To prove, Pr(Vrfy(zm,ts); stm&Q) < neg(cn) r is reused from the message which was queried 11m11=11m1) 11m11+11m11 (after padding till (after padding till multiple of n/4) multiple of n/4) where mea where m'&a and mea and mea

Ilmil=Ilmil (after padding till multiple of 1/4) where mea and mea: m 7 m' => there exists a message block i for which m; fm! now, E: = Fx(r||d||i||mi), + = Fx(r||d||i||mi) no way to know fi. Assuming Fx is Provably Secure PRF => Pr(tifti) < negl(n)

||m||+||m||| (after padding till multiple of n/4) where m'&a and mea let the length of m' be 1, My Here we don't know the value t = f(r||d||...), t= F(r||d||....) Assuming FK i's provably secure => Pr(t=ti) & neg((n) New r is used Let the length of m' be l', 1114, Here we don't have the value, t1= F(r/18 . -.) t= F(111 --)

Assuming Fk is provably secure

PRF

Pr(t=t') < negl(n)