$\sim$ M 4 = AES CMAC(AES CMAC(AES CMAC(AES CMAC(ZERO,

M\_4 = AES\_CMAC(AES\_CMAC(AES\_CMAC(AES\_CMAC(ZERO, concat(concat(concat(concat(PI,PCap),PS),p256(gen,exp\_P\_1)),gen)),p256(gen,exp\_P\_1)),prck),concat(rand\_prov\_2,static\_oobdata))

~M\_6 = AES\_CCM((ivindex,keys),AES\_CMAC(AES\_CMAC(AES\_CMAC(AES\_CMAC(ZERO,concat(concat(AES\_CMAC(ZERO,concat(concat(concat(Concat(Concat(PI,PCap),PS),p256(gen,exp\_P\_1)), gen)),rand\_prov\_2),rand\_prov\_2)),p256(gen,exp\_P\_1)),prsk),AES\_CMAC(AES\_CMAC(AES\_CMAC(ZERO,concat(concat(AES\_CMAC(ZERO,concat(concat(Concat(Concat(PI,PCap), PS),p256(gen,exp\_P\_1)),gen)),rand\_prov\_2),rand\_prov\_2)),p256(gen,exp\_P\_1)),gen)),rand\_prov\_2),rand\_prov\_2)),p256(gen,exp\_P\_1)),prsn))

Attacker

Beginning of process Meshapp\_central
{171}new seq1\_4
{172}insert mesh\_seq\_c(addr\_prov,seq1\_4)  $\sim$ M = PI  $\sim$ M\_2 = PS  $\sim$  M\_5 = rand\_prov\_2  $\sim$  M\_5 = rand\_prov\_2 {46} event recv\_prov(p256(gen,exp\_P\_1))

{51} insert key\_table\_prov(addr\_dev,AES\_CMAC(AES\_CMA {54}insert nonce\_table\_prov(addr\_dev,AES\_CMAC(AES\_CMAC(ZERO,concat(concat(AES\_CMAC(ZERO,concat(PI,PCap),PS), p256(gen,exp\_P\_1)),gen)),rand\_prov\_2),rand\_prov\_2)), p256(gen,exp\_P\_1)),prsn)) {92} get key\_table\_prov(addr\_dev,AES\_CMAC(AES\_CMAC(AES\_CMAC(ZERO,concat(Concat(AES\_CMAC(ZERO,concat(Concat(Concat(Concat(PI,PCap),PS),p256(gen,exp\_P\_1)), gen)),rand\_prov\_2),rand\_prov\_2)),p256(gen,exp\_P\_1)), prsk))

**Honest Process**