



What is Data Integration?

- ❑ Data can originate from different and multiple sources:
 - Web Record Management System (RMS) data via a web user interface
 - Local Law Enforcement Agency RMS data via a data transfer
 - Regional RMS data via a data transfer
- ❑ The source data is brought into a centralized process that transforms the different formats into one common and integrated format by applying:
 - Common definitions
 - Common codes
 - Common rules
- ❑ The common format or integrated data is stored in a centralized repository or database.
- ❑ User interfaces can also access the integrated data after the transformation process:
 - Queries
 - Reporting
 - Analysis
- ❑ Analytical and investigative tools can be used for crime solving, investigations, crime statistics and other uses.
- ❑ The integrated data is contributed by and accessible to authorized users.
- ❑ Industry standards and technology used to retrieve, transform, store, access and share the integrated data allows for alignment with other information system programs:
 - Crime Reporting (UCR)
 - N-DEx

Current State of Crime Data Integration In North Carolina

- *Some* NC Local Law Enforcement agencies share local data on a limited basis as part of the UCR program
- Currently, there is no solution available that collects and integrates statewide incident level crime data
- UCR data is the closest thing to statewide reporting but has is shortcomings:
 - Various levels (summary and incident)
 - Various formats (paper and electronic files)
 - Monthly – not often enough
 - Data is provided by various RMS vendors with varying coding rules
 - Data is coded differently (Burglary can be “BURG” or “BURGLARY”)
 - Some agencies don’t report at all
- Currently, there is no completely automated solution without program or manual intervention with the data
- Data collected today is primarily used for statistical reporting purposes
- Data is not detail or consistent enough for investigative or crime analysis purposes

Data Integration for North Carolina

The goal is to.....

- Collect incident data that represents all of North Carolina without negatively impacting law enforcement
- “Normalize” or standardize data that will meet state and national requirements
- Ensure that contributing law enforcement agencies will continue to have control of their own data
- Include a technical solution for small/rural agencies that currently don’t have a method to share their data; or need an alternative to what they are currently using (provided at low or no cost)
- Provide law enforcement with the tools needed to prevent and solve crime
- Develop an application that provides reliable data that can be used for meaningful and state of the art Uniform Crime Reporting (UCR)
- Construct a maintenance and support model which keeps costs manageable
- Design a technical approach that integrates well with regional sharing solutions
- Structure the state’s solution to integrate with the federal repository (N-DEx)
- Implement a framework that can accommodate future growth
- Position North Carolina to take advantage of current and future opportunities
- Interface with, not replace, local or regional solutions that are working
- Provide a single location where agencies can go to retrieve jail and incident data

Data Integration for North Carolina

What North Carolina DOJ plans to do to get there

- Adopt an approach that will allow North Carolina to take advantage of what others have done (Project team plans to build on the LEADR solution developed for the National Institute of Justice)
- Team up with local, state and federal agencies to ensure that North Carolina can “connect the dots” as well leverage what we can accomplish as a group
- Assemble a core team to lead and have ownership of implementation of state’s solution; so as not to be tied to any one vendor in the long term
- Ensure that there is a funding strategy in place that will support the completion of the project as well as maintain the final product once in production
- Benefit from everyone bringing to the table their experience and knowledge
- Ensure that our data integration requirements are incorporated into what other projects are doing, to take advantage of gains made by those other project efforts
- Break project into smaller, more manageable deliverables to lower risk and show return on investment early in the development lifecycle