Below are diagrams illustrating various cryptographic concepts, including Message Authentication Codes (MAC), length extension attacks, and the SHA-1 hashing algorithm, MD5, HMAC. Each diagram is clearly labeled to reflect its corresponding topic.

Below is an illustration of how a MAC is generated and verified



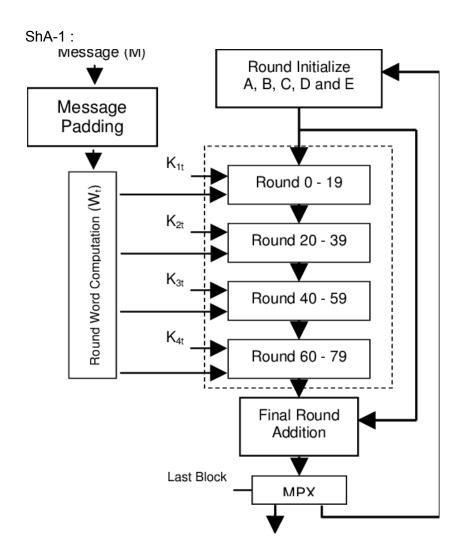
Length Extension Attack Known: H(m), len(m) Attacker computes H(m || padding || extension)

Extension

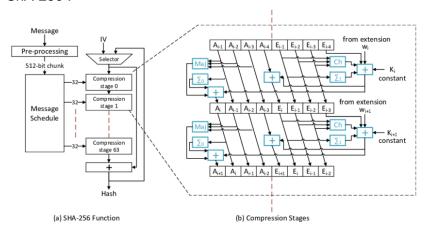
Valid MAC

Padding

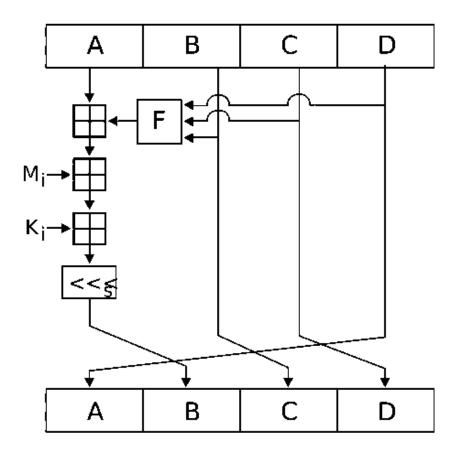
Forged Message



ShA-256:



MD5:



HMAC Algorithm :

