Data Sharing Interoperability

CTS America’s SmartSHARE application features unique capabilities and attributes that make interoperability a simple and cost-effective possibility, regardless of technology infrastructure. Our added features further protect the agency from performance degradation due to data sharing activities. Real-time data sharing is facilitated while conforming to all federal and state privacy safeguards.

Data Exchange System
In 2001, the U.S. Department of Justice (DOJ) along with the U.S. Office Justice Programs (OJP) devised a framework in which varied law enforcement and public safety agencies could exchange information at all levels, regardless of their technology infrastructure. The outcome of the endeavor is an XML-based standard language specifically designed for criminal justice information exchanges known as the Global Justice XML Data Model (Global JXDM). The Global JXDM is a comprehensive framework that includes a Data Model, a Data Dictionary, and an XML schema. CTS has embraced this common language and it is the backbone of the message format used by the SmartSHARE application.

Features
- NIEM (National Information Exchange Model) compliant
- 128-bit SSL Encryption end-to-end
- Secure password management
- Real-time data sharing participation by state and federal agencies
- Inexpensive universal access for investigators via internet browser
- Central “query engine” provides intelligence analysis and case management tools to investigators
- Access RMS databases at municipal and county law enforcement agencies
- Microsoft® Windows®-based solution
How SmartSHARE Works

The core ideology of the SmartSHARE application is the separation between the message handler (Web Service Server) and the back-end data source (i.e., MS SQL, Oracle, DB2). This ideology drives the SmartSHARE system architecture and in turn allows the agency’s current data source infrastructure to be utilized. SmartSHARE utilizes Microsoft’s Web Service technologies to query disparate Records Management System, regardless of RMS vendor, to gain the desired real-time information. Queries are performed simultaneously across geographical boundaries and presented to the user in an organized manner so that pertinent information is brought to the forefront. The information gained from the SmartSHARE queries are never retained outside of their originating data source in order to maintain data integrity and positive control of agency information.

How SmartSHARE Helps

The core technology is based on Web Services and the Global Justice XML data model. Web Services technologies is widely accepted as being the most efficient, universal, and secure data exchange protocol available today. The published DOJ standard for criminal justice data element definition is Justice XML. Combined, these two standards provide a solid platform for SmartSHARE. CTS America’s added features further protect the agency system from performance degradation due to data sharing activities. Additional controls are provided to ensure that the individual agency is in control of the specific data they want to share, and with whom they want to share it. Real-time data sharing is facilitated while conforming to all applicable federal and state privacy safeguards.