



Compliance Component

DEFINITION

<i>Name</i>	E-mail Protocols
<i>Description</i>	<p>E-mail protocols govern the rules for the routing, transport, handling, storage and retrieval of e-mail messages. A variety of protocols are available that allow mail clients and mail servers to exchange information with each other. This compliance component defines the recommended protocols and their usage. All of the protocols referenced are Internet standards.</p> <p>These protocols all have the same basic pattern:</p> <ul style="list-style-type: none"> • Begin a conversation – your computer (MUA) starts a conversation with another computer (MTA) • Hold a conversation – During the conversation, commands are sent and acknowledged. The server typically acknowledges a command with some sort of code (number) which may be further qualified with text commands. The code indicates if the command has been successful or if some error has occurred. • End a conversation – The conversation is terminated.
<i>Rationale</i>	Without use of open standards e-mail protocols, a barrier in communications is created between e-mail systems. Prevents reliance on proprietary protocols or products.
<i>Benefits</i>	<ul style="list-style-type: none"> • Efficiency of communications. • Communications with the citizens of the state. • Eliminates the need for gateways between e-mail systems.

ASSOCIATED ARCHITECTURE LEVELS

<i>Specify the Domain Name</i>	Application
<i>Specify the Discipline Name</i>	Electronic Collaboration
<i>Specify the Technology Area Name</i>	E-mail Architecture
<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><u>Simple Mail Transport Protocol (SMTP)</u> <i>Definition</i> The Simple Mail Transfer Protocol (SMTP) is the most widely used protocol to send messages by Message Transfer Agents (MTA) on the Internet. The protocol is defined in the RFC 821 and RFC 1123, and was</p>
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designed to transfer mail independently of any specific transmission subsystem.

Usage

Simple Mail Transport Protocol (SMTP) is the standard transport protocol for sending messages from one MTA to another MTA over the Internet. Using MIME encoding, it enables the transfer of text, video, multimedia, images, and audio attachments.

Multi-purpose Internet Mail Extensions (MIME)

Definition

The Multipurpose Internet Mail Extension (MIME) protocol was developed to define a method of moving binary files through existing e-mail gateways. The default protocol for standard text messages is defined in RFC 822, and is widely used on the Internet. These messages are sent via the de facto mail transfer protocol, SMTP, defined in RFC 821.

Usage

Multi-purpose Internet Mail Extensions (MIME), a SMTP message structure, is the standard specification for the attachment of binary files.

Post Office Protocol 3 (POP3)

Definition

The Post Office Protocol, version 3 (POP3) is a commonly used protocol for retrieving e-mail messages on the Internet. POP3 is a standard client-server protocol for receiving emails. The technical specifications can be found in RFC 1225. Because POP3 transmits clear text passwords, it is slowly being superseded by IMAP4.

Usage

The Post Office Protocol, version 3 (POP3) is a commonly used protocol for retrieving e-mail messages on the Internet. POP3 is a standard client-server protocol for receiving e-mails. POP3 is best suited to someone who only ever needs to access their email from their own computer.

Internet Message Access Protocol 4 (IMAP4)

Definition

The Internet Message Access Protocol 4 (IMAP4) was designed as a superset of POP3, and enhances both message retrieval and management as well as resolves many of the limitations of POP3 (e.g., password protection). The base IMAP specification is defined in RFC 2060.

Usage

Internet Message Access Protocol version 4 (IMAP4) is the standard protocol for access to e-mail servers. IMAP4 is most suited to people who want to access their e-mail from several locations, e.g. at their office and from a PC at home. IMAP4 provides users the option of storing and manipulating messages on the mail server, which is important for job functions that require the user to access mail from several different clients.

<i>Document Source Reference #</i>	SMTP: RFC 821 - http://www.ietf.org/rfc/rfc0821.txt SMTP: RFC 1123 - http://www.ietf.org/rfc/rfc1123.txt MIME: RFC 822 - http://www.ietf.org/rfc/rfc822.txt POP3: RFC 1225 - http://www.ietf.org/rfc/rfc1225.txt IMAP4: RFC 2060 - http://www.ietf.org/rfc/rfc2060.txt		
Compliance Sources			
<i>Name</i>	Internet Engineering Task Force (IETF)	<i>Website</i>	http://www.ietf.org/
<i>Contact Information</i>	ietf-web@ietf.org		
<i>Name</i>		<i>Website</i>	
<i>Contact Information</i>			
KEYWORDS			
<i>List Keywords</i>	SMTP, MIME, POP, POP3, IMAP, IMAP4, RFC, Post Office, MTA, MUA, remote, Internet		
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>			
CURRENT STATUS			
<i>Provide the Current Status</i>	<input type="checkbox"/> <i>In Development</i> <input checked="" type="checkbox"/> <i>Under Review</i> <input type="checkbox"/> <i>Approved</i> <input type="checkbox"/> <i>Rejected</i>		
AUDIT TRAIL			
<i>Creation Date</i>	8/19/2003	<i>Date Approved / Rejected</i>	
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>		<i>Last Date Updated</i>	
<i>Reason for Update</i>			