



PRODUCT COMPONENT

DEFINITION			
<i>Name</i>	Microsoft Message Queuing Services (MSMQ)		
<i>Description</i>	<p>Microsoft Message Queuing Services (MSMQ) enables applications running at different times to communicate across heterogeneous networks and systems that may be temporarily offline. As such, it allows many ways of sending and receiving messages.</p> <p>MSMQ is evolving into Message Queuing (code named "MSMQ-T"), a feature in Microsoft BizTalk® Server 2004. BizTalk Server 2004 includes Message Queuing, an adapter for MSMQ that enables high-performance interoperability between MSMQ applications and BizTalk Server. "Message Queuing" refers to this adapter, not a general-purpose reliable messaging technology.</p> <p>Message Queuing is used to integrate an MSMQ application with BizTalk Server 2004. For example, if an integration application uses BizTalk Server to orchestrate incoming Web services requests with an existing MSMQ application, BizTalk Server is leveraged for format and transport modification.</p>		
<i>Rationale</i>	<p>Many distributed applications need the ability to handle delays between a request and a response. This is because all the steps in a distributed application process may not need to be, or cannot be, completed at one time. Message queuing allows applications to use components that communicate with one another using queued messages. Like e-mail messages that sit in an inbox, messages can exist on dissimilar systems that may not even be directly connected to each another. Message queuing therefore provides Missouri agencies with a viable mechanism for communicating across disparate applications in an offline mode.</p>		
<i>Benefits</i>	<ul style="list-style-type: none"> • Enables applications running at different times to communicate across heterogeneous networks and systems that may be temporarily offline. • Provides guaranteed message delivery, efficient routing, security, and priority-based messaging. 		
ASSOCIATED ARCHITECTURE LEVELS			
<i>Specify the Domain Name</i>	Interoperability		
<i>Specify the Discipline Name</i>	Application Interoperability		
<i>Specify the name of the associated Technology Area</i>	Message Oriented Middleware		
KEYWORDS			
<i>List Keywords</i>	Messaging, message queue, queuing		
VENDOR INFORMATION			
<i>Vendor Name</i>	Microsoft	<i>Website</i>	www.microsoft.com
<i>Contact Information</i>	See Web site.		

POTENTIAL COMPLIANCE SOURCES			
<i>Name</i>	MSMQ Best Practices	<i>Website</i>	http://www.microsoft.com/windows2000/technologies/communications/msmq/wp_bestpractices.asp
<i>Contact Information</i>	See Web site.		
<i>Name</i>		<i>Website</i>	
<i>Contact Information</i>			
COMPONENT REVIEW			
<i>List Desirable aspects</i>	<ul style="list-style-type: none"> • Can be used to implement solutions to both asynchronous and synchronous scenarios requiring high performance. • Applications can be developed using C++ application programming interfaces (APIs) or Component Object Model (COM) objects, and applications can be built in any of the popular development environments, for example, Microsoft Visual Basic®, Visual Basic Scripting Edition, Visual C++®, Visual Studio® .NET, Borland Delphi, and Powersoft Powerbuilder. This allows applications to be developed for the Internet as well, including both server-side, such as Internet Information Server, and client-side, such as Internet Explorer, applications. • The .NET Framework offers a set of managed Message Queuing objects. <p>When to use MSMQ:</p> <ul style="list-style-type: none"> • When you have disconnected users • When guaranteed delivery is important • When you need concurrent execution • When you need to log activity 		
<i>List Undesirable aspects</i>	<ul style="list-style-type: none"> • MSMQ is a Windows-only Messaging product. • It doesn't have any native support for JMS (Java Messaging Service) and you would need a JMS-Bridge to get JMS Clients to communicate with the MSMQ broker. • Using MSMQ or MQ Series may impede reusability. 		
<i>Operating System</i>	MS Products	<i>Platform</i>	
ASSOCIATED COMPLIANCE COMPONENTS			
Product			
<i>List the Product-specific Compliance Component Names</i>	N/A		
Configuration Links			
<i>List the Configuration-specific Compliance Component Names</i>	N/A		
COMPONENT CLASSIFICATION			
<i>Provide the Classification</i>	<input type="checkbox"/> <i>Emerging</i>	<input checked="" type="checkbox"/> <i>Current</i>	<input type="checkbox"/> <i>Twilight</i> <input type="checkbox"/> <i>Sunset</i>
<i>Sunset Date</i>			

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>			
AGENCIES			
<i>List the Agencies Currently Utilizing this Product</i>	DMH		
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>	10/11/05
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>		<i>Last Date Updated</i>	
<i>Reason for Update</i>			