



Secure Electronic Environment (S.E.E.) Mail

TESTS

20th February 2002

Version 2.0

This document describes the S.E.E Mail tests necessary for Site Certification and Vendor/Product Accreditation.

Key S.E.E. Mail documents:

- Definitions
- Business Requirements
- Site Certification process
- Product/Supplier Accreditation Process
- Tests (this document)

Refer to www.see.govt.nz for further information regarding the Secure Electronic Environment (S.E.E.).

Throughout this document the terms "[S**MAIL]" and "[XS**MAIL]" are used. This enables the document to be e-mailed from a S.E.E. Participating Agency to any other organisation. Before using this document "***" should be globally replaced with "EE".

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TESTING INFORMATION

Introduction

This document describes the objective and provides the testing scripts necessary for a Candidate to demonstrate that their system configuration meets the S.E.E. Mail Business Requirements.

Objective

To demonstrate that the system submitted for testing will:

- Provide a trusted environment in which Participating Agencies can confidently transmit information classified up to 'SENSITIVE' classification (or its equivalent), by email.
- Interoperate as expected with all other "S**MAIL" Participating Agencies .
- Interoperate as expected with "XS**MAIL" External Agencies.

Implementation

Testing requires at least two implementations of S.E.E. Mail (the Candidate's implementation and one other) to carry out the tests. At various points of the Site Certification process the implementations may be, at the S.E.E. Manager's direction, one or more of:

- An Implementation of Accredited Software designated by the S.E.E. Manager as a Reference Test Server for a particular instance of the Site Certification process, and/or
- Two implementations of the proposed software implemented by the Candidate and/or
- Implementations of Accredited Software in Participating Agencies or elsewhere that have been designated by the S.E.E. Manager as Operational Reference Sites for a particular instance of the Site Certification process, and/or
- Implementations of Accredited Software within a laboratory environment designated by the S.E.E. Manager as suitable for a particular instance of a Site Certification process.

The Candidate should address any local configuration issues, such as content or virus checking, separately.

Message Types

- A "normal" message is plain US-ASCII text and/or attachments encoded in MIME format.

Use of S.E.E. Mail Warnings

Agencies must use the generic [S.E.E. Mail Warnings](#). They are permitted to append an additional line, referring their users to a link for additional information e.g. "For further information on this error, click here, <http://www.agency.govt.nz/seeinfo/warning5.html>".

The agency can decide whether further rules will be checked OR processing will stop. IF further rules are checked, it is permitted that further warning messages are generated.

Decryption Failures

When a message cannot be decrypted, the receiving agency should treat the message as per their policy for unknown encrypted messages. This may mean the original message is NOT attached to the S.E.E. Mail warning for the recipient.

Out of scope

The following scenarios are not tested:

- Handling of encrypted messages, that were encrypted by a non S.E.E. Mail sender
- Alteration of contents of S.E.E. Mail encrypted message, in transit.
- Mail loops caused by a S.E.E. Mail recipient auto-forwarding a message containing “[S**MAIL]” to an external address.

LEGAL INFORMATION

Intellectual Property Rights

The Intellectual Property Rights in the Tests described in this document shall remain the property of the S.E.E. Manager.

The Intellectual Property Rights in any Confidential Information supplied by a Candidate pursuant to these Tests will remain the property of the Candidate and licensors, as the case may be except that the S.E.E. Manager shall have the right to share such Confidential Information with any Participating Agency or Eligible Agency.

Variation

The S.E.E. Manager reserves the right to amend the Tests, and/or any part or requirement thereof, and/or this document and to make any changes whatsoever. The S.E.E. Manager accepts no obligation of any kind to any other party. Participating Agencies and Accredited Suppliers will be notified of any changes to the requirements in accordance with the notice provisions detailed in this document.

The S.E.E. Manager will give Participating Agencies and Accredited Suppliers:

- ninety (90) days notice of changes or variations to the Process, its requirements or test criteria.

Status of these tests

Before undertaking testing, the Candidate should refer to the following S.E.E. Mail documents to provide context:

- Contract Template
- Site Certification process
- Product/Supplier Accreditation Process

INTERIM SITE CERTIFICATION TESTS

The following tests are required to verify that S.E.E. Mail has been implemented correctly. Completion of the tests is a pre-requisite for interim site certification.

Before starting, please ensure your site is [Setup for Automated Testing](#).

To apply for interim site certification, please supply a signed copy of the completed tests to the S.E.E. Manager.

Agency name: _____

Vendor name: _____

Product name and version: _____

Test Manager: _____

Signature: _____

Date: _____

Incoming Message Tests

Abbreviations: S = Sender, R = Recipient, RA = Recipient Administrator, SA = Sender Administrator

SUBJECT		ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
Normal message							
IN-1-A	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message	The message is received as clear text at the desktop with no problem.	None		
Non SEEMAIL agency sends a SEEMAIL or XSEEMAIL message							
IN-1-B	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message contains [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL		
IN-1-C	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message with attachment with [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL		
IN-1-D	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message contains [S**MAIL] with attachment with [XS**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL R: Message 4ax - Not XSEEMAIL		
IN-1-BX	Non XSEEMAIL	Candidate	Incoming - Originator: Non XSEEMAIL agency - Message contains [XS**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4ax - Not XSEEMAIL		
IN-1-CX	Non XSEEMAIL	Candidate	Incoming - Originator: Non XSEEMAIL agency - Message with attachment with [XS**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4ax - Not XSEEMAIL		
IN-1-DX	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message contains [XS**MAIL] with attachment with [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL R: Message 4ax - Not XSEEMAIL		
Non SEEMAIL agency spoofs a SEEMAIL or XSEEMAIL agency							
IN-2-A	Non SEEMAIL spoofs SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoofs SEEMAIL agency - Message	The message is delivered with the appropriate warning message.	R: Message 2a - Unverified SEEMAIL sender		
IN-2-B	Non SEEMAIL spoofs SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency Spoof SEEMAIL agency - Message contains [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2 - Unverified SEEMAIL sender		
IN-2-C	Non SEEMAIL spoofs SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoofs SEEMAIL agency - Message with attachment with [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2 - Unverified SEEMAIL sender		
IN-2-D	Non SEEMAIL spoofs SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoofs SEEMAIL agency - Message contains [XS**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2a - Unverified SEEMAIL sender R: Message 4ax - Not XSEEMAIL		

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
IN-2-E	Non SEEMAIL spoof's SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoof's SEEMAIL agency - Message with attachment with [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2a - Unverified SEEMAIL sender R: Message 4ax - Not XSEEMAIL	
IN-2-F	Non SEEMAIL spoof's SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoof's SEEMAIL agency - Message contains [S**MAIL] with attachment with [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2a - Unverified SEEMAIL sender R: Message 4ax - Not XSEEMAIL	
IN-2-G	Listserve spoof's SEEMAIL	Candidate	Incoming - Originator: Listserve spoof's SEEMAIL agency - Message	The message is delivered with the appropriate warning message.	R: Message 2b - Unverified SEEMAIL sender (soft warning)	
IN-2-AX	Non SEEMAIL spoof's XSEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoof's XSEEMAIL agency - Message	The message is delivered with the appropriate warning message.	R: Message 2ax - Unverified XSEEMAIL sender	
IN-2-BX	Non SEEMAIL spoof's XSEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoof's XSEEMAIL agency - Message contains [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2ax - Unverified XSEEMAIL sender R: Message 4a - Not SEEMAIL	
IN-2-CX	Non SEEMAIL spoof's XSEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoof's XSEEMAIL agency - Message with attachment with [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2ax - Unverified XSEEMAIL sender R: Message 4a - Not SEEMAIL	
IN-2-DX	Non SEEMAIL spoof's XSEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoof's XSEEMAIL agency - Message contains [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2ax - Unverified XSEEMAIL sender	
IN-2-EX	Non SEEMAIL spoof's XSEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoof's XSEEMAIL agency - Message with attachment with [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2ax - Unverified XSEEMAIL sender	
IN-2-FX	Non SEEMAIL spoof's XSEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency spoof's XSEEMAIL agency - Message contains [X5**MAIL] with attachment with [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 2ax - Unverified XSEEMAIL sender R: Message 4a - Not SEEMAIL	
IN-2-GX	Listserve spoof's XSEEMAIL	Candidate	Incoming - Originator: Listserve spoof's XSEEMAIL agency - Message	The message is delivered with the appropriate warning message.	R: Message 2bx - Unverified XSEEMAIL sender (soft warning)	
SEEMAIL agency sends valid / invalid e-mails						
IN-3-A	SEEMAIL	Candidate	Incoming - Originator: SEEMAIL agency - Message	The message is received as clear text at the desktop with no problem. Verify in the system logs that the message was received both encrypted and signed.	None	
IN-3-B	SEEMAIL	Candidate	Incoming - Originator: SEEMAIL agency - Message contains [S**MAIL]	The message is received as clear text at the desktop with no problem. Verify in the system logs that the message was received both encrypted and signed.	None	

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
IN-3-C	SEEMAIL	Candidate	Incoming - Originator: SEEMAIL agency - Message with attachment with [S**MAIL]	The message is received as clear text plus attachment at the desktop with no problem. Verify in the system logs that the message was received both encrypted and signed	None	
IN-3-D	SEEMAIL	Candidate	Incoming - Originator: SEEMAIL agency - Message contains [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4ax - Not XSEEMAIL	
IN-3-E	SEEMAIL	Candidate	Incoming - Originator: SEEMAIL agency - Message with attachment with [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4ax - Not XSEEMAIL	
IN-3-F	SEEMAIL	Candidate	Incoming - Originator: SEEMAIL agency - Message contains [S**MAIL] with attachment with [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4ax - Not XSEEMAIL	
IN-3-AX	XSEEMAIL	Candidate	Incoming - Originator: XSEEMAIL agency - Message	The message is received as clear text at the desktop with no problem. Verify in the system logs that the message was received both encrypted and signed.	None	
IN-3-BX	XSEEMAIL	Candidate	Incoming - Originator: XSEEMAIL agency - Message contains [X5**MAIL]	The message is received as clear text at the desktop with no problem. Verify in the system logs that the message was received both encrypted and signed.	None	
IN-3-CX	XSEEMAIL	Candidate	Incoming - Originator: XSEEMAIL agency - Message with attachment with [X5**MAIL]	The message is received as clear text at the desktop with no problem. Verify in the system logs that the message was received both encrypted and signed.	None	
IN-3-DX	XSEEMAIL	Candidate	Incoming - Originator: XSEEMAIL agency - Message contains [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL	
IN-3-EX	XSEEMAIL	Candidate	Incoming - Originator: XSEEMAIL agency - Message with attachment with [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL	
IN-3-FX	XSEEMAIL	Candidate	Incoming - Originator: SEEMAIL agency - Message contains [X5**MAIL] with attachment with [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL	
Non SEEMAIL agency spoofs your SEEMAIL e-mail address						
IN-4-A	Non SEEMAIL spoofs your SEEMAIL	Candidate	Incoming - Originator: Spoof your agency - Message	The message is delivered with the appropriate warning message.	R: Message 5 - Unverified Internal Sender	
IN-4-B	Non SEEMAIL spoofs your SEEMAIL	Candidate	Incoming - Originator: Spoof your agency - Message contains [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 5 - Unverified Internal Sender	
IN-4-C	Non SEEMAIL spoofs your SEEMAIL	Candidate	Incoming - Originator: Spoof your agency - Message with attachment with [S**MAIL]	The message is delivered with the appropriate warning message.	R: Message 5 - Unverified Internal Sender	

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
IN-4-BX	Non SEEMAIL spoofs your SEEMAIL	Candidate	Incoming - Originator: Spoof your agency - Message contains [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 5 - Unverified Internal Sender R: Message 4ax - Not XSEEMAIL	
IN-4-CX	Non SEEMAIL spoofs your SEEMAIL	Candidate	Incoming - Originator: Spoof your agency - Message with attachment with [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 5 - Unverified Internal Sender R: Message 4ax - Not XSEEMAIL	
IN-4-D	Non SEEMAIL spoofs your SEEMAIL	Candidate	Incoming - Originator: Spoof you agency - Message contains [5**MAIL] with attachment with [X5**MAIL]	The message is delivered with the appropriate warning message.	R: Message 5 - Unverified Internal Sender R: Message 4ax - Not XSEEMAIL	
SEEMAIL agency sends to invalid mailbox						
IN-5-A	SEEMAIL	Candidate	Incoming - Recipient: Candidate (no such mailbox) - Message	The message is not delivered. The sender receives the warning message. On originating mail system: Check the system logs to ensure the NDR report was signed and encrypted when received. On recipient mail system: Check if the Postmaster receives a copy of the clear text message.	RA: Copy of message S: Non delivery report from the recipient candidate agency.	
IN-5-B	SEEMAIL	Candidate	Incoming - Recipient: Candidate (no such mailbox) - Message contains [5**MAIL]	The message is not delivered. The sender receives the warning message. On originating mail system: Check the system logs to ensure the NDR report was signed and encrypted when received. On recipient mail system: Check if the Postmaster receives a copy of the clear text message.	RA: Copy of message S: Non delivery report from the recipient candidate agency.	
IN-5-C	SEEMAIL	Candidate	Incoming - Recipient: Candidate (no such mailbox) - Message with attachment contains [5**MAIL]	The message is not delivered. The sender receives the warning message. On originating mail system: Check the system logs to ensure the NDR report was signed and encrypted when received. On recipient mail system: Check if the Postmaster receives a copy of the clear text message.	RA: Copy of message S: Non delivery report from the recipient candidate agency.	
IN-5-BX	xSEEMAIL	Candidate	Incoming - Recipient: Candidate (no such mailbox) - Message contains [X5**MAIL]	The message is not delivered. The sender receives the warning message. On originating mail system: Check the system logs to ensure the NDR report was signed and encrypted when received. On recipient mail system: Check if the Postmaster receives a copy of the clear text message.	RA: Copy of message S: Non delivery report from the recipient candidate agency.	

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PUBLIC DOMAIN

State Services Commission

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
IN-5-CX	XSEEMAIL	Candidate	Incoming - Recipient: Candidate (no such mailbox) - Message with attachment contains [X5**MAIL]	The message is not delivered. The sender receives the warning message. On originating mail system: Check the system logs to ensure the NDR report was signed and encrypted when received. On recipient mail system: Check if the Postmaster receives a copy of the clear text message.	RA: Copy of message S: Non delivery report from the recipient candidate agency.	

Outgoing Message Tests

Abbreviations: S = Sender, R = Recipient, RA = Recipient Administrator, SA = Sender Administrator

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
Normal message						
OUT-1-A	Candidate	Non SEEMAIL	Outgoing - Recipient: Non SEEMAIL agency - Message	The message is received as clear text at the desktop with no problem.		
Sending to Non SEEMAIL agencies						
OUT-1-B	Candidate	Non SEEMAIL	Outgoing - Recipient: Non SEEMAIL agency - Message contains [S**MAIL]	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a - NO SEEMAIL	
OUT-1-C	Candidate	Non SEEMAIL	Outgoing - Recipient: Non SEEMAIL agency - Message with attachment contains [S**MAIL]	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a - NO SEEMAIL	
OUT-1-BX	Candidate	Non XSEEMAIL	Outgoing - Recipient: Non XSEEMAIL agency - Message contains [XS**MAIL]	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1ax - NO XSEEMAIL	
OUT-1-CX	Candidate	Non XSEEMAIL	Outgoing - Recipient: Non XSEEMAIL agency - Message with attachment contains [XS**MAIL]	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1ax - NO XSEEMAIL	
Sending to Mixed group (SEEMAIL / non SEEMAIL) agencies						
OUT-2-A	Candidate	SEEMAIL, XSEEMAIL and non SEEMAIL	Outgoing - Recipient: Mixed Group - Message	The message is received as clear text at the desktop with no problem.		

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
OUT-2-B	Candidate	SEEMAIL, XSEEMAIL and non SEEMAIL	Outgoing - Recipient: Mixed Group - Message contains [S**MAIL]	Expected result is EITHER (a) delivered to SEEMAIL recipients, and undelivered to non SEEMAIL and XSEEMAIL recipients, OR (b) not delivered to anyone. IF (a) then Verify in the Message Recipient system logs that the received message was both encrypted and signed. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a- NO SEEMAIL	
OUT-2-C	Candidate	SEEMAIL, XSEEMAIL and non SEEMAIL	Outgoing - Recipient: Mixed Group - Message with attachment contains [S**MAIL]	Expected result is EITHER (a) delivered to SEEMAIL recipients, and undelivered to non SEEMAIL and XSEEMAIL recipients, OR (b) not delivered to anyone. IF (a) then Verify in the Message Recipient system logs that the received message was both encrypted and signed. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a- NO SEEMAIL	
OUT-2-BX	Candidate	SEEMAIL, XSEEMAIL and non SEEMAIL	Outgoing - Recipient: Mixed Group - Message contains [XS**MAIL]	Expected result is EITHER (a) delivered to XSEEMAIL recipients, and undelivered to non SEEMAIL and SEEMAIL recipients, OR (b) not delivered to anyone. IF (a) then Verify in the Message Recipient system logs that the received message was both encrypted and signed. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1ax - NO XSEEMAIL	
OUT-2-CX	Candidate	SEEMAIL, XSEEMAIL and non SEEMAIL	Outgoing - Recipient: Mixed Group - Message with attachment contains [XS**MAIL]	Expected result is EITHER (a) delivered to XSEEMAIL recipients, and undelivered to non SEEMAIL and SEEMAIL recipients, OR (b) not delivered to anyone. IF (a) then Verify in the Message Recipient system logs that the received message was both encrypted and signed. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1ax - NO XSEEMAIL	
Sending to SEEMAIL / XSEEMAIL Agencies						
OUT-3-A	Candidate	SEEMAIL	Outgoing - Recipient: SEEMAIL agency - Message	The message is delivered with no problem and is received as clear text at the desktop. Verify in the Message Recipient system logs that the received message was both encrypted and signed.		

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SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
OUT-3-B	Candidate	SEEMAIL	Outgoing - Recipient: SEEMAIL agency - Message contains [S**Mail]"	The message is delivered with no problem and is received as clear text at the desktop. Verify in the Message Recipient system logs that the received message was both encrypted and signed.	Note: Use a mixture of UPPER and lower case, } bracket for the S.E.E. Word.	
OUT-3-C	Candidate	SEEMAIL	Outgoing - Recipient: SEEMAIL agency - Message with attachment contains [S**MAIL]	The message is delivered with no problem and is received as clear text at the desktop. Verify in the Message Recipient system logs that the received message was both encrypted and signed.		
OUT-3-AX	Candidate	XSEEMAIL	Outgoing - Recipient: XSEEMAIL agency - Message	The message is delivered with no problem and is received as clear text at the desktop. Verify in the Message Recipient system logs that the received message was both encrypted and signed.		
OUT-3-BX	Candidate	XSEEMAIL	Outgoing - Recipient: XSEEMAIL agency - Message contains [XS**MAIL]"	The message is delivered with no problem and is received as clear text at the desktop. Verify in the Message Recipient system logs that the received message was both encrypted and signed.		
OUT-3-CX	Candidate	XSEEMAIL	Outgoing - Recipient: XSEEMAIL agency - Message with attachment contains {XS**MAIL]	The message is delivered with no problem and is received as clear text at the desktop. Verify in the Message Recipient system logs that the received message was both encrypted and signed.	Note: Use a mixture of UPPER and lower case, { bracket for the S.E.E. Word.	

(End of tests)

PRODUCT ACCREDITATION TESTS

In addition to the site certification tests, the following tests are required to verify that a vendor's product meets the S.E.E. Mail business requirements. Completion of the tests is a pre-requisite for interim product/vendor accreditation.

To apply for interim product/vendor accreditation, please supply a signed copy of the completed tests to the S.E.E. Manager.

Incoming Message Tests

Abbreviations: S = Sender, R = Recipient, RA = Recipient Administrator, SA = Sender Administrator

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
Non SEEMAIL agency sends a SEEMAIL message						
IN-1-B-2	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message contains [S**MAIL] (UNICODE UTF-7 encoding)	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL	
IN-1-B-3	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message contains [S**MAIL] (RTF format)	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL	
IN-1-B-4	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message contains [S**MAIL] (HTML format)	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL	
IN-1-C-2	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message with attachment with [S**MAIL] (BINHEX attachment format)	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL	
IN-1-C-3	Non SEEMAIL	Candidate	Incoming - Originator: Non SEEMAIL agency - Message with attachment with [S**MAIL] (UUENCODE attachment format)	The message is delivered with the appropriate warning message.	R: Message 4a - Not SEEMAIL	

Outgoing Message Tests

Abbreviations: S = Sender, R = Recipient, RA = Recipient Administrator, SA = Sender Administrator

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
Sending to Non SEEMAIL agencies						
OUT-1-B-2	Candidate	Non SEEMAIL	Outgoing - Recipient: Non SEEMAIL agency - Message contains [S**MAIL] (UNICODE UTF-7 encoding)	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a - NO SEEMAIL	

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
OUT-1-B-3	Candidate	Non SEEMAIL	Outgoing - Recipient: Non SEEMAIL agency - Message contains [S**MAIL] (RTF format)	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a - NO SEEMAIL	
OUT-1-B-4	Candidate	Non SEEMAIL	Outgoing - Recipient: Non SEEMAIL agency - Message contains [S**MAIL] (HTML format)	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a - NO SEEMAIL	
OUT-1-C-2	Candidate	Non SEEMAIL	Outgoing - Recipient: Non SEEMAIL agency - Message with attachment contains [S**MAIL] (BINHEX attachment format)	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a - NO SEEMAIL	
OUT-1-C-3	Candidate	Non SEEMAIL	Outgoing - Recipient: Non SEEMAIL agency - Message with attachment contains [S**MAIL] (UUEncode attachment format)	The message is not delivered. The sender receives the appropriate warning message.	S: S.E.E. Mail Warning Message 1a - NO SEEMAIL	

Certificate Handling Tests

Outgoing Certificate Handling Tests

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
Problems with their certificate						
OUT-C-1	Candidate	SEEMAIL	Encrypting a message - Other agency's certificate is revoked / suspended	The message is not delivered. Attempt to auto-discover valid public key certificate (LDAP). Success: Pass message through. Fail: Hold message. The sender and administrator of the sending gateway receive the appropriate warning message.	S, SA: Message OUT-C-1 (The recipient agency's certificate is revoked/suspended. The message was not sent.)	
OUT-C-2	Candidate	SEEMAIL	Encrypting a message - Other agency's certificate is unknown	The message is not delivered. Attempt to auto-discover valid public key certificate (LDAP). Success: Pass message through. Fail: Hold message. The sender and administrator of the sending gateway receive the appropriate warning message.	S, SA: Message OUT-C-2 (The recipient agency's certificate is unknown. The message was not sent.)	

¹ Note: The auto-discover valid public key certificate (LDAP) is an optional step for these tests.

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
OUT-C-3	Candidate	SEEMAIL	Encrypting a message - Other agency's certificate is expired	The message is not delivered. Attempt to auto-discover valid public key certificate (LDAP). Success: Pass message through. Fail: Hold message. The sender and administrator of the sending gateway receive the appropriate warning message.	S, SA: Message OUT-C-3 (The recipient agency's certificate is expired. The message was not sent.)	
OUT-C-4	Candidate	SEEMAIL	Encrypting a message - Other agency's certificate status is unavailable	The message is delivered. The administrator of the sending gateway receives the appropriate warning message.	SA: Message OUT-C-4 (The recipient agency's CRL was not available. The message was sent.)	
OUT-C-5	Candidate	SEEMAIL	Encrypting a message - Other agency's certificate status is not yet valid	The message is not delivered. Attempt to auto-discover valid public key certificate (LDAP). Success: Pass message through. Fail: Hold message. The sender and administrator of the sending gateway receive the appropriate warning message.	SA: Message OUT-C-5 (The recipient agency's certificate is not yet valid. The message was not sent.)	
Problems with our certificate						
OUT-C-6	Candidate	SEEMAIL	Signing a message - Our certificate is revoked / suspended	The message is not delivered. The sender and administrator of the sending gateway receive the appropriate warning message.	S, SA: Message OUT-C-6 (Our certificate is revoked/suspended. Message is held until administrator fixes the problem.)	
OUT-C-7	Candidate	SEEMAIL	Signing a message - Our certificate status is unknown CA	The message is not delivered. The sender and administrator of the sending gateway receive the appropriate warning message.	S, SA: Message OUT-C-7 (Our certificate is associated with an untrusted / unknown CA. Message is held until administrator fixes the problem.)	
OUT-C-8	Candidate	SEEMAIL	Signing a message - Our certificate status has expired (system date is after certificate expiry date)	The message is not delivered. Attempt to auto-discover valid public key certificate (LDAP). Success: Pass message through. Fail: Hold message. The sender and administrator of the sending gateway receive the appropriate warning message.	S, SA: Message OUT-C-8 (Our certificate has expired. Message is held until administrator fixes the problem.)	
OUT-C-9	Candidate	SEEMAIL	Signing a message - Our certificate status is unavailable	The message is sent. The administrator of the sending gateway receives the appropriate warning message.	S, SA: Message OUT-C-9 (Our certificate status was unavailable. The message was sent.)	
OUT-C-10	Candidate	SEEMAIL	Signing a message - Our certificate status is not yet valid (system date is before certificate issue date)	The message is not delivered. Attempt to auto-discover valid public key certificate (LDAP). Success: Pass message through. Fail: Hold message. The sender and administrator of the sending gateway receive the appropriate warning message.	S, SA: Message OUT-C-10 (Our certificate is not yet valid. Message is held until administrator fixes the problem.)	

Incoming Certificate Handling Tests

SUBJECT		ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
Problems with their certificate							
IN-C-1	SEEMAIL		Candidate	Verifying a message - Other agency's certificate is revoked	The message is not delivered. The receiver and administrator of the receiving gateway receive the appropriate warning message.	R, RA: Message IN-C-1 (The sender agency's certificate is revoked/suspended. The message integrity is not certain.)	
IN-C-2	SEEMAIL		Candidate	Verifying a message - Other agency's certificate is unknown	The message is delivered. The receiver and administrator of the receiving gateway receive the appropriate warning message.	R, RA: Message IN-C-2 (The sender agency's certificate is unknown. The message integrity is not certain.)	
IN-C-3	SEEMAIL		Candidate	Verifying a message - Other agency's certificate has expired	The message is delivered. The receiver and administrator of the receiving gateway receive the appropriate warning message.	R, RA: Message IN-C-3 (The sender agency's certificate has expired. The message integrity is not certain.)	
IN-C-4	SEEMAIL		Candidate	Verifying a message - Other agency's certificate status is unavailable	The message is delivered. The administrator of the receiving gateway receives the appropriate warning message.	R, RA: Message IN-C-4 (The sender agency's certificate status is unavailable. The message integrity is not certain.)	
IN-C-5	SEEMAIL		Candidate	Verifying a message - Other agency's certificate not yet valid	The message is delivered. The administrator of the receiving gateway receives the appropriate warning message.	R, RA: Message IN-C-5 (The sender agency's certificate is not yet valid. The message integrity is not certain.)	
Problems with our certificate							
IN-C-6	SEEMAIL		Candidate	Decrypting a message - Our certificate is revoked / suspended	The message is not delivered. The sender, receiver and administrator of the receiving gateway receive the appropriate warning message. Send signed error message to the sender, asking to resend (the sender's gateway will load our new certificate from error message).	S, R, RA: Message IN-C-6 (Our certificate is revoked / suspended. Message is held until administrator fixes the problem.)	
IN-C-7	SEEMAIL		Candidate	Decrypting a message - Our certificate is unknown CA	The message is not delivered. The sender and administrator of the receiving gateway receive the appropriate warning message.	R, RA: Message IN-C-7 (Our certificate is associated with an untrusted/unknown CA. Message is held until administrator fixes the problem.)	
IN-C-8	SEEMAIL		Candidate	Decrypting a message - Our certificate has expired	The message is not delivered. The sender and administrator of the receiving gateway receive the appropriate warning message. Send signed error message to the sender, asking to resend (the sender's gateway will load our new certificate from error message).	S, R, RA: Message IN-C-8 (Our certificate has expired. Message is held until administrator fixes the problem.)	
IN-C-9	SEEMAIL		Candidate	Decrypting a message - Our certificate status is unavailable	The message is delivered. The administrator of the receiving gateway receives the appropriate warning message.	RA: Message IN-C-9 (Our certificate status is unavailable. Message was delivered.)	

Draft

PUBLIC DOMAIN

State Services Commission

SUBJECT	ORIGINATOR	RECIPIENT	MESSAGE	RESULT	MESSAGES	TICK
IN-C-10	SEEMAIL	Candidate	Decrypting a message - Our certificate is not yet valid.	The message is not delivered. The sender and administrator of the receiving gateway receive the appropriate warning message. Send signed error message to the sender, asking to resend (the sender's gateway will load our new certificate from error message).	RA: Message IN-C-10 (Our certificate status is not yet valid. Message is held until administrator fixes the problem.)	

(End of tests)


S.E.E. MAIL MESSAGES

There are two types of S.E.E. Mail Messages, "hard" and "soft".



Hard warnings

- Assume the worst
 - Replaces the original message, impacting on the e-mail "conversation flow"
 - Append the original message as an attachment
- Soft warnings
- Assumes the best
 - Inserts the warning directly into the message body, while retaining the original "From:" and "Subject" fields.



SEEMAIL Warning Messages





#	TYPE	SUBJECT	FROM	RATIONALE	MESSAGE
1a	Hard	S.E.E. Mail Warning #1a - NO SEEMAIL	Postmaster	You have tried to send a SEEMAIL message to an agency that doesn't have it	<p>You have tried to send a message (and/or attachment) that contains the text [S**MAIL] to an address that doesn't have SEEMAIL services.</p> <p>This message has not been delivered to any of the specified recipients²</p> <p>Recommended action: Decide whether the security classification of the information you are sending requires S.E.E. Mail protection.</p> <ul style="list-style-type: none"> ▪ YES = send by other secure means. ▪ NO = remove [S**MAIL] from the message (and/or attachment) <p> ATTACHMENT – ORIGINAL MESSAGE</p>

² An acceptable alternative is "This message has only been delivered to recipients with SEEMAIL services"

#	TYPE	SUBJECT	FROM	RATIONALE	MESSAGE
1ax	Hard	S.E.E. Mail Warning #1ax - NO XSEEMAIL	Postmaster	You have tried to send a XSEEMAIL message to an agency that doesn't have it	<p>You have tried to send a message (and/or attachment) that contains the text [XS**MAIL] to an address that doesn't have XSEEMAIL services.</p> <p>This message has not been delivered to any of the specified recipients³</p> <p>Recommended action: Decide whether the security classification of the information you are sending requires S.E.E. Mail protection.</p> <ul style="list-style-type: none"> ▪ YES = send by other secure means. ▪ NO = remove [XS**MAIL] from the message (and/or attachment) <p> ATTACHMENT – ORIGINAL MESSAGE</p> <p>This message did not come directly from the apparent sender's agency. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include:</p> <ol style="list-style-type: none"> a. The mail may have been forwarded by a distribution (List serve) service b. The sender is working away from their agency, and using an ISP mail account c. Someone other than the sender may have sent the message and falsified the email address <p>Recommended action: If you have doubts about the message authenticity, verify the message contents with the sender by some other means</p> <p> ATTACHMENT – ORIGINAL MESSAGE</p> <p>S.E.E. Mail Warning #2b - UNVERIFIED SENDER. See bottom of message for further information.</p> <p>BODY OF ORIGINAL MESSAGE</p> <p>-----</p> <p>This message did not come directly from the apparent sender's agency. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include:</p> <ol style="list-style-type: none"> a. The mail may have been forwarded by a distribution (List serve) service b. The sender is working away from their agency, and using an ISP mail account c. Someone other than the sender may have sent the message and falsified the email address <p>Recommended action: If you have doubts about the message authenticity, verify the message contents with the sender by some other means</p>
2a	Hard	S.E.E. Mail Warning #2a - UNVERIFIED SEEMAIL SENDER	Postmaster	An e-mail has arrived apparently from a SEEMAIL agency. The To: and From: fields show a SEEMAIL agency address, i.e. nothing to indicate an external sender.	
2b	Soft	Original subject	Sender	An e-mail has arrived apparently from a SEEMAIL agency. The To: or From: fields show a <u>non</u> -SEEMAIL agency address.	



³ An acceptable alternative is "This message has only been delivered to recipients with SEEMAIL services"


#	TYPE	SUBJECT	FROM	RATIONALE	MESSAGE
2ax	Hard	S.E.E. Mail Warning #2ax - UNVERIFIED XSEEMAIL SENDER	Postmaster	An e-mail has arrived apparently from a XSEEMAIL agency. The To: and From: fields show a XSEEMAIL agency address, i.e. nothing to indicate an external sender.	This message did not come directly from the apparent sender's agency. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include: a. The mail may have been forwarded by a distribution (List serve) service b. The sender is working away from their agency, and using an ISP mail account c. Someone other than the sender may have sent the message and falsified the email address Recommended action: If you have doubts about the message authenticity, verify the message contents with the sender by some other means  ATTACHMENT – ORIGINAL MESSAGE
2bx	Soft	Original subject	Sender	An e-mail has arrived apparently from a XSEEMAIL agency. The To: or From: fields show a non-XSEEMAIL agency address.	S.E.E. Mail Warning #2bx - UNVERIFIED XSEEMAIL SENDER. See bottom of message for further information. BODY OF ORIGINAL MESSAGE ----- This message did not come directly from the apparent sender's agency. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include: a. The mail may have been forwarded by a distribution (List serve) service b. The sender is working away from their agency, and using an ISP mail account c. Someone other than the sender may have sent the message and falsified the email address Recommended action: If you have doubts about the message authenticity, verify the message contents with the sender by some other means
3	Hard	S.E.E. Mail Warning #3 - ALTERED MESSAGE	Postmaster	The e-mail has been altered.	This message was altered en-route. Possible causes of this warning include: a. The message was garbled in-transit due to communications problems b. The message was intercepted and altered while in transit Recommended action: <ul style="list-style-type: none"> ▪ Verify the message with the sender ▪ Bring to the attention of your IT Manager  ATTACHMENT – ORIGINAL MESSAGE


#	TYPE	SUBJECT	FROM	RATIONALE	MESSAGE
4a	Hard	S.E.E. Mail Warning #4a - NOT SEEMAIL	Postmaster	A SEEMAIL message has arrived from a non SEEMAIL agency.	<p>This message contains the S.E.E. trigger word "[S**MAIL]" but did not arrive from a SEEMAIL agency. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include:</p> <p>a. The sender mistakenly thinks their agency has SEEMAIL, and has put the S.E.E. trigger word in the message and/or attachment</p> <p>b. The sender has accidentally referred to the S.E.E. trigger word in the message and/or attachment</p> <p>Recommended action: Verify the message with the sender</p> <p> ATTACHMENT – ORIGINAL MESSAGE</p> <p>This message contains the S.E.E. trigger word "[XS**MAIL]" but did not arrive from a XSEEMAIL agency. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include:</p> <p>a. The sender mistakenly thinks their agency has XSEEMAIL, and has put the S.E.E. trigger word in the message and/or attachment</p> <p>b. The sender has accidentally referred to the S.E.E. trigger word in the message and/or attachment</p> <p>Recommended action: Verify the message with the sender</p> <p> ATTACHMENT – ORIGINAL MESSAGE</p>
4ax	Hard	S.E.E. Mail Warning #4ax - NOT XSEEMAIL	Postmaster	A XSEEMAIL triggered e-mail has arrived from a non XSEEMAIL agency.	<p>This message has our agency's email address, but came from outside. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include:</p> <p>a. The mail may have been forwarded by a distribution (List serve) service</p> <p>b. The sender is working away from our agency, and using an ISP mail account</p> <p>c. Someone other than the sender may have sent the message and falsified the email address</p> <p>Recommended action: If you have doubts about the message authenticity, verify the message with the sender by some other means</p> <p> ATTACHMENT – ORIGINAL MESSAGE</p>
5a	Hard	S.E.E. Mail Warning #5a - UNVERIFIED INTERNAL SENDER	Postmaster	An e-mail has arrived apparently from <u>our</u> agency. The To: and From: fields show a SEEMAIL agency address, i.e. nothing to indicate an external sender.	<p>This message has our agency's email address, but came from outside. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include:</p> <p>a. The mail may have been forwarded by a distribution (List serve) service</p> <p>b. The sender is working away from our agency, and using an ISP mail account</p> <p>c. Someone other than the sender may have sent the message and falsified the email address</p> <p>Recommended action: If you have doubts about the message authenticity, verify the message with the sender by some other means</p> <p> ATTACHMENT – ORIGINAL MESSAGE</p>

#	TYPE	SUBJECT	FROM	RATIONALE	MESSAGE
5b	Soft	Original subject	Sender	An e-mail has arrived apparently from our agency. The To: or From: fields show a <u>non-SEEMAIL</u> agency address.	<p>S.E.E. Mail Warning #5b - UNVERIFIED INTERNAL SENDER. See bottom of message for further information.</p> <p><i>BODY OF ORIGINAL MESSAGE</i></p> <p>-----</p> <p>This message came from outside our agency. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include:</p> <ol style="list-style-type: none"> The mail may have been forwarded by a distribution (List serve) service The sender is working away from our agency, and using an ISP mail account Someone other than the sender may have sent the message and falsified the email address <p>Recommended action: If you have doubts about the message authenticity, verify the message with the sender by some other means</p>

Certificate Warning Messages

#	TYPE	SUBJECT	FROM	MESSAGE
IN-C-1	Hard	S.E.E. Mail Warning #IN-C-1 - SENDER'S CERTIFICATE REVOKED / SUSPENDED	Postmaster	<p>The sender's certificate has been revoked / suspended for some reason. The confidentiality, integrity or authenticity of the message cannot be guaranteed.</p> <p>Recommended action: If you have doubts about the message authenticity, verify the message with the sender by some other means</p> <p> ATTACHMENT – ORIGINAL MESSAGE</p>
IN-C-2	Hard	S.E.E. Mail Warning #IN-C-2 - SENDER'S CERTIFICATE REVOKED / SUSPENDED	Postmaster	<p>The sender's certificate is untrusted / unknown for some reason. The confidentiality, integrity or authenticity of the message cannot be guaranteed. Possible causes of this warning include:</p> <ol style="list-style-type: none"> The S.E.E. Mail service at your agency has been misconfigured The S.E.E. Mail service at the sending agency has been misconfigured <p>Recommended action:</p> <ul style="list-style-type: none"> ▪ Bring to the attention of your IT Manager ▪ If you have doubts about the message authenticity, verify the message with the sender by some other means <p> ATTACHMENT – ORIGINAL MESSAGE</p>

#	TYPE	SUBJECT	FROM	MESSAGE
IN-C-3	Soft	S.E.E. Mail Warning #IN-C-3 - SENDER'S CERTIFICATE EXPIRED	Original	<p>S.E.E. Mail Warning #IN-C-3 - SENDER'S CERTIFICATE EXPIRED. See bottom of message for further information.</p> <p>BODY OF ORIGINAL MESSAGE</p> <p>-----</p> <p>The sender's certificate has expired. The confidentiality, integrity or authenticity of the message cannot be guaranteed.</p> <p>Recommended action:</p> <ul style="list-style-type: none"> ▪ Bring to the attention of your IT Manager ▪ If you have doubts about the message authenticity, verify the message with the sender by some other means
IN-C-4	Soft	S.E.E. Mail Warning #IN-C-5 - SENDER'S CERTIFICATE STATUS UNAVAILABLE	Original	<p>S.E.E. Mail Warning #IN-C-4 SENDER'S CERTIFICATE STATUS UNAVAILABLE. See bottom of message for further information.</p> <p>BODY OF ORIGINAL MESSAGE</p> <p>-----</p> <p>The sender's certificate status could not be verified against the Certificate Revocation List. The confidentiality, integrity or authenticity of the message cannot be guaranteed.</p> <p>Recommended action:</p> <ul style="list-style-type: none"> ▪ Bring to the attention of your IT Manager ▪ If you have doubts about the message authenticity, verify the message with the sender by some other means
IN-C-5	Soft	S.E.E. Mail Warning #IN-C-6 - OUR CERTIFICATE REVOKED / SUSPENDED	Postmaster	<p>Our certificate has been revoked / suspended for some reason. The confidentiality, integrity or authenticity of the message cannot be guaranteed.</p> <p>Recommended action:</p> <ul style="list-style-type: none"> ▪ Bring to the attention of your IT Manager ▪ Ask the sender to send the message one more time ▪ If you have doubts about the message authenticity, verify the message with the sender by some other means <p> ATTACHMENT – ORIGINAL MESSAGE</p>

#	TYPE	SUBJECT	FROM	MESSAGE
IN-C-7		S.E.E. Mail Warning #IN-C-6 - OUR CERTIFICATE HAS EXPIRED	Postmaster	<p>Our certificate has expired. The confidentiality, integrity or authenticity of the message cannot be guaranteed.</p> <p>Recommended action:</p> <ul style="list-style-type: none"> ▪ Bring to the attention of your IT Manager ▪ Ask the sender to send the message one more time ▪ If you have doubts about the message authenticity, verify the message with the sender by some other means <p> ATTACHMENT – ORIGINAL MESSAGE</p>
IN-C-8	Soft	Original subject	Original	<p>S.E.E. Mail Warning #IN-C-8 (DECRYPT FAILURE) See bottom of message for further information.</p> <p><i>BODY OF ORIGINAL MESSAGE</i></p> <p>-----</p> <p>Our certificate status could not be verified against the Certificate Revocation List. The confidentiality, integrity or authenticity of the message cannot be guaranteed.</p> <p>Recommended action:</p> <ul style="list-style-type: none"> ▪ Bring to the attention of your IT Manager ▪ If you have doubts about the message authenticity, verify the message with the sender by some other means

SETUP FOR AUTOMATED TESTING

Assumptions

- Vendors are part of SEEMAIL (and are therefore a Participating Agency)
- Automated testing can only be performed by Participating Agencies (as defined in the SEEMAIL List)
- All automated tests must be able to be performed manually and interpreted manually
- There is a single Reference Test Server (see.govt.nz)
- The Reference Test Server can be triggered to generate a corresponding incoming test message to a Participating Agency (seemail-test-agent)
- A copy of each test and the results are forwarded to a mailbox owned by the S.E.E. Mail Manager (seemail-test-log)
- Each Participating Agency can be triggered to autorespond with a signed, encrypted message (seemail-ping). Exception: The autoresponder will not respond to mail originating from other seemail-ping accounts, to prevent potential ddos attacks.
- Each Participating Agency has a generic test mail account (seemail-test)

Test Setup

E-government Unit will set up the following at see.govt.nz:

- Mailbox: seemail-test-log – for recording test results forwarded from an agency
- Mailbox: seemail-test-agent – for receiving a “trigger” e-mail and performing an automated response
- Mailbox: seemail-ping – for connectivity purposes
- E-mail domains necessary to perform certificate management tests e.g. see-nocrl.gen.nz, see-expiredcert.gen.nz; see-revokedcert.gen.nz

Each Participating Agency will set up the following:

- Mailbox: seemail-test – for testing purposes
 - All incoming messages to “seemail-test” will be automatically forwarded to “seemail-test-log@see.govt.nz”, included as part of the body of the message (not an attachment)
- Mailbox: seemail-ping – for connectivity purposes
 - Seemail-ping will be an auto-responder
 - Seemail-ping will operate before any other SEEMAIL business rules and not invoke them
 - Seemail-ping will only respond to an e-mail from an agency in the local SEEMAIL or XSEEMAIL lists, UNLESS it is from seemail-test (*implies person is interimly site certified*)
 - Seemail-ping will respond with the SEEMAIL version number, and if possible, the list of SEEMAIL agencies it knows about

To simplify testing, the S.E.E. Manager can make available on request, an Exchange .PST file, which contains a copy of each of the INCOMING and OUTGOING test messages. The candidate can then simply open each message and "Send" it.

Automated Test Walkthrough

How automated testing works:

- Candidate informs S.E.E. Mail Manager they wish to be accredited / certified.
- S.E.E. Mail Manager adds them to the SEEMAIL List – at this stage, there are no secure links, so other Participating Agencies are not signing/encrypting to them.
- Candidate can now initiate Incoming Message Tests, by sending a message e.g. FROM: seemail-test@youragency.govt.nz, TO: seemail-test @see.govt.nz, SUBJECT: SEND TEST IN-1-A.
- Reference Test Server will send an appropriately configured e-mail TO: seemail-test-@youragency.govt.nz.
- The seemail-test mailbox will receive the e-mail (or an appropriate warning message). It forwards a copy of the e-mail to seemail-test-log@see.govt.nz.