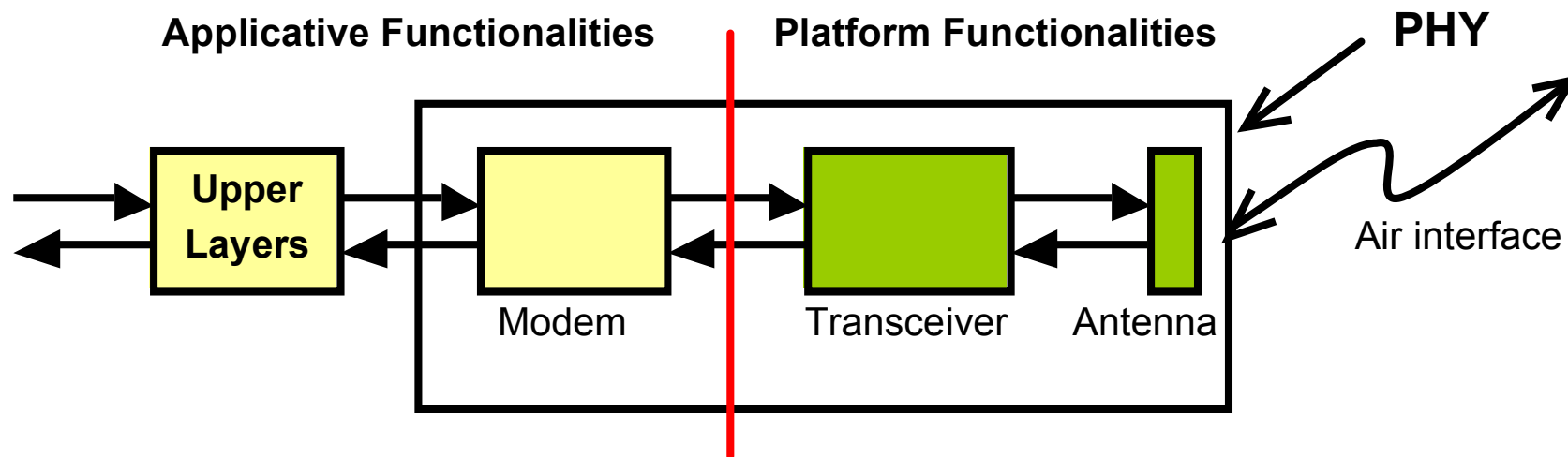


WlnnF Transceiver API scheduling according to a TDD LTE like WF *SDR-WlnnComm 2014*

Schaumburg, Illinois, USA, Wednesday 12 March
Somsai THAO

1. Introduction: WInnF Transceiver API, TDD LTE like WF
2. Use case 1: UE starts first Rx for synchronization and access procedures
3. Use case 2: UE stops first Rx for synchronization and access procedures
4. Use case 3: UE first Tx after synchronization and access procedures
5. Use case 4: UE first Rx after first Tx (when synchronized)
6. Use case 5: UE second and further Tx and Rx (when synchronized)
7. Conclusion

- ◆ **API standardized in WInnF** for SDR architectures: developed within WInnF Transceiver System Interface Work Group (**TSI-WG**) - "Fast Prototyping with WInnF Transceiver Facility Implementation for Fast Prototyping" project
- ◆ Functional specification for **command and control of RF HW PTF**



WInnF Transceiver API

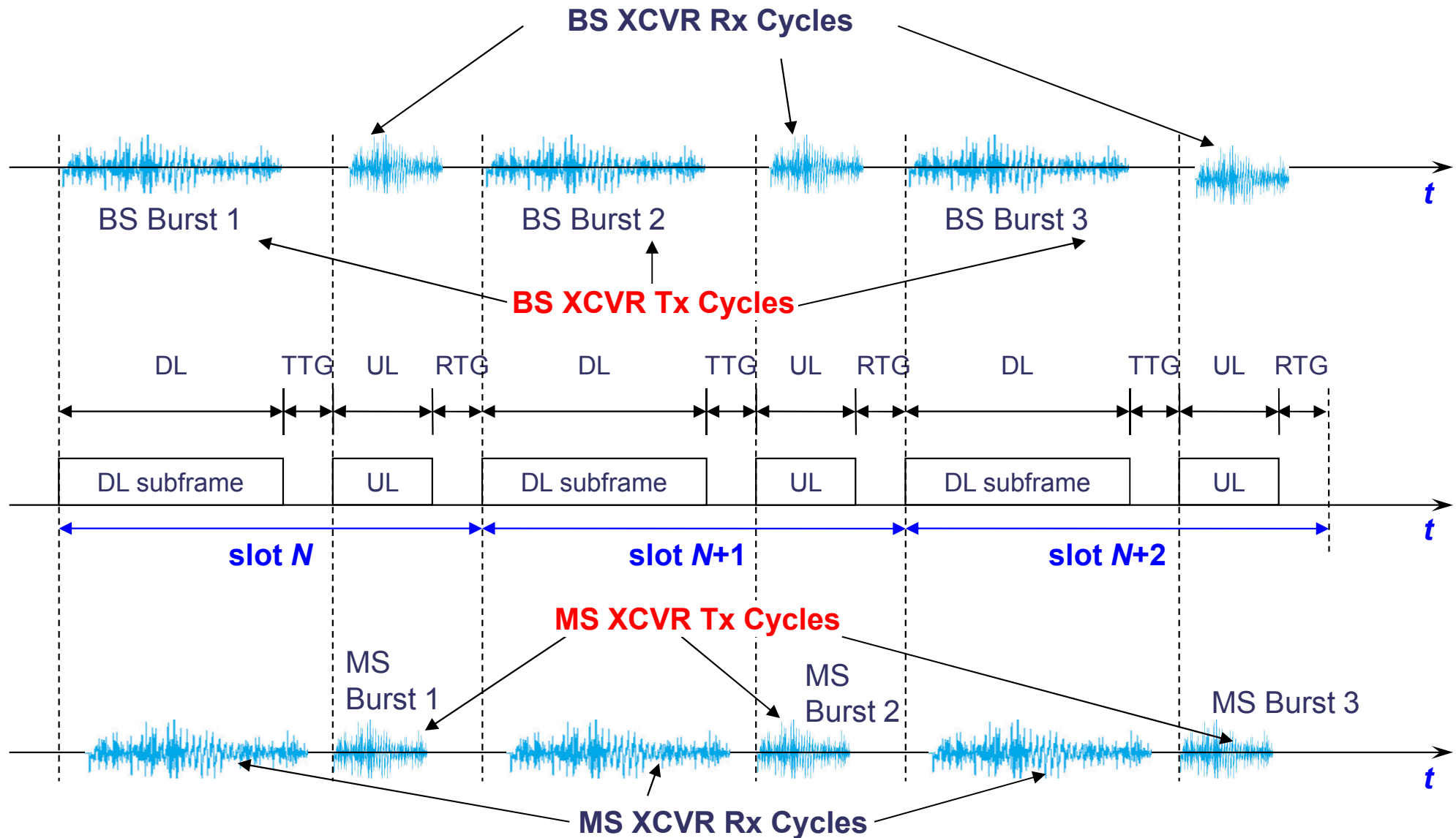
Linux PC



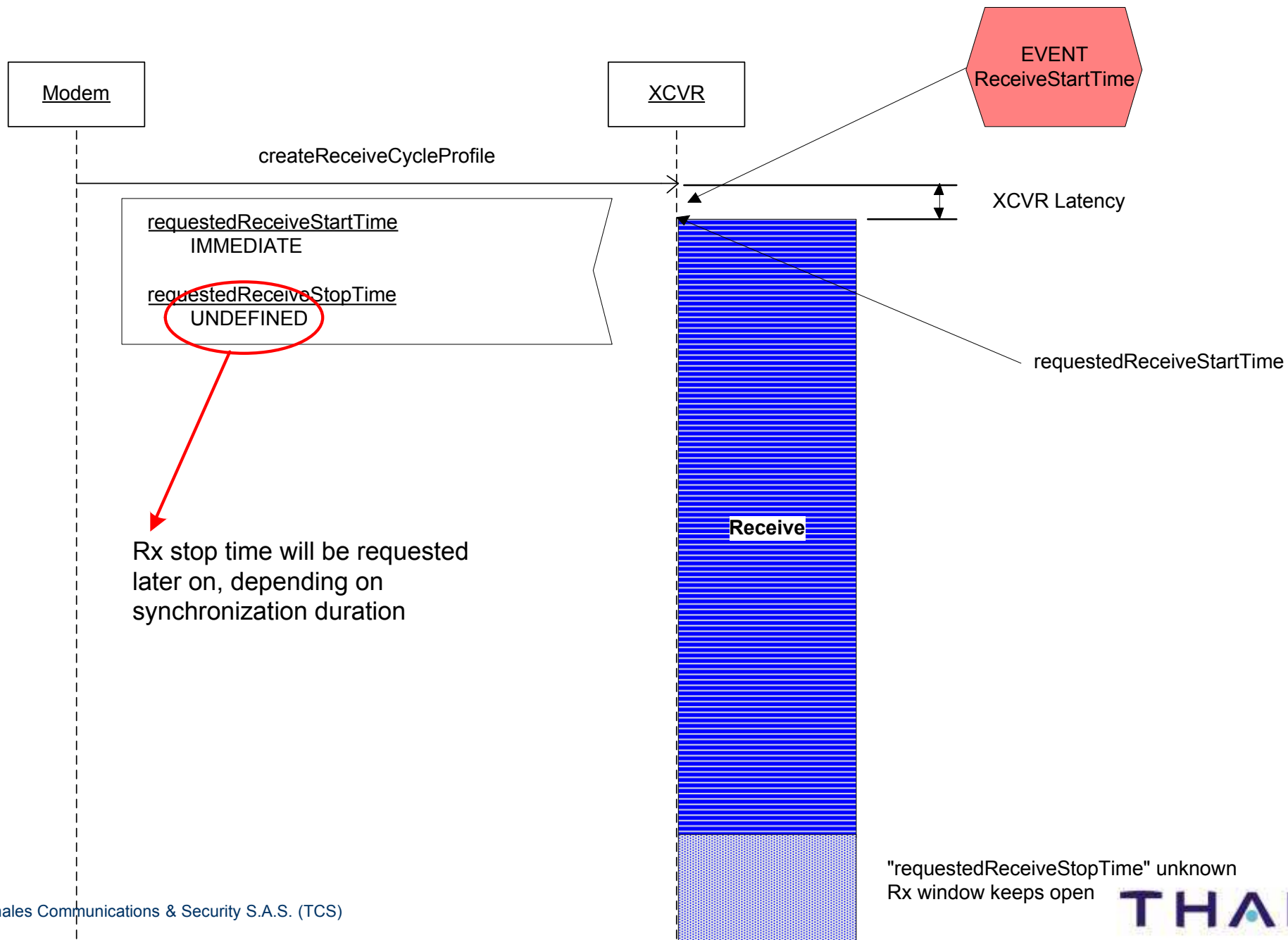
USRP2



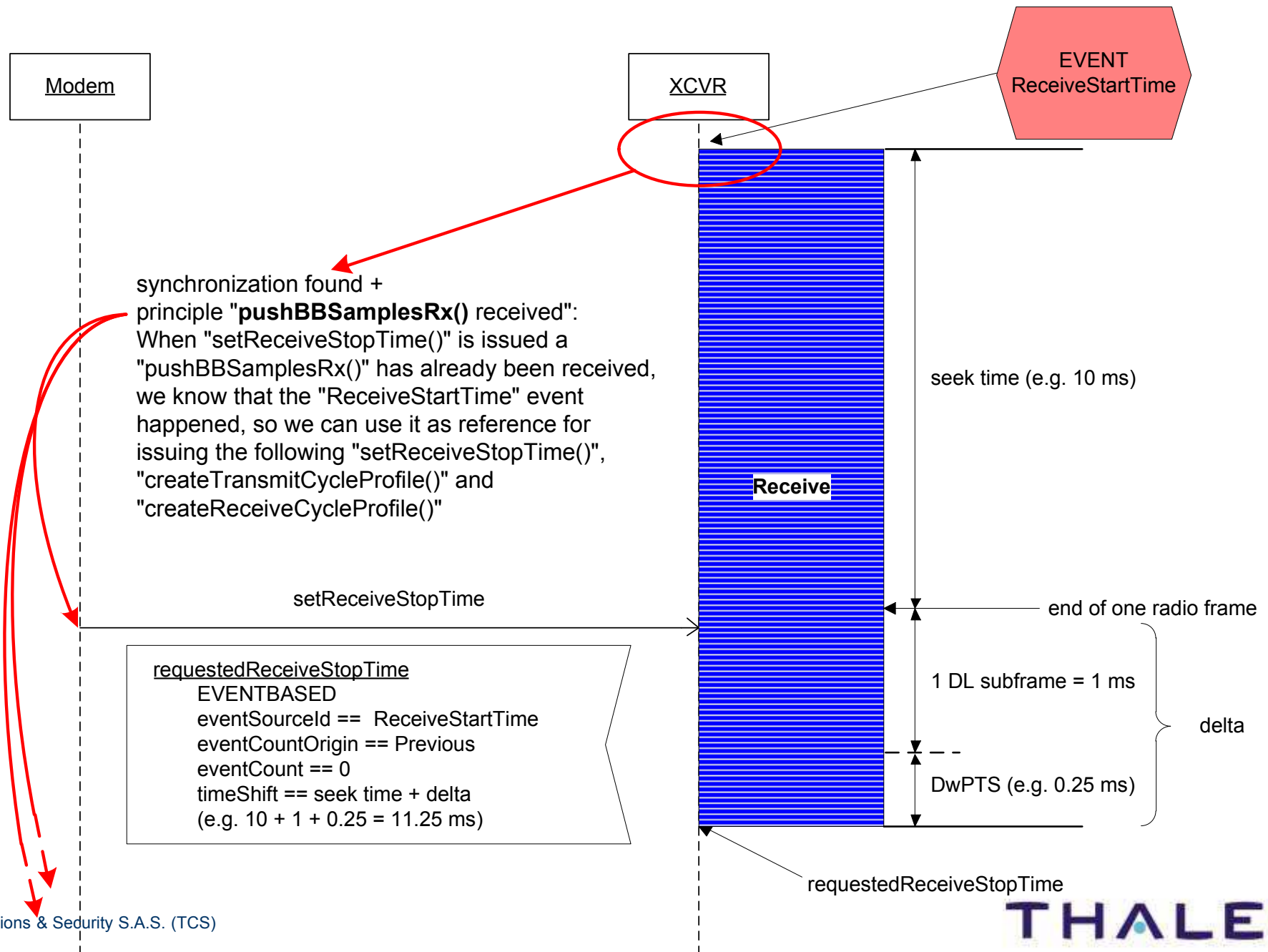
TDD LTE like WaveForm (WF)



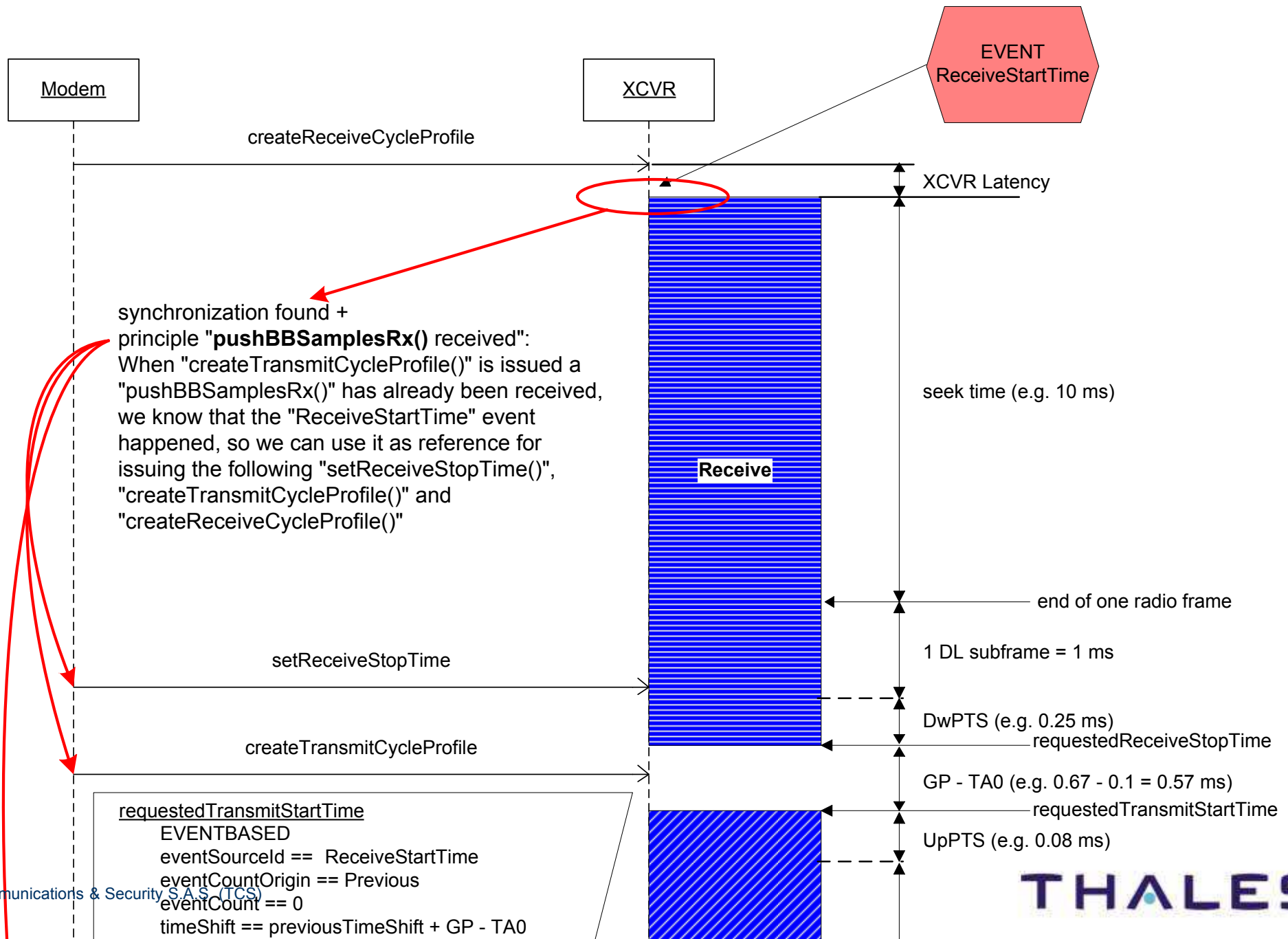
Use case 1: UE starts first Rx for synchronization and access procedures



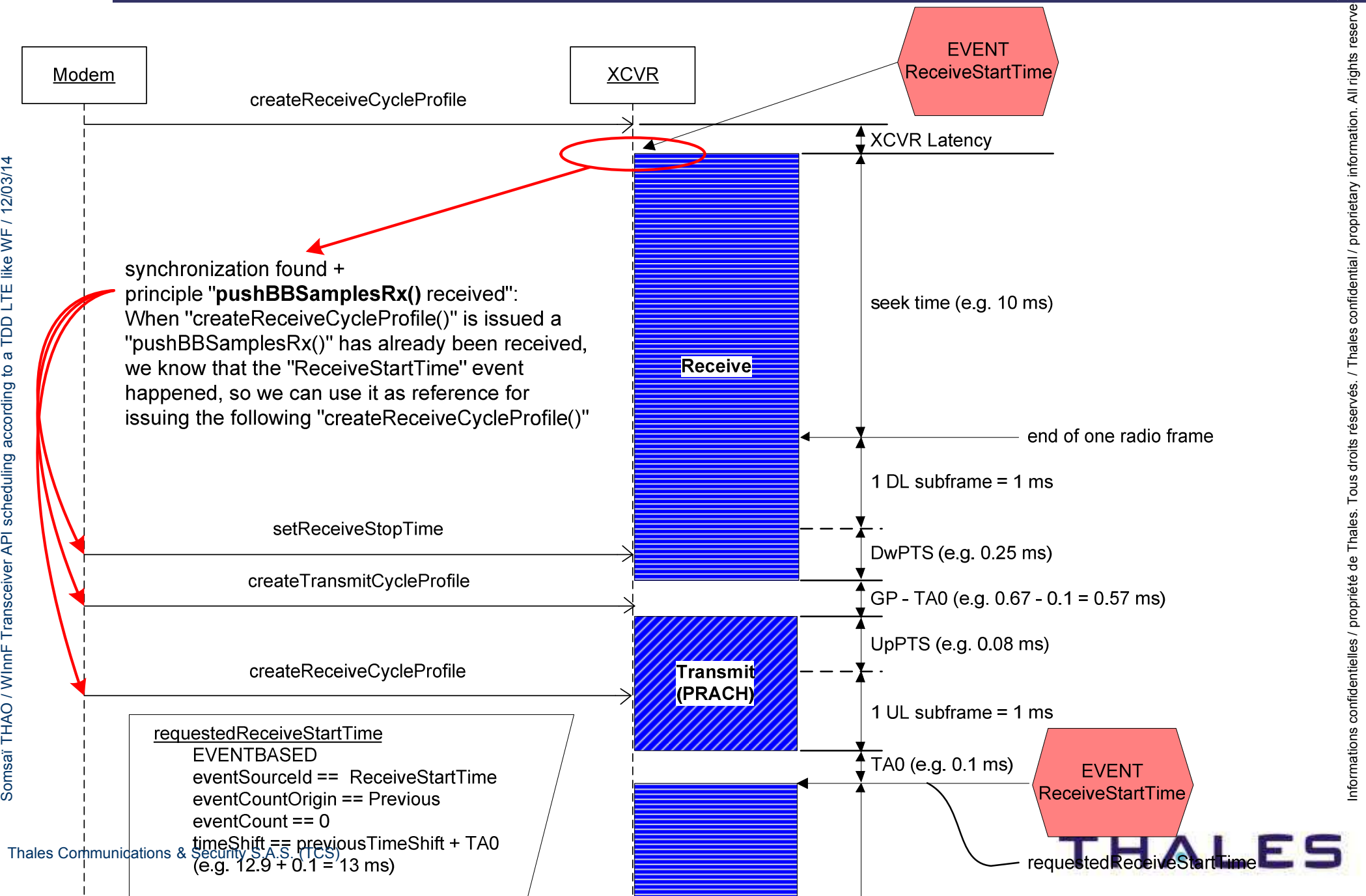
Use case 2: UE stops first Rx for synchronization and access procedures



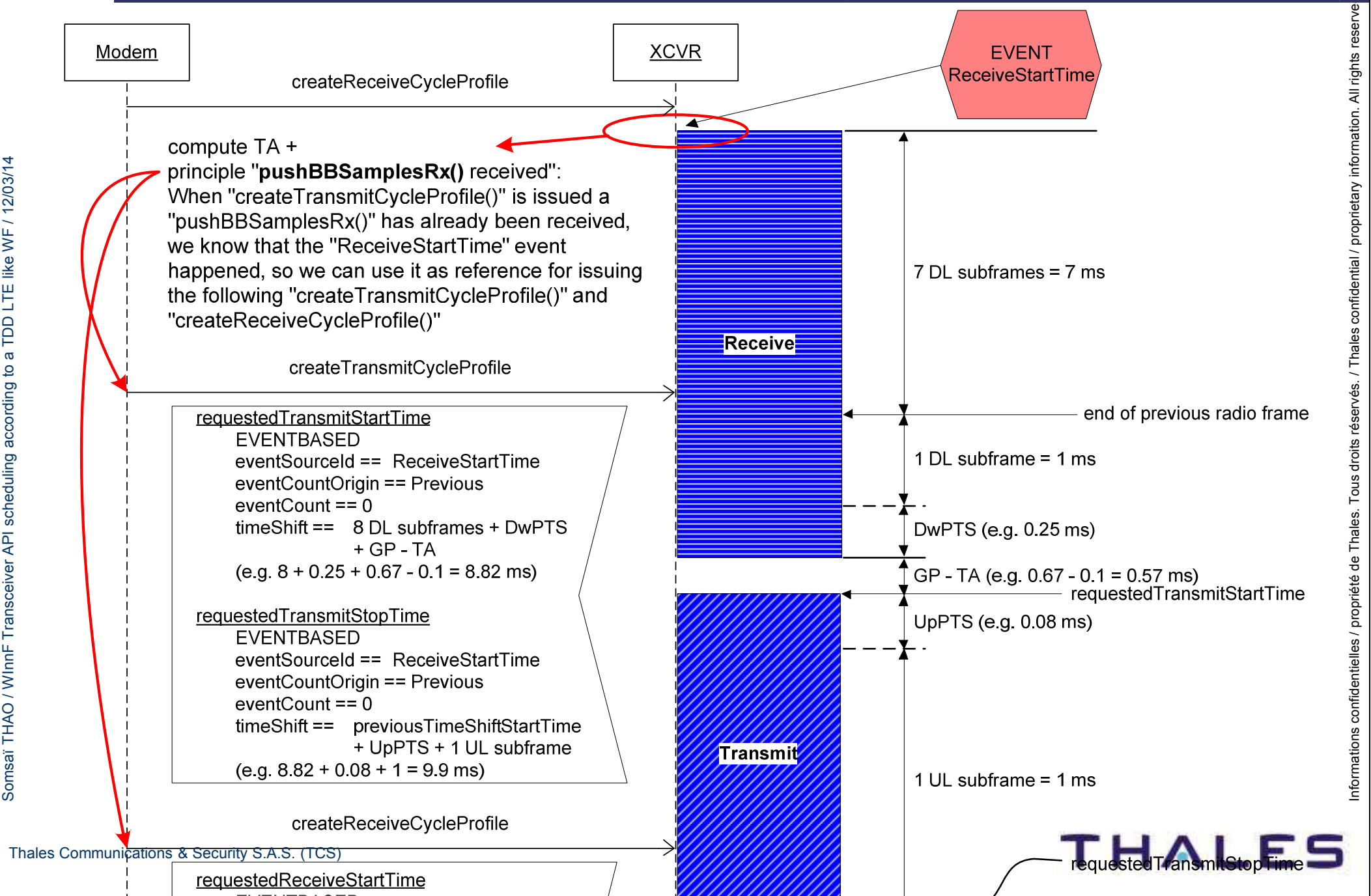
Use case 3: UE first Tx after synchronization and access procedures



Use case 4: UE first Rx after first Tx (when synchronized)



Use case 5: UE second and further Tx and Rx (when synchronized)



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