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IBM.	Lotus Software Knowledge Base Technote	Lotus. software
Title:	Enabling TLS/SSL for SMTP	
Product:	Lotus Domino > Lotus Domino Server > Versions 8.5, 8.0, 7.0, 6.5, 6.0	
Platform(s):	AIX, i5/OS, Linux, Linux iSeries, Linux zSeries, Solaris, Windows, z/OS	
Edition(s):	Advanced, Enterprise, Standard	
Date:	07/08/2008	
Doc Number:	New	

Abstract

This tech note covers setting up TLS/SSL for SMTP on your Domino server. **Content**

To provide SSL security for SMTP transfers over TCP/IP, IBM® Lotus® Domino[™] supports the use of negotiated SSL. In a negotiated SSL scheme, the sending and receiving hosts each use the SMTP STARTTLS extension, defined in RFC 2487, to signal their readiness to negotiate an SSL connection. The receiving server displays the STARTTLS keyword in response to the sending server's EHLO command. The sending server issues the STARTTLS command to request the creation of a secure connection. After the initial TLS handshake completes successfully, the two parties proceed to set up an SSL channel between them. Both the sending and receiving server must possess SSL certificates.

Note: Port 465 is no longer registered as SMTP-SSL. It has been deprecated in favor of TLS/SSL over port 25. For more information see:

http://www.iana.org/assignments/port-numbers

For more information on obtaining server certificates, see the topic Setting up SSL on a Domino server.

 $http://www-12.lotus.com/ldd/doc/domino_notes/6.5.1/help65_admin.nsf/f4b82fbb75e942a6852566ac0037f284/399db2be0c0ce2eb85256dff004b312c?OpenDocument$

Supporting STARTTLS for outbound SMTP sessions

A Domino server configured to use negotiated SSL for outbound mail connects to the receiving server's SMTP TCP/IP port (port 25 by default). If the initial SMTP response from the receiving server indicates that it supports the STARTTLS extension, Domino issues the STARTTLS command to request the use of SSL to encrypt the rest of the session.

If the receiving server did not advertise support for STARTTLS in response to the Domino server's EHLO command, the sending Domino server continues with an unencrypted SMTP TCP/IP session.

To enable outbound STARTTLS support, set the SMTP outbound TCP/IP port status to: Negotiated SSL.

http://www-12.lotus.com/ldd/doc/domino_notes/6.5.1/help65_admin.nsf/f4b82fbb75e942a6852566ac0037f284/3730ca0f6302df2c85256dff004b1f3d?OpenDocu_ment_

Web Directory Mail	DIIOP Remote Debug	g Manager Server Controller		
Mail	Mail (IMAP)	Mail (POP)	Mail (SMTP Inbound)	Mail (SMTP Outbound)
TCP/IP port number:	143	110	25	25
TCP/IP port status:	Enabled	Enabled	Enabled	Negotiated SSL
Enforce server access settings:	Yes	Yes	No	N/A
Authentication options:				
Name & password:	Yes	Yes	No	N/A
Anonymous:	N/A	N/A	Yes	N/A
SSL port number:	993	995	465	465
SSL port status:	Disabled	Disabled	Enabled	Disabled
Authentication options:				
Client certificate:	No	No	N/A	N/A
Name & password:	Yes	Yes	No	N/A
Anonymous:	N/A	N/A	Yes	N/A

Supporting STARTTLS for inbound SMTP sessions

You can configure Domino to support the STARTTLS command for inbound SMTP transactions. When a Domino SMTP server is set to use negotiated SSL for inbound sessions, the server advertises support for STARTTLS in response to EHLO commands the TCP/IP port receives from connecting hosts. A connecting host can then issue the STARTTLS command to request an encrypted session.

If Domino is configured to require STARTTLS for SMTP sessions over TCP/IP and a connecting host cannot meet this demand, no mail is sent over the connection.

To enable inbound STARTTLS support:

Enable the SMTP listener task.

 $http://www.codestore.net/help/help6_admin.nsf/b3266a3c17f9bb7085256b870069c0a9/059f91a614a2f9a885256c1d00395447?OpenDocument the start of the star$

• Enable the SMTP inbound TCP/IP port.

 $http://www.codestore.net/help/help6_admin.nsf/f4b82fbb75e942a6852566ac0037f284/15bf31c241ebdbe585256c1d00395b14?OpenDocument the state of the stat$

• Enable the STARTTLS ESMTP extension. This causes Domino to advertise STARTTLS as one of its supported extensions in the ESMTP EHLO greeting response.

 $http://www-12.lotus.com/ldd/doc/domino_notes/6.5.1/help65_admin.nsf/b3266a3c17f9bb7085256b870069c0a9/24ea7d6c3dfbcfa185256dff004b1fe3?OpenDocument$

Basics Security Client	Upgrade Router/SMTP MIME NOTES.INI	Settings Domino Web A	ccess IMAP SNMP Activity Lo				
Basics Restrictions and Controls Message Disclaimers Message Tracking Message Recall Advanced							
Journaling Commands and Extensions Controls							
Inbound SMTP Com	mands and Extensions	Outbound SMTP Cor	nmands and Extensions				
<u>SIZE extension:</u>	Enabled	SIZE extension:	Enabled				
Pipelining extension:	Enabled	Pipelining extension:	Enabled				
DSN extension:	Enabled	DSN extension:	Enabled				
8 bit MIME extension:	Enabled	8 bit MIME extension:	Enabled				
HELP command:	Disabled						
VRFY command:	Disabled						
EXPN command:	Disabled						
ETRN command:	Disabled						
SSL negotiated over TCP/IP port:	Enabled						

Note: Setting the SSL negotiated over TCP/IP port to required would force any sending server to use only TLS/SSL. It is suggested to set this setting to Enabled. This feature may not be enabled on sending servers and could result in a loss of incoming mail to your Domino server.

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