

Amazon SES has three encryption gaps that expose PHI

Amazon documents a TLS 1.2 minimum. PHI still ships over retired protocols, to invalid certificates, and in plaintext.

What we found

Across 14 controlled tests, Amazon SES failed to enforce the encryption its documentation requires.

Amazon tells developers Simple Email Service requires TLS 1.2 and recommends TLS 1.3. The recorded behavior does the opposite. It delivers over protocols retired in 2021, accepts invalid certificates, and falls back to plaintext when a receiver offers no encryption.

What it means for buyers



Plaintext is the default fallback

When the receiving server offers no TLS, SES delivers PHI across the open internet unencrypted.



Retired protocols still go through

SES delivers over TLS 1.0 and 1.1, versions retired across the industry since 2021.



Invalid certificates are never blocked

SES blocked 0 of 4 invalid-certificate tests, delivering to self-signed and expired certificates.

WHY PAUBOX

8,000+

healthcare organizations trust Paubox to secure every email they send and receive.



Modern TLS, enforced

PHI transits only over modern, authenticated TLS, or routes to a patented Secure Message Center.



Recipient certificates are validated

Paubox confirms a valid certificate before delivery, so PHI reaches the verified recipient.



HITRUST certified

Annual third-party audit of every control.