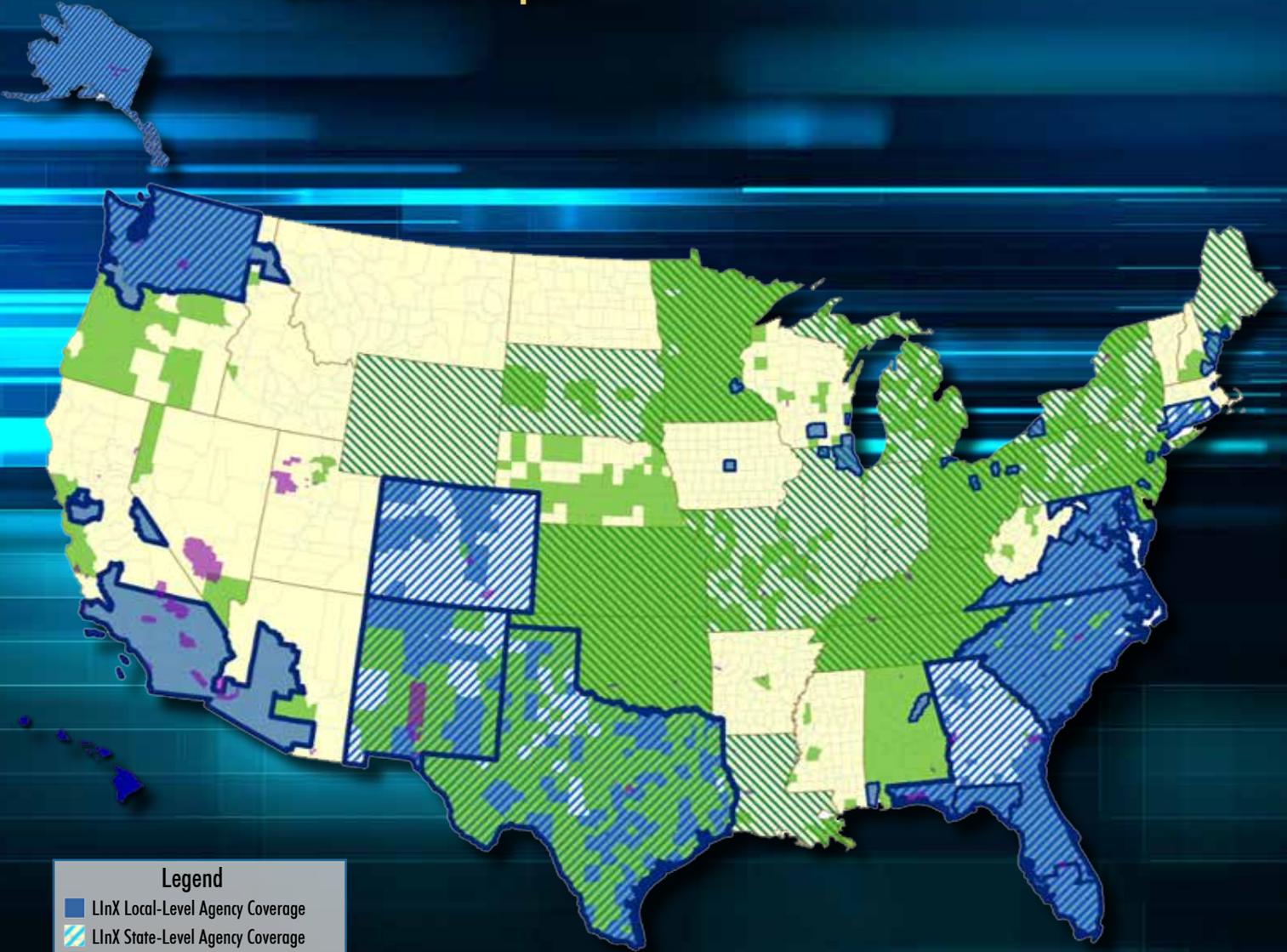




Law Enforcement Information Exchange



2019 Annual Report



Legend

- LInX Local-Level Agency Coverage
- LInX State-Level Agency Coverage
- Military Base Area
- N-DEx Local-Level Agency Coverage
- N-DEx State-Level Agency Coverage



2003 - 2019

LInX



LInX

Welcome to the
Law Enforcement Information Exchange

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Investigative Service



Welcome

Welcome to the 2019 LInX Annual Report! This has been a year of change within the Naval Criminal Investigative Service (NCIS) and the LInX Program Office. Division Chief Kris Peterson retired from NCIS and took a position as the Director of Domestic Homeland Security at the Flagler County, FL Sheriff’s Office. For the past six years, Kris played a key role in the management and success of the LInX Program. The milestones achieved during his tenure are quite remarkable. From the number of participating agencies to the amount of data shared across the law enforcement community, Kris’ leadership was instrumental in making LInX an impactful law enforcement tool. On behalf of the LInX Team, I want to wish Kris all the best on his new adventure.

For those of you I have not met, I am Christopher Cote, the new Division Chief for the NCIS LInX Program Office. I retired from NCIS in 2017 after thirty years of service. Over the course of my NCIS career, I had the opportunity to directly manage or have LInX aligned within my portfolio of programs. I am back at NCIS as an annuitant and excited to be a part of the LInX Program once again. I look forward to working with all of you and continuing the outstanding work of Kris and the LInX team.

In addition to Kris’ retirement, the Director of NCIS, Andrew Traver, retired from government service. In June 2019, Special Agent Omar Lopez became the sixth civilian Director of NCIS. Director Lopez began his career with NCIS in 2003 and served in various leadership positions at NCIS Headquarters and field offices. Director Lopez’s guiding principles of Agility, Integration and Impact align well with the LInX Program and what we need to accomplish moving forward.

The LInX Program continues to grow in both agency participation and data contribution. The value and continued success of the program is based on the full participation of member agencies. The true power of LInX is more data being available to its users. That is why it is critical for each agency to share as much data as possible. As we enter the 17th year of the LInX Program, how we manage and leverage the data becomes more significant. The theme of this year’s annual report is “LInX and Beyond”. The concept of LInX remains the same as it has always been: to Prevent, Stop, and Solve Crimes by Sharing Information between law enforcement agencies. Identifying better ways to find and operationalize the data available to us is part of the “beyond” discussion we need to have. You will see where the LInX Program Office is working on some enhancements that will improve the ability to discover and visualize the data critical to solving and, in some cases, preventing crime. This is a challenging time in law enforcement where the demand for services is on the rise while many agencies are facing staffing and funding shortfalls. Having the ability to be more effective and efficient in the manner in which we protect and serve our communities is paramount to our continued success.



Sincerely,

Christopher W. Cote
Division Chief/Special Agent
Naval Criminal Investigative Service

Year	Records	Narratives	Mugshots
2019	1.39 BILLION	1.08 BILLION	111.7 Million
2018	1.27 Billion	992.6 Million	105.3 Million
2017	1.1 Billion	872.4 Million	96.8 Million
2016	863.1 Million	660.9 Million	72.3 Million
2015	684.8 Million	530.3 Million	64.1 Million
% Increase 2018 to 2019	9.4%	8.8%	6.1%

LInX and Beyond: Celebrating Our Successes, Strengthening our Capabilities, and Looking to the Future

Each year there are incredible achievements, once thought impossible, among such a broad and varied coalition of local, state, tribal, military and federal law enforcement. This year we are celebrating not only our tremendous growth but the opportunities to better leverage the 1.39 billion records that now flow securely amongst us. This wealth of invaluable law enforcement information inspires us to do more with the data as technological advances make it ever more possible. It is all thanks to law enforcement’s increasing embrace of an information-sharing revolution.

The Information-Sharing Revolution

The LInX/D-DEx Program delivers the flexible and evolving search and data management capabilities that law enforcement needs to fight crime and safeguard information. To continually improve the user experience, this past year we unveiled a series of enhancements available to all users including:

- A simplified neighborhood selection
- Ability to add FBI/UCN numbers and occupations to the search results view
- Warrant related filtering
- Additional agency contact fields to improve communication
- Improved auditing functionality to enhance system security
- Combined structured and free text search capabilities for more complex searches
- Convert free text results to structured results to quickly find people associated with free text searches

But we did not stop there. As we look to the future knowing many departments face the challenge of doing more with less, the LInX / D-DEx Program Management Offices, along with our partners, have continued to develop new tools to leverage the data shared in LInX. Three of these tools include new mapping capabilities, a Facial Recognition pilot and the Law Enforcement Awareness & Discovery (LEA&D) initiative.

Mapping the Future

Most of the 1.39 billion records in LInX/D-DEx have multiple locations related to the event or person and any of these can turn out to be critical to our users. A person's or event's location increasingly makes all the difference as the world gets smaller due to increased connectivity and mobility. After much technical development this year, LInX/D-DEx deployed mapping capabilities for all LInX Regions' users to assist with investigations, analysis, and officer safety. The mapping developments have provided users new ways to use the LInX system, such as in warrant searches. Users can filter information to indicate out of county warrants for a particular agency as well as warrants within their area of responsibility (AOR) depending on how they conduct the search. Filters can be



used to search for active warrants. By using the "map view" tool, selected records can be displayed on the map. The icons contain the warrant record information and also display a mugshot of the perpetrator. This search capability and visual display provides quick officer safety and awareness information. The user may not otherwise be aware the wanted subject potentially resides in his area of responsibility – especially if the warrant originated with an outside agency. Mapping also helps users find associations between people and events. This capability is useful in suspect development and identifying crime-trends, especially when they may be cross-jurisdictional. This map shows arrested individuals and their associated offenses across a large number of jurisdictions.

NCR's Facial Recognition Pilot

In the National Capital Region, local law enforcement agencies have been conducting feasibility tests of facial recognition using the LInX database of arrested individuals in the region. Test cases have included robberies, burglaries, assaults, and drug-human-firearms trafficking, among others. In all cases, evidence from surveillance video or still images have been provided by third-parties. Detectives or analysts who received special training in the comparative analysis of facial features use a facial recognition system to find investigative leads in these cases. In each case, the possible lead is provided to the investigator in charge of the case for further investigation.



The accuracy of facial recognition algorithms varies with a variety of factors. That concern is mitigated when using the technology in conjunction with a trained facial examiner who understands how to identify using morphological features of the face. With a trained facial examiner in the loop the algorithm produces a list of candidates, but the human makes the final determination using a variety of factors. So far the tests have been very positive and many success stories have been provided by the trained users.

Beyond Search with Analysis and Discovery



Another cutting-edge effort within LInX this year is the LInX / D-DEx Law Enforcement Awareness & Discovery (LEA&D) initiative. The biggest challenge to users finding what they need is the inability to find things that aren't neatly categorized consistently across such a large number of agency records management systems. LEA&D dramatically increases users' ability to do complex searches by allowing them to build and track concept searches

which can develop leads not previously possible in basic searching. Concept searches are automated searches where different terms can be mixed and matched to develop data sets containing any combination of the search terms. The concept word banks can then be saved and shared with other users, increasing the agency's ability to develop actionable leads.

In a proof of concept effort, NCIS used LEA&D to identify reports related to the Department of Defense which also contain some combination of the hundreds of mission critical crime and threat related terms and phrases contained in our concept word banks. The results, even in limited capacity, have been tremendous. In the first year, NCIS identified over 135 critical Department of Defense-related cases that had gone undetected prior to LEA&D. The cases involved insider threats, domestic violence, narcotics, terrorism and more. This capability is another exciting example of our commitment to more fully realizing the crime fighting potential that exists within LInX.

As 2019 comes to a close, the LInX/D-DEEx Program Office is taking a strategic look at our future growth and enhancements with an eye towards the most effective way to achieve our end goal of clearing cases, increasing officer safety and protecting our communities.

DoD Law Enforcement Data Exchange (D-DEEx)

The Department of Defense (DoD) designated the Department of Navy (DON), Naval Criminal Investigative Service (NCIS), as the lead component to develop D-DEEx, using the existing Law Enforcement Information Exchange (LInX) technology as the platform. All D-DEEx law enforcement member agencies not only share data within the D-DEEx community, but with all other LInX Regions and the National Data Exchange (N-DEEx) system. The technical functionality and robust information sharing go beyond traditional officer safety, public safety and investigative support capability. The partnership between the D-DEEx and LInX participants supports the National Defense Strategy, helping maintain our military advantage by protecting our nation's soldiers, sailors, marines and airmen along with their families. In addition, this partnership helps the United States military maintain the technical advantage over the others, by protecting those communities that support our military personnel, infrastructure and defense industrial base.

D-DEEx LEA&D made NCIS aware of potential insider threat incident for follow-up investigation. A report was identified where a federally contracted electronics-related company requested police assistance in escorting an employee from a secured federal facility. The report described the reason for the firing was that the employee had created a realistic video game that revealed the detailed interior of the workplace and further depicted workplace violence. It was also learned a video of the game had also been shared on YouTube.



Partnership with N-DEEx

Our LInX Regions have partnered with the Federal Bureau of Investigation (FBI) since 2010 to connect law enforcement agencies to the National Data Exchange (N-DEEx) Program. LInX staff continue to work closely with N-DEEx to ensure the system meets Criminal Justice Information Services (CJIS) Security requirements and feeds millions of law enforcement records into the national N-DEEx system. LInX users benefit by having access to additional records from N-DEEx. Working with the N-DEEx Program Office, most regions have already agreed to allow their data to be used for National Instant Criminal Background Check System (NICS) secondary searches.



Federal Agencies (FED-LInX)

2019 was a year of significant growth for the FED-LInX Region, which was originally created in 2015 to provide all federal users with a single nation-wide region. Led by the United States Marshals Service (USMS), this year the Board voted into membership the United States Government Publishing Office Police Branch (GPO), the United States Postal Inspection Service (USPIS), and most recently, the Federal Bureau of Investigation (FBI) bringing our total membership to 10 agencies. With the addition of a full time Program Manager, the FED-LInX Region has been able to expand outreach efforts and is currently in talks with several other federal law enforcement agencies about joining the region and gaining access to this critical data sharing program. Current members report great success using FED-LInX and appreciation for the partnership with local and state law enforcement.

LInX Helps Quickly Identify an Address Associated with the Suspect in the Murder of a Teenager

The United States Marshals Service (USMS) was looking for the suspect in the murder of a teenager caught in crossfire. Their suspect had been dropped off after the homicide at a massive apartment complex. A LInX search provided an incident report from Mesquite (TX) Police Department with an address that the suspect was questioned/detained at less than one month prior to the homicide. Officers went to the location provided in LInX and arrested the homicide suspect without incident. The USMS noted, "Without this database, we would still be looking for this suspect."



Prince William County Identifies a Theft Suspect Involved in Similar Incidents

A Prince William County (VA) Police Officer took a report at a large fashion retailer for the theft of over \$2,500 in bracelets. They had the suspect on video however his identity was unknown. A couple of months later, the same suspect came back to the store. A DC tag number was obtained which was then run through NCR-LInX. From LInX, the Officer found the vehicle had been used in multiple larcenies in the Northern Virginia area and in one instance, Fairfax County (VA) Police had identified him. The Officer was then able to compare the booking photos from that incident with the surveillance film and positively identify him as his suspect.



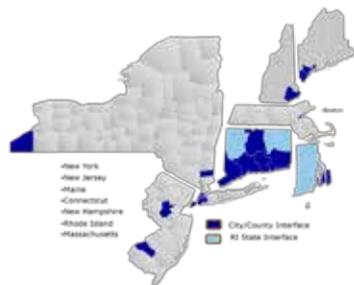
Northeast (NE-LInX)

Northeast LInX is comprised of 86 member agencies from the states of Connecticut, Rhode Island, Maine, New Hampshire, Massachusetts, New Jersey, New York and the Program has continued its expansion into the state of Pennsylvania with the addition of the Morrisville Borough Police Department. In addition, this past year the New York City Police Department, Danbury CT Police Department, East Windsor CT Police Department, Naugatuck CT Police Department, Windsor CT Police Department, and Torrington CT Police Department have signed Memorandum of Understandings (MOUs) and are currently being added to the NE-LInX Program. The Northeast LInX Agencies currently share



Virginia (VA-LInX)

The Virginia LInX Region went live in 2005 and is now sharing over 92 million records and over 11 million mugshots. Although nearly every law enforcement agency located in the region is currently a Virginia LInX member, over the past year the Program still expanded from 237 to 242 member agencies. The five additional agencies are composed of various types of law enforcement organizations throughout the Virginia LInX Region. The Virginia Marine Resource Commission Marine Police and the Hopewell VA Sheriff's Office became members this year. The Town of Gordonsville, VA Police Department, the Hampden Sydney College Police Department, and the Charlottesville Albemarle Regional Airport Police Department have signed MOUs and have been approved for membership. This continued expansion is a direct result of the well-known partnership and success of every LInX Region, D-DEx and N-DEx. Virginia LInX users are also making use of the new mapping capability which was added this year.



over 50 million records and over 2 million mugshots. Over the years the functionality of the entire LInX Program has continued to be improved and enhanced in many ways. For example, this past year a mapping capability of queried results was added.

National Capital (NCR-LInX)

LInX has become the primary 'go to' investigative tool for law enforcement in the National Capital Region (NCR) and is currently sharing over 195 million records and over 20 million mugshots. We've now had users for well over a decade and many agencies have even incorporated LInX in their Academies. In 2019, there were over 10,200 active LInX users among our 195 member agencies in DC, Maryland and Virginia. Through a Maryland State grant, we brought in 10 additional agencies this year, nearly completing the Eastern Shore of Maryland. The NCR embodies the theme, "LInX and Beyond"; we are always looking to enhance the system and experience for all users. This year, we worked closely with many agencies bringing in new or improving current data connections and we continue to work on new features and training to assist with specialized investigations, Administration, Audits, Trainer certifications and Advanced Analytics. We also entered the 2nd phase of our Facial Recognition Pilot project with enhanced access and search capabilities and development of policies and protocols that will assist in future expansion.



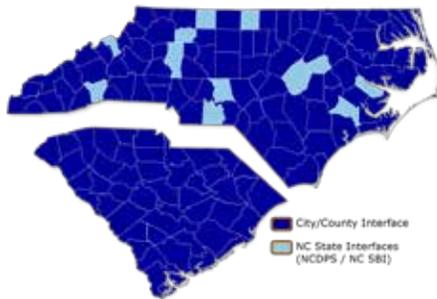
Virginia State Police Contact Provides Henrico County PD with a Current Address for a Felony Fraud Suspect

Henrico County (VA) Police obtained multiple felony charges on a transient suspect for Identity Theft and Fraud. They were unable to locate him at any of the addresses associated with their agency's local database. They later searched the suspect in LInX and found an address in Hopewell, Virginia that he had provided a Virginia State Trooper during a contact a few weeks prior to their charges. Henrico County contacted Hopewell Police who were able to successfully locate the suspect in their jurisdiction.

North – South Carolina (LInX Carolinas)

The Carolinas continue to be a major contributor to the LInX system with over 171 million event records and over 13 million mugshots. This year North Carolina brought on board the final major city police department with the addition of the Winston-Salem PD, bringing the total North Carolina membership to 305 agencies, covering over 95% of the population of North Carolina. South Carolina law enforcement agencies continue to share data and access LInX Carolinas through our connection to the South Carolina Information Exchange (SCIE).

This year has seen a renewed focus on training and providing multiple avenues to access training from in person and online classes to a partnership with the Cape Fear Community College. Recognizing the benefits of LInX as a force multiplier, lead-developer, and officer safety tool, the LInX Carolinas Board continues to work with local partner agencies, boards, and associations to secure additional funding and opportunities to incorporate LInX Carolinas into the daily operations of our law enforcement agencies.



Southeast (SE-LInX)

The Southeast Region has provided a significant contribution to the growth of LInX this past year. Currently there are 320 agencies in the SE-LInX Region that access LInX and 249 agencies contributing almost 262 million records and over 16 million mugshots to the system.

The SE-LInX Region recently added some additional agencies from the Central Florida area, including Seminole County SO, University of Central Florida PD, Orlando PD, and Orange County SO. The SE-LInX Region has continued to expand throughout the State of Georgia, has added the first three Alabama agencies, and has future plans for expansion into Louisiana and Mississippi.

Training continues to be a top priority for the SE-LInX Region and includes training for new trainers at individual agencies, specialized training for audits, system administration and security administration. This year has brought a special focus on supporting users in developing ways to use the various LInX system tools to enhance their investigative strategies.

Driver Found to Have Seven Outstanding Warrants After Initially Providing False Information on a Traffic Stop

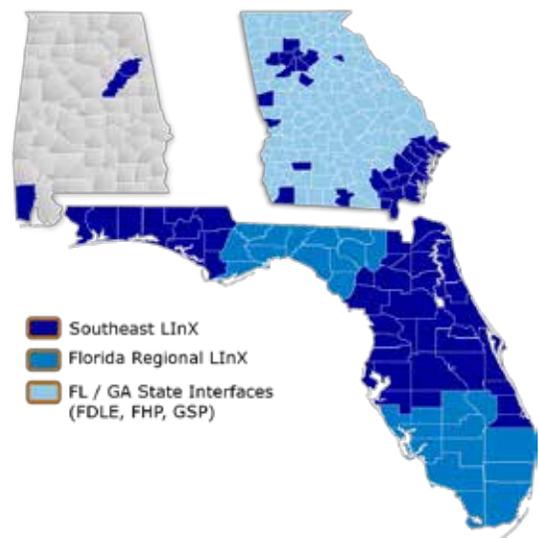
Huntersville (NC) Police Department Officers stopped a vehicle during a saturation patrol for a seatbelt violation. The driver provided a name and date of birth that did not return his information. During questioning, the driver provided a telephone number. The phone number was run through LInX and officers were able to identify the subject from a pawn record. The driver was found to have seven outstanding warrants for Larceny and Conspiracy to Commit Larceny.



Florida Regional (FLRGNL-LInX)

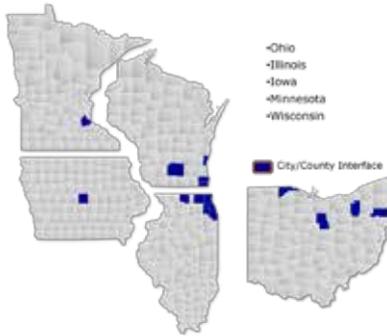
The Florida Regional LInX Program was established in 2015 when LInX was selected to replace an existing regional data sharing system that had been formed by the domestic security task forces from North, Southeast, and Southwest Florida along with statewide law enforcement. During the past year, Florida Regional has added agencies, and is planning to add a few more that have been unable to participate in the past when they implementing new records management systems. There are currently 156 agencies sharing over 187 million records and over 7.5 million mugshots in Florida Regional. When combined with the agencies in Southeast LInX, over 95% of Florida's law enforcement agencies covering more than 99% of Florida's population are participating in LInX.

In response to the tragedy at Marjory Stoneman Douglas High School, LInX is being used by the law enforcement members of school threat assessment teams that have been implemented in all Florida school districts. LInX is also a central part of Florida's unified strategy for identifying and managing all threats of targeted violence that is currently under development by Florida's law enforcement agencies.



Midwest (MW-LInX)

The Midwest Region now has the participation of 88 agencies from five states. Twenty-nine agencies have joined LInX within the past year. Those agencies were from the Midwest Region states of Illinois, Iowa, Ohio Minnesota and Wisconsin. We are also beginning to work with agencies in Tennessee. During the year, work was completed so that records from many more agencies have been integrated into LInX and are available for query. The region is now sharing over 38 million records and 7 million mugshots. New and current users have found the infusion of records to be of a significant benefit to their criminal investigations. Those records



can now be mapped as a result of the new mapping tool recently added to the resources available to LInX Midwest Region users. The Midwest Region continues to grow by means of the addition of analytical tools, collaboration of LInX users and the addition of more agencies and corresponding records.

Rocky Mountain (RM-LInX)

Records from an additional 11 agencies in the Rocky Mountain Region have now been integrated into LInX increasing this region's record sharing to over 25 million records and 100,000 mugshots.

The addition of those records now makes for a total of 26 agencies within the region from which users can obtain valuable investigative information. Availability of those records coupled with the capability to now map data gives a Rocky Mountain user even more of a phenomenal resource to investigate crimes. The Rocky Mountain LInX Region continues to integrate member data from the Colorado Information Sharing Consortium (CISC) regional data warehouse. Enhancing the resources available to LInX Rocky Mountain Region users continue to validate the significance of the LInX Rocky Mountain Region to the Department of Defense and to the law enforcement community as a whole.



Northwest (NW-LInX)

Covering the Northwest states of Washington, Oregon, Idaho and Alaska the NW-LInX Region currently has 272 members contributing almost 70 million records and over 17 million mugshots. Through an initiative started last



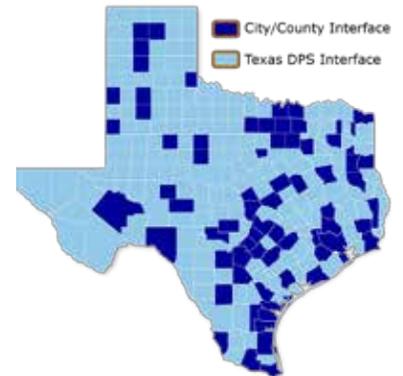
LInX "Watch List" Used to Locate a New Address for a Fatal Hit & Run Suspect

The Waukegan (IL) PD used the "Watch List" feature to track an individual involved in a fatal hit & run. Within a couple weeks of establishing the Watch in LInX, they got a hit from Chicago PD data. The information on this hit provided them with a new address which enabled them to locate him to conduct an interview.

year, the NW-LInX has added additional agencies from Idaho and is currently in the process of training and connecting the agencies' records management systems to the Northwest LInX data warehouse. Future expansion continues to be worked in Alaska and Oregon with several agencies signing MOUs after demonstrations and NCIS Northwest Field Office outreach.

Gulf Coast (GC-LInX)

The GC-LInX has 299 member agencies from Texas, contributing over 65 million event records and almost 1.5 million mugshots. Over the last year there has been a resurgence of usage of the GC-LInX system from the metro Houston, Texas area and a growing interest from agencies south of Houston to join the project. Efforts to increase membership in Texas have been ongoing throughout the year and likely to see movement in the coming year. Additionally, many thanks are extended to those users who submitted success stories throughout the year, especially those users from Houston PD and Robstown PD who consistently input much appreciated successes that have highlighted the usefulness of the LInX system in their daily work.



LInX Helps Identify the Original Purchaser of a Gun Used in a Texas Homicide

Robstown (TX) PD did a trace on a 9mm weapon involved in a quadruple homicide. The only information the trace provided RPD was the purchaser's previous address and a telephone number. The address was in Quincy, Washington and the telephone number provided was not in service. A search through LInX provided a current telephone number which led to the original purchaser, thus allowing for an interview.

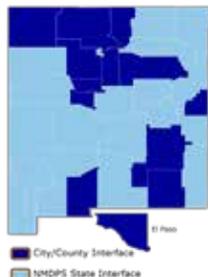
US Army Law Enforcement User Testimonial, "Single Most Useful Tool in My 32 Years of Law Enforcement"



The following testimonial was submitted on behalf of the Department of Defense Data Exchange (D-DEx) which is the LInX region for DoD Law Enforcement Agencies. "D-DEx is the single most useful tool I have utilized in my 32 years of law enforcement. Primarily working investigations for the majority of my LE career D-DEx is invaluable. To be able to rapidly search, locate and find suspects and perpetrators within minutes is a tool whose value is immeasurable to say the least. As D-DEx continues to evolve and grow and other agencies join, I have no doubt this will benefit the law enforcement community beyond belief. Thank you for all for the hard work and dedication to the profession and increasing LE's odds of solving crimes rapidly."

Rio Grande (RG-LInX)

RG-LInX has 43 member agencies in New Mexico and the area around El Paso, Texas. Since RG-LInX was initiated in 2007, this region's membership has remained consistent and is currently contributing almost 45 million event records and 2 million mugshots.



Efforts throughout the year in the RG-LInX have been focused on the importance of the current member agencies maintaining a connection to the LInX system. The advisory board engagement continues to prove to be instrumental in reaching out to those agencies needing assistance with connection issues and was significant to the success of the RG-LInX this year.

This region is now contributing almost 165 million records and 10.4 million mugshots. The new enhancements added to LInX this year have proven beneficial to the Southwest LInX users allowing them to conduct searches in more advanced ways.

Hawaii (HI-LInX)

Aloha! Hawaii LInX has been a member of the LInX community since 2005 and continues to be an important information sharing partner among the Hawaiian Islands and with the other LInX and D-DEx Regions. Although the Drug Enforcement Administration (DEA) and USMS have moved their accounts from the HI-LInX Region to the Federal LInX Region and the United States Coast Guard Investigative Service (USCGIS) moved to D-DEx, they remain valuable participants in the LInX/D-DEx program. Together with the other participants in HI-LInX Region, including the Bureau of Alcohol, Tobacco, and Firearms (ATF), Hawaii Attorney General, Hawaii County PD, Hawaii Sheriff, Honolulu PD, Kauai PD, Maui PD and the HI Narcotics Enforcement Division, they form an effective law enforcement partnership. They are currently sharing over 2.1 million event records and over 1.7 million mugshots.



Albuquerque (NM) Homicide Offender Located in Maricopa County (AZ) Jail

Albuquerque (NM) Police conducted a LInX search for a subject wanted for homicide. They found he had contact with law enforcement in 2018 in Yuma, AZ and a booking photo revealed he shaved his head and grew a beard. The Yuma County SO directed APD to an address for the subject in Phoenix. Phoenix PD detectives found that he was currently incarcerated in the Maricopa County Jail on unrelated charges. The subject was then able to be booked on the murder warrant.

Southwest LInX (CA-LInX)

Southwest LInX comprises a total of 130 agencies from California and Arizona. To date, Southwest LInX has a total of fourteen new agencies in Arizona, including but not limited to Maricopa County Sheriff, Mesa PD, Phoenix PD, and Scottsdale PD.



Hawaii State Sheriff's Department uses LInX to Locate a Wanted Felon

The Hawaii State Sheriff's Department reported that LInX provided valuable information that allowed a deputy to determine a location where a wanted felon had been involved as a complaining witness 2 weeks prior in an unrelated matter in Honolulu. Based on the information received (which was unavailable to the deputy without LInX), contact was made with a nearby building manager who informed deputies that the fugitive was visiting guests in another unit within the building. Because of the information obtained through LInX, the offender was located and arrested later that day by members of the Hawaii State Sheriff Fugitive Unit.



Law Enforcement Information Exchange



Check out the
NCIS LInX/D-DEx Website at

<http://www.ncis.navy.mil/Pages/LInX.aspx>

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