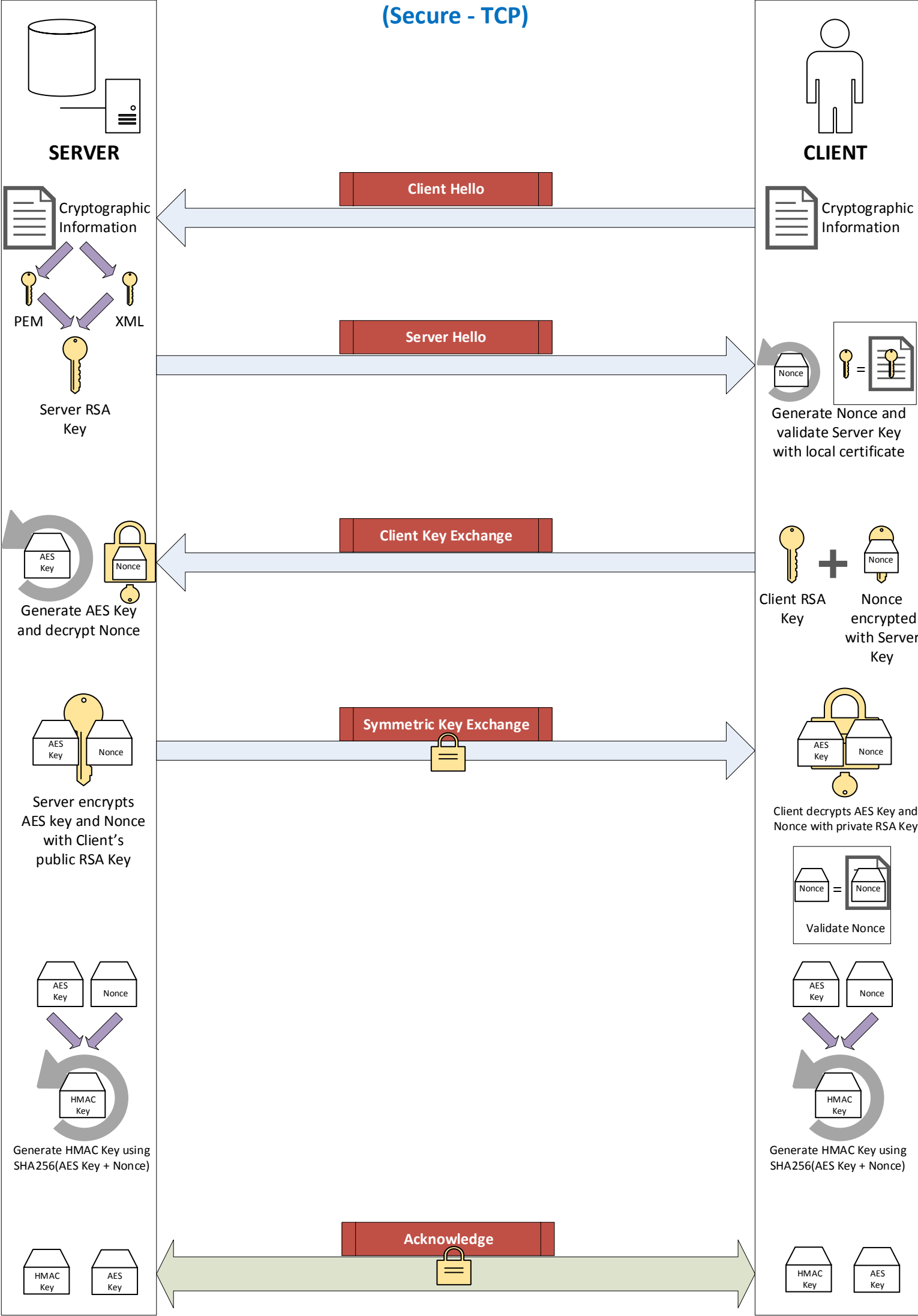


Key Exchange Algorithm  
(Secure - TCP)



TECHNICAL INFORMATION

- 4096 Bit RSA with PKCS1 cipher and OAEP padding
- 256 Bit AES Cipher Block Chaining (CBC) + 16 Byte IV + 16 Byte Blocksize + SHA256
- UTF8 Encoding
- Nonce: SHA256 Hashed cryptographic random Integer (range  $0 - (2^{63} - 1)$ )
- HMAC:  $\text{SHA256}(\text{HMAC\_KEY}[32:] + \text{SHA256}(\text{HMAC\_KEY}[:32] + \text{ENCRYPTED\_MESSAGE}))$