Authenticated Encryption (2013)

Alice an Bob share a key K





Encrypt-and-MAC (E&M)	$AE_k(m) = E_K(m) \parallel H_K(m)$	SSH
MAC-then-Encrypt (MtE)	$AE_k(m) = E_K(m \parallel H_K(m))$	SSL
Encrypt-then-MAC (EtM)	$AE_k(m) = E_K(m) \parallel H_K(E_K(m))$	AES-GCM

Digital Signatures