exceed these capabilities and nothing in this rule precludes the use or implementation of more protective privacy and security measures.

Table 2B – Adopted Privacy and Security Standards

Row #	Purpose	Adopted Standard
1	*General Encryption and Decryption of Electronic Health Information*	A symmetric 128 bit fixed-block cipher algorithm capable of using a 128, 192, or 256 bit encryption key must be used (e.g., FIPS 197 Advanced Encryption Standard, (AES), Nov 2001).[+]
2	*Encryption and Decryption of Electronic Health Information for Exchange*	An encrypted and integrity protected link must be implemented (e.g., TLS, IPv6, IPv4 with IPsec).[+]
3	*Record Actions Related to Electronic Health Information (i.e., audit log)*	The date, time, patient identification (name or number), and user identification (name or number) must be recorded when electronic health information is created, modified, deleted, or printed. An indication of which action(s) occurred must also be recorded (e.g., modification).[+]
4	*Verification that Electronic Health Information has not been Altered in Transit*	A secure hashing algorithm must be used to verify that electronic health information has not been altered in transit. The secure hash algorithm used must be SHA-1 or higher (e.g., Federal Information Processing Standards (FIPS) Publication (PUB) Secure Hash Standard (SHS) FIPS PUB 180-3).[+]
5	*Cross-Enterprise Authentication*	Use of a cross-enterprise secure transaction that contains sufficient identity information such that the receiver can make access control decisions and produce detailed and accurate security audit trails (e.g., IHE Cross Enterprise User Assertion (XUA) with SAML identity assertions).[+]
6	*Record Treatment, Payment, and Health Care Operations Disclosures*	The date, time, patient identification (name or number), user identification (name or number), and a description of the disclosure must be recorded.[+]

3. Adopted Implementation Specifications

Pursuant to section 3004 of the PHSA, the Secretary is required to adopt implementation specifications in addition to standards and certification criteria.