



Global Justice XML Data Model



Executive Overview

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A strategic goal of the Office of Justice Programs (OJP) and the Global Justice Information Sharing Initiative (Global) is to help justice leaders and practitioners increase information sharing across the justice and public safety communities—at all levels of government—to improve public safety for America’s citizens and to increase our homeland security.

The best way to accomplish this is to improve the effectiveness of justice and public safety functions by applying information technologies to facilitate the exchange of information. Extensible Markup Language (XML) is a technology created for this purpose.

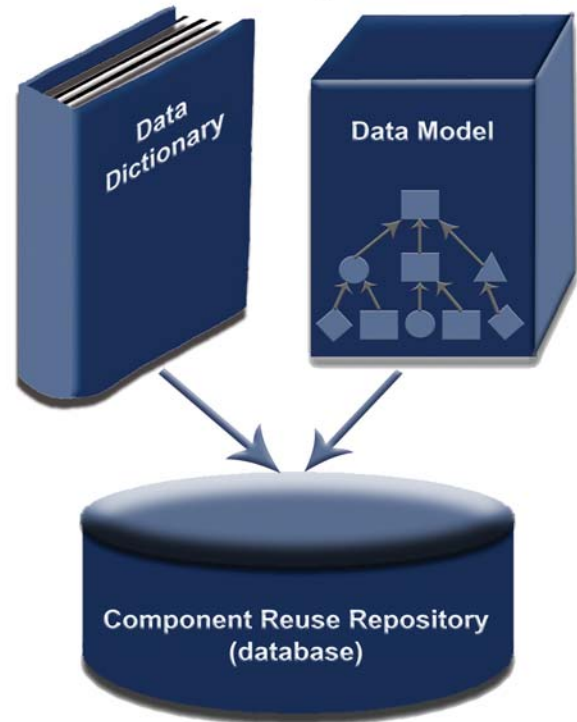
XML is generally recognized as an enabler for increasing the sharing of information and has emerged as a key technology for assisting commercial and government organizations in exchanging information and conducting business over the Internet and intranets. XML is the “glue” that promotes interoperability—it allows systems being developed to communicate with each other and paves the way for future expanded collaboration between agencies.

For the past three years, OJP—with advice from Global and support from the U.S. Department of Commerce, National Telecommunications and Information Administration (NTIA), and the Georgia Tech Research Institute (GTRI)—has collected justice and public safety information requirements from various local and state governmental sources. To date, approximately 16,000 data elements have been collected from 30 unique local and state governmental sources to develop the Global Justice XML Data Model (Global JXDM). These data elements were analyzed and integrated to produce 2,750 reusable components (550 types and 2,200 properties) that have inherent qualities enabling access from multiple sources and reuse in multiple applications. The vision was to significantly advance justice information sharing by providing a common language and vocabulary that reduce costs and technical barriers through the analysis of functional requirements. In addition, the standardization of the core components results in significant potential for increased interoperability among and between justice and public safety information systems.

There are three primary components to the Global JXDM:

COMPONENTS OF THE GLOBAL JXDM

domain content **generic concept**



the data dictionary (identifying content and meaning), the data model (defining structure and organization), and the component reuse repository (database). The Global JXDM, Version 3.0, and other supporting tools and resources were developed to facilitate implementation by system developers and users, and the most current resources are posted on the OJP Information Technology Initiatives Web site.

Since its creation, more than 50 law enforcement and justice-related projects have been implemented using the Global JXDM, and hundreds of users and developers have received training. As it continues to evolve, the Global JXDM will remove the burden from agencies to independently create document and exchange standards, while achieving enhanced interoperability and broadscale endorsement by justice practitioners.

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