



Technology Area

DEFINITION

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<i>Name</i>	Data Standards
<i>Description</i>	<p>Data Standards are established rules, principles, or measures that are widely used and are recognized and accepted as having permanent value. They may be developed through either the individual efforts of a select committee, the collective work of the respective industry, or they may be officially recognized national or international standards. They may also be accepted as a de facto standard.</p> <p>The goal of a data standard is to enable the sharing or exchange of information between multiple parties in a way that guarantees that the interactive parties share the same understanding of what is represented within that information.</p>
<i>Rationale</i>	<p>Standards are necessary for interoperability, portability, and reusability. The adoption of data standards will facilitate and enhance data sharing, analysis and comparability across functional, jurisdictional, or geographical boundaries. Currently, analysis that goes beyond traditional program area boundaries can be time consuming, cumbersome and a significant manual effort. This is due to the multiple definitions and identifiers currently in use.</p> <p>A key component of effective information management is standards adoption, an ongoing process of managing information as a valuable resource. Data / Information standardization strategies have been identified as having direct bearing on the ability to federalize, integrate, evaluate, and manage the overall costs of developing and operating information systems.</p> <p>Access to state, regional, and local applications and databases is expanding beyond traditional participants and jurisdictions which necessitates effective methods (standards) of ensuring accurate identification of participants, appropriate communication and accountability for access, data integrity and confidentiality. The adoption of data standards will:</p> <ul style="list-style-type: none"> • support the effective management of information which is a critical component of the State's enterprise architecture strategy; • facilitate and enhance data sharing, analysis and comparability across functional, jurisdictional or geographical boundaries; • support the implementation of applications used throughout the state that require accurate, complete and current data for authentication, communication and accountability purposes.

<i>Benefits</i>	<p>The benefits of data standards are:</p> <ul style="list-style-type: none"> • to reduce the costs of maintaining information systems by providing consistency, reducing the need for translation and interface routines between legacy systems and emerging data warehouses/repositories, and enabling the electronic transfer of data between users • to support the creation of data systems so that users can be provided accurate data, based on complete information and access, as quickly and efficiently as possible • to provide consistent information to consultants and developers creating application software • to provide appropriate data owners and their database administrators the opportunity to view and update their own records based on these standards <p>The underlying objectives of the Data Standard technology area are:</p> <ul style="list-style-type: none"> • to achieve a statewide standard for the definition of certain database data elements, particularly addresses, citizen information, geographic codes, and other coding schemas, that can be endorsed by the Information Domain and Architecture Review Committee, and communicated to all creators of data for the states information systems • to utilize an existing published standard if at all possible, without compromising the information management requirements of data stakeholders • to develop a standard that will be widely adopted, and therefore, maximize the anticipated benefits • to prepare for the development of Electronic Message Standards related to the transmission of these data • to aid in the development of robust repositories of data for the successful implementation of systems that are intended to provide data and information to individual citizens throughout and across the state
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ASSOCIATED ARCHITECTURE LEVELS

<i>Specify the Domain Name</i>	Information
<i>Specify the Discipline Name</i>	Data Management

KEYWORDS

<i>List Keywords</i>	Standards, data, address, date, time, phone number, administrative units, census geography, code, coding, North American Industry Classification System (NAICS), land cover, land use, wetlands, watersheds, stream classification,
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ASSOCIATED COMPLIANCE COMPONENTS

<i>List the Compliance Component Names</i>	Address Standard Language Standard Race and Gender Standard Date Standard Time Stamp Standard Phone Number Standard Social Security Number Standard
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	Name Standard Unique Identifier Standards Missouri Administrative Unit / Geographic Unit Standards North American Industry Classification System (NAICS) Standards Natural Resources Classification Standards Standard Abbreviations Weights and Measures Standards		
ASSOCIATED PRODUCT COMPONENTS			
<i>List the Product Component Names</i>	Address Standard Language Standard Race and Gender Standard Date Standard Time Stamp Standard Phone Number Standard Social Security Number Standard Name Standard Unique Identifier Standards Missouri Administrative Unit / Geographic Unit Standards North American Industry Classification System (NAICS) Standards Natural Resources Classification Standards Standard Abbreviations Weights and Measures Standards		
CURRENT STATUS			
<i>Provide the Current Status</i>	<input type="checkbox"/> <i>In Development</i>	<input type="checkbox"/> <i>Under Review</i>	<input checked="" type="checkbox"/> <i>Approved</i> <input type="checkbox"/> <i>Rejected</i>
AUDIT TRAIL			
<i>Creation Date</i>	05-19-04	<i>Date Approved / Rejected</i>	06-08-04
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>		<i>Last Date Updated</i>	
<i>Reason for Update</i>			