Bluetooth Baseband LSI

Panasonic PAN1026

Toshiba TC35661

Serial Port (SPP)
Message Sequence Chart

June.2013

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Rivison History

Date	Modification	Note
24th-June-2013	1st Release Based on TC35661APL_SPP_MSC_E_22thJanuary2013	

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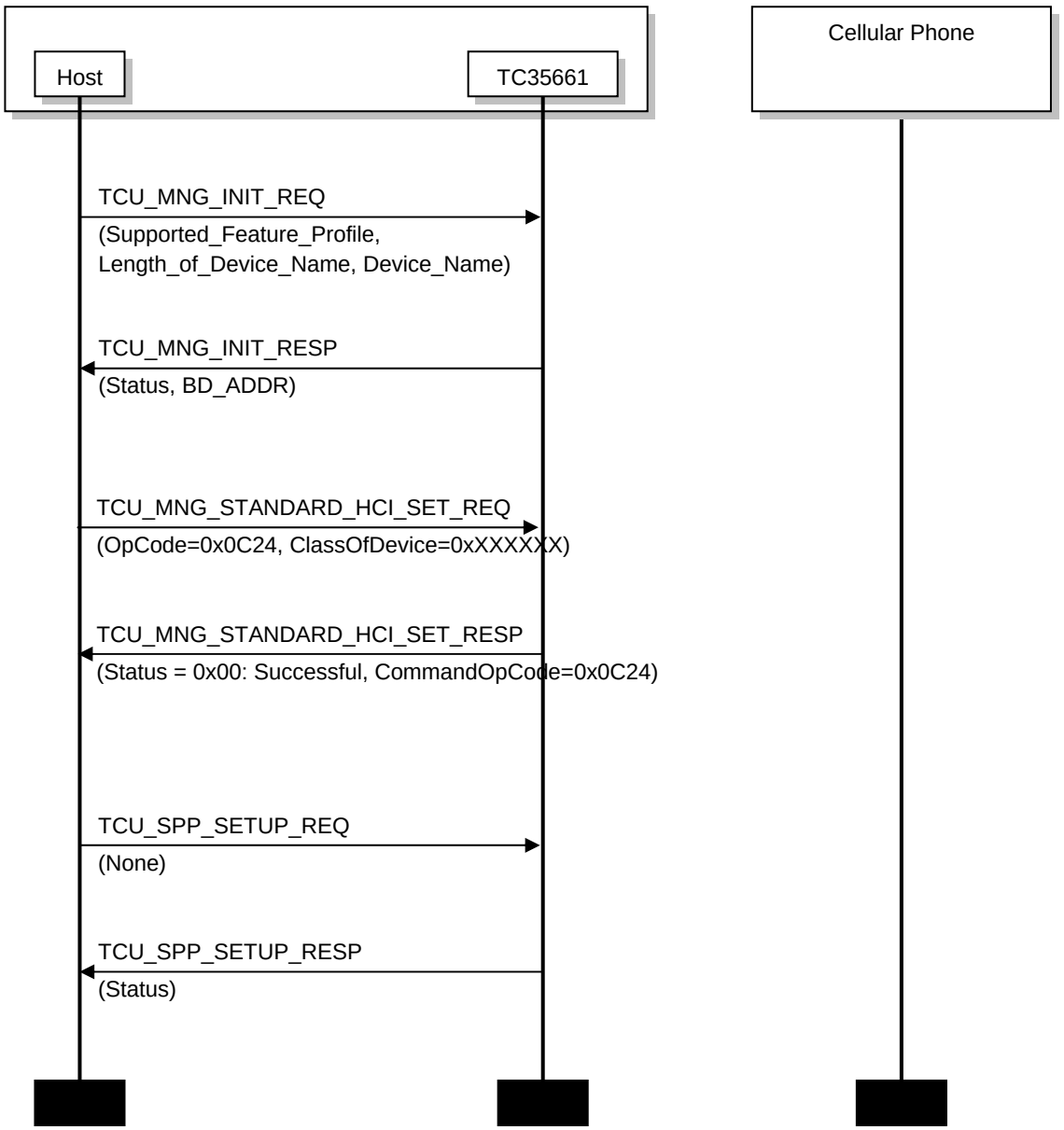
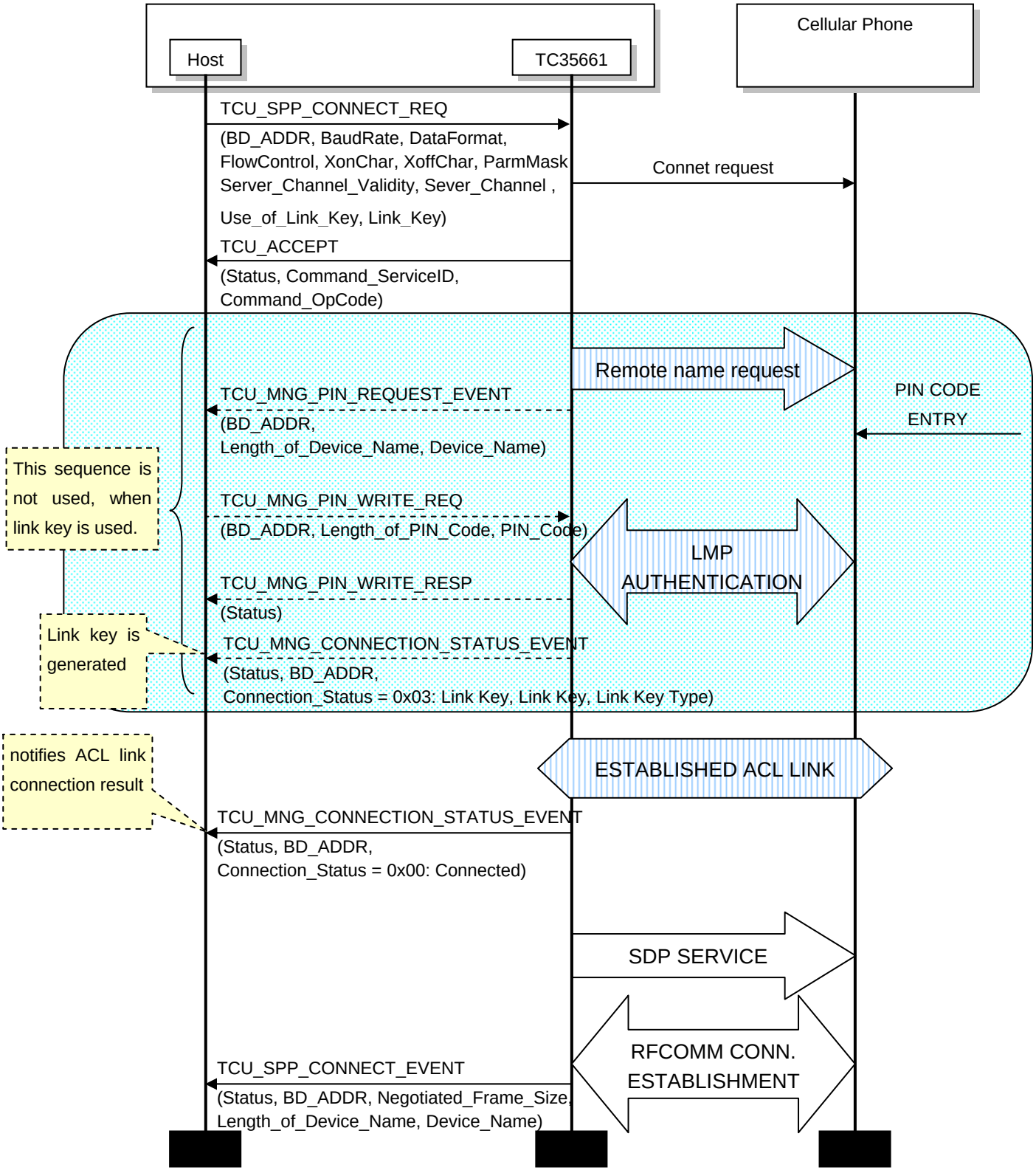
1. Serial Port MSC

1.1 SPP Setup

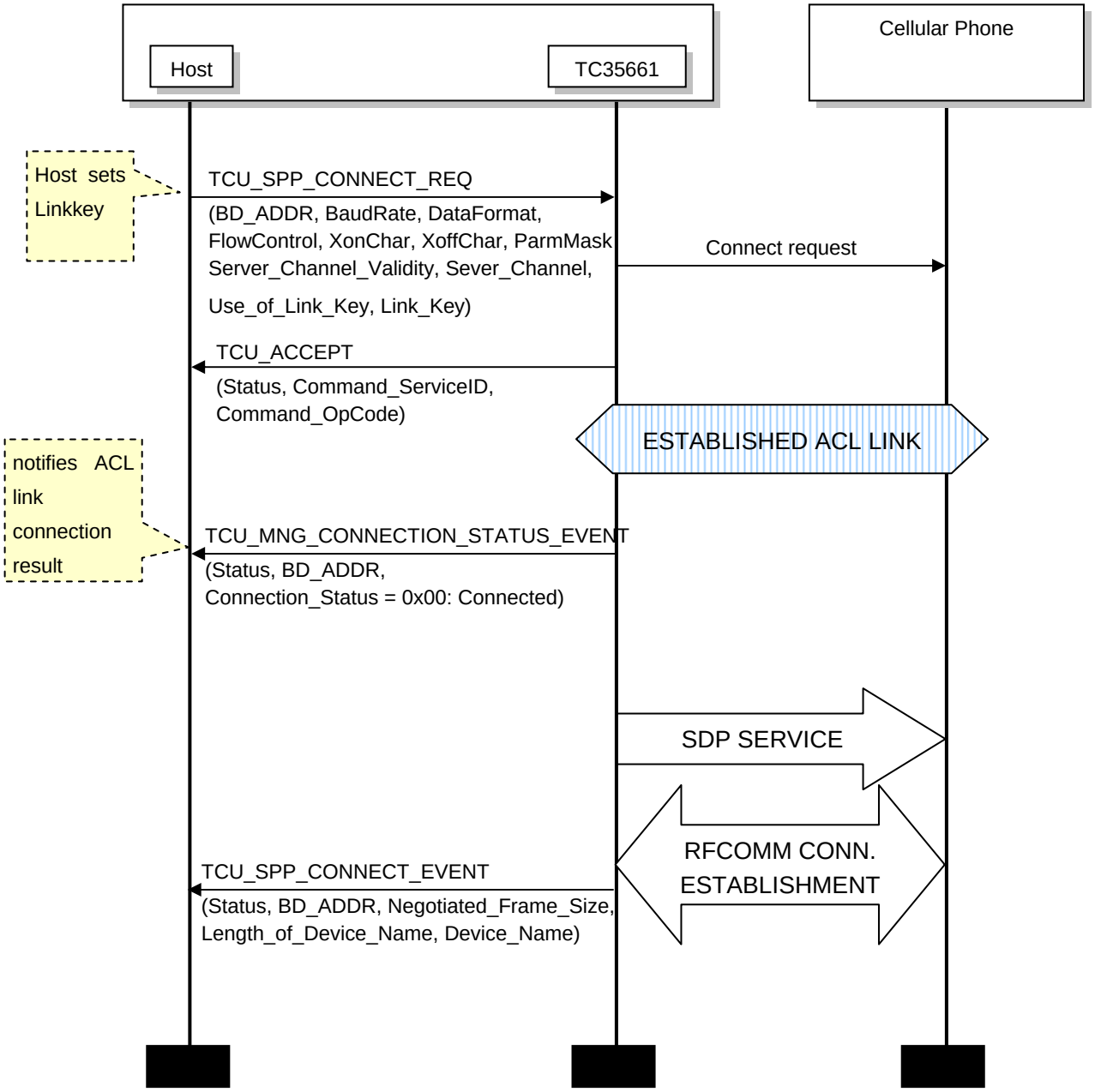


1.2 SPP DevA Connection

1.2.1 Pairing

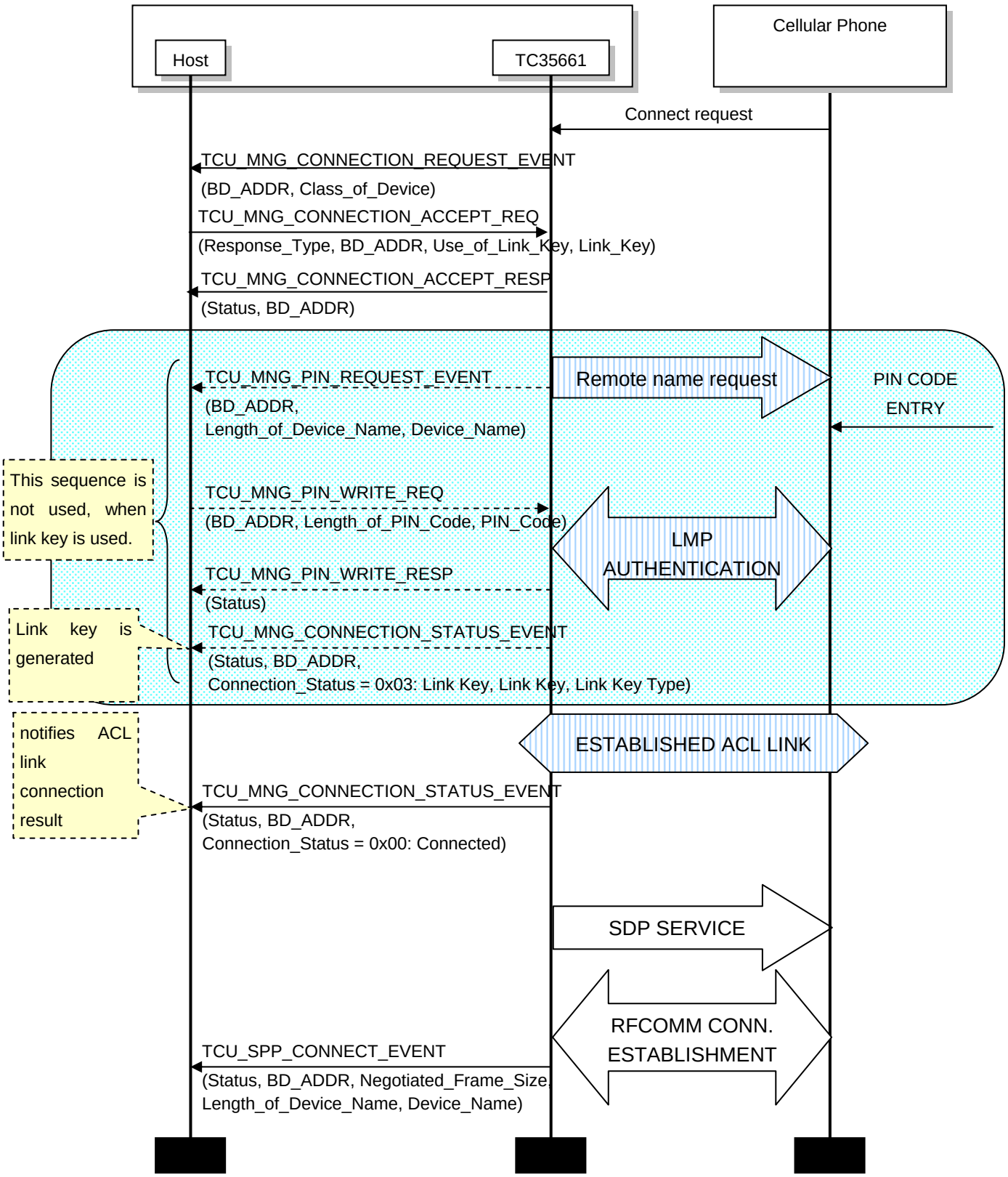


1.2.2 With Linkkey

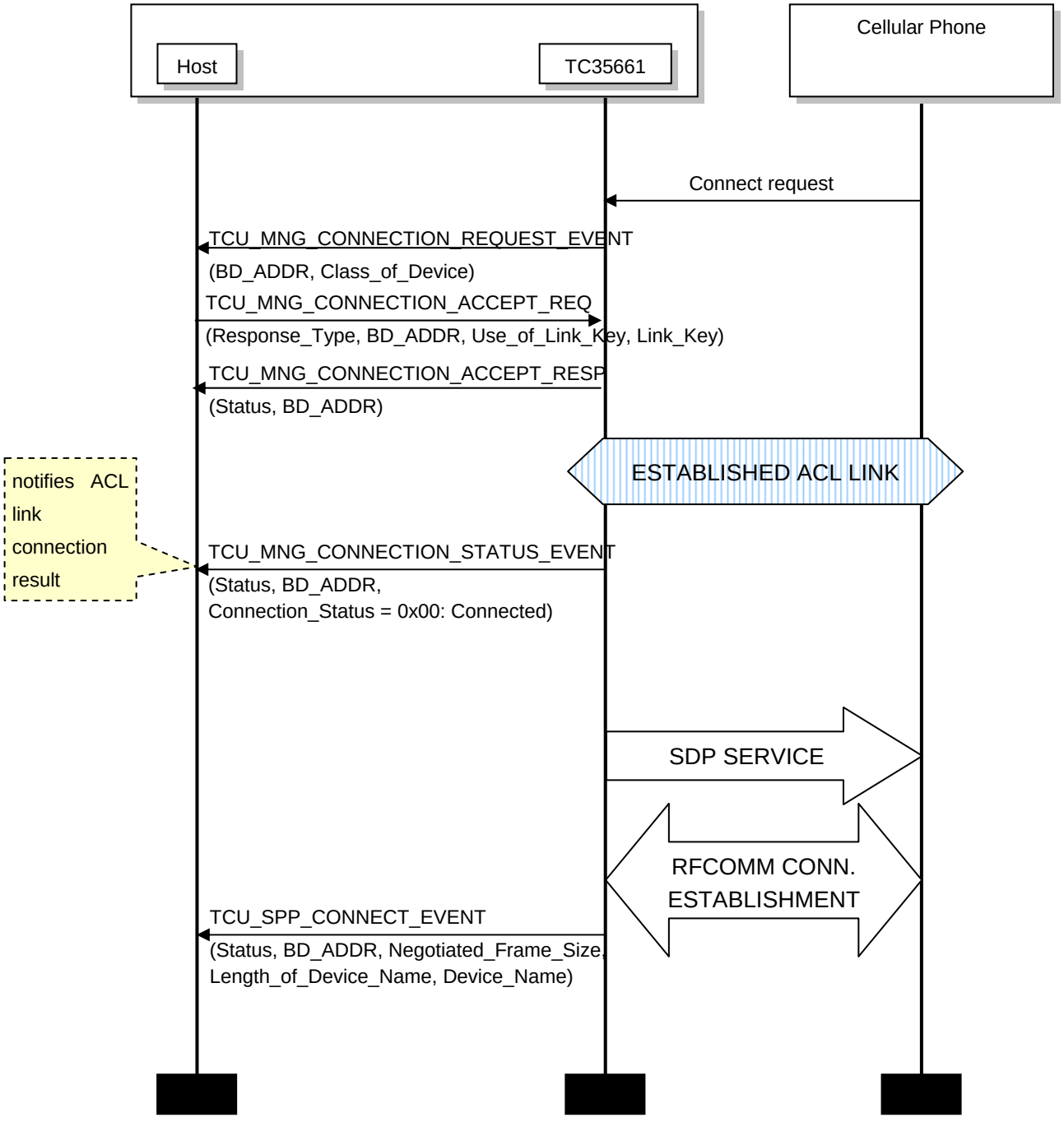


1.3 SPP DevB Connection

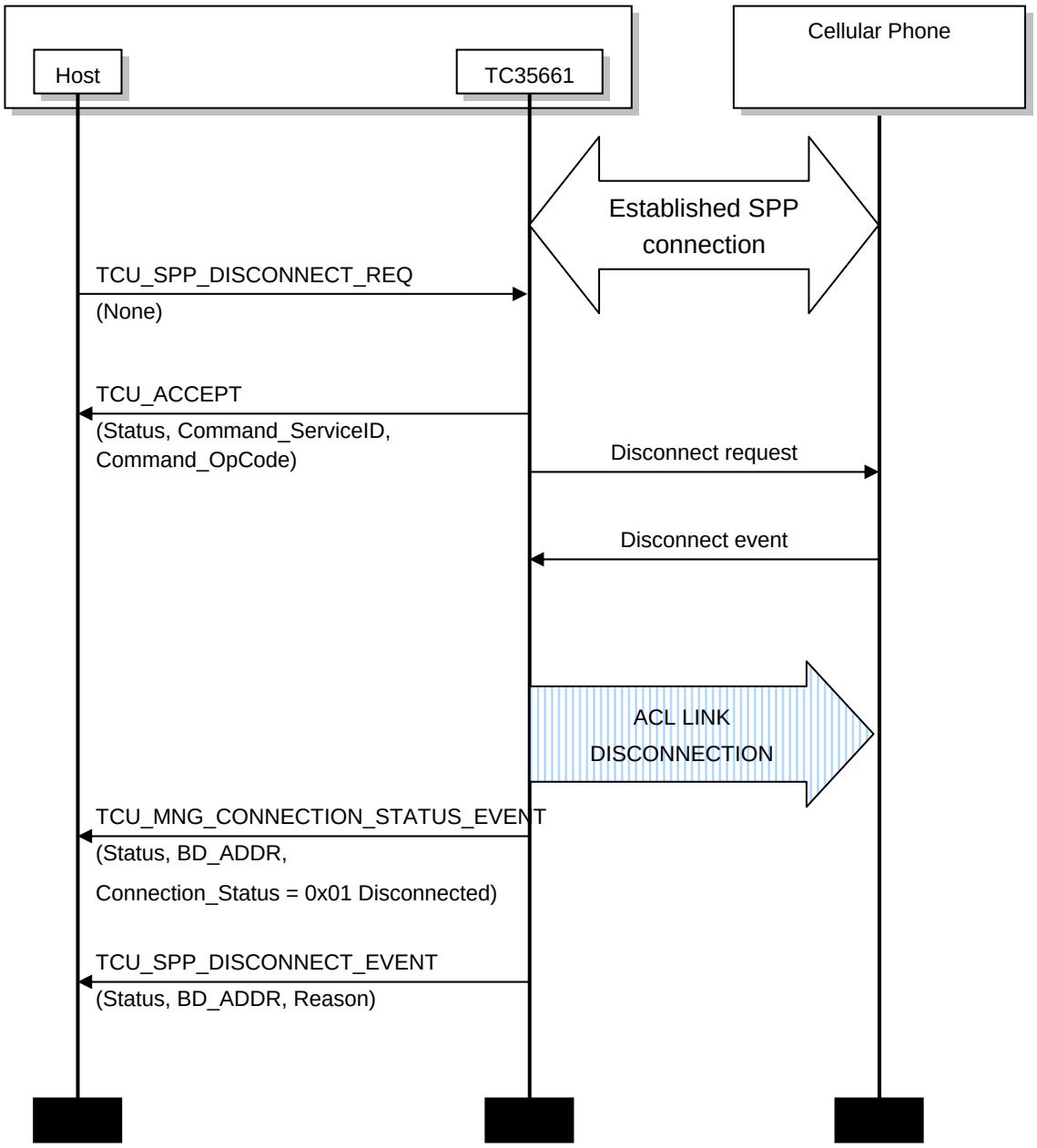
1.3.1 Pairing



1.3.2 With Linkkey

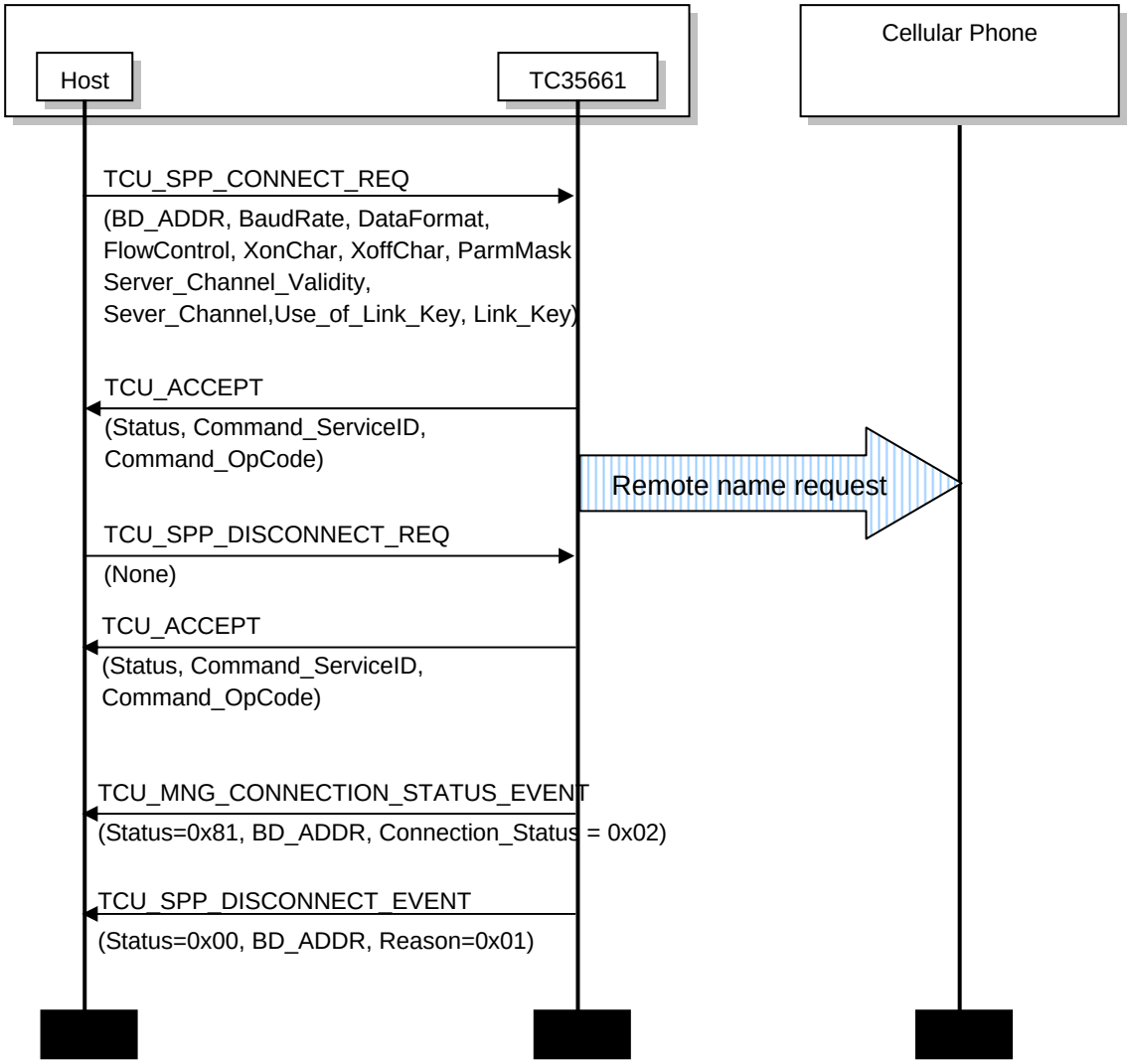


1.4 SPP Disconnect

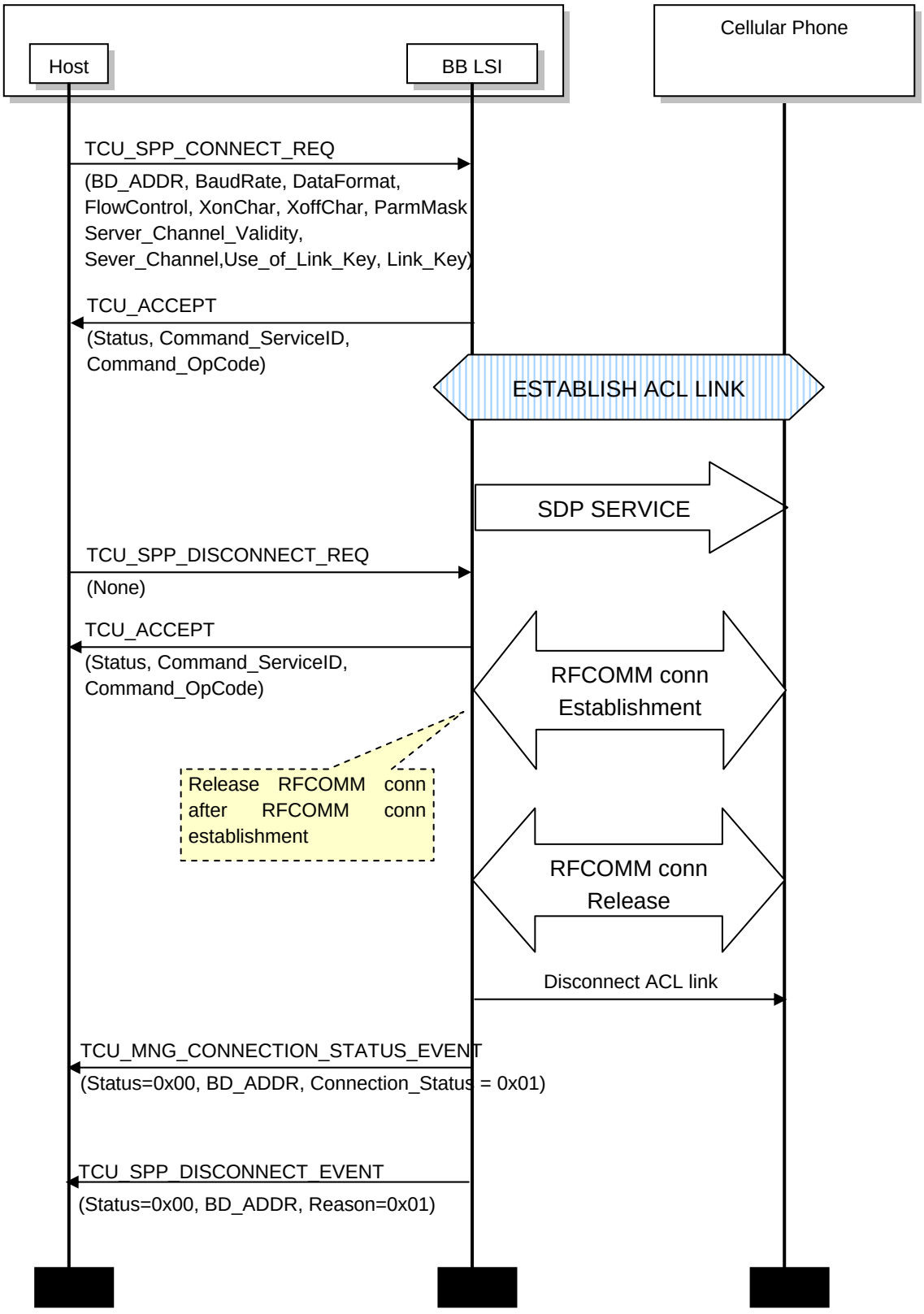


1.5 SPP Connection Cancel

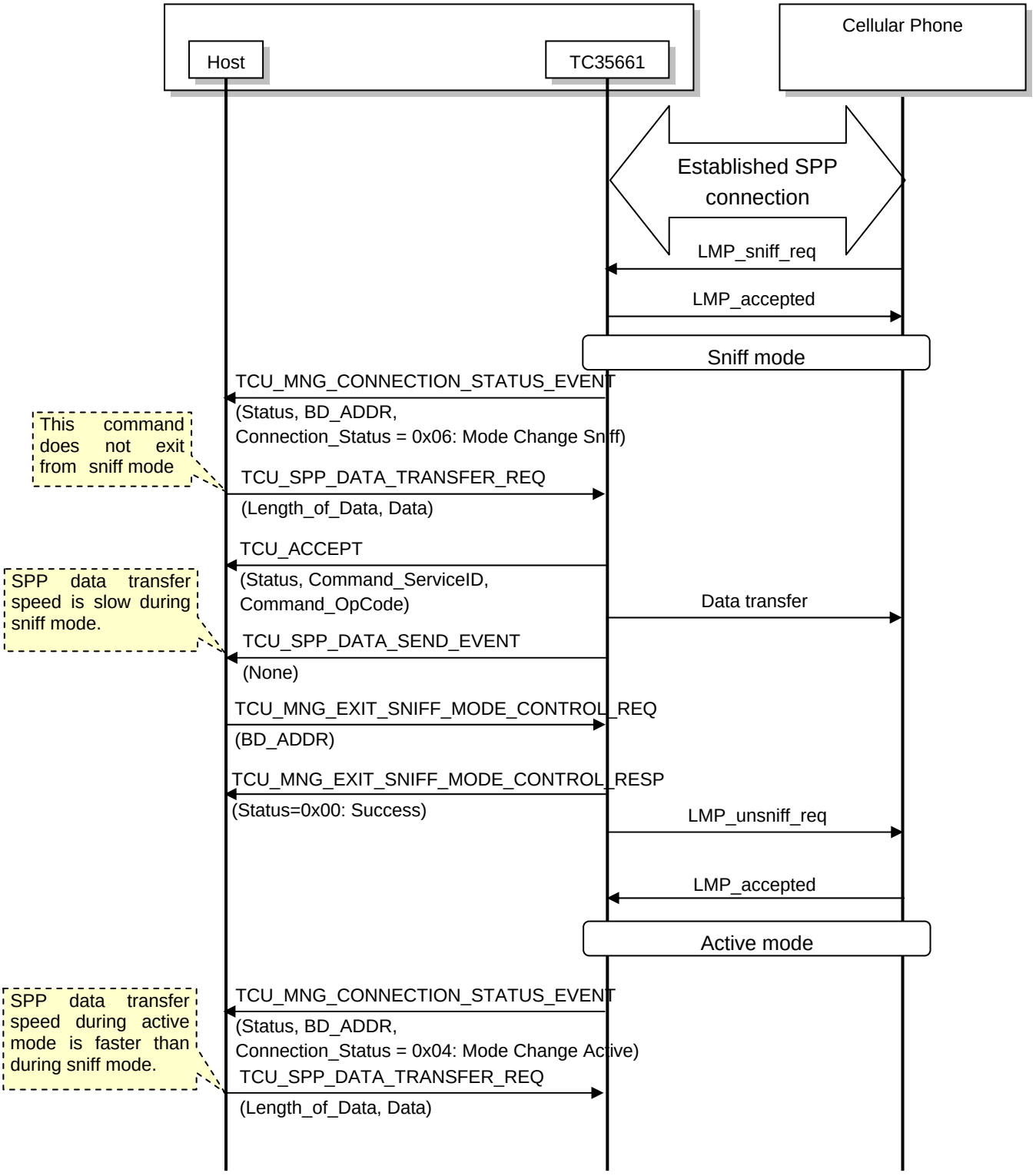
1.5.1 Start to connect from A-Party; disconnect before ACL connection

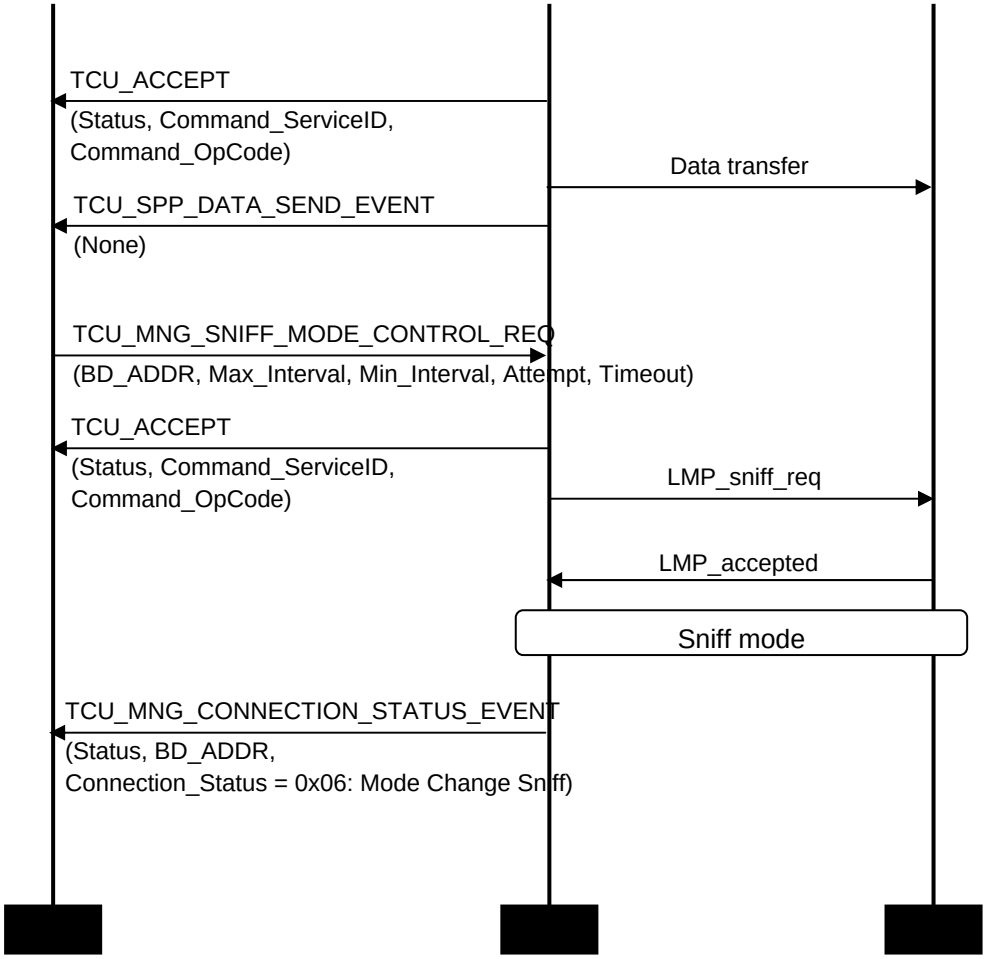


1.5.2 Start to connect from A-Party; disconnect during RFCOMM conn establishment

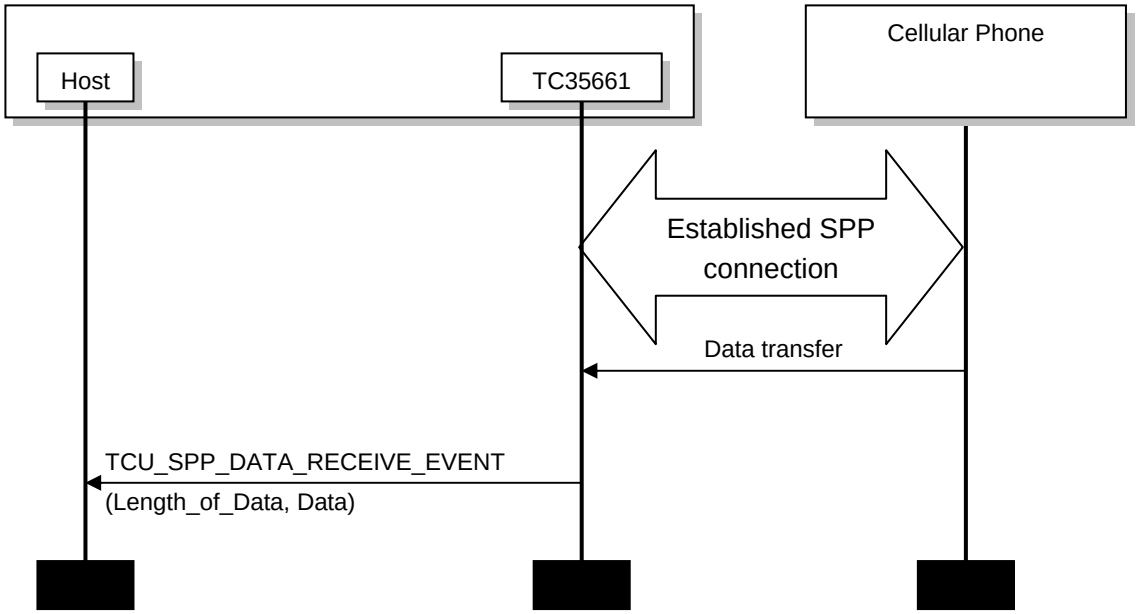


1.6 SPP Data Transfer

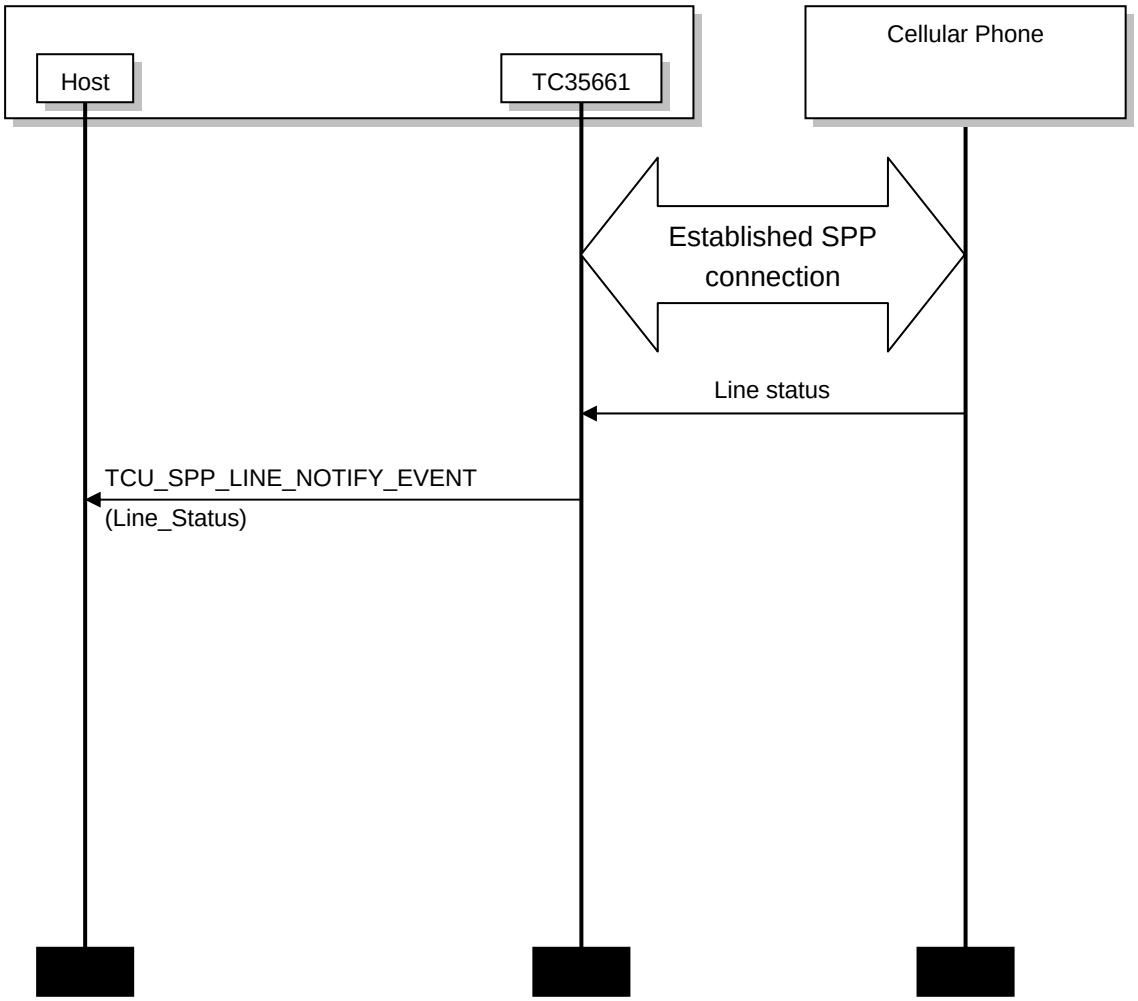



TCU_ACCEPT
(Status, Command_ServiceID,
Command_OpCode)
Data transfer
TCU_SPP_DATA_SEND_EVENT
(None)
TCU_MNG_SNIFF_MODE_CONTROL_REQ
(BD_ADDR, Max_Interval, Min_Interval, Attempt, Timeout)
TCU_ACCEPT
(Status, Command_ServiceID,
Command_OpCode)
LMP_sniff_req
LMP_accepted
Sniff mode
TCU_MNG_CONNECTION_STATUS_EVENT
(Status, BD_ADDR,
Connection_Status = 0x06: Mode Change Sniff)

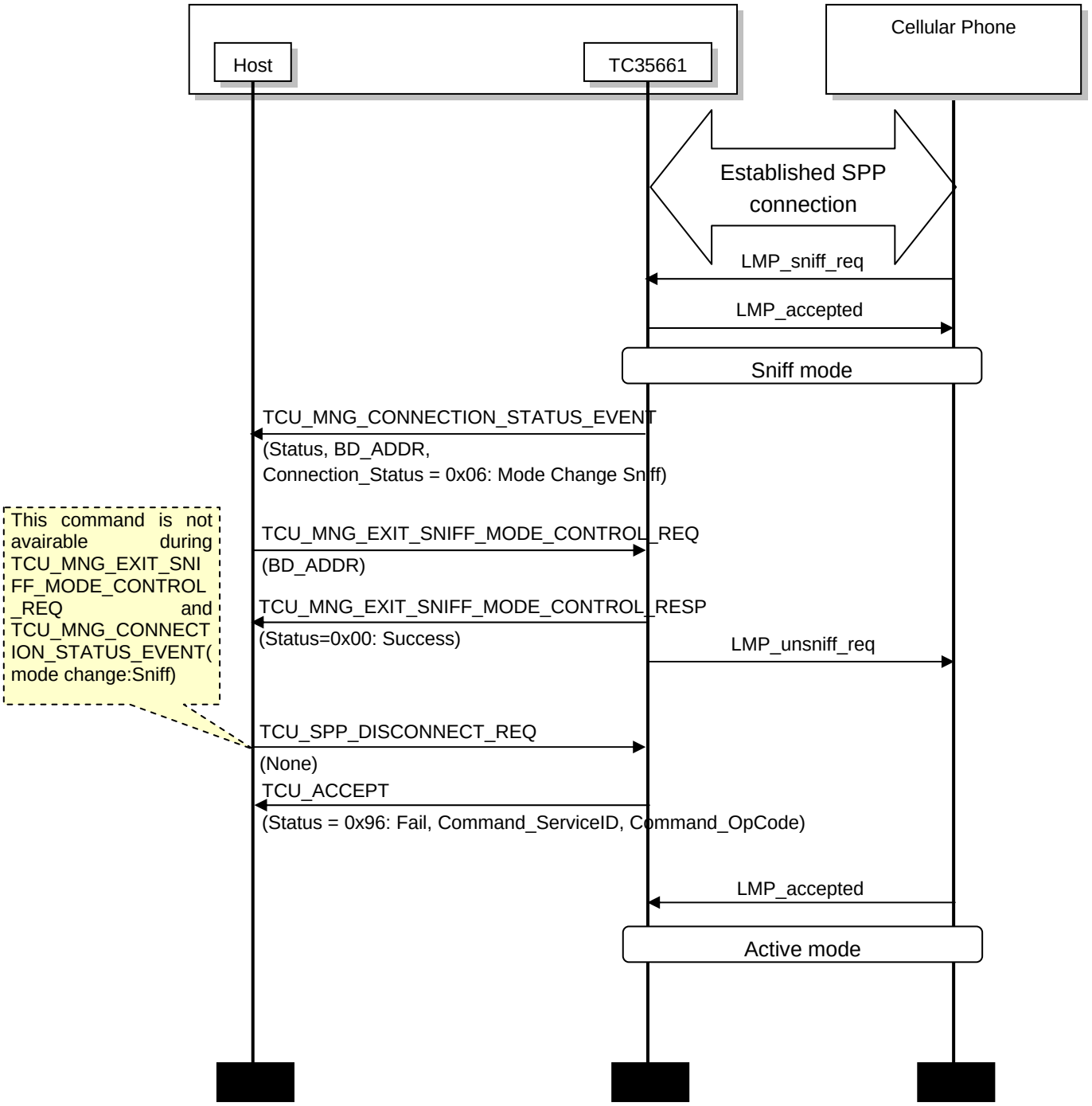
1.7 SPP Data Receive



1.8 SPP Data Line Status Notice

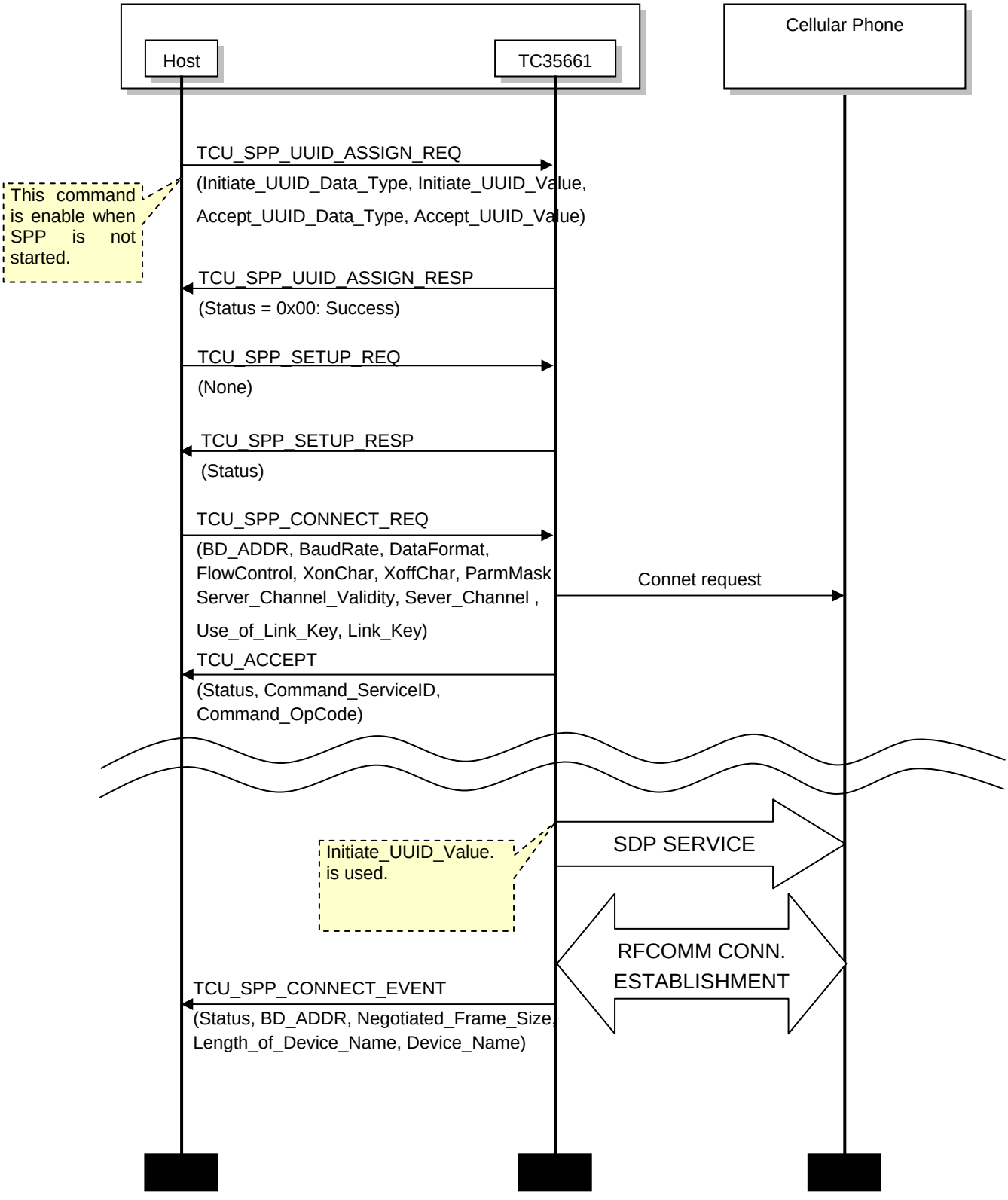


1.9 Restriction during Sniff Exit

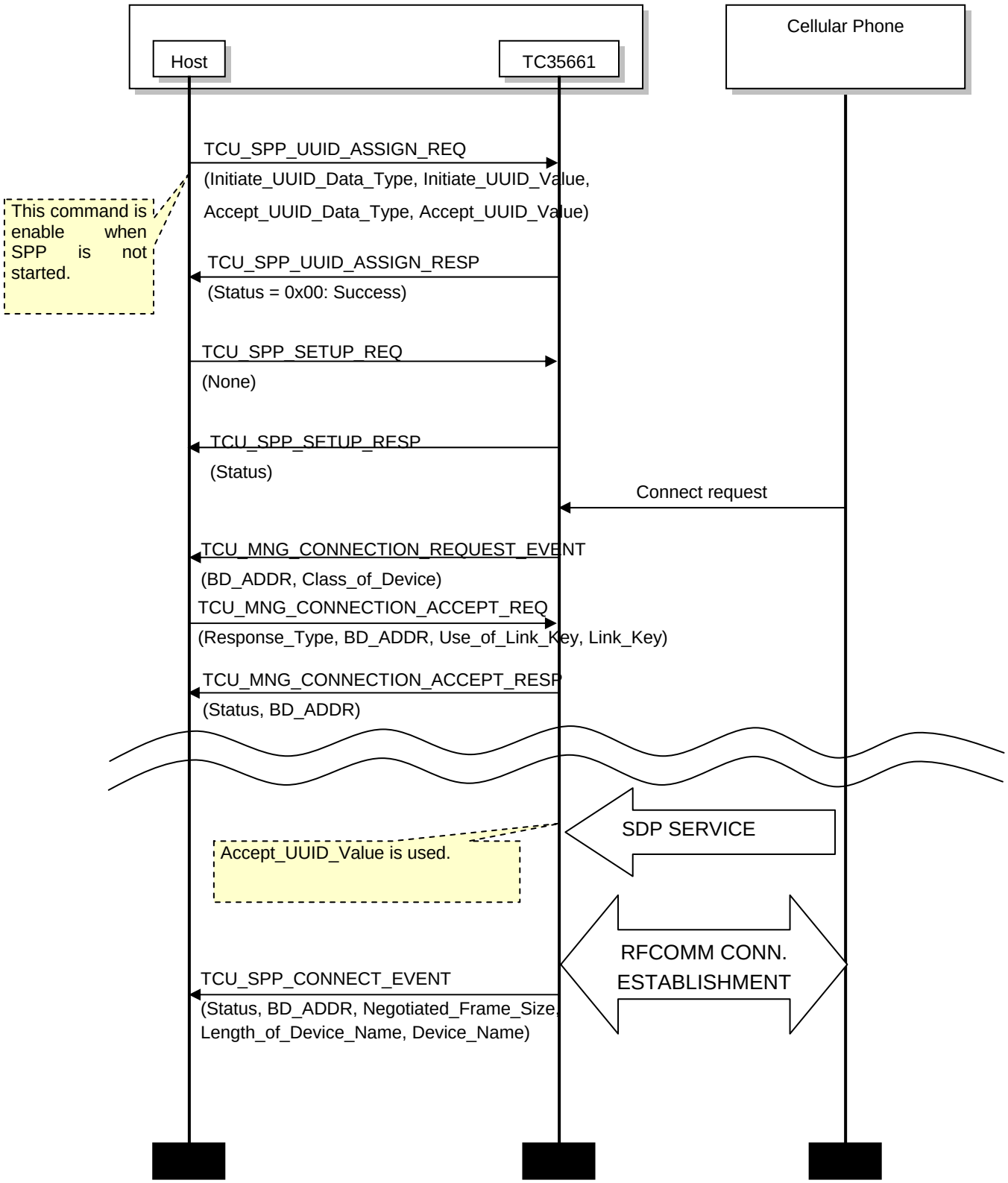


1.10 SPP UUID value setting

1.10.1 Pairing from local device

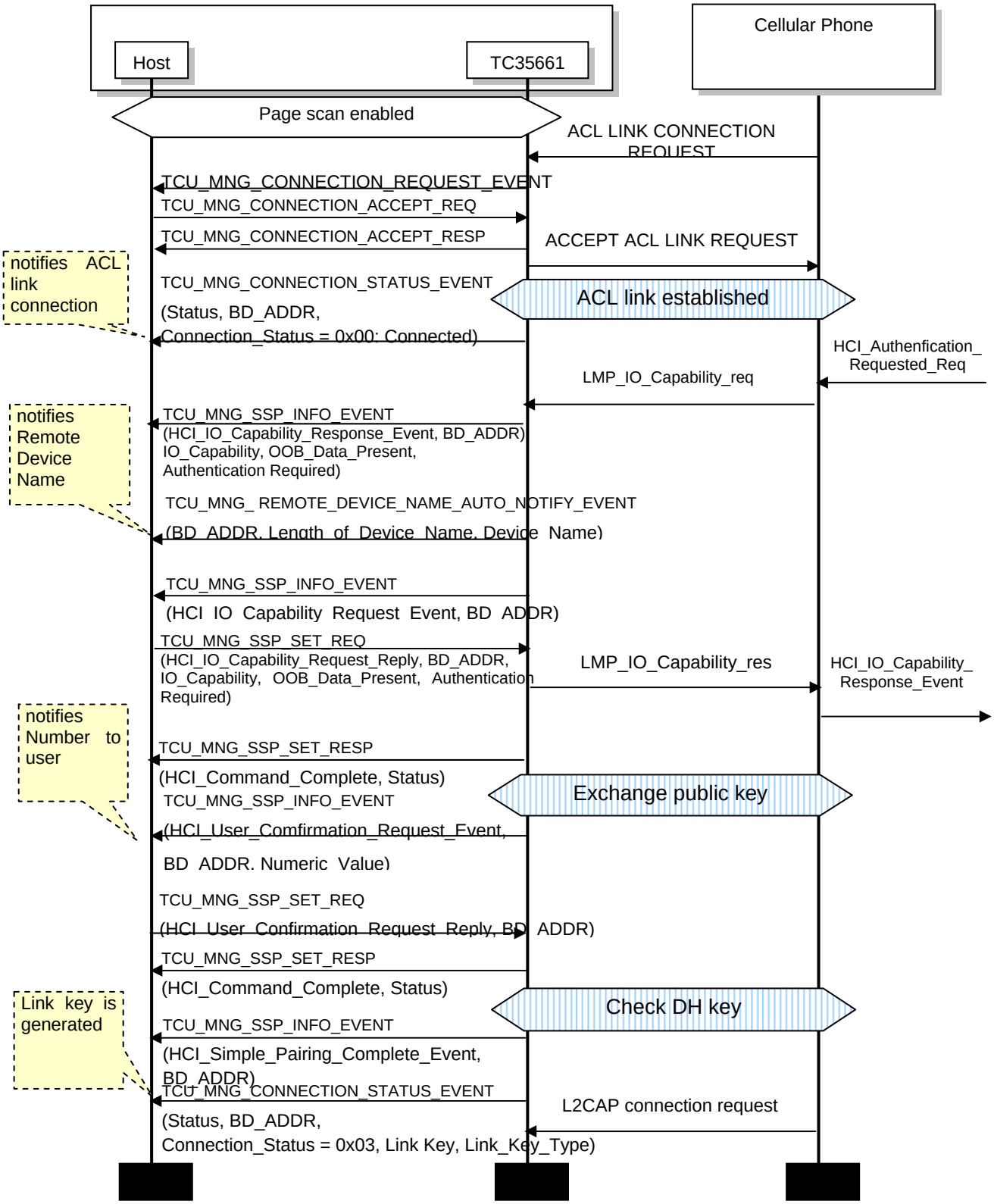


1.10.2 Pairing from remote device

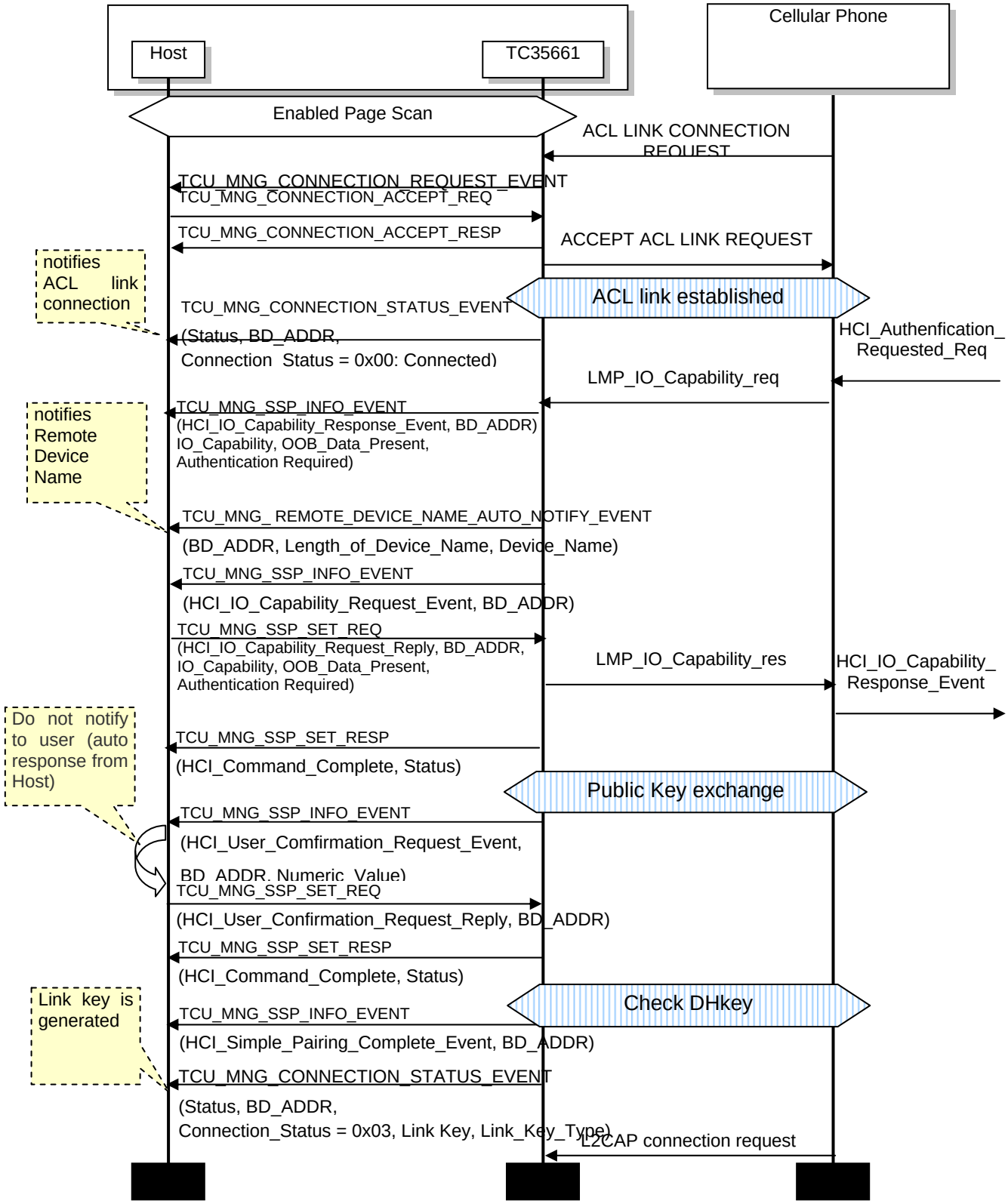


1.11 Security Mode 4

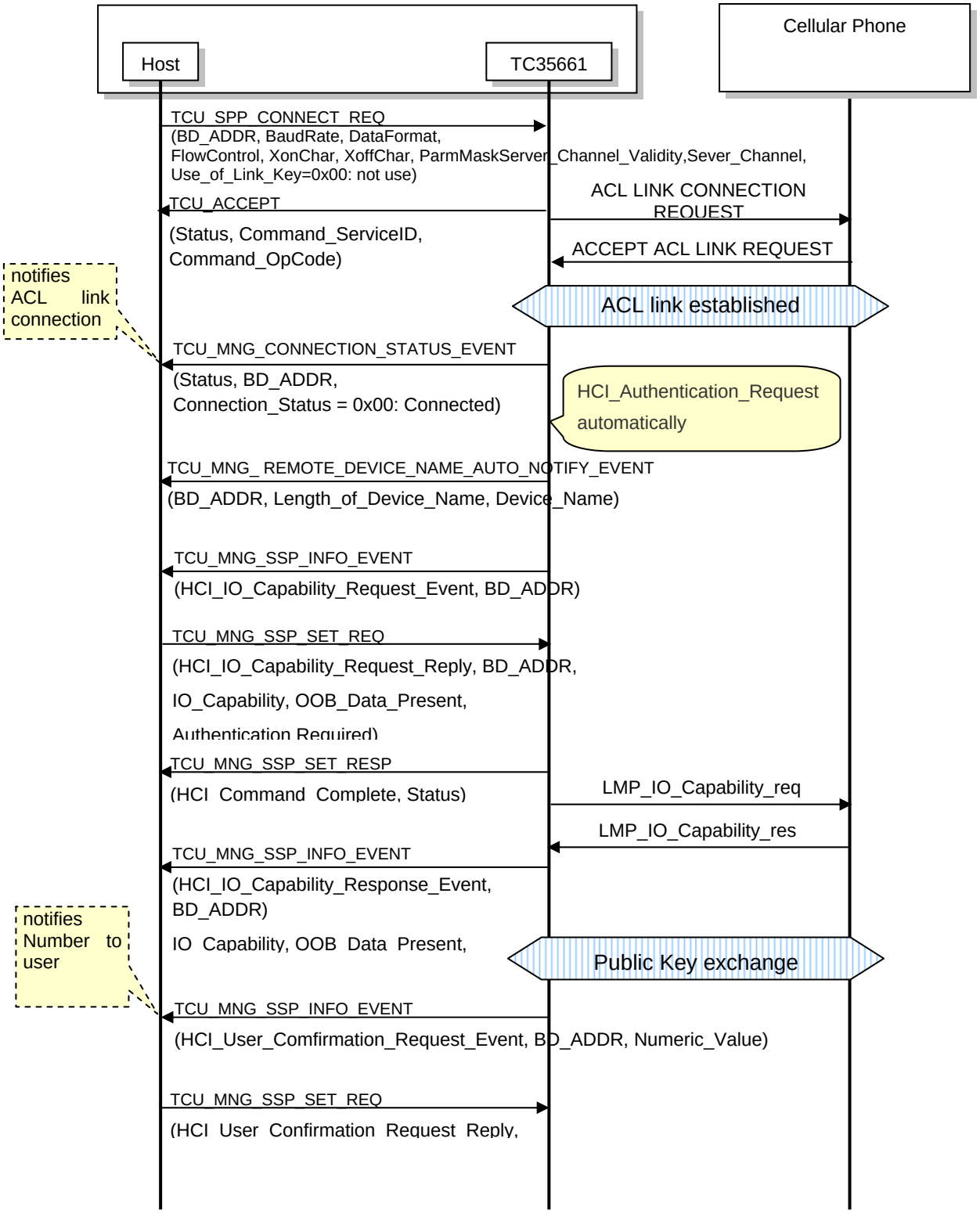
1.11.1 Pairing with Numeric Comparison from remote device

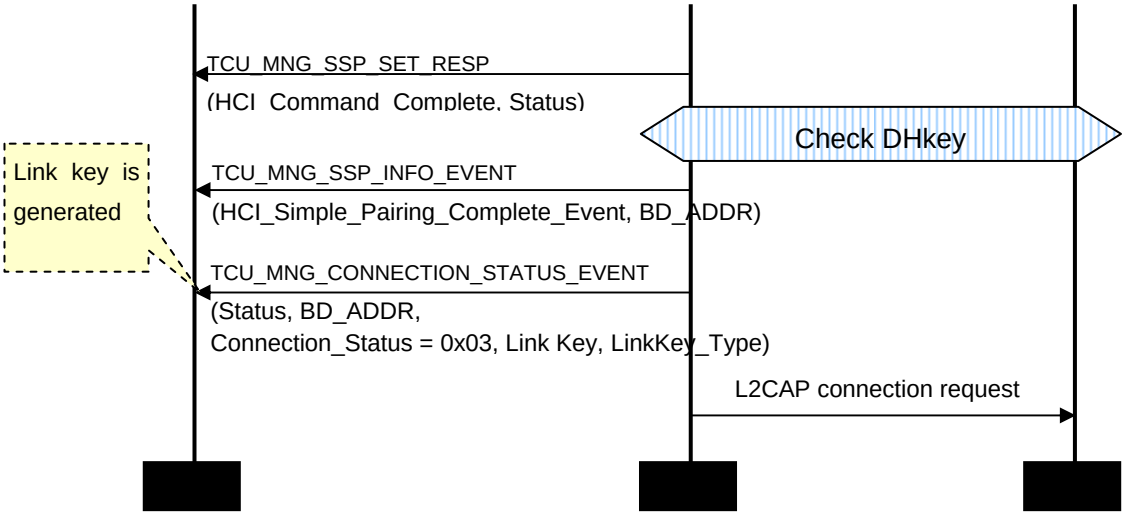


1.11.2 Pairing with Just Works from remote device

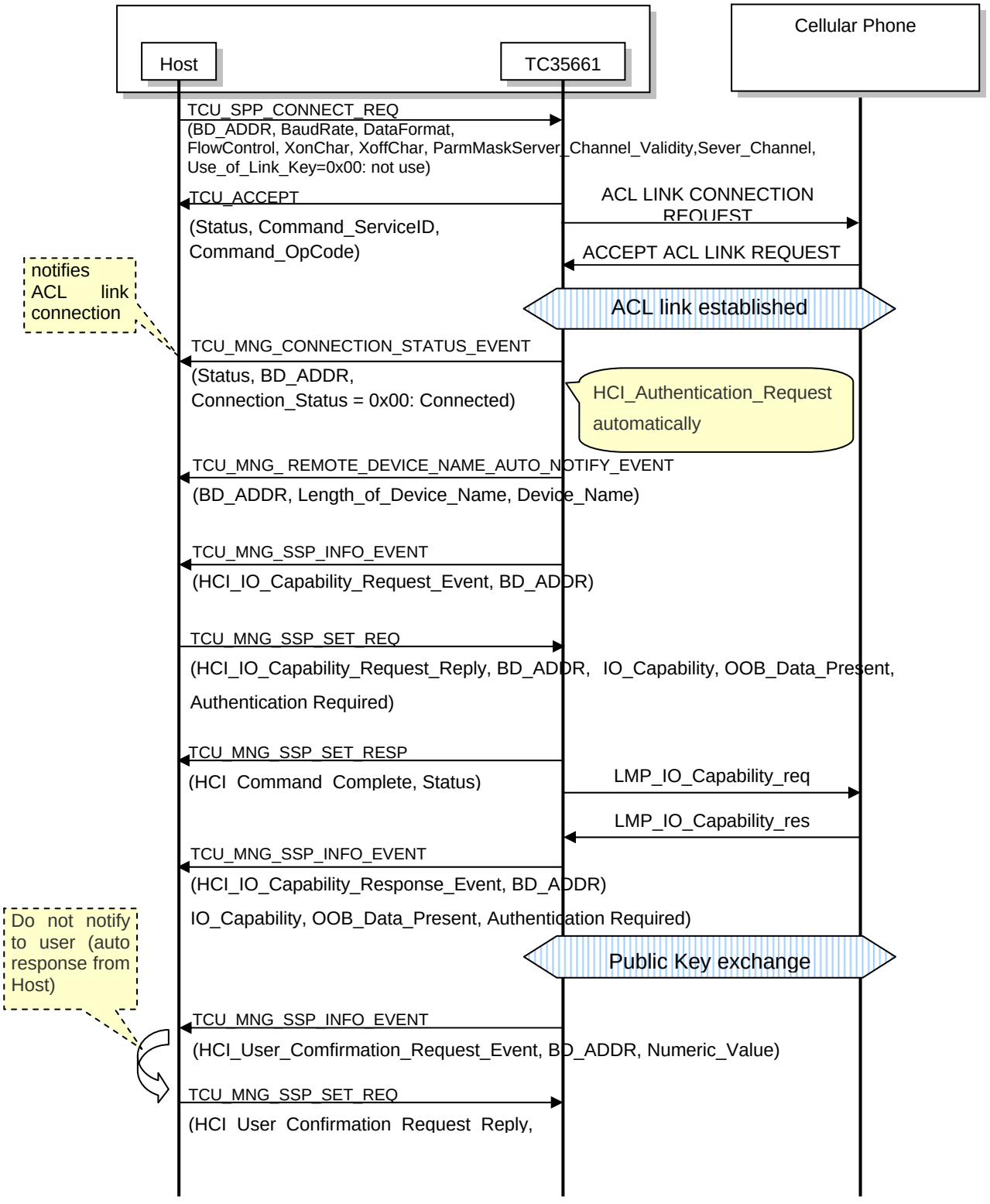


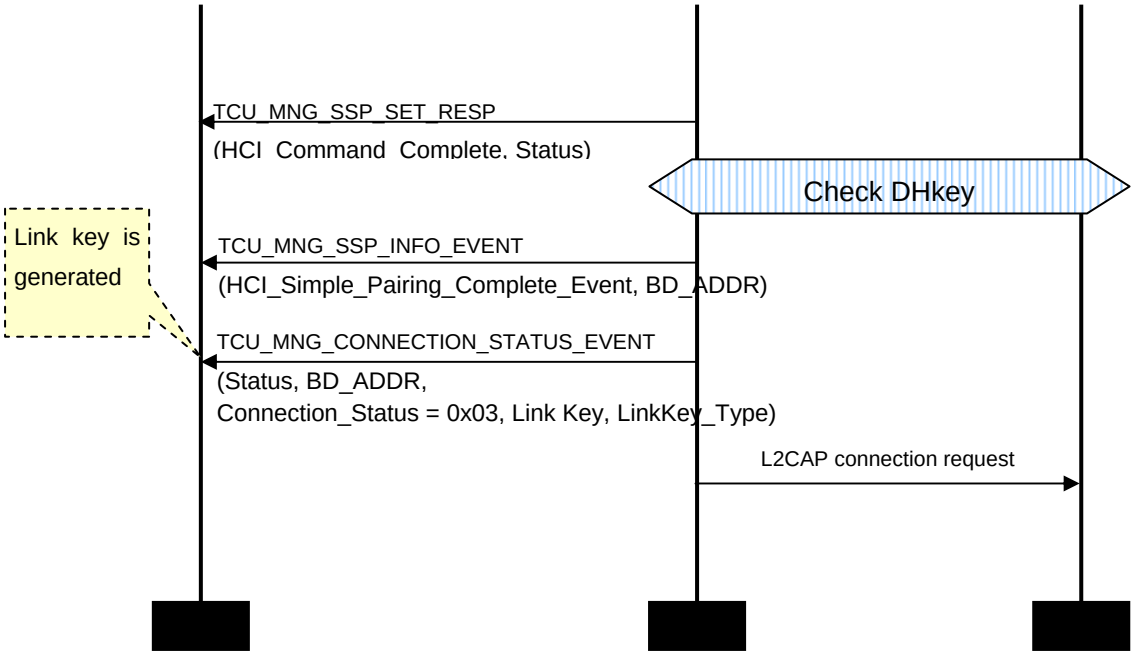
1.11.3 Pairing with Numeric Comparison from local device



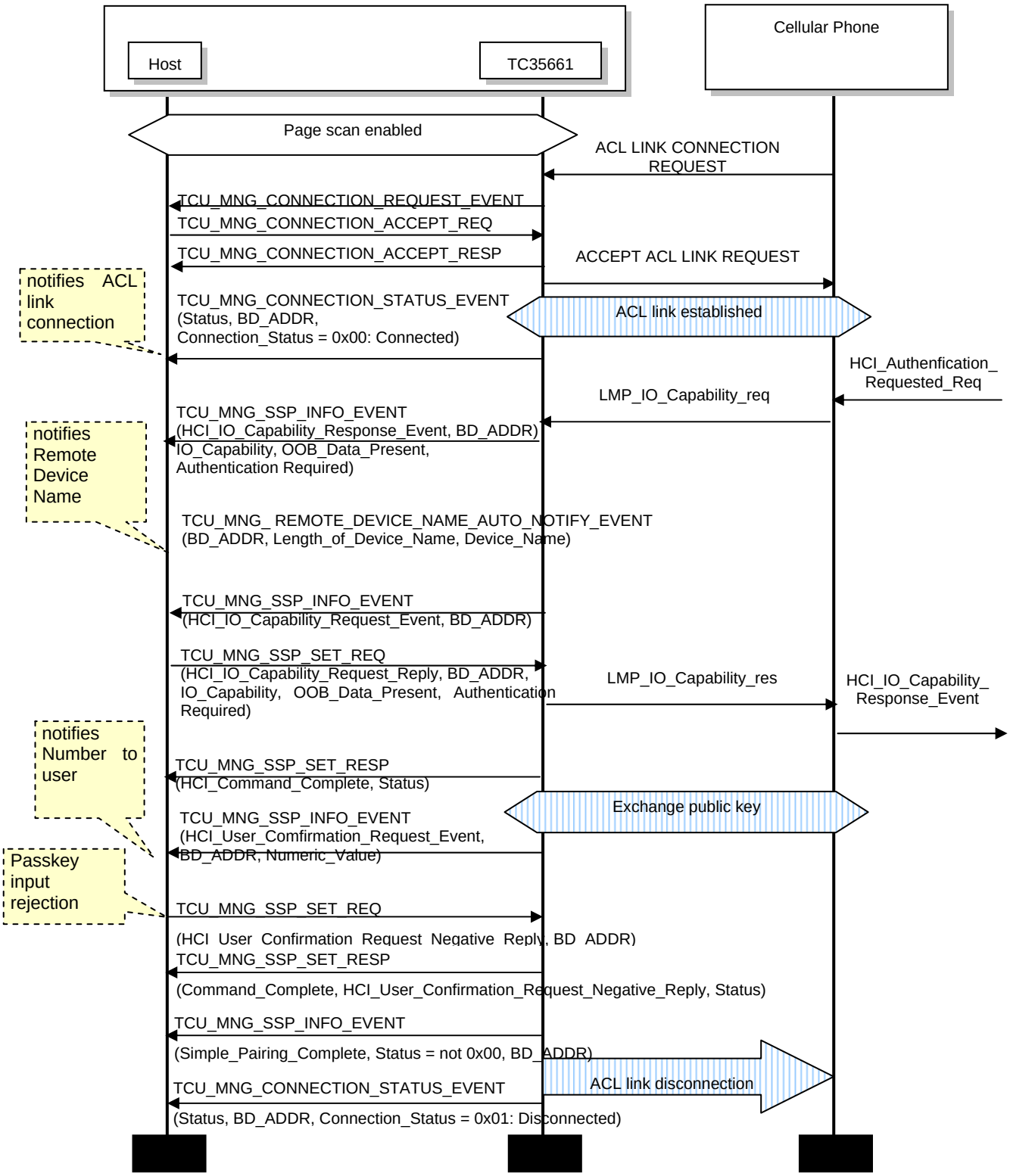

TCU_MNG_SSP_SET_RESP
(HCI_Command_Complete, Status)
Check DHkey
Link key is generated
TCU_MNG_SSP_INFO_EVENT
(HCI_Simple_Pairing_Complete_Event, BD_ADDR)
TCU_MNG_CONNECTION_STATUS_EVENT
(Status, BD_ADDR,
Connection_Status = 0x03, Link Key, LinkKey_Type)
L2CAP connection request

1.11.4 Pairing with Just Works from local device

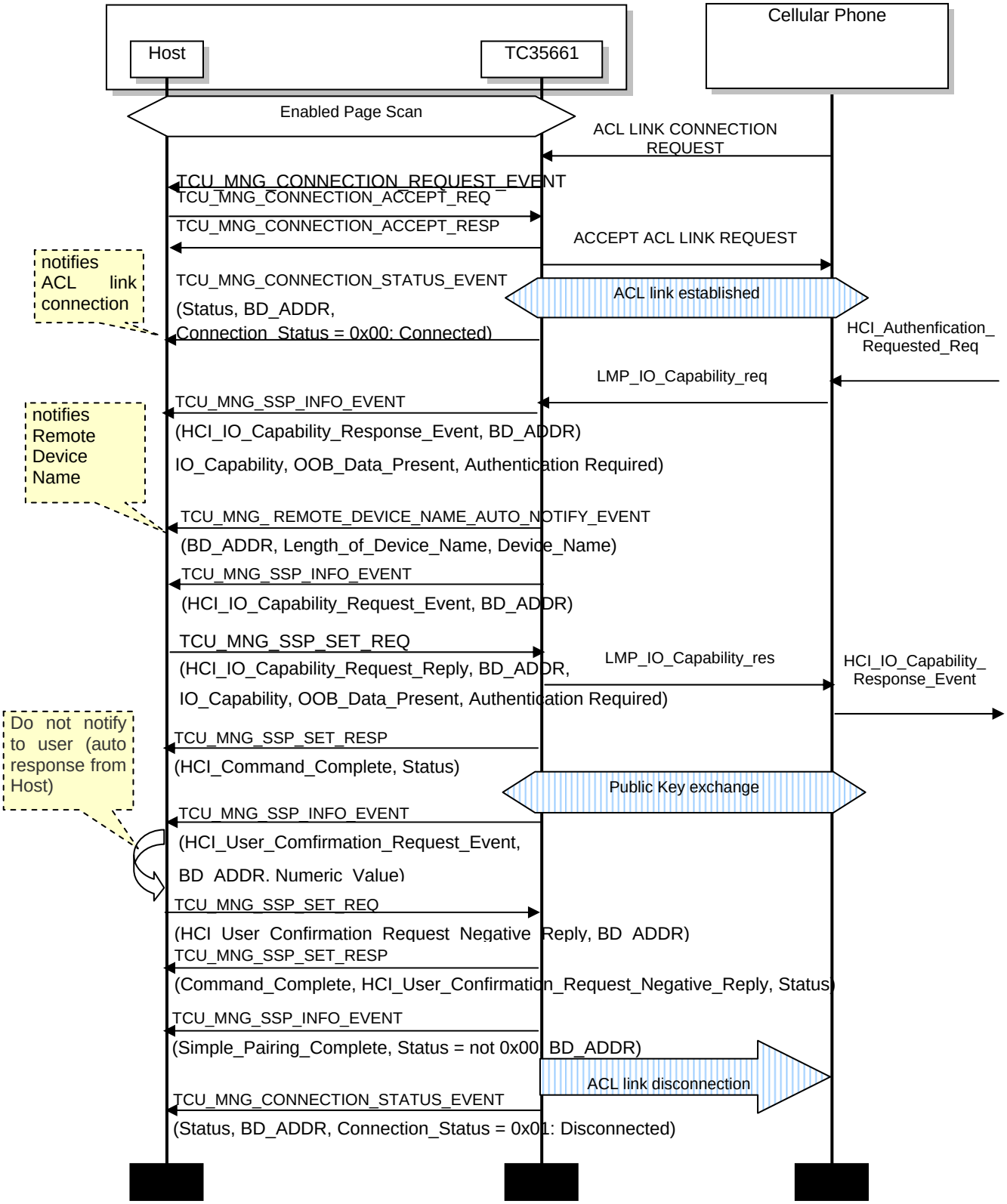



TCU_MNG_SSP_SET_RESP
(HCI_Command_Complete, Status)
Check DHkey
Link key is generated
TCU_MNG_SSP_INFO_EVENT
(HCI_Simple_Pairing_Complete_Event, BD_ADDR)
TCU_MNG_CONNECTION_STATUS_EVENT
(Status, BD_ADDR,
Connection_Status = 0x03, Link Key, LinkKey_Type)
L2CAP connection request

1.11.5 Pairing with Numeric Comparison from remote device (Local device rejects)

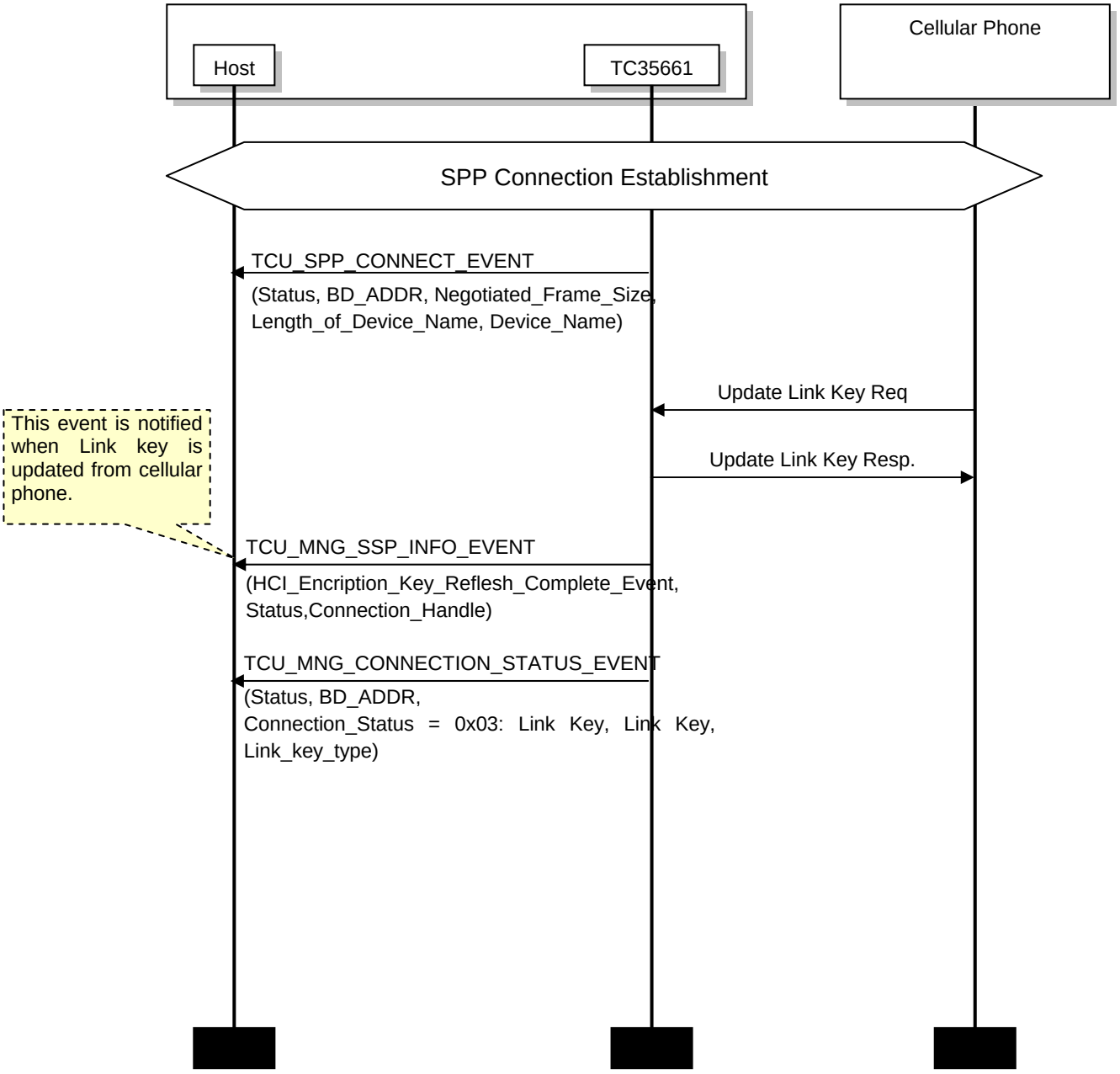


1.11.6 Pairing with Just Works from remote device (Local device rejects)



1.12 Update Link Key

1.12.1 From remote device after SPP establishment



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