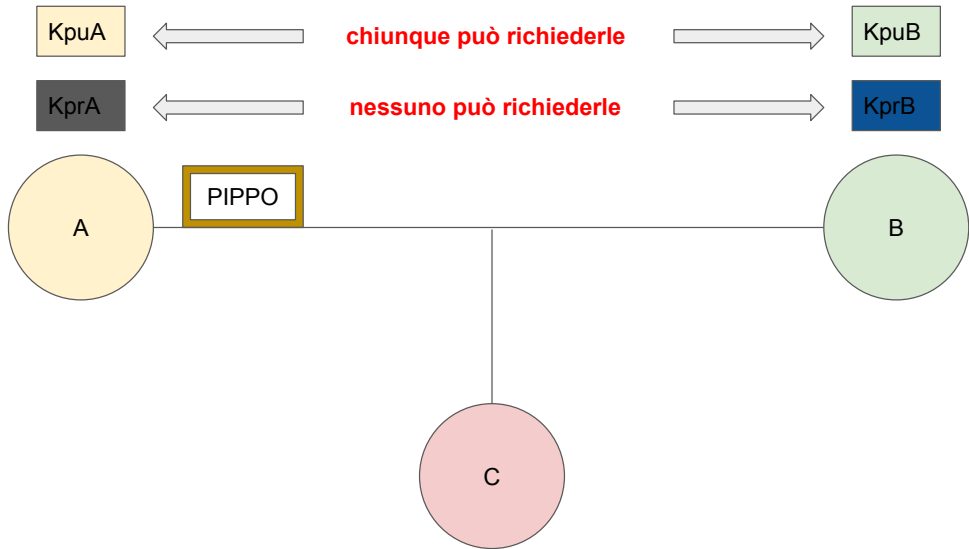


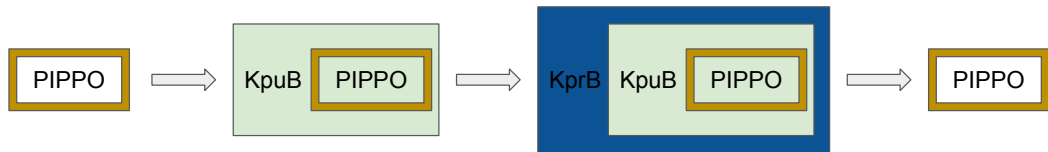
MODELLO RSA

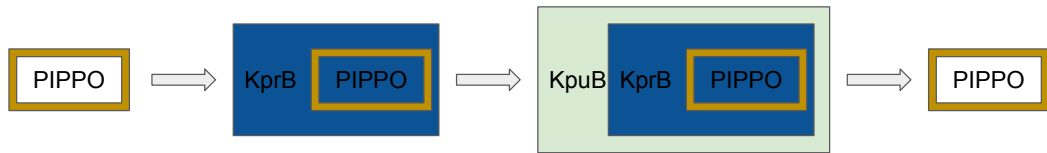
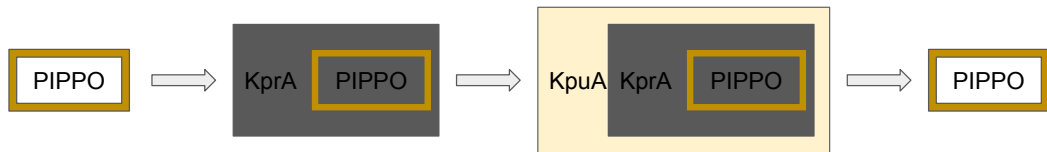
crittografia a chiave asimmetrica



CHIAVI

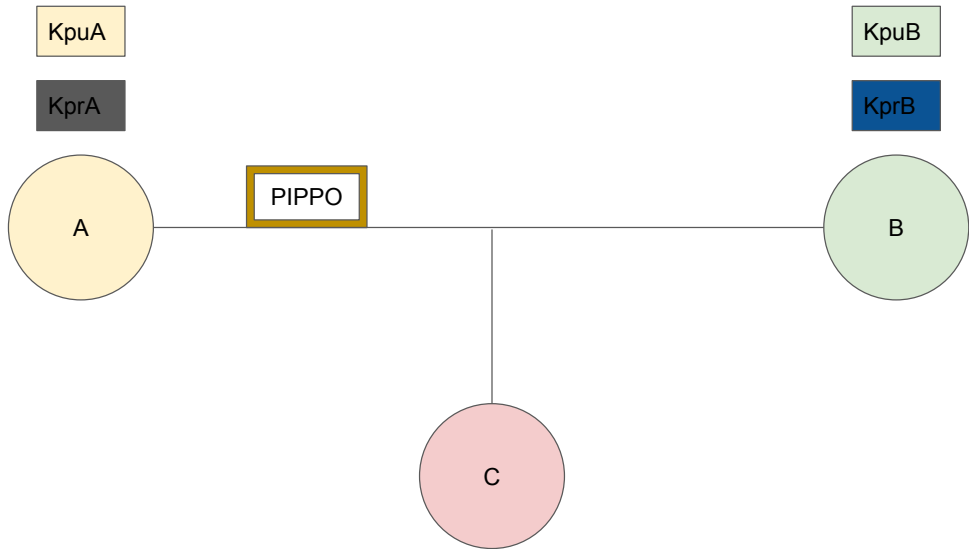
chiavi pubbliche e chiavi private

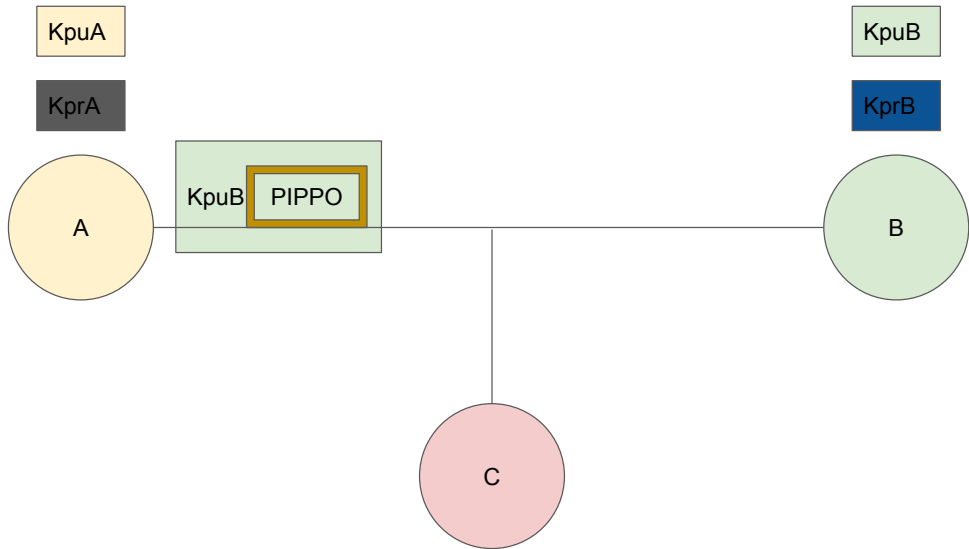


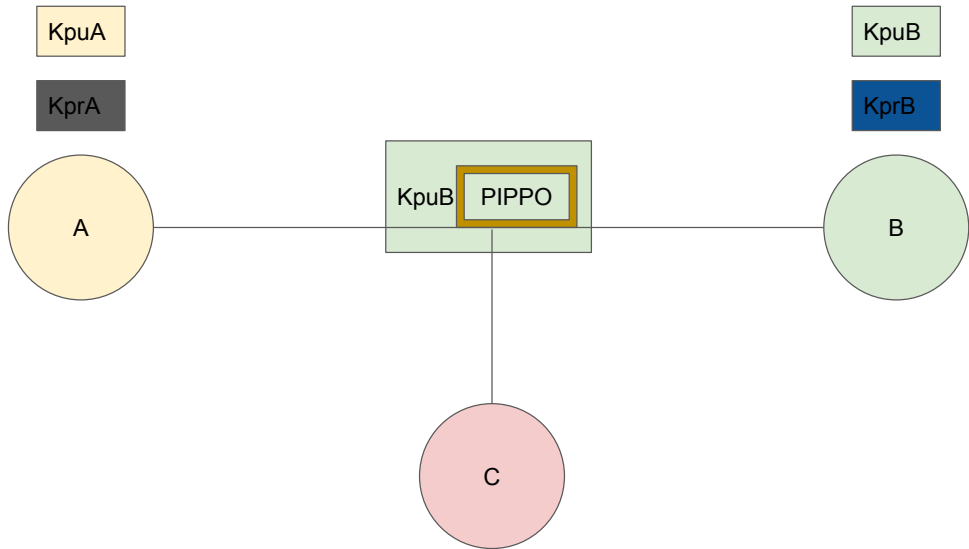


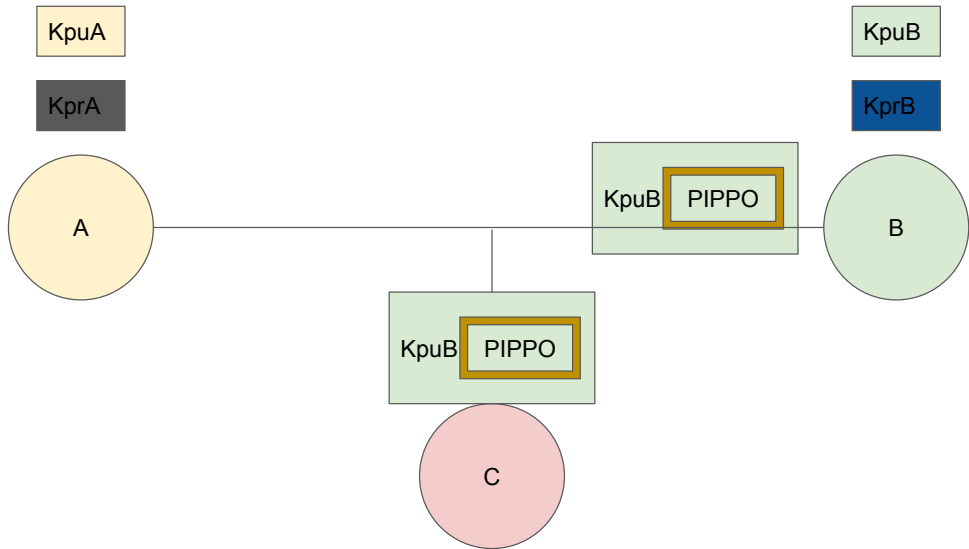
CONFIDENZIALITÀ

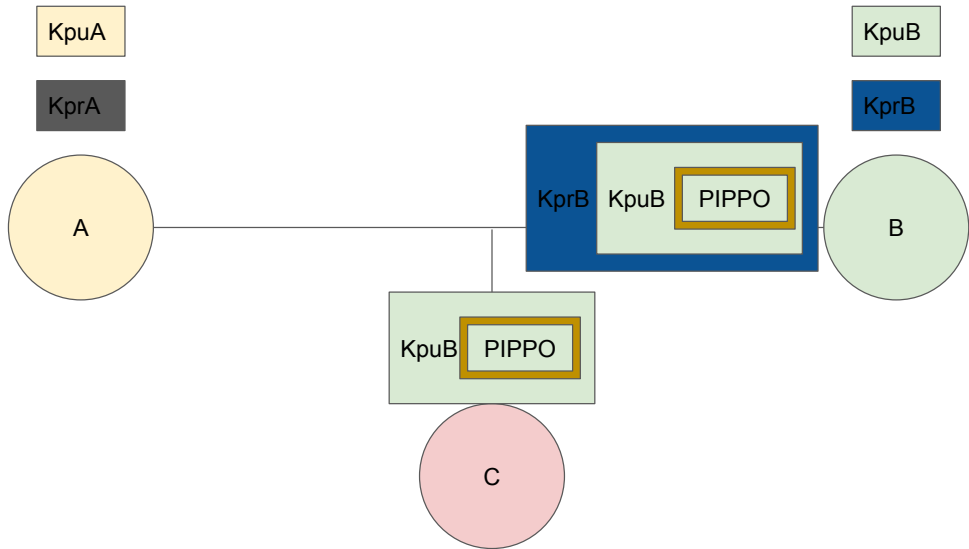
garantire la riservatezza di un messaggio

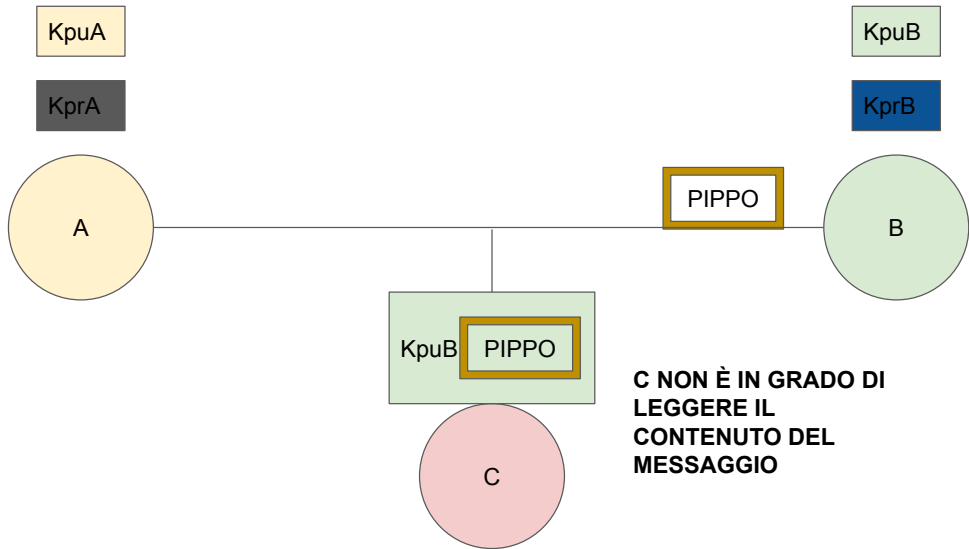


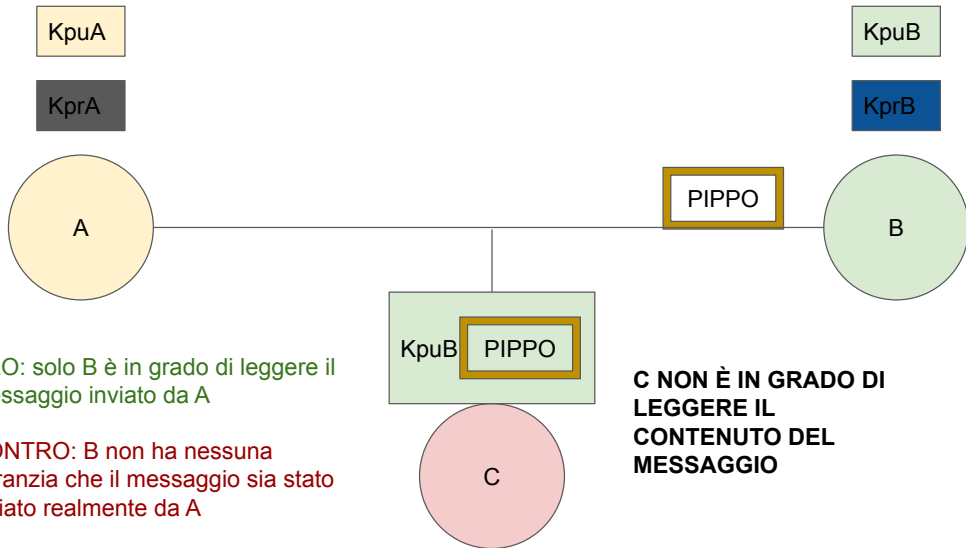






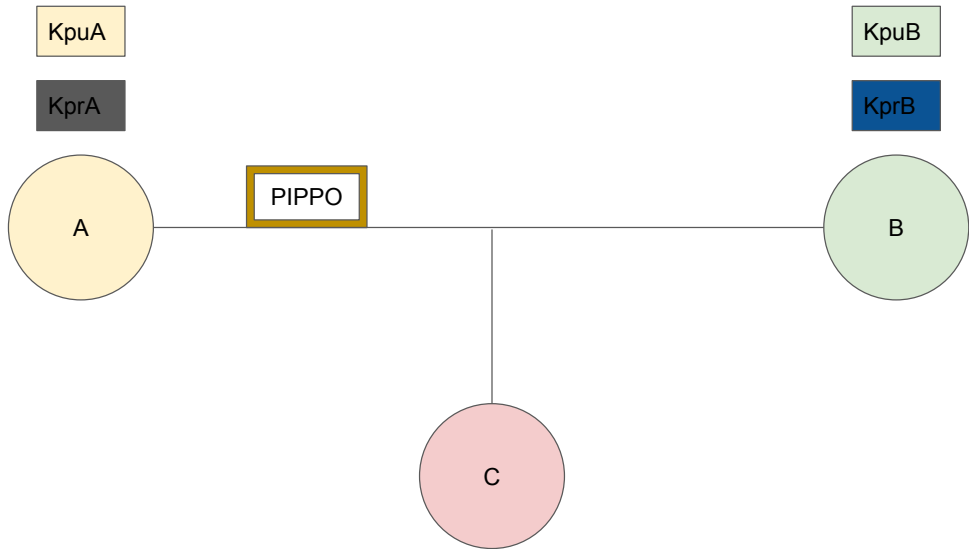


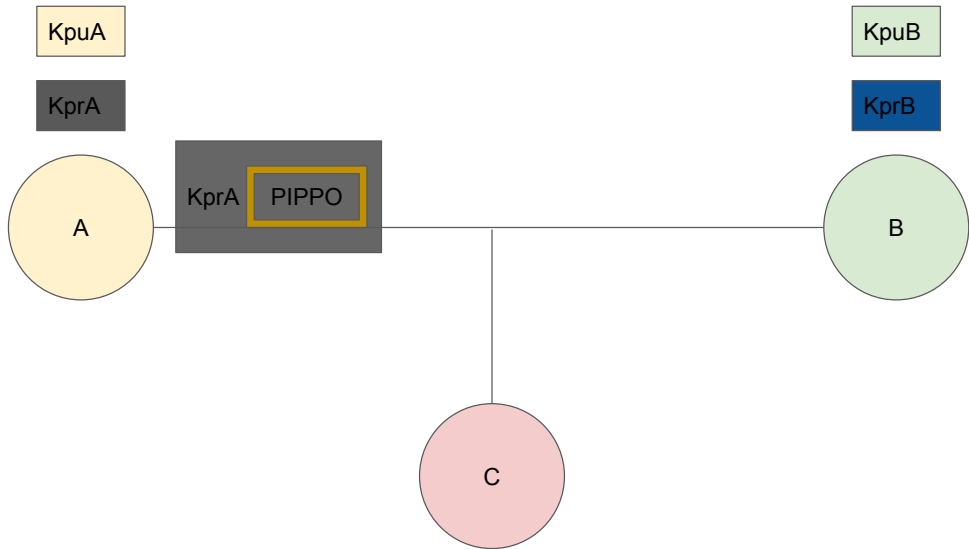


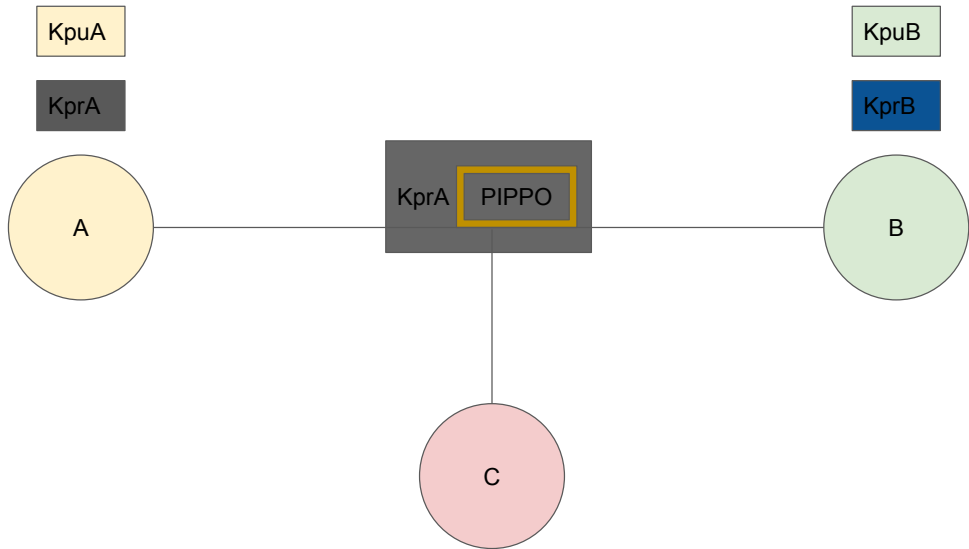


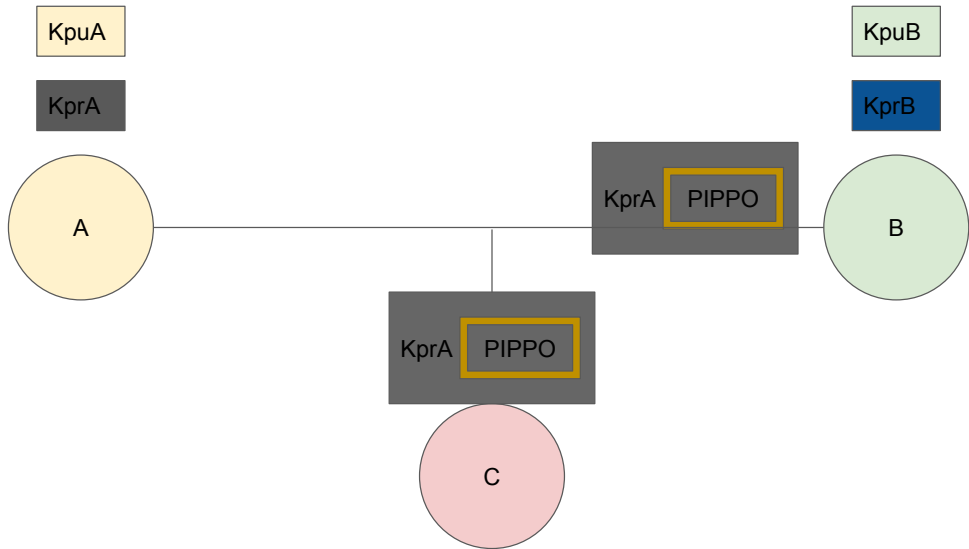
AUTENTICITÀ

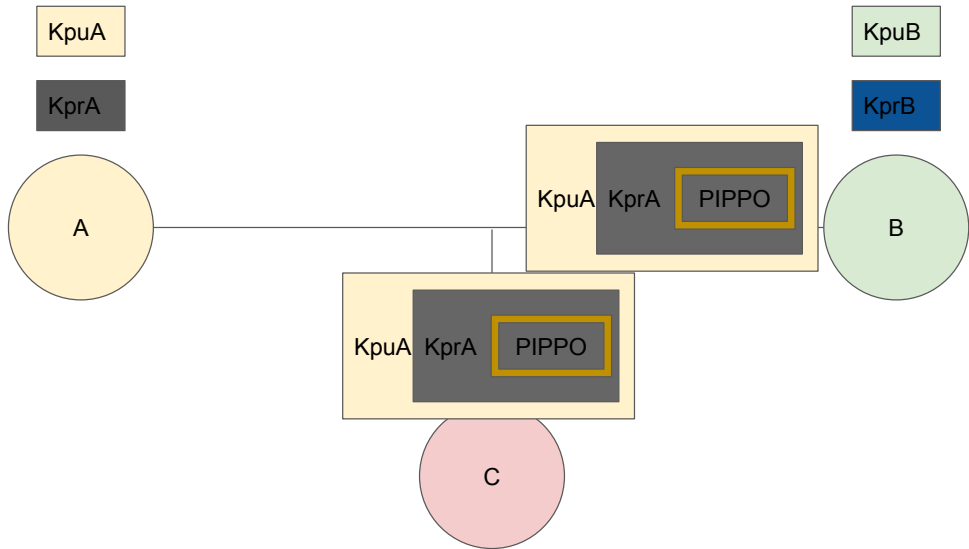
firma digitale

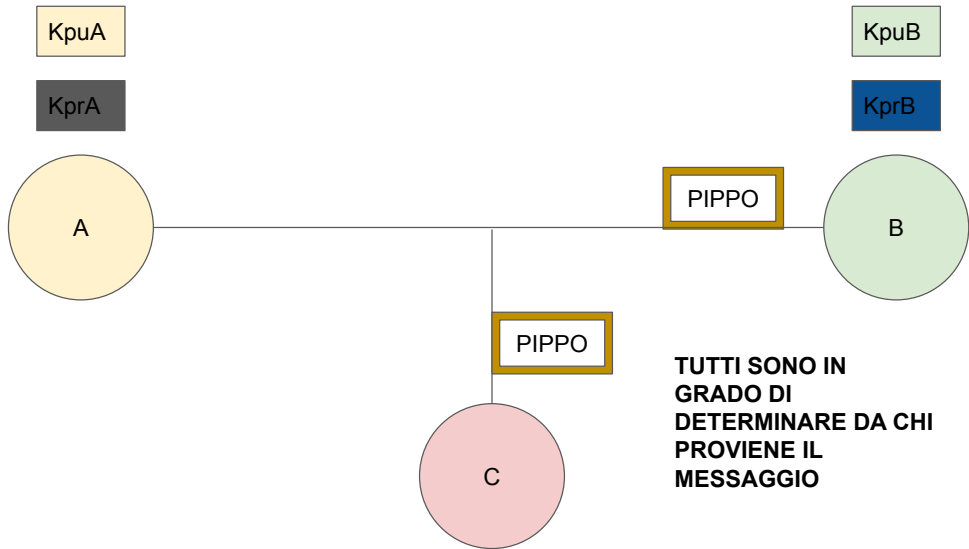


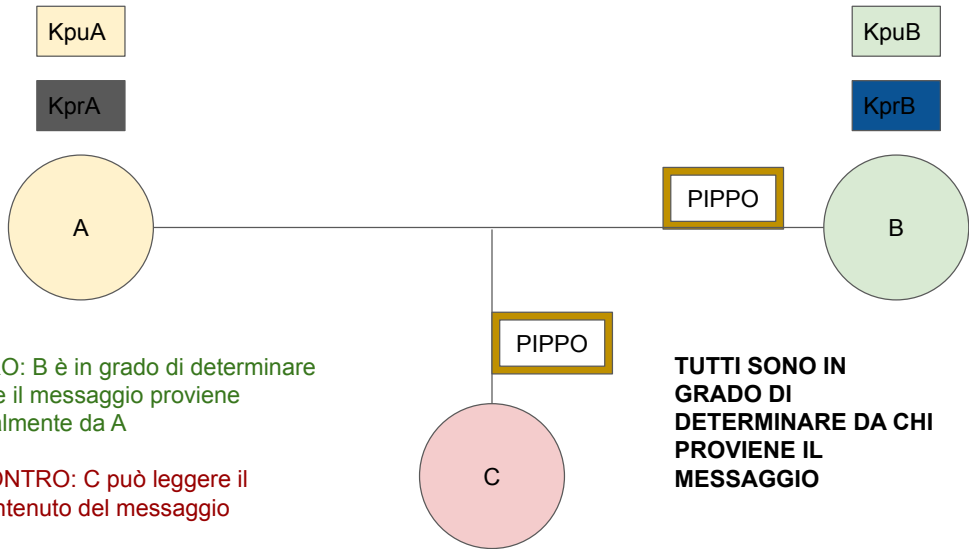










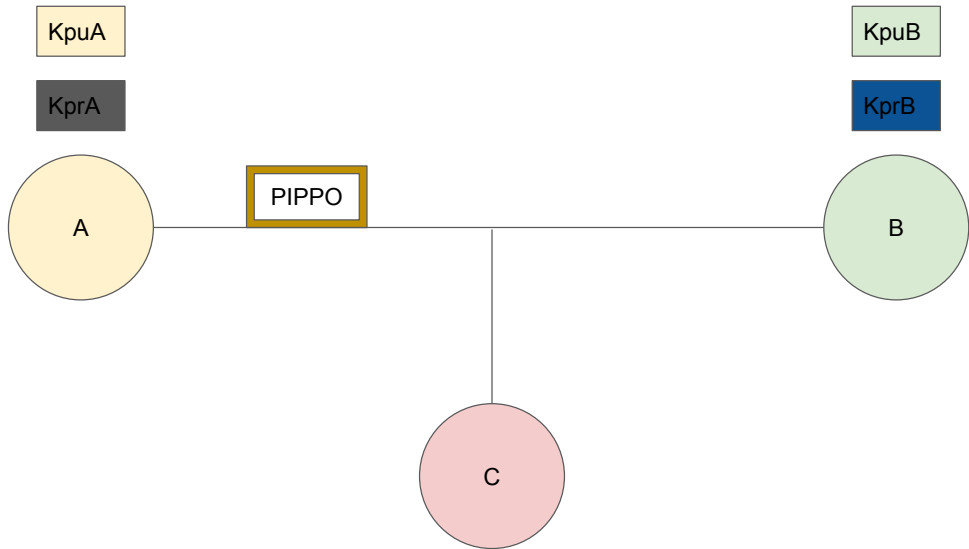


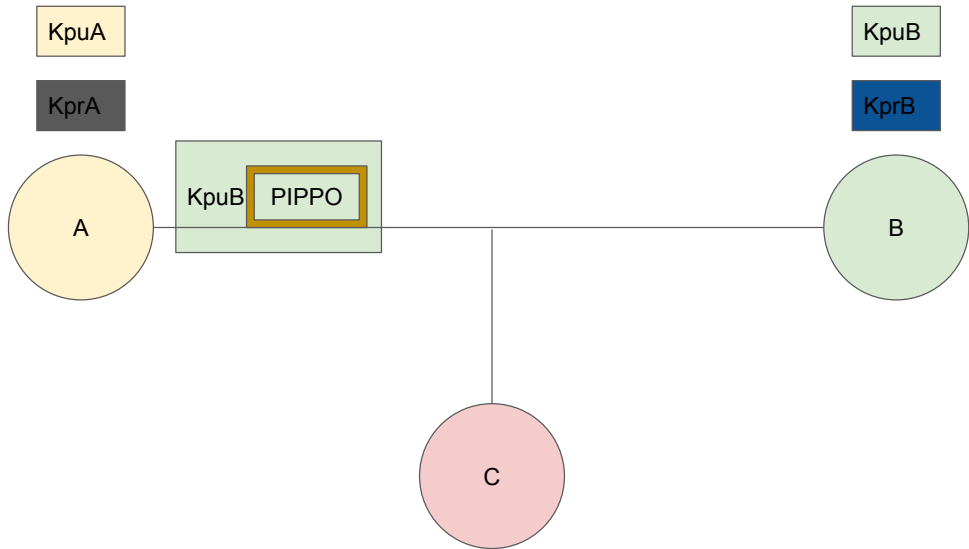
INTEGRITÀ

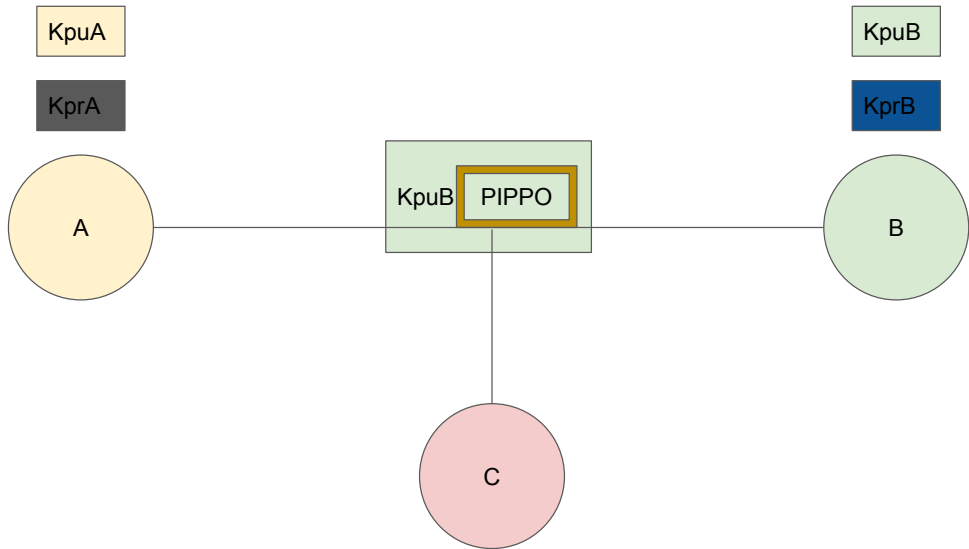
garantire la non modificabilità di un messaggio

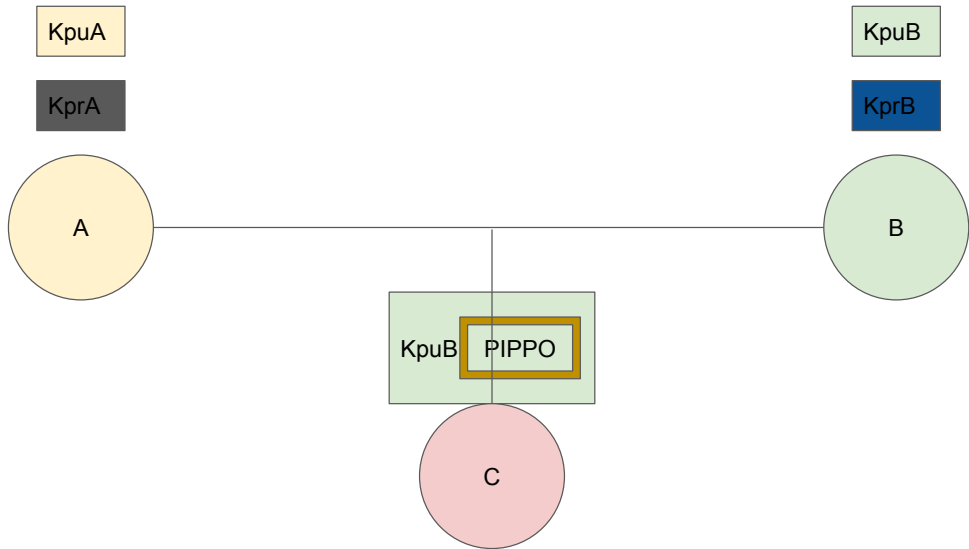
PROBLEMA

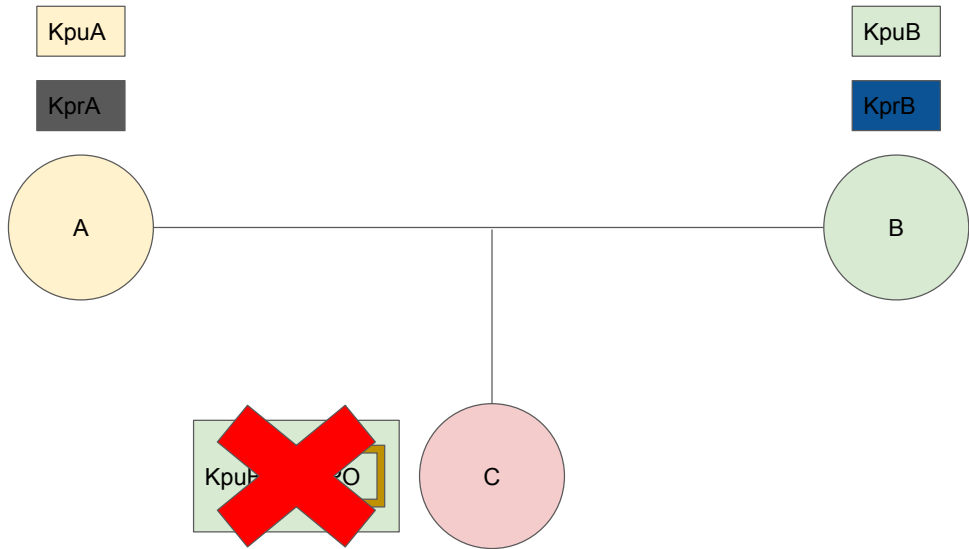
possibile attacco all'integrità di un messaggio

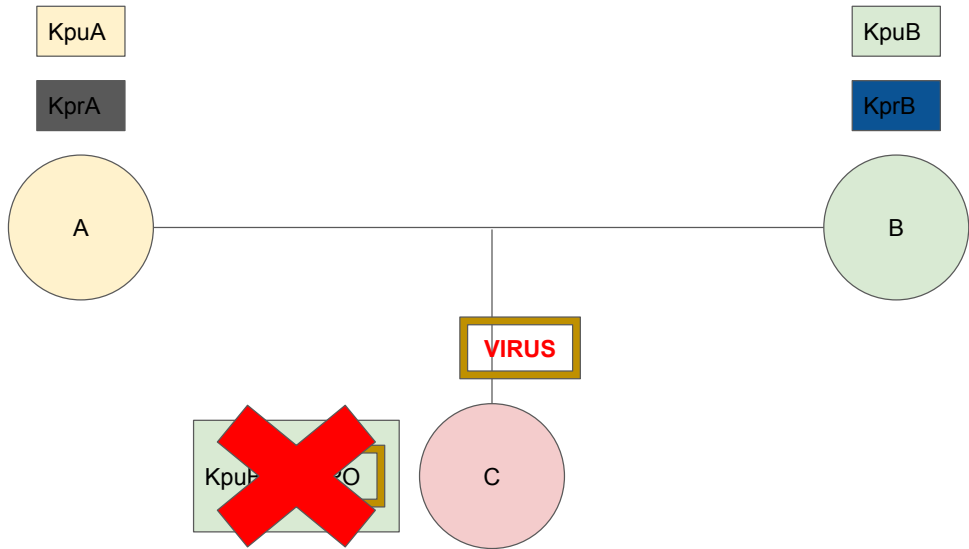


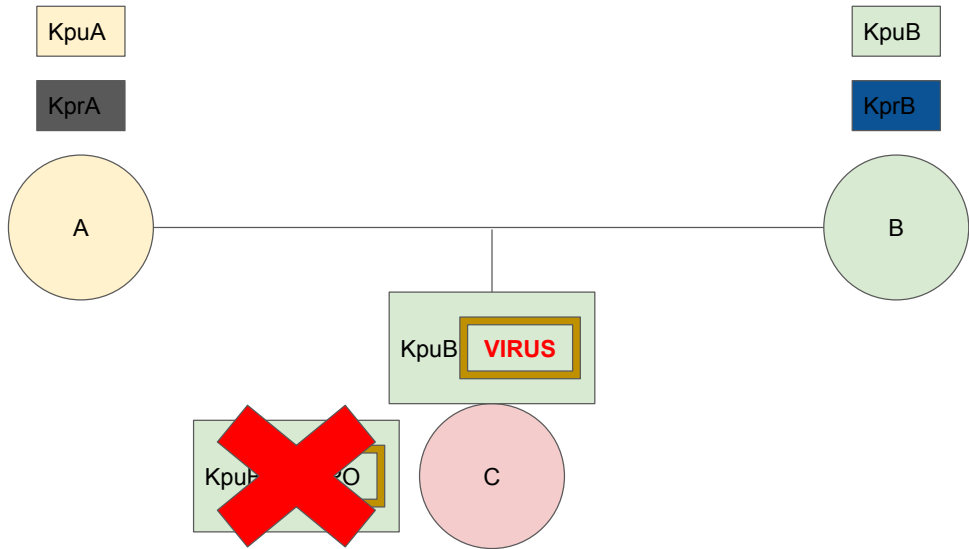


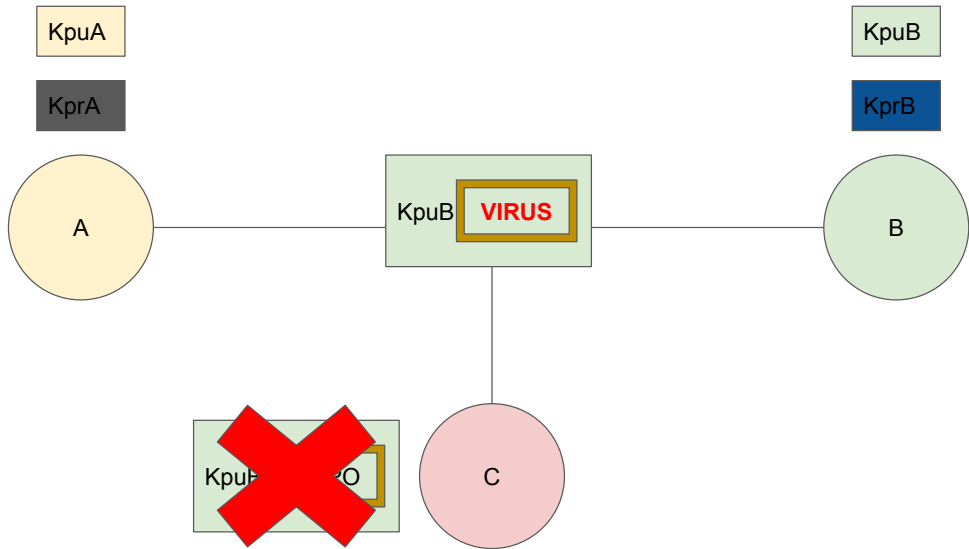


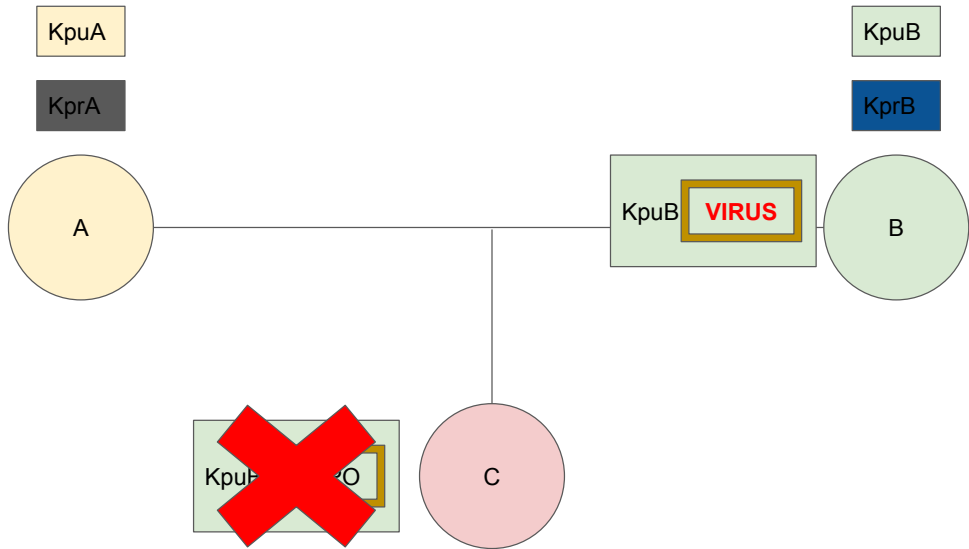


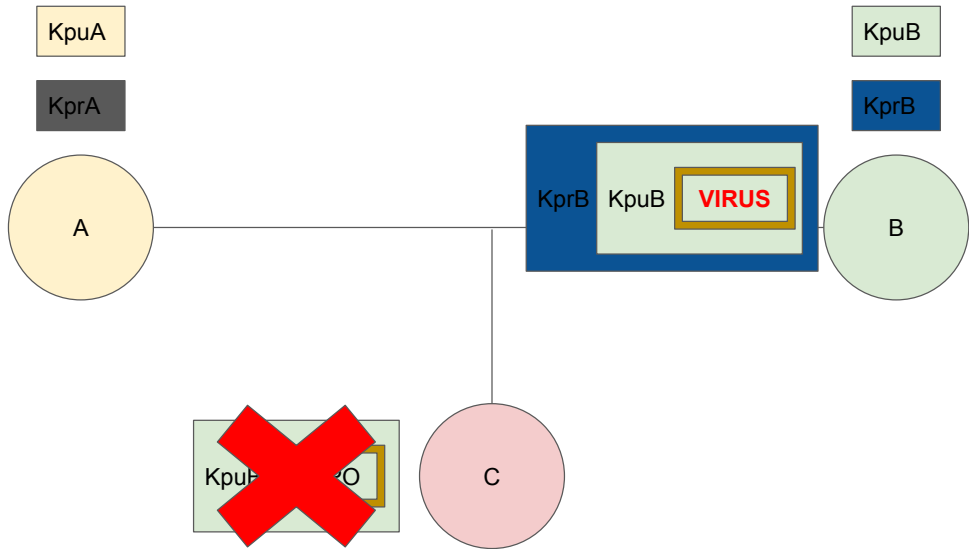


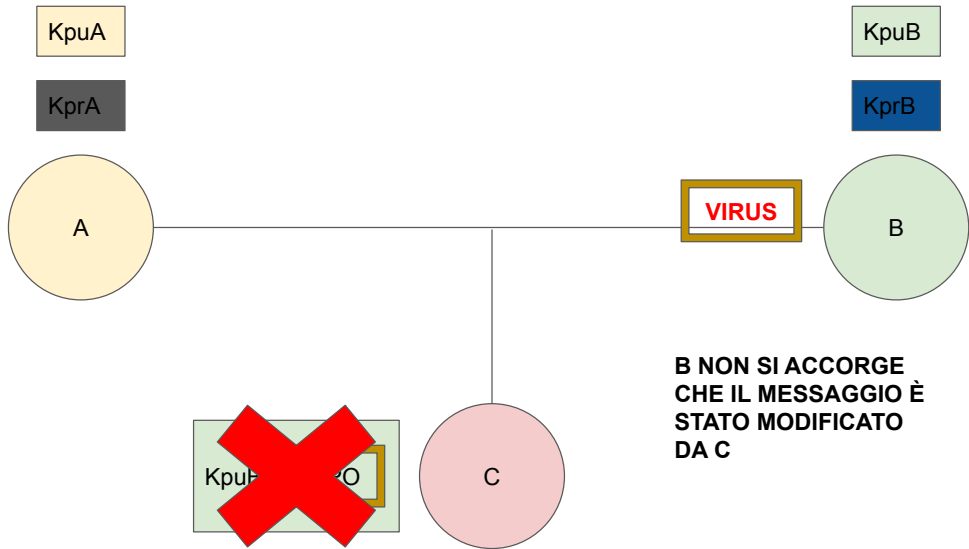






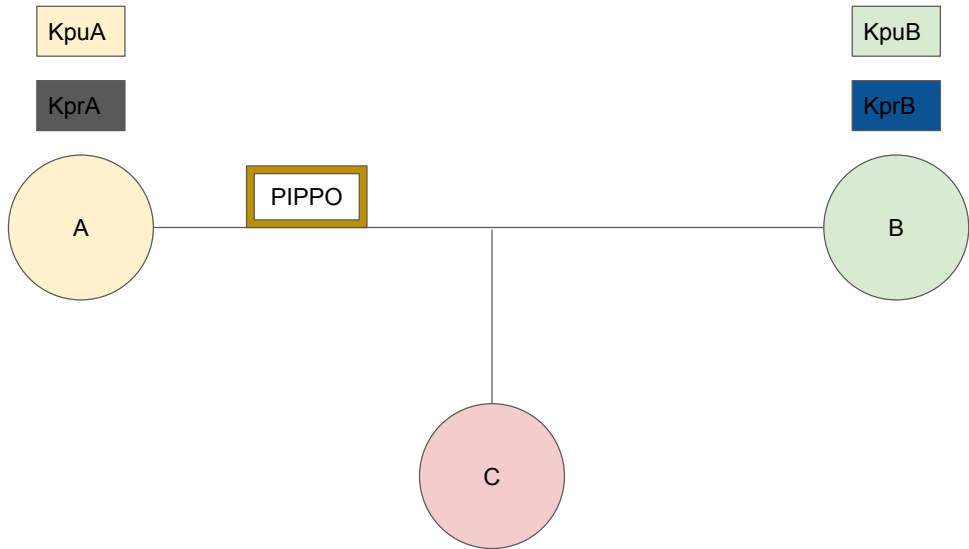


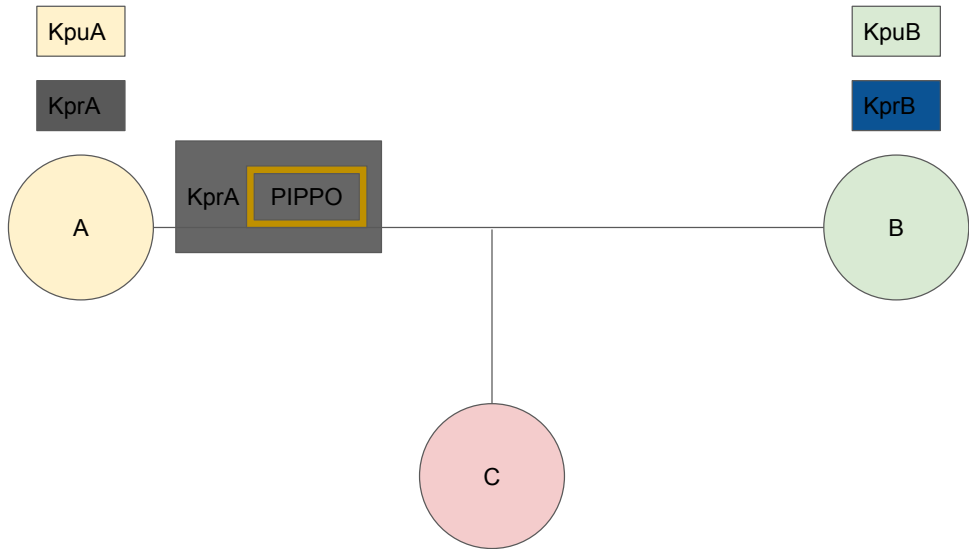


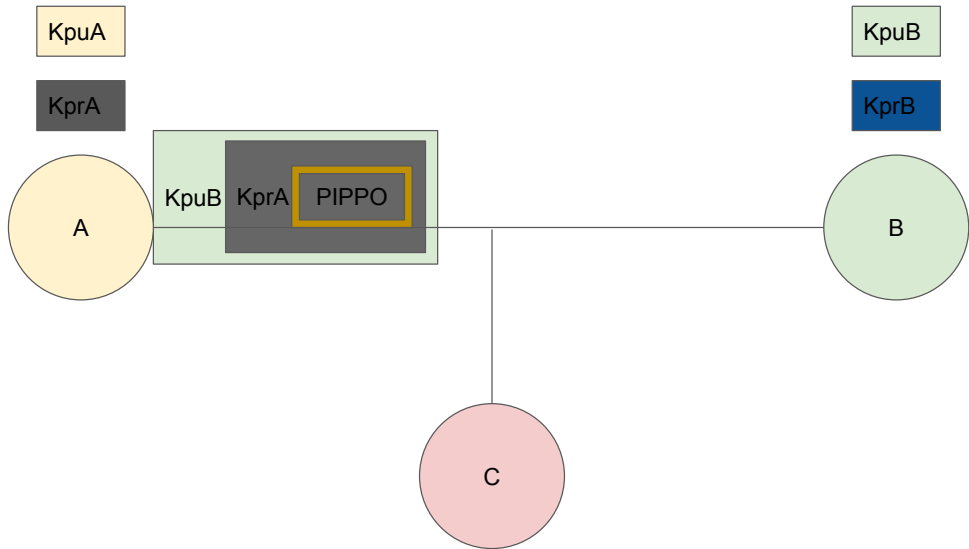


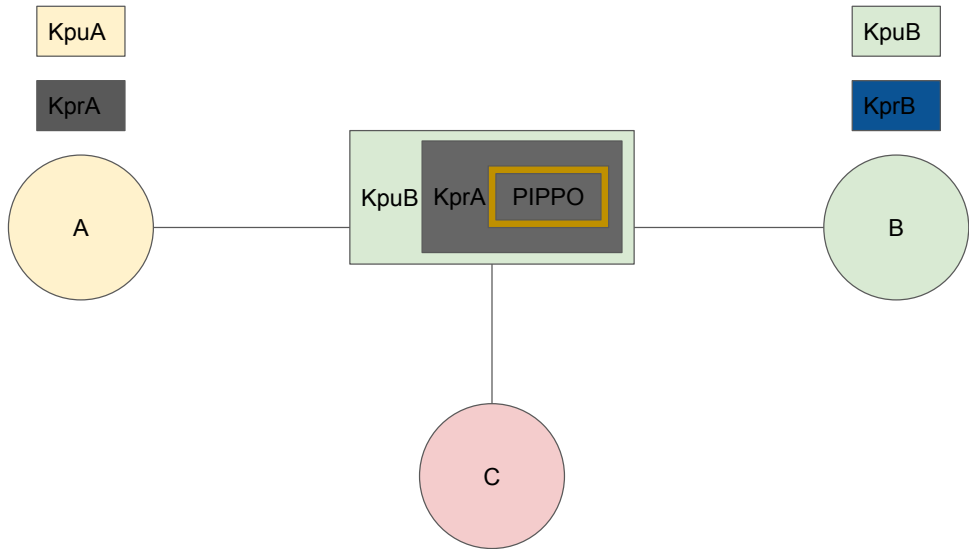
SOLUZIONE

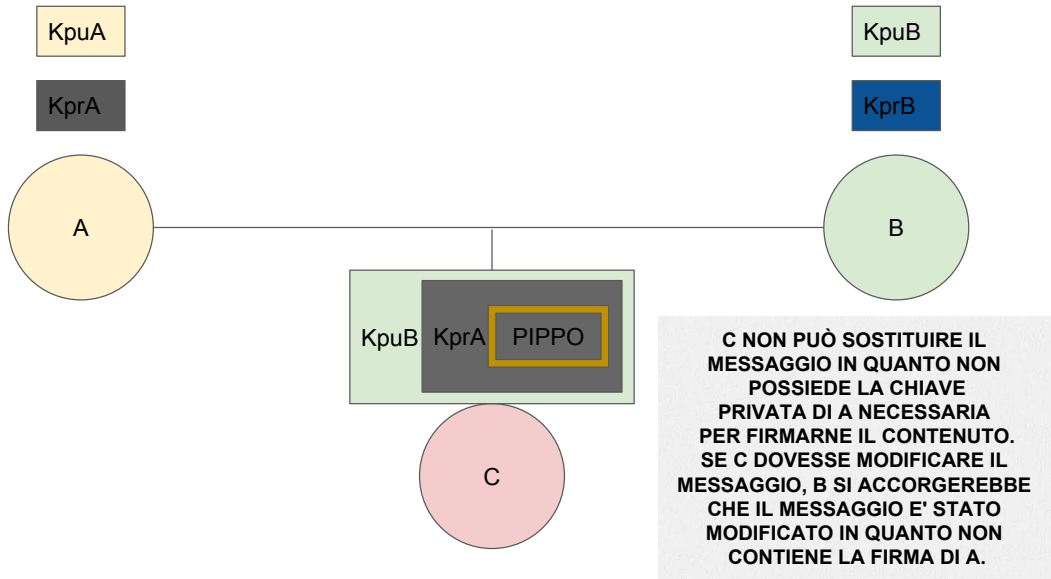
possibile attacco all'integrità di un messaggio

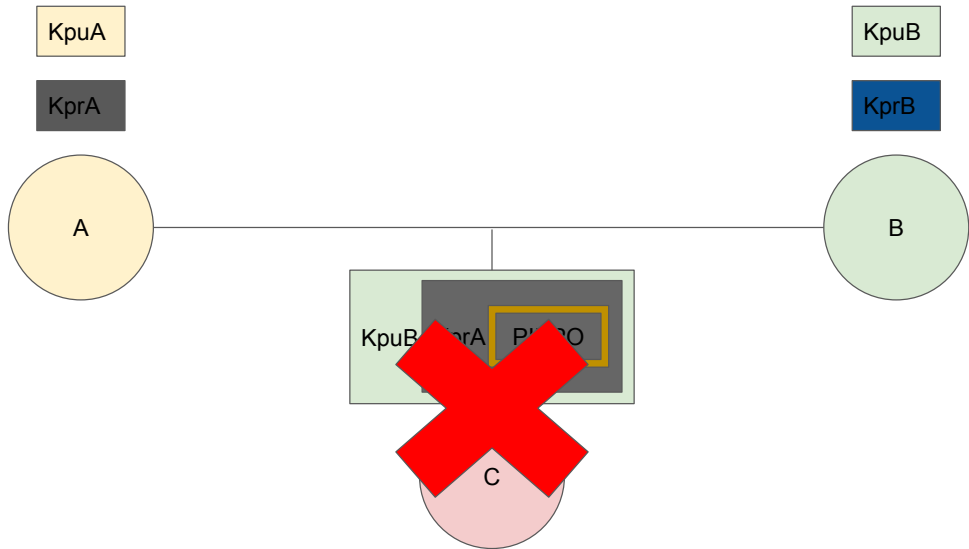


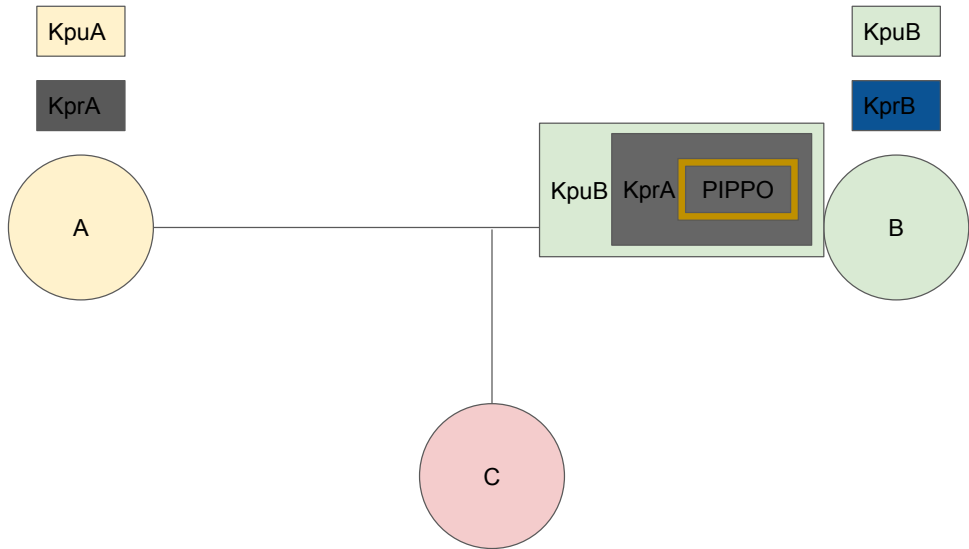


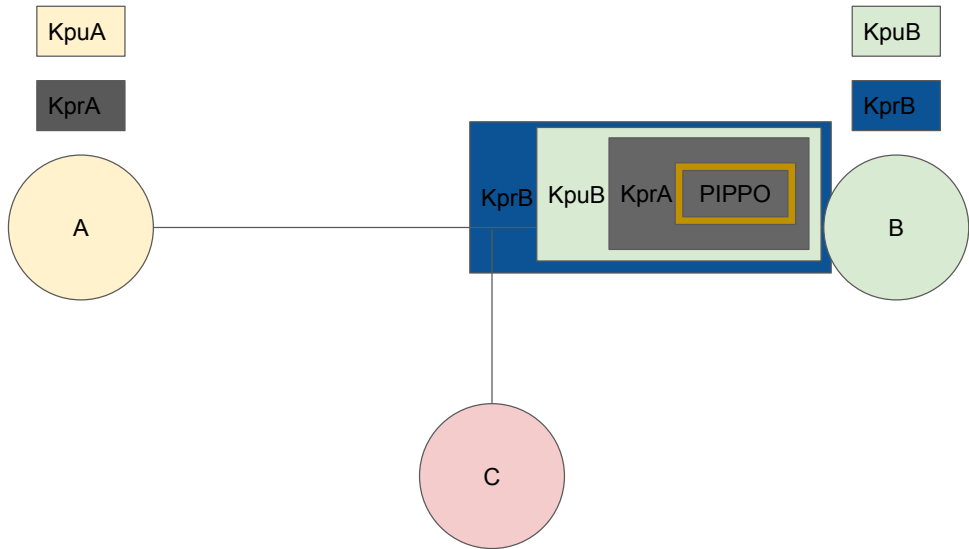


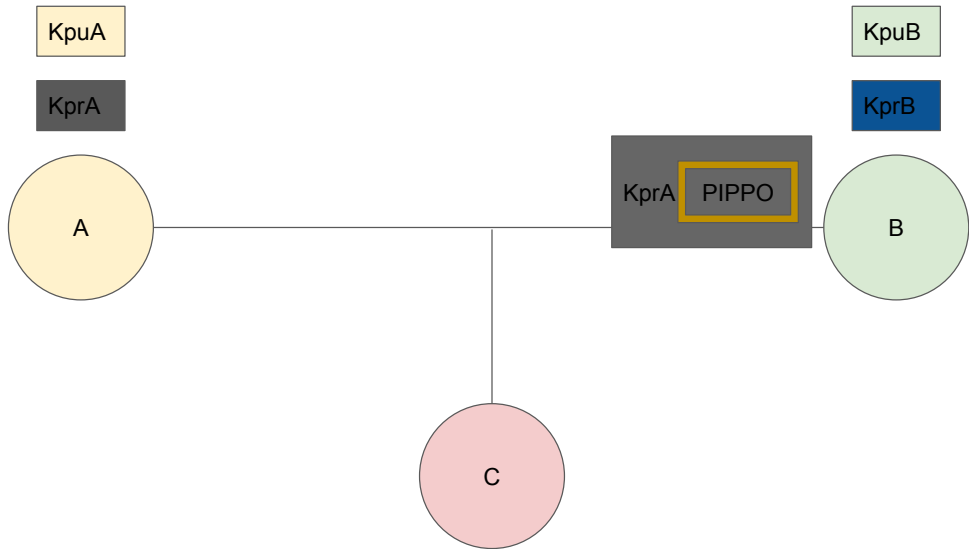


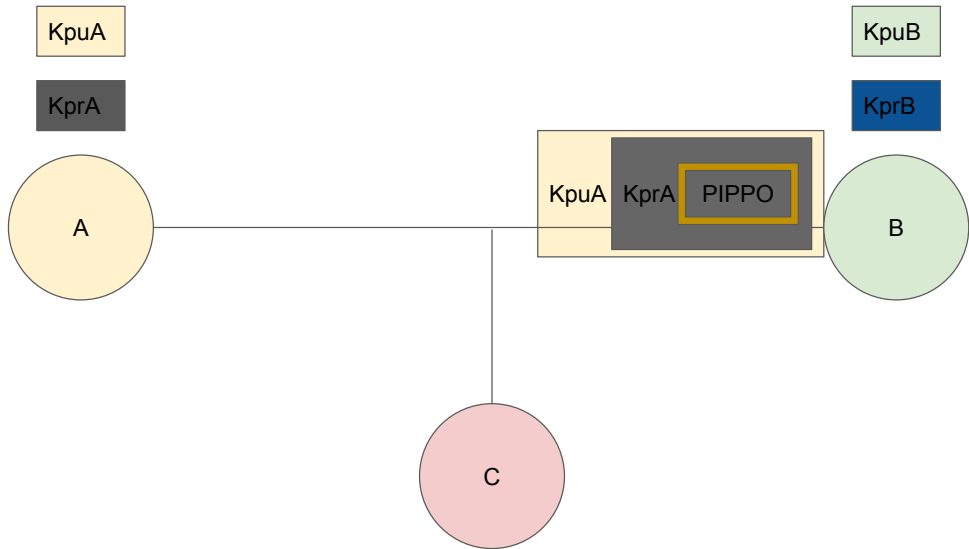


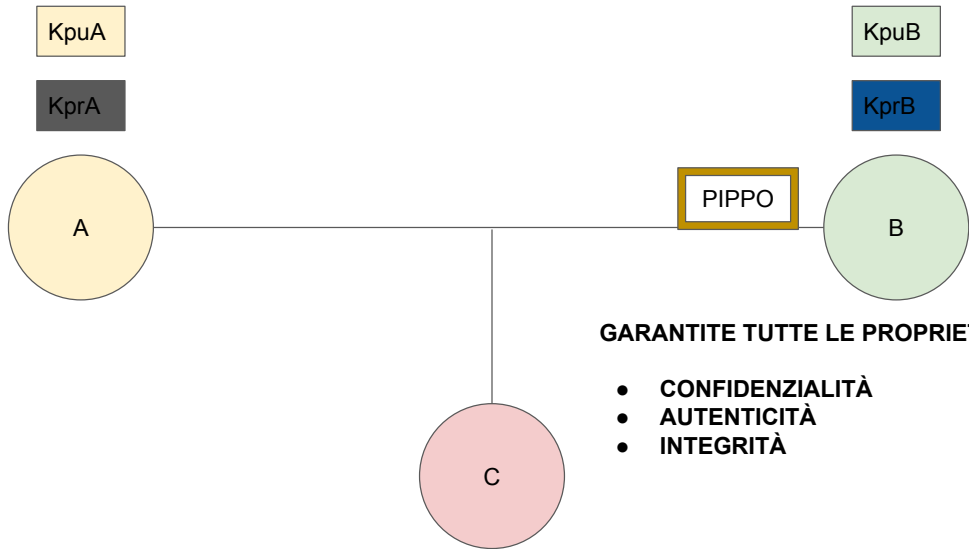










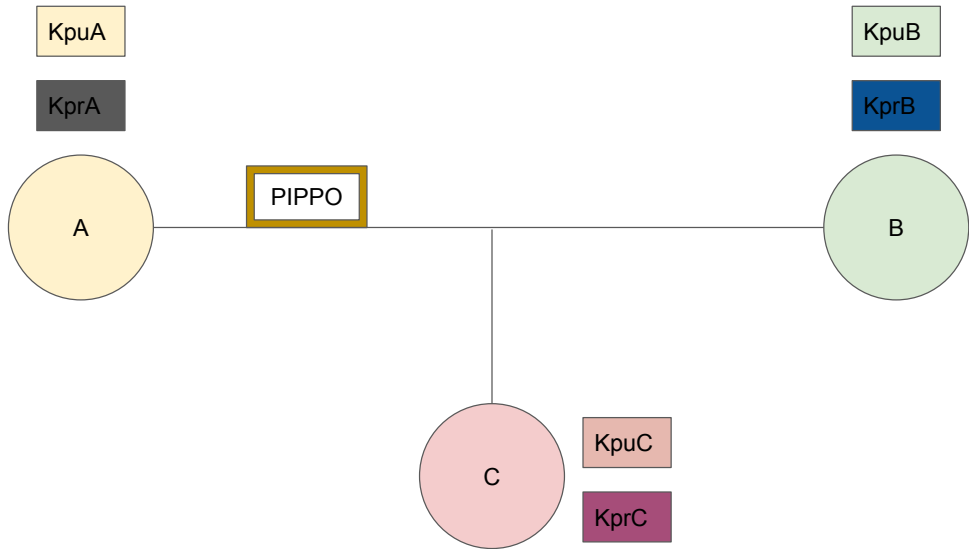


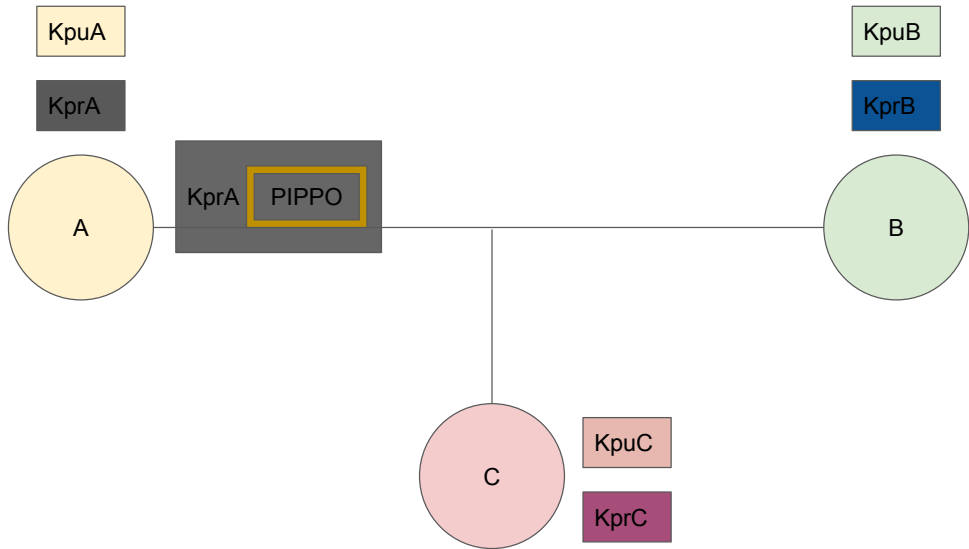
GARANTITE TUTTE LE PROPRIETÀ

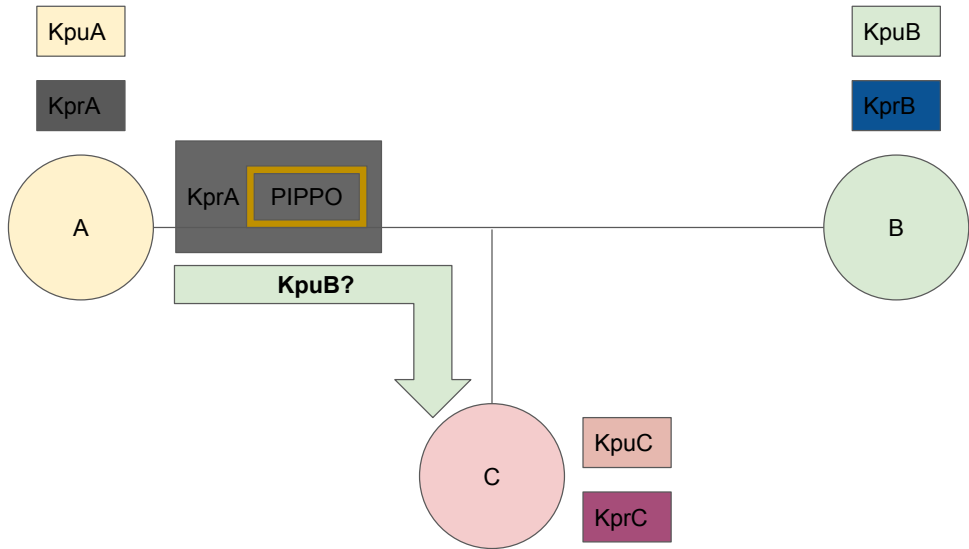
- **CONFIDENZIALITÀ**
- **AUTENTICITÀ**
- **INTEGRITÀ**

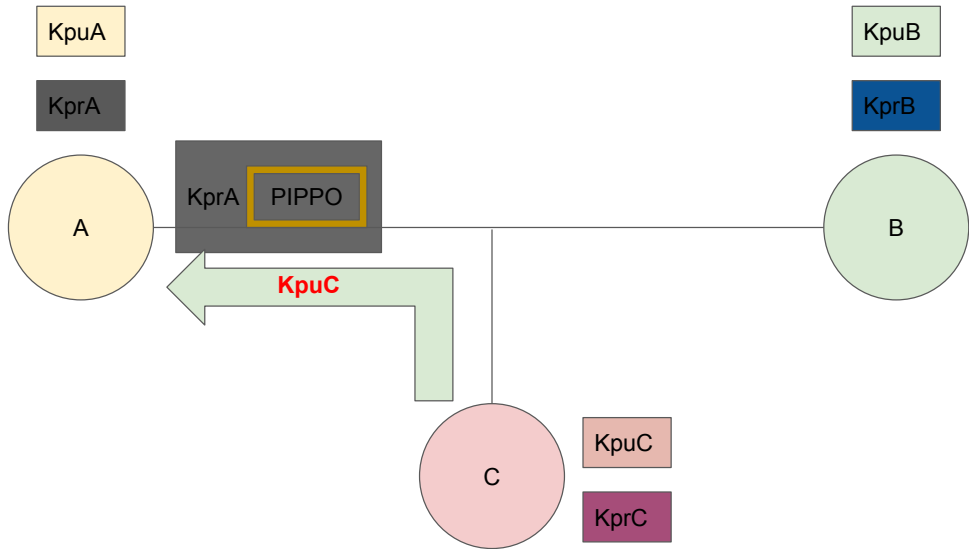
MAN IN THE MIDDLE

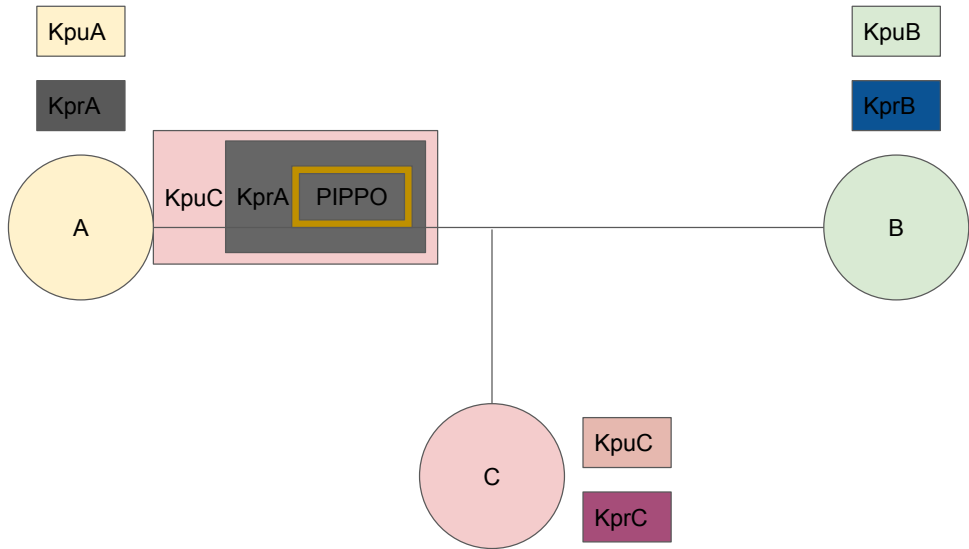
attacco al modello RSA

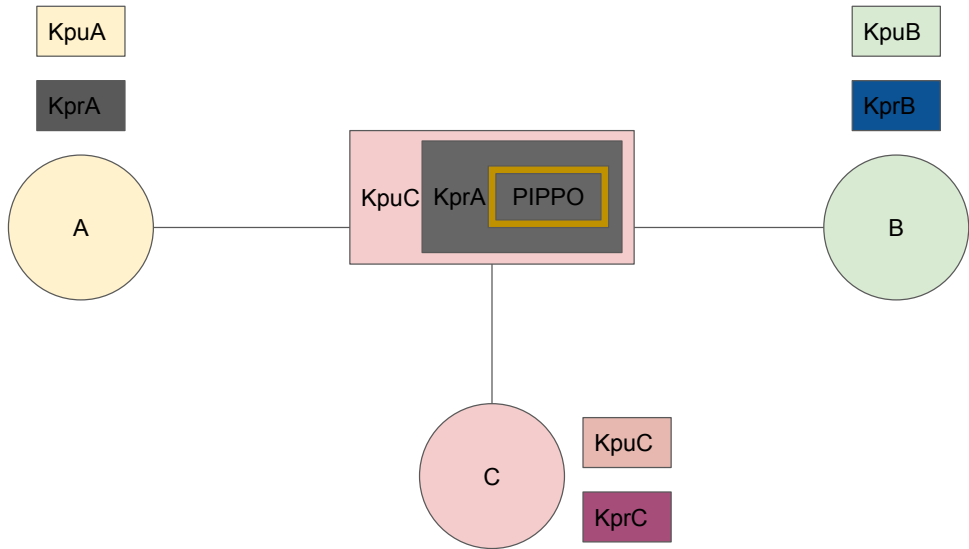


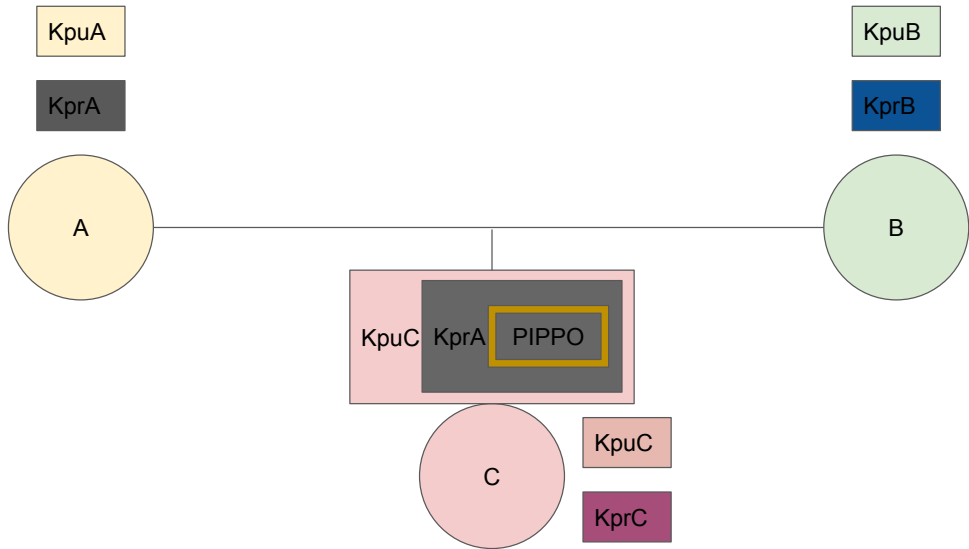


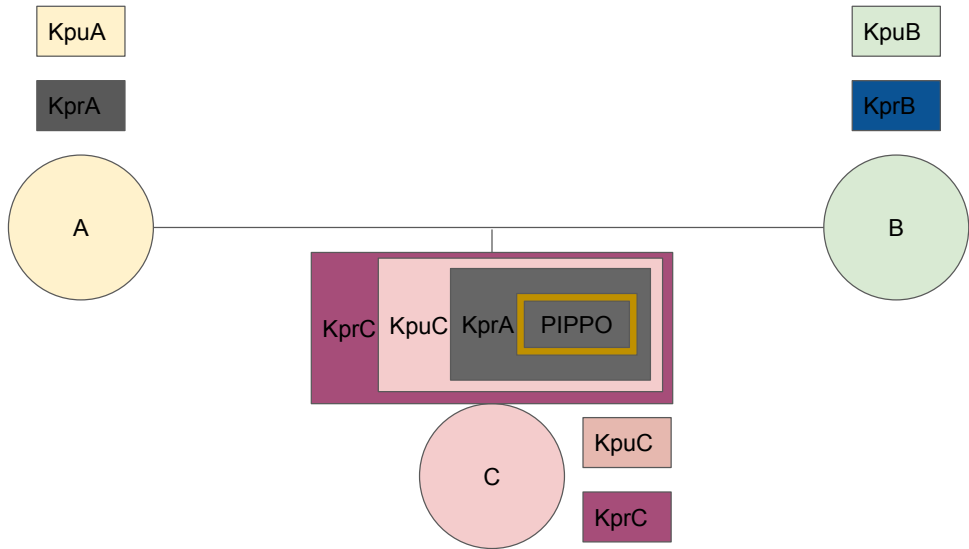


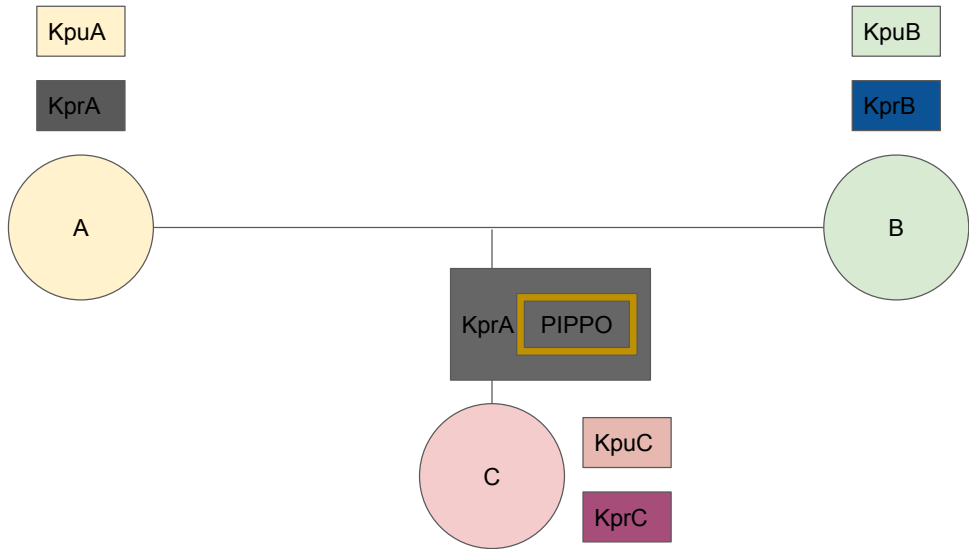


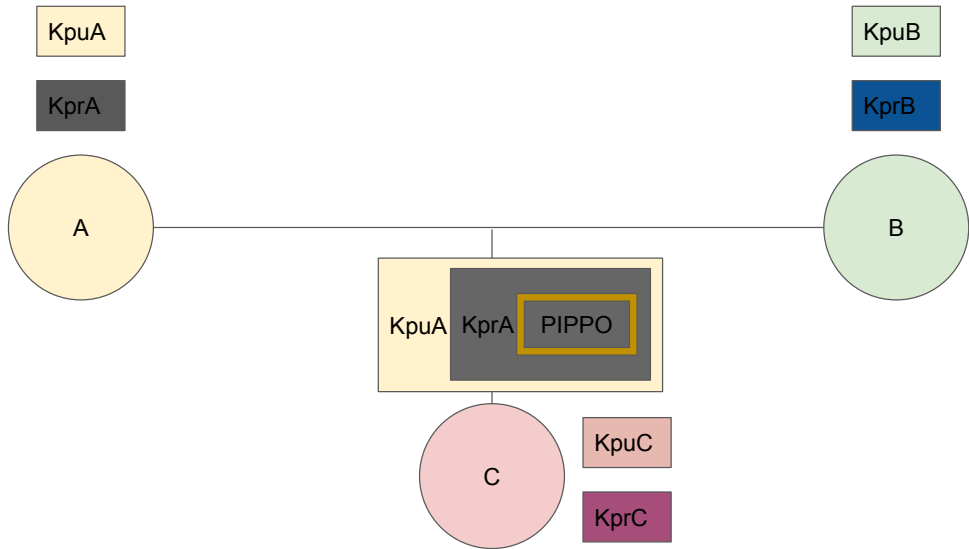


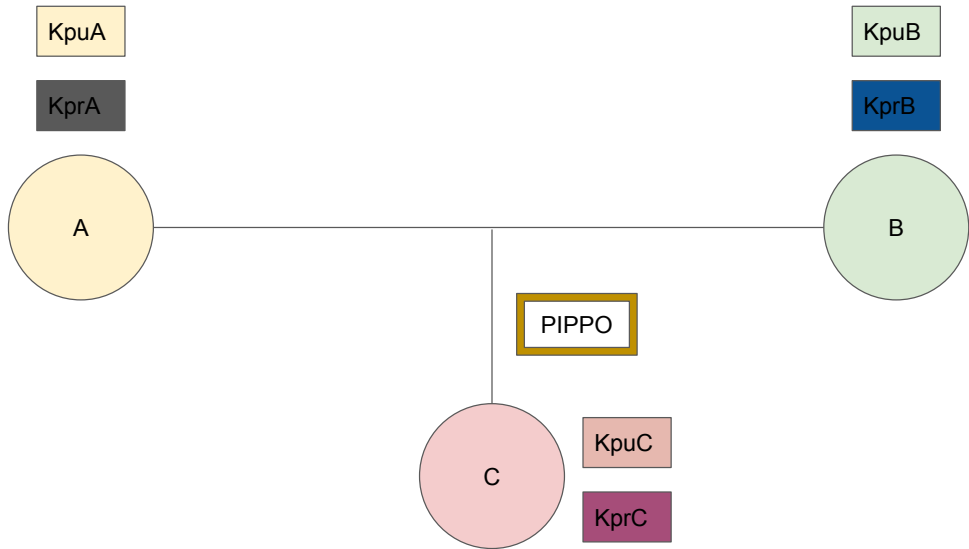


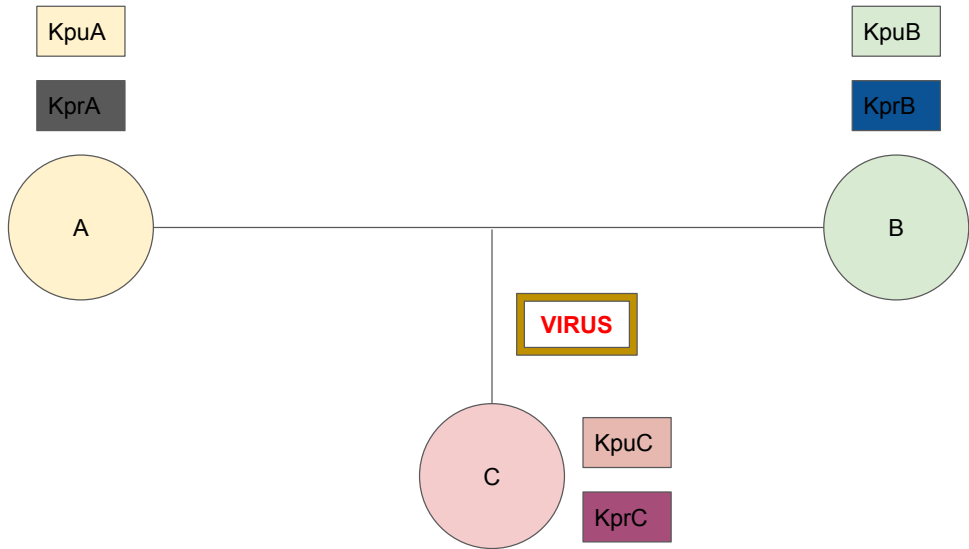


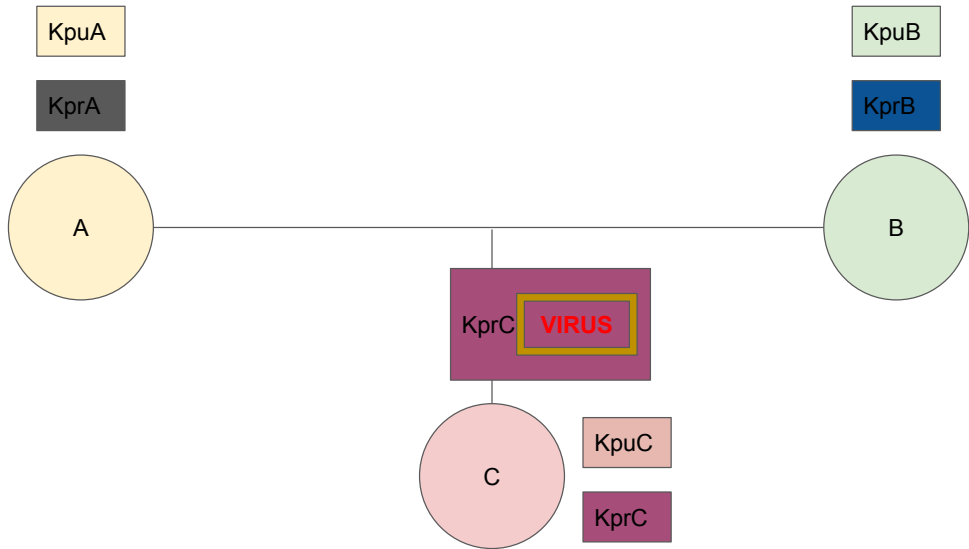


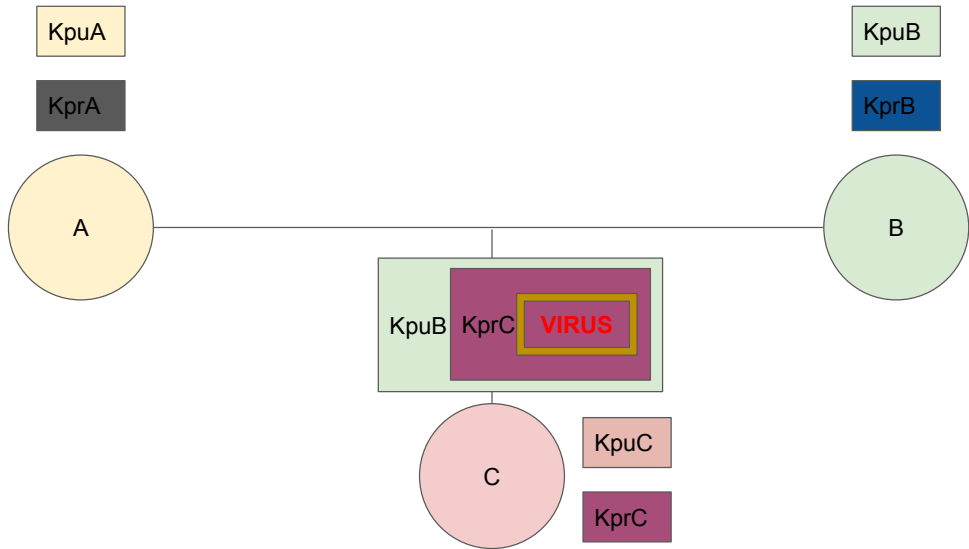


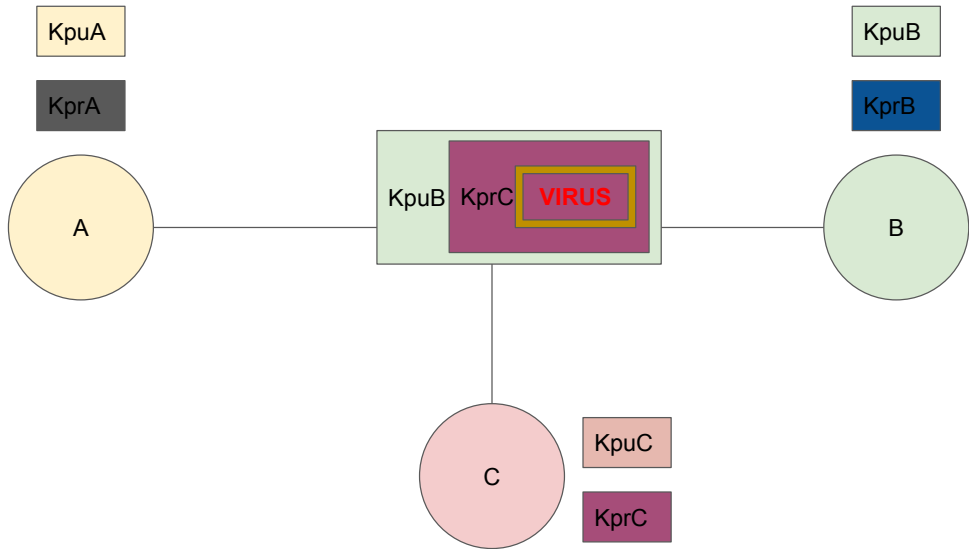


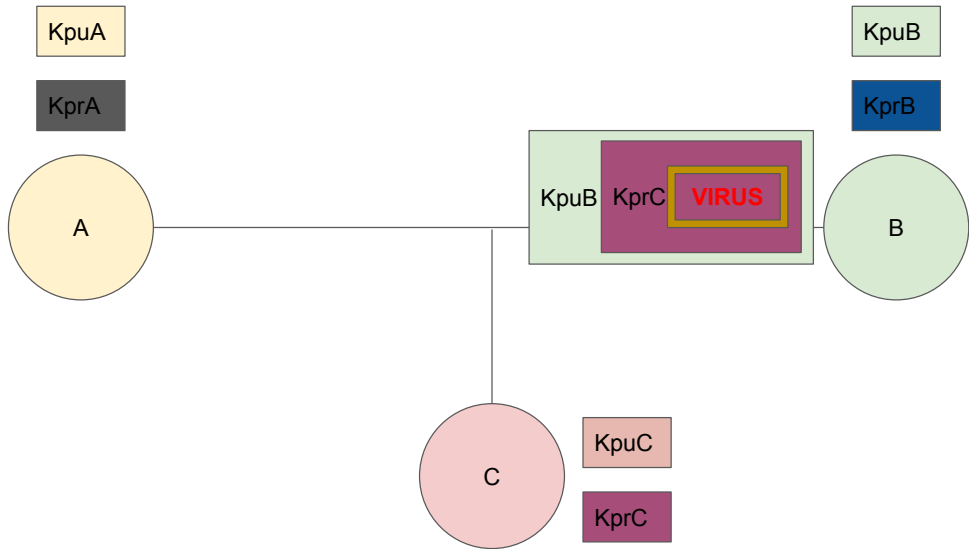


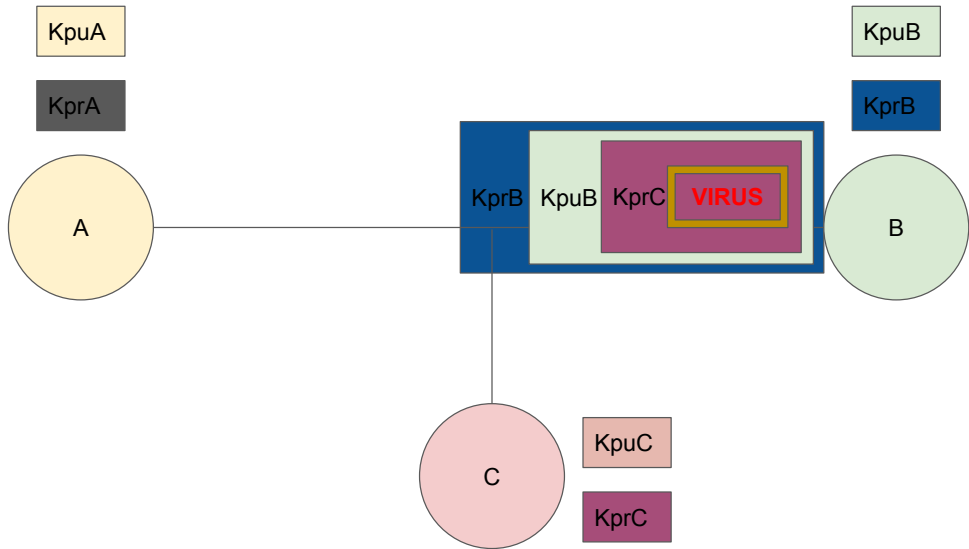


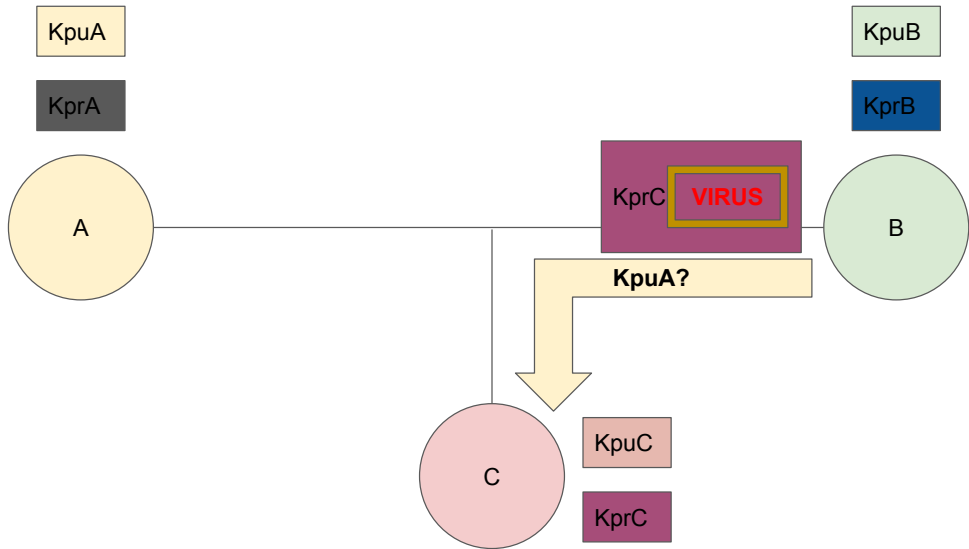


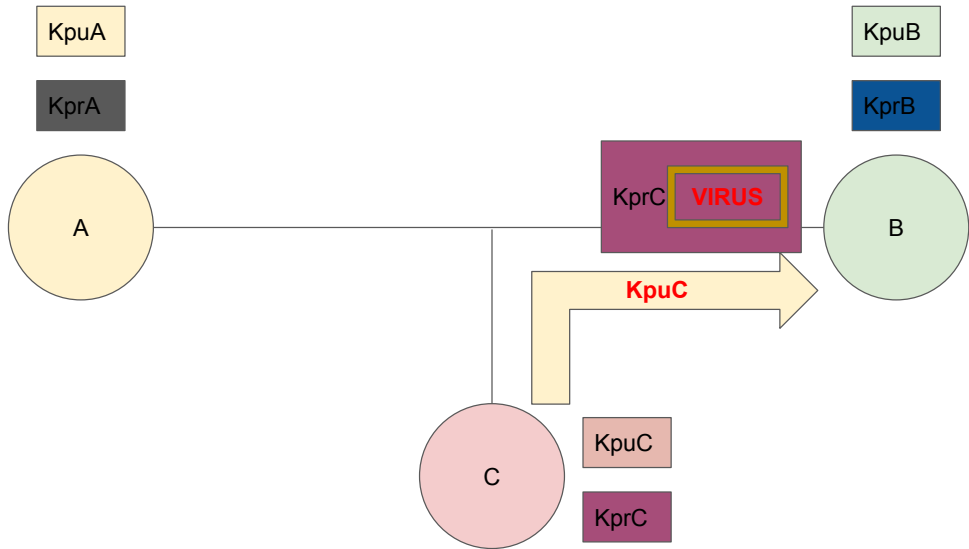


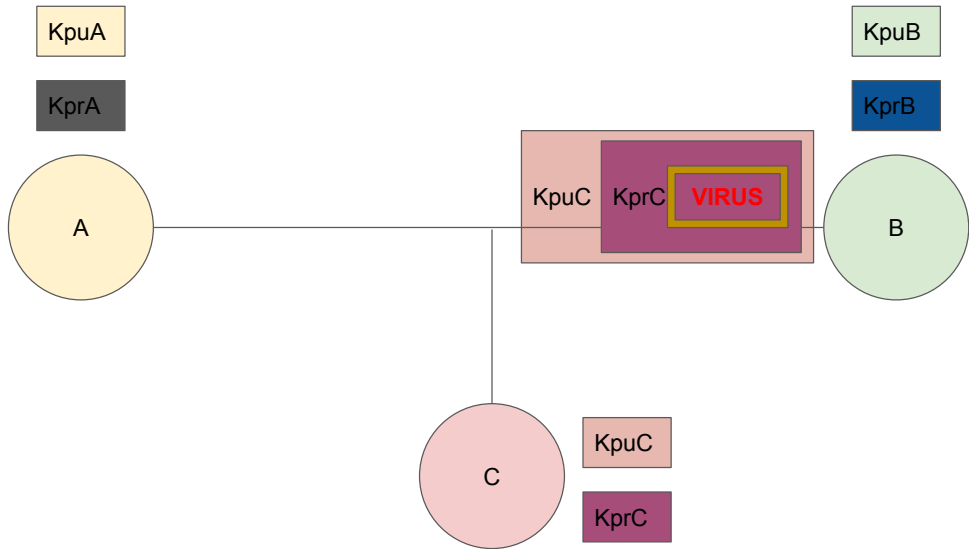


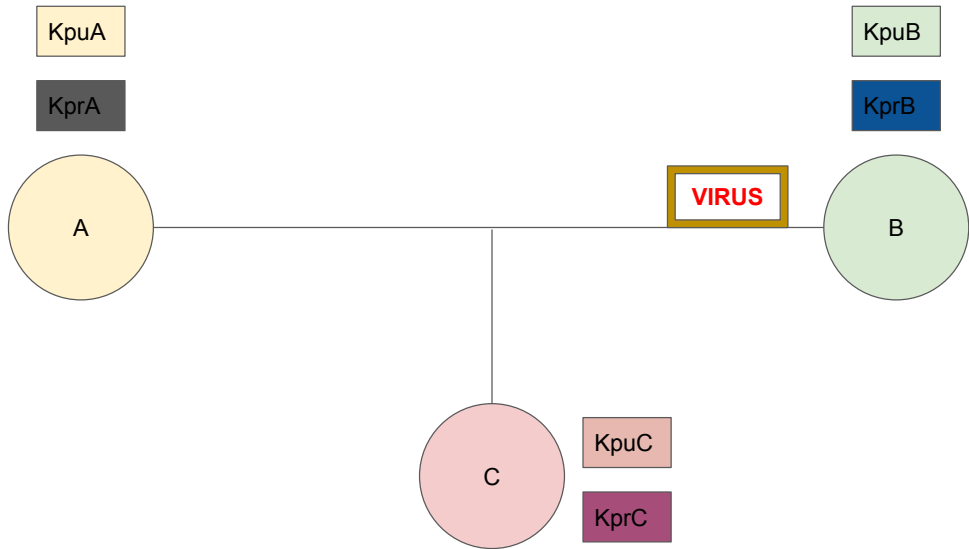






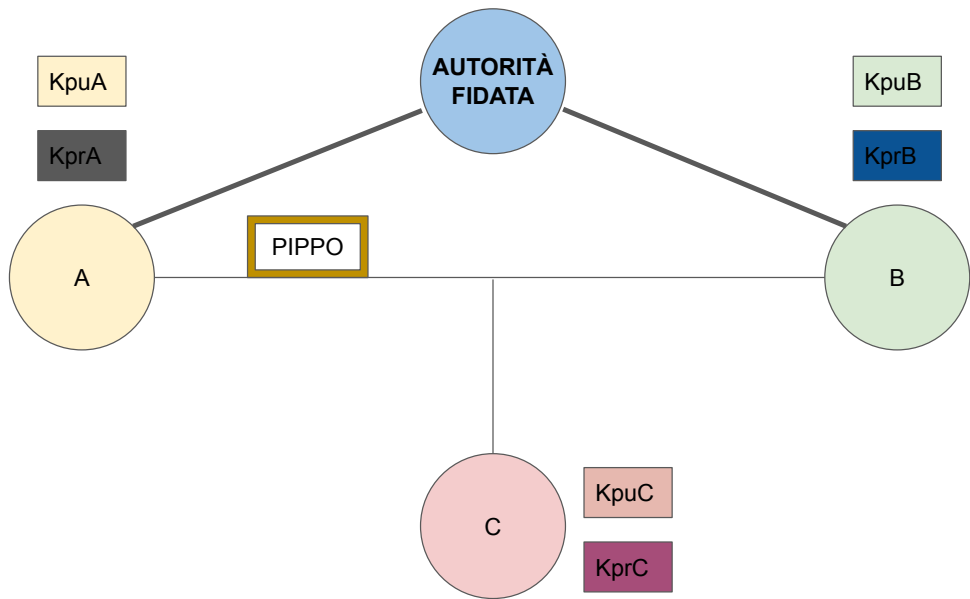


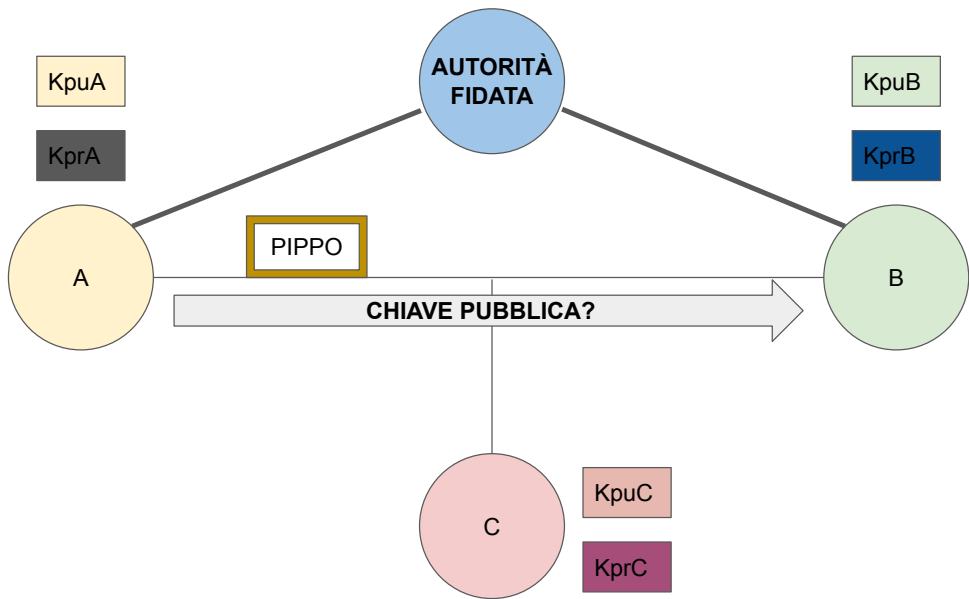


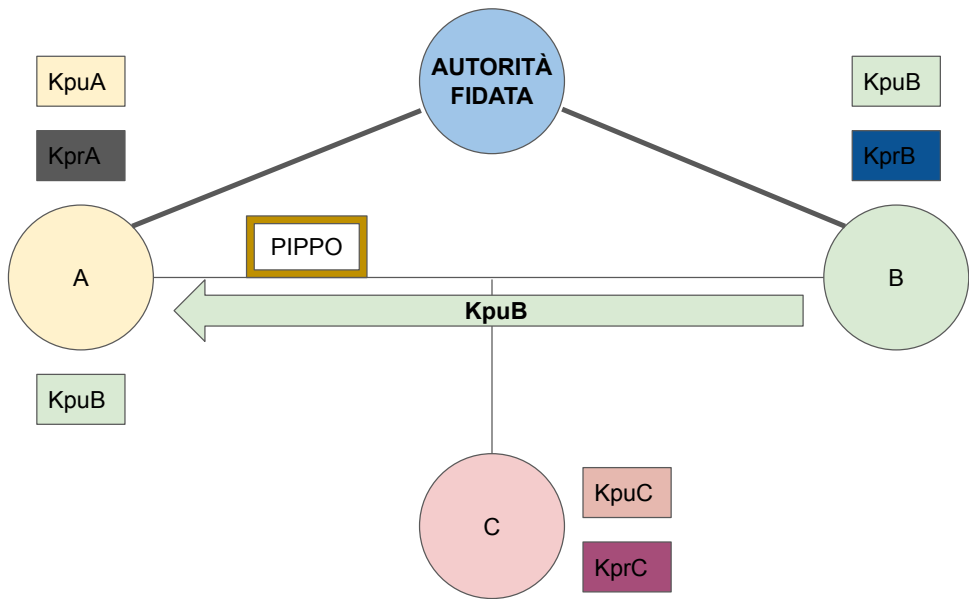


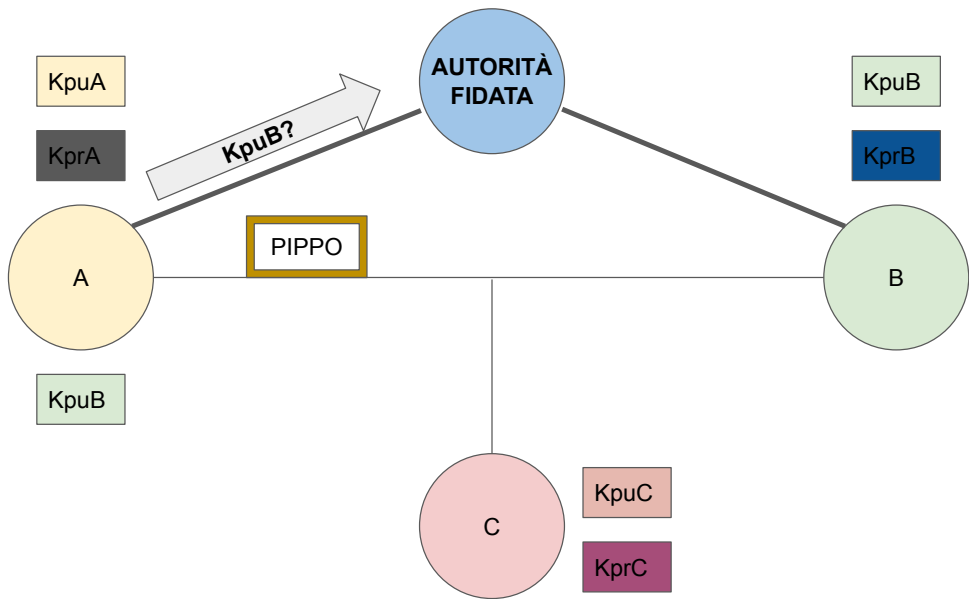
SOLUZIONE

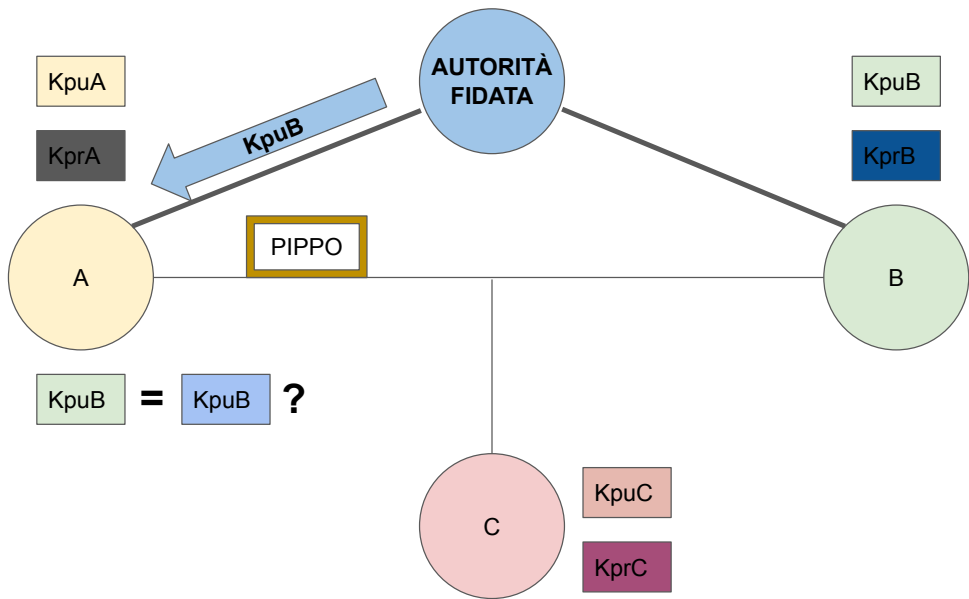
certificato digitale

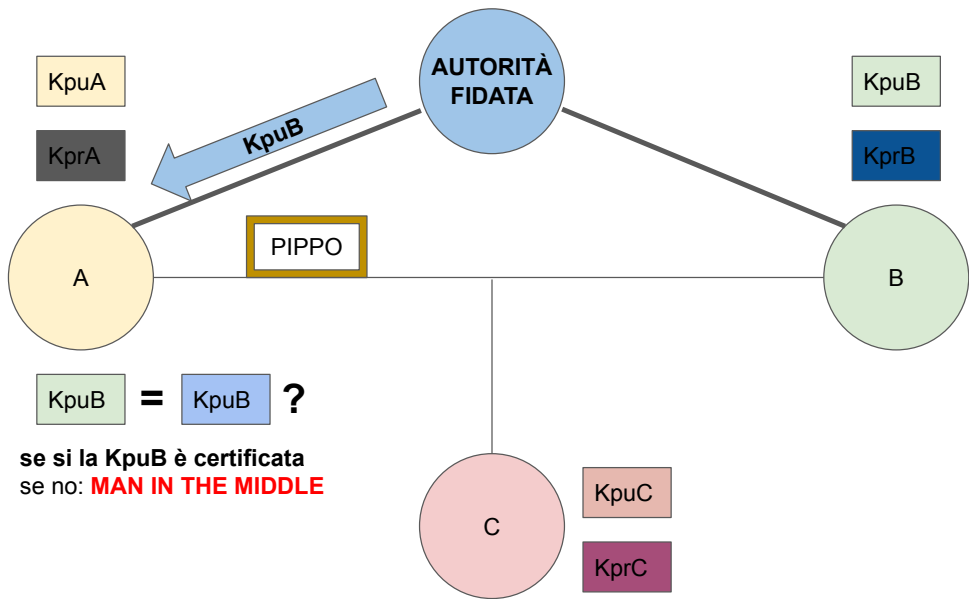




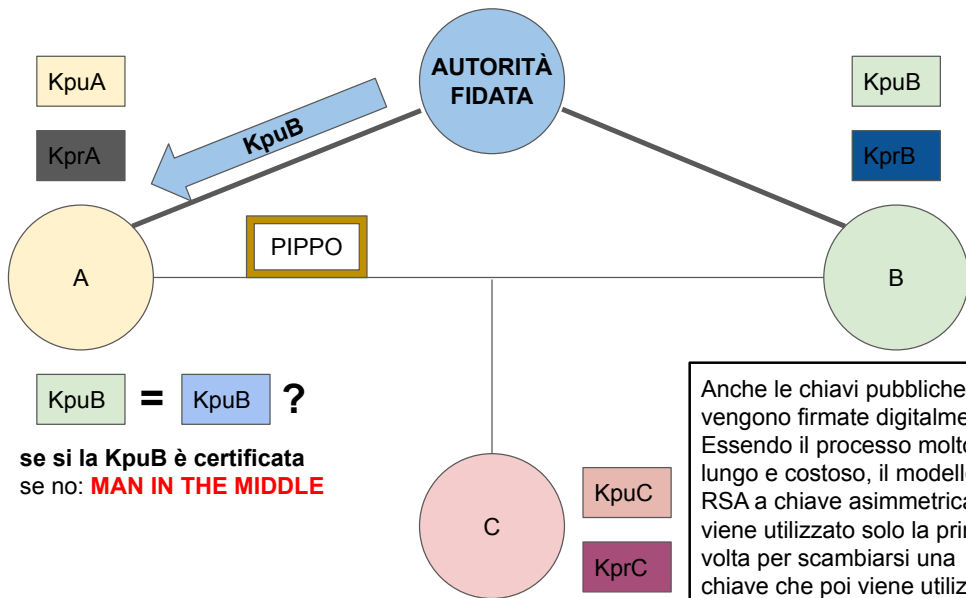








- se sì la **KpuB** è certificata
- se no: **MAN IN THE MIDDLE**



- se sì la KpuB è certificata
- se no: **MAN IN THE MIDDLE**

Anche le chiavi pubbliche vengono firmate digitalmente. Essendo il processo molto lungo e costoso, il modello RSA a chiave asimmetrica viene utilizzato solo la prima volta per scambiarsi una chiave che poi viene utilizzata in modo simmetrico.