast (NE)</td>
<td>26</td>
<td>23</td>
<td>371</td>
<td>11,864,641</td>
<td>13,274,727</td>
<td>396,958</td>
</tr>
<tr>
<td>National Capital Region (NCR)</td>
<td>125</td>
<td>122</td>
<td>9473</td>
<td>99,141,001</td>
<td>69,159,243</td>
<td>9,809,070</td>
</tr>
<tr>
<td>Virginia (HR)</td>
<td>201</td>
<td>192</td>
<td>6820</td>
<td>52,457,341</td>
<td>32,394,481</td>
<td>7,273,030</td>
</tr>
<tr>
<td>North Carolina (NC)</td>
<td>60</td>
<td>53</td>
<td>1854</td>
<td>27,646,877</td>
<td>21,047,749</td>
<td>1,881,449</td>
</tr>
<tr>
<td>Southeast (SE)</td>
<td>79</td>
<td>65</td>
<td>4975</td>
<td>67,855,286</td>
<td>71,385,809</td>
<td>4,449,298</td>
</tr>
<tr>
<td>Gulf Coast (GC)</td>
<td>32</td>
<td>24</td>
<td>838</td>
<td>35,855,367</td>
<td>13,955,143</td>
<td>873,881</td>
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<tr>
<td>Rio Grande (RG)</td>
<td>40</td>
<td>32</td>
<td>1510</td>
<td>17,598,717</td>
<td>12,510,953</td>
<td>868,590</td>
</tr>
<tr>
<td>Southern California (CA)</td>
<td>57</td>
<td>24</td>
<td>2928</td>
<td>45,901,839</td>
<td>29,087,337</td>
<td>5,300,002</td>
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<tr>
<td>Northwest (NW)</td>
<td>307</td>
<td>220</td>
<td>7501</td>
<td>41,104,400</td>
<td>18,366,013</td>
<td>8,730,098</td>
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<tr>
<td>Hawaii (HI)</td>
<td>9</td>
<td>6</td>
<td>572</td>
<td>11,675,944</td>
<td>3,872,441</td>
<td>214,476</td>
</tr>
<tr>
<td><strong>Total in LInX - September 2012</strong></td>
<td><strong>941</strong></td>
<td><strong>764</strong></td>
<td><strong>37,348</strong></td>
<td><strong>411,980,584</strong></td>
<td><strong>285,925,929</strong></td>
<td><strong>39,796,852</strong></td>
</tr>
</tbody>
</table>

| Total in LInX - October 2011 | 894 | 705 | 35,980 | 352,197,093 | 223,618,043 | 35,156,770 |

*Trained Active Users = Non disabled, non deleted user accounts that have logged into LInX at least once.*
LInX Partner System Integration

• Web Services Interfaces
  – Between all LInX Regions
  – National Data Exchange (NDEx)
  – Immigration & Customs Enforcement (ICE)
  – Florida Law Enforcement Information Exchange (FLEX) pending
  – IBM I2 Charlotte/Mecklenburg (CHARMEC) Node
  – IBM I2 Alaska (ALEISS) Node
  – IBM I2 Mesa Arizona Node
  – IBM I2 San Bernardino pending
  – San Diego pending
LInX Partner System Integration

- LEXS S/R 3.1 Web Services Interface
  - Used for interconnectivity of LInX Regions
  - Subject/Entity Watch across LInX regions
  - One DOJ / N-DEx, DHS ICE
  - IBM I2 Cop Link
    - Alaska (ALEISS)
    - Charlotte/Mecklenburg
    - Mesa, AZ
  - San Bernadino (Pending)
  - San Diego (Pending)
LInX Partner System Integration

• Export Capability
  - N-DEx Export capability turned on for 3 LInX regions
  - Sends data to N-DEx on behalf of participating LInX agencies

• N-DEx Portal Launch
  - Ability for authorized LInX users to launch the N-DEx application directly from LInX
Current Analytical Capabilities

- **Free Text search** – ability to perform text searches of narrative data ingested into the LlnX system. Also provides proximity ("bomb" within 2 words of "threat") and thesaurus capabilities.

- **Identity search** – find different representations of the same person using variants of name/dob/identifying numbers.

- **Link Analysis chart viewer** – ability to view structured and unstructured result sets on a Link Chart, walk data to reveal relationships to other entities, and transfer data to Analyst Notebook.

- **Mapping Capabilities** – ability to view LlnX Search results on a map, and incorporate additional layers for analysis (critical infrastructure).
Current Analytical Capabilities – iXv Chart Viewer

Analyst Notebook

LiInX iXv Chart
Current Analytical Capabilities

Cross-Jurisdictional Mapping Example

Gainesville, FL PD Incidents 9/16-9/23 2012
LInX Application Enhancements

• Application Enhancement Deployments (August 2012)
  – Watch List / Watch List Notification
    • Allows a user to save a “suspect” to the system and then be notified by email when new information on the suspect becomes available
  – Advanced Authentication
    • Risk based authentication based on CJIS approval
  – BAIR Analytics Integration (ATAC Workstation/ATAC RAIDS)

• Future Enhancement Deployments (Spring 2013)
  – On Line Security Audit Module
  – Interactive “Rap Sheet”
  – Mobile Interface Enhancements

• Internal & Customer Research & Development
  – Facial Recognition, Mobile AFIS, License Plate Reader, Mobile platforms
LInX North Carolina Expansion

• South Carolina SLED
  – Contract in process for the integration of Records Management System Incident Reports for 256 South Carolina agencies that will be shared with North Carolina Law Enforcement comprising 26 Million records

• New LInX North Carolina Agencies (*Identifying Funding*)
  – Greensboro PD
  – High Point PD
  – Buncombe CO SO (includes Asheville PD & Woodfin PD)
  – Winston-Salem PD (includes Forsyth Co SO)
  – Rocky Mount PD
Law Enforcement
Information Exchange
(LInX) CJIS Compliancy

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LInX Advanced Authentication

- LInX Release 4.2 contained security enhancements to comply with CJIS Security Policy (CSP) 5.0
  - Deployed to all production sites in August, 2012
  - Contains a risk-based authentication module that requires users to provide a 2nd factor of authentication if a variance in usage pattern is detected
  - Risk-based authentication design vetted through CJIS ISO
  - Additional enhancements for CSP 5.0 compliance
    - Password re-use (was 6, is now 10)
    - # of failed logins that will lock a user account (is now 5)
LInX Advanced Authentication

• LInX v4.2 also included the creation of a CJIS Administrator Role

• LInX user access to N-DEx is controlled by 2 user-level privileges that both default to enabled if N-DEx access is turned on for that LInX region
  – 1 that the LInX agency administrator can set/unset
  – 1 that the CJIS administrator can set/unset
  – LInX user must have both privileges set for N-DEx access

• Successfully completed audits in the following regions:
  – LInX Northwest – FBI Audit
  – LInX Southeast – State of Florida CSO Audit
LInX / N-DEx Integration Status

- LEXS S/R Web Service and Portal Launch enabled in 3 regions (SoCal, Northwest, DDEx)
- N-DEx Export Activated in 3 regions (SoCal, Northwest, Virginia)
- Gulf Coast BOG has signed the N-DEx MOU, activation in process