



TECHNOLOGY AREA

DEFINITION	
<i>Name</i>	Message Oriented Middleware (MOM)
<i>Description</i>	<p>Message-oriented middleware (MOM) is a software infrastructure that resides in both portions of a client/server architecture and typically supports asynchronous calls between the client and server applications. Application Programming Interfaces (APIs) that extend across diverse platforms and networks are typically provided by the MOM.</p> <p>MOM increases the flexibility of an architecture by enabling applications to exchange messages with other programs without having to know what platform or processor the other application resides on within the network. The aforementioned messages can contain formatted data, requests for action, or both. Nominally, MOM systems provide a message queue between interoperating processes, so if the destination process is busy, the message is held in a temporary storage location until it can be processed. MOM is typically asynchronous and peer-to-peer, but most implementations support synchronous message passing as well.</p>
<i>Rationale</i>	Missouri has an increasing need to electronically communicate across agencies and to provide state services in a more efficient and simplified manner to its citizens. Message Oriented Middleware enables the state to retain its investments in existing legacy systems, and provides the ability to create a consistent set of platform-independent interfaces that handle common services necessary for multiple systems to work together.
<i>Benefits</i>	<ul style="list-style-type: none"> • Increases the interoperability, portability, and flexibility of an application by allowing the application to be distributed over multiple heterogeneous platforms. • Reduces the complexity of developing applications that span multiple operating systems and network protocols by insulating the application developer from the details of the various operating system and network interfaces.
ASSOCIATED ARCHITECTURE LEVELS	
<i>Specify the Domain Name</i>	Interoperability
<i>Specify the Discipline Name</i>	Application Interoperability
KEYWORDS	
<i>List Keywords</i>	Message Oriented Middleware, API
ASSOCIATED COMPLIANCE COMPONENTS	
<i>List the Compliance Component Names</i>	MOM Guidelines
ASSOCIATED PRODUCT COMPONENTS	
<i>List the Product Component Names</i>	MSMQ, IBM Websphere MQ
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>	06/22/05
<i>Date Approved / Rejected</i>	11/10/05

<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>		<i>Last Date Updated</i>	
<i>Reason for Update</i>			