



COMPLIANCE COMPONENT

DEFINITION	
<i>Name</i>	Batch Process Data Transfer
<i>Description</i>	Batch Process Data Transfer allows the transfer of high volumes of data or business transactions without human intervention, often across different platforms and systems. Depending on the requirements, Batch data transfer often incorporates additional functionality such as conversion of data, data compression, encryption / secure transfer, distribution of files and file replication and backup.
<i>Rationale</i>	State of Missouri agencies have a necessity to process high volumes of data not suited for interactive processing. Agencies must take advantage of hardware and network resources at non-peak times to maximize the use of these resources for interactive transactions during the day. As agencies expand the sharing of data across disparate platforms, operating systems and database management systems, reliable batch data transfer processes become indispensable.
<i>Benefits</i>	<ul style="list-style-type: none"> • Data can be transferred off-line in unattended mode, significantly reducing processing time and expense. • Data can be transferred in a secure mode among different platforms and systems. • High volumes of data can easily be moved for many different functions. • Can be time-driven or process-driven. • Processes can be set up to run with same programs and same parameters, ensuring data integrity and consistency.
ASSOCIATED ARCHITECTURE LEVELS	
<i>Specify the Domain Name</i>	Interoperability
<i>Specify the Discipline Name</i>	Data Exchange
<i>Specify the Technology Area Name</i>	Data Exchange Software / Utilities
<i>Specify the Product Component Name</i>	
COMPLIANCE COMPONENT TYPE	
<i>Document the Compliance Component Type</i>	Guideline.
<i>Component Sub-type</i>	
COMPLIANCE DETAIL	
<i>State the Guideline, Standard or Legislation</i>	<p>Batch Process Data Transfer</p> <p>Batch process data transfer is used for the bulk upload/download of data, file import/export, file backup and replication and other essential business processes where high volumes of data are required to be moved within or across different applications, systems, platforms, etc.</p> <p>Another application for batch data transfer is ETL which stands for extract, transform and load, the processes that enable companies to move data from multiple sources, reformat and cleanse it and load it into another database, data</p>

mart or data warehouse for subsequent support of a business process or use on another operational system.

Many batch transfers include compression of data to reduce transfer time, encryption of data to allow secure transfer and conversion of data to accommodate multiple formats and database management systems. Many transfer attributes such as email addresses, server, directory and file names can be dynamically overridden at runtime if required.

Most batch transfers include the ability to do a full or incremental transfer depending on the application needs. File archiving and logging are also typically included to backup and track files sent, time stamps and success / failure messages.

Business functions that fall into one of the following scenarios may be candidates for batch process data transfers:

- Not required to be triggered or processed in real-time.
- High volume, involving thousands, hundreds of thousands or millions of data rows or transactions.
- Computationally expensive and this cost should not be included as part of the on-line application.
- Unable to be triggered by a particular user action as the data is incomplete, but data stabilizes after the fact or after another business process occurs.
- Triggered by a high-level overarching business or time-based event.

Document Source Reference #

Compliance Sources

<i>Name</i>		<i>Website</i>	
<i>Contact Information</i>			
<i>Name</i>		<i>Website</i>	
<i>Contact Information</i>			

KEYWORDS

List Keywords Batch Processing, Data Transfer

COMPONENT CLASSIFICATION

Provide the Classification *Emerging* *Current* *Twilight* *Sunset*

Sunset Date

COMPONENT SUB-CLASSIFICATION

Sub-Classification	Date	Additional Sub-Classification Information
<input type="checkbox"/> <i>Technology Watch</i>		
<input type="checkbox"/> <i>Variance</i>		
<input type="checkbox"/> <i>Conditional Use</i>		

Rationale for Component Classification			
<i>Document the Rationale for Component Classification</i>			
Migration Strategy			
<i>Document the Migration Strategy</i>			
Impact Position Statement			
<i>Document the Position Statement on Impact</i>			
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>	5/18/2005	<i>Date Approved / Rejected</i>	10/11/05
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>		<i>Last Date Updated</i>	
<i>Reason for Update</i>			