notation and acronyms	meaning
AP_0	the current AP
AP_1	the target AP
ID_X	the identity of X
tID_X	the temporary identity of X
m_w	the warrant information
T_{EXP}	the expiration time
T_{cur}^X	the current time of X
PTK_{X-Y}	the pairwise transient key between X and Y
K_{X-Y}	the shared secret key between X and Y
$CMAC$	Cipher-based Message Authentication Code
$m_{K_{X-Y}}$	the message m encrypted with the key K_{X-Y}
F	a Galois field
E	an elliptic curve over F
T	a point on E
E/F	an additive group derived from E and F
q	the largest prime factor of the order of T
Z_x^*	a cyclic group of order $x-1$ for prime number x
$h(\cdot)$	hash function: $\{0,1\}^* \rightarrow Z_x^*$
$\cdot$	a point multiplication operator in E/F
$+$	a point addition operator in E/F
$\|$	the concatenation operator of two bit strings