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

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