LTE X2 Handover

X2 Handover Case
The X2 handover is used when direct connectivity exits between the source and target eNBs with X2 interface

Handover Preparation
The X2 handover procedure is performed without Evolved Packet Core (EPC) involvement, i.e. preparation messages are directly exchanged between Source eNB and Target eNB

Handover Execution
There is direct tunnel formed between source and target eNBs for downlink data forwarding in handover execution time

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<tbody>
<tr>
<td>Source eNB</td>
<td>Target eNB</td>
<td>MME</td>
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<tr>
<td>UE moving</td>
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- Source eNB makes the HO decision
- Direct Tunnel Setup (X2 Transport Bearer between Source eNB and Target eNB)
- Detach from Source eNB
- Direct Packet Forwarding (DL traffic from Source eNB to Target eNB)
- Path Switch procedure between Target eNB and MME
- Release S1 Bearer of Source eNB
- Release X2 Transport Bearer for direct Packet Forwarding

DRB (Data Radio Bearer)  S1 Bearer (GTP Tunnel)  X2 Bearer (GTP Tunnel)  S11 (GTP-C) Signaling  UL Traffic  DL Traffic

About NMC Consulting Group
NMC Consulting Group was founded on year 2002 and is advanced, professional network consulting company which is specialized for IP Network area like FTTH, Metro Ethernet and IP/MPLS, Service area like IPTV and IMS lastly, Wireless network area like Mobile WiMAX and LTE.

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