1. **A→TC:** {TC, AppKey, B, preNA}$_{KA}$
2. **TC→A:** {A, AppMK, B, TRUE, preNA, MK}$_{KA}$
3. **TC→B:** {B, A, NTC}$_{KB}$
4. **B→TC:** {TC, A, NTC, preNB}$_{KB}$
5. **TC→B:** {B, AppMK, A, FALSE, preNB, MK}$_{KB}$
6. **A→B:** {B, FALSE, Zero, SKKE}$_{MK}$
7. **B→A:** {A, TRUE}$_{MK}$
8. **A→B:** {NA}$_{MK}$
9. **B→A:** {NB}$_{MK}$
10. **A→B:** MAC{3,A,B,NA,NB}$_{H(MAC\{A,B,NA,NB\}_{MK},1)}$
11. **B→A:** MAC{2,B,A,NB,NA}$_{H(MAC\{A,B,NA,NB\}_{MK},1)}$