

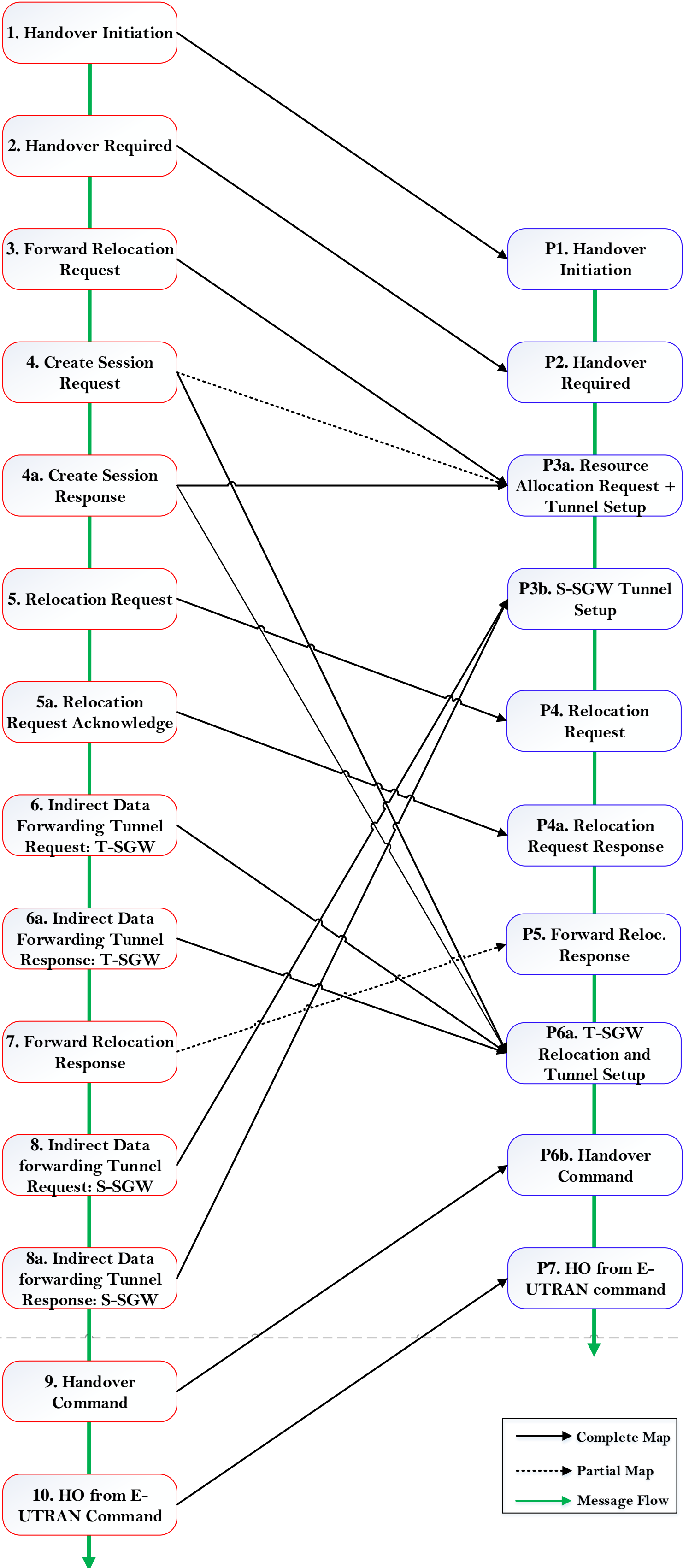
Optimized Handover Preparation Signaling-Other Scenarios

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LTE to UMTS/2G Inter-RAT HO with Target
SGW and Direct Tunnel

MESSAGE MAPPING



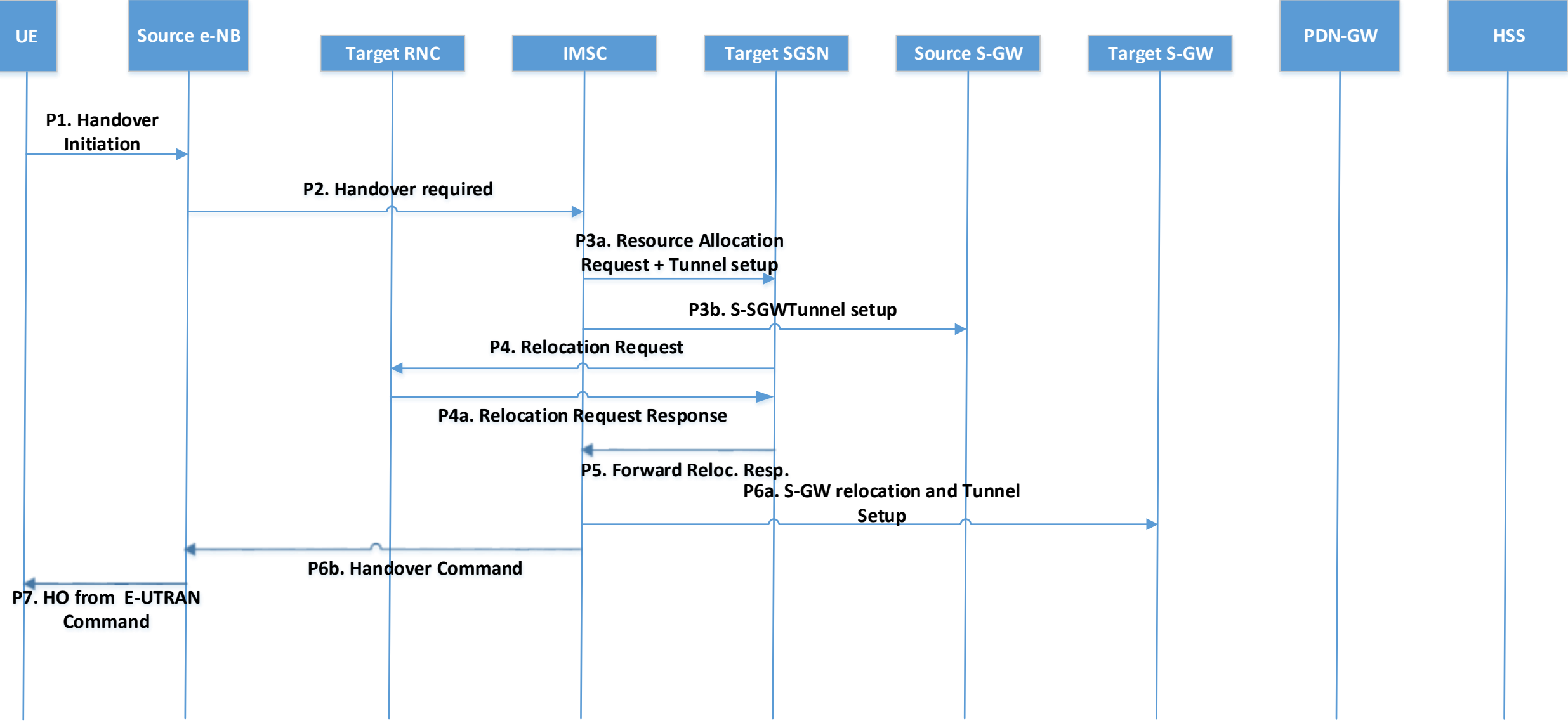
Current HO Preparation Signaling

Proposed HO Preparation Signaling

Handover Preparation
Handover Execution

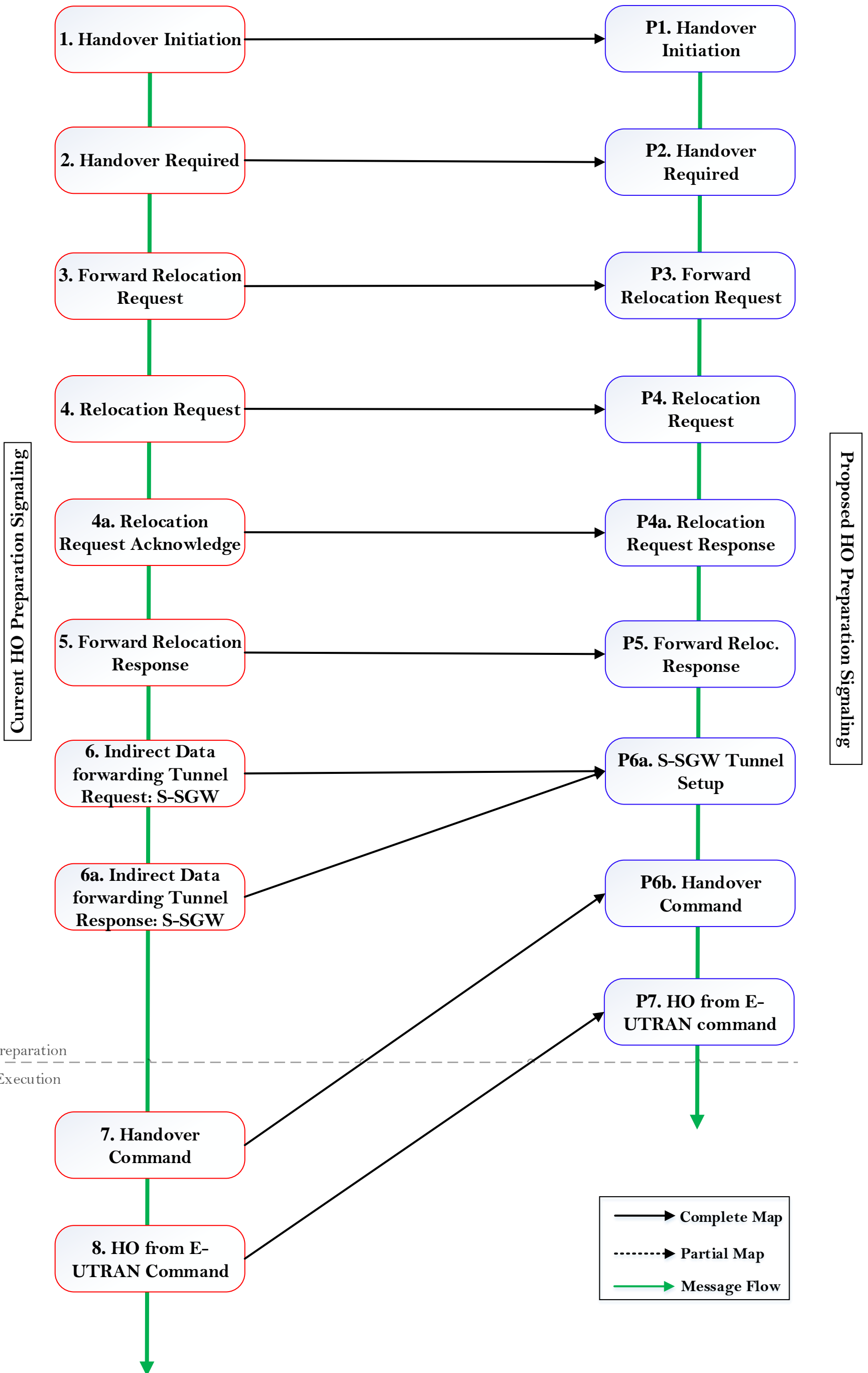
———→ Complete Map
→ Partial Map
 ———→ Message Flow

SIGNALING

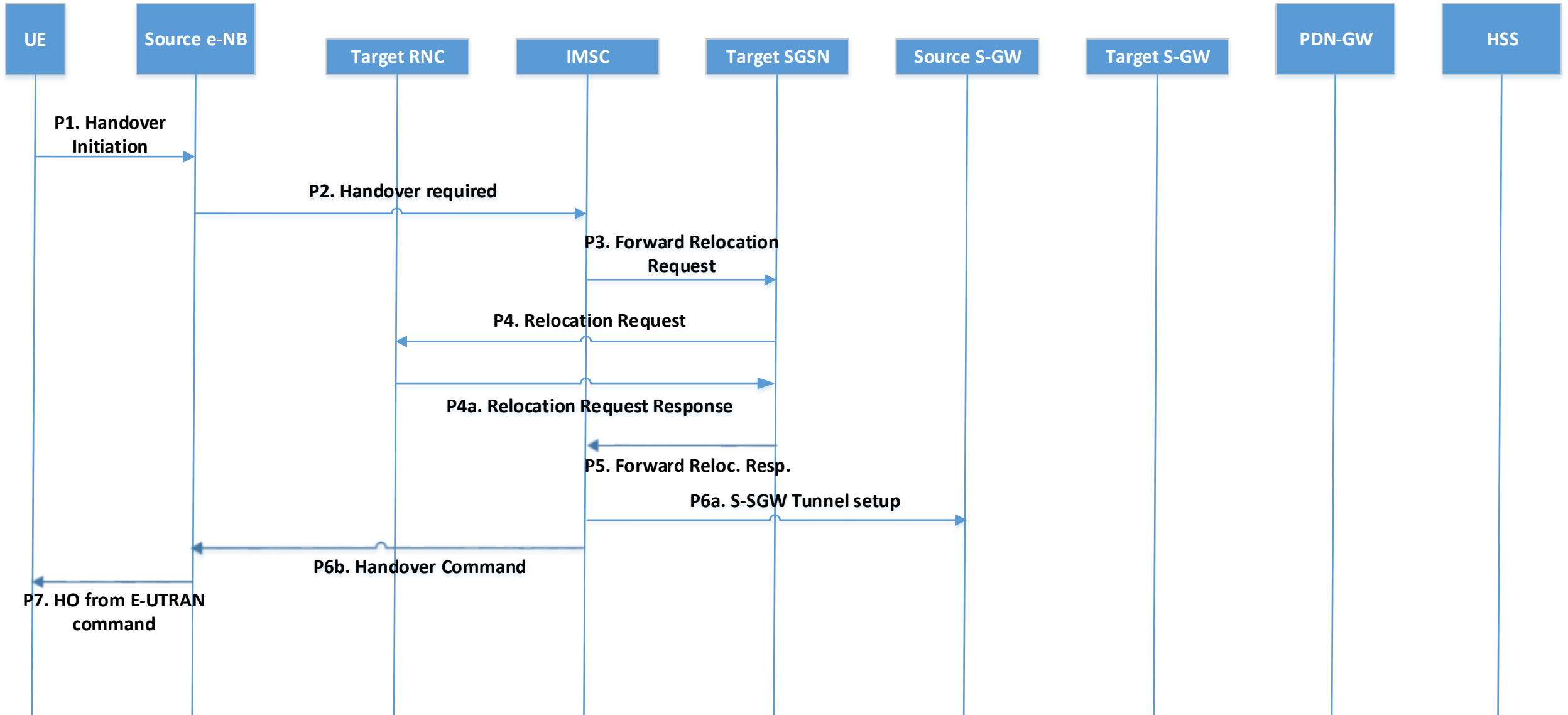


LTE to UMTS/2G Inter-RAT HO without
Target SGW and Direct Tunnel

MESSAGE MAPPING

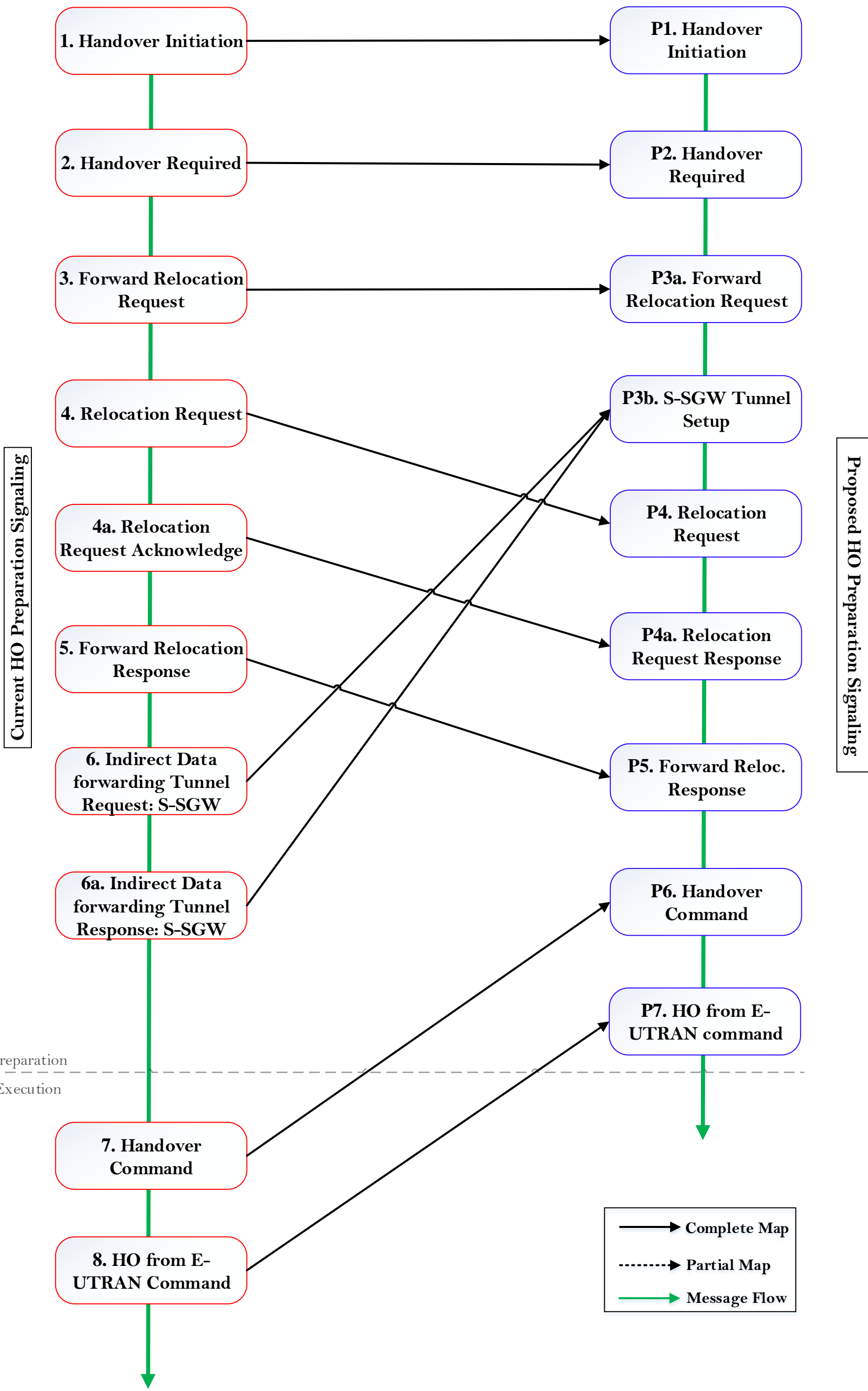


SIGNALING

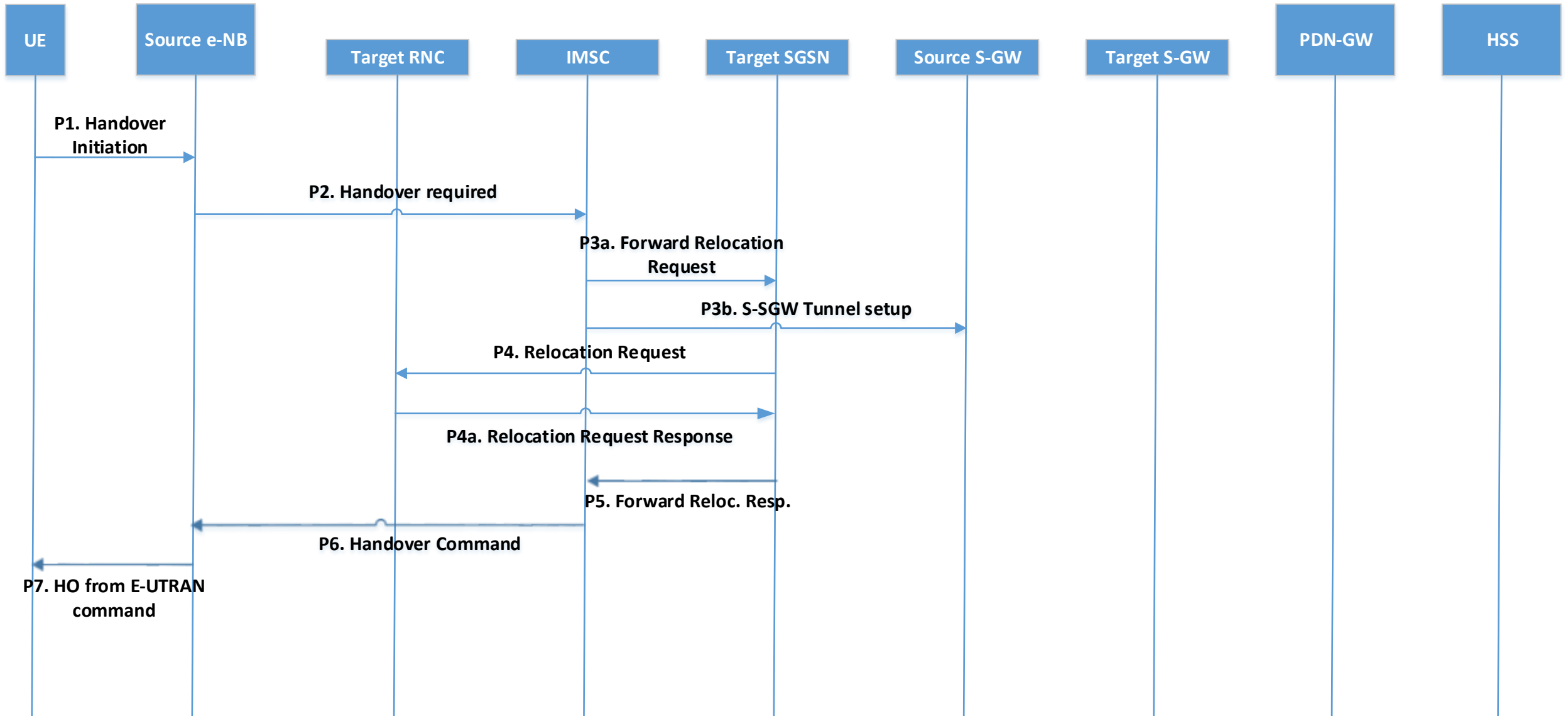


LTE to UMTS/2G Inter-RAT HO without
Target SGW and Indirect Tunnel

MESSAGE MAPPING

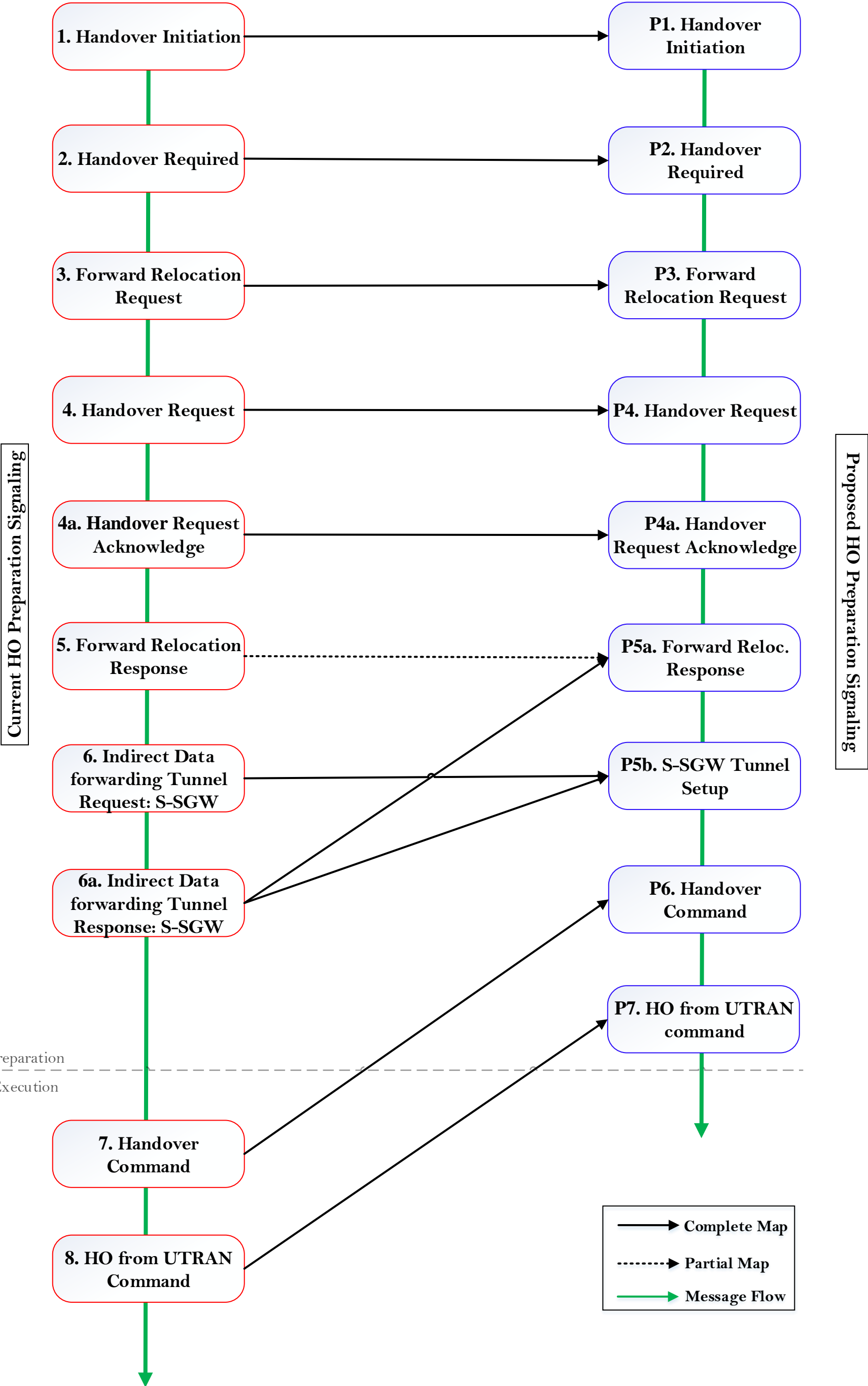


SIGNALING



UMTS/2G to LTE Inter-RAT HO without
Target SGW

MESSAGE MAPPING

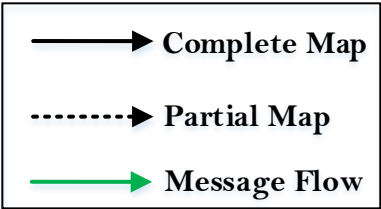


Current HO Preparation Signaling

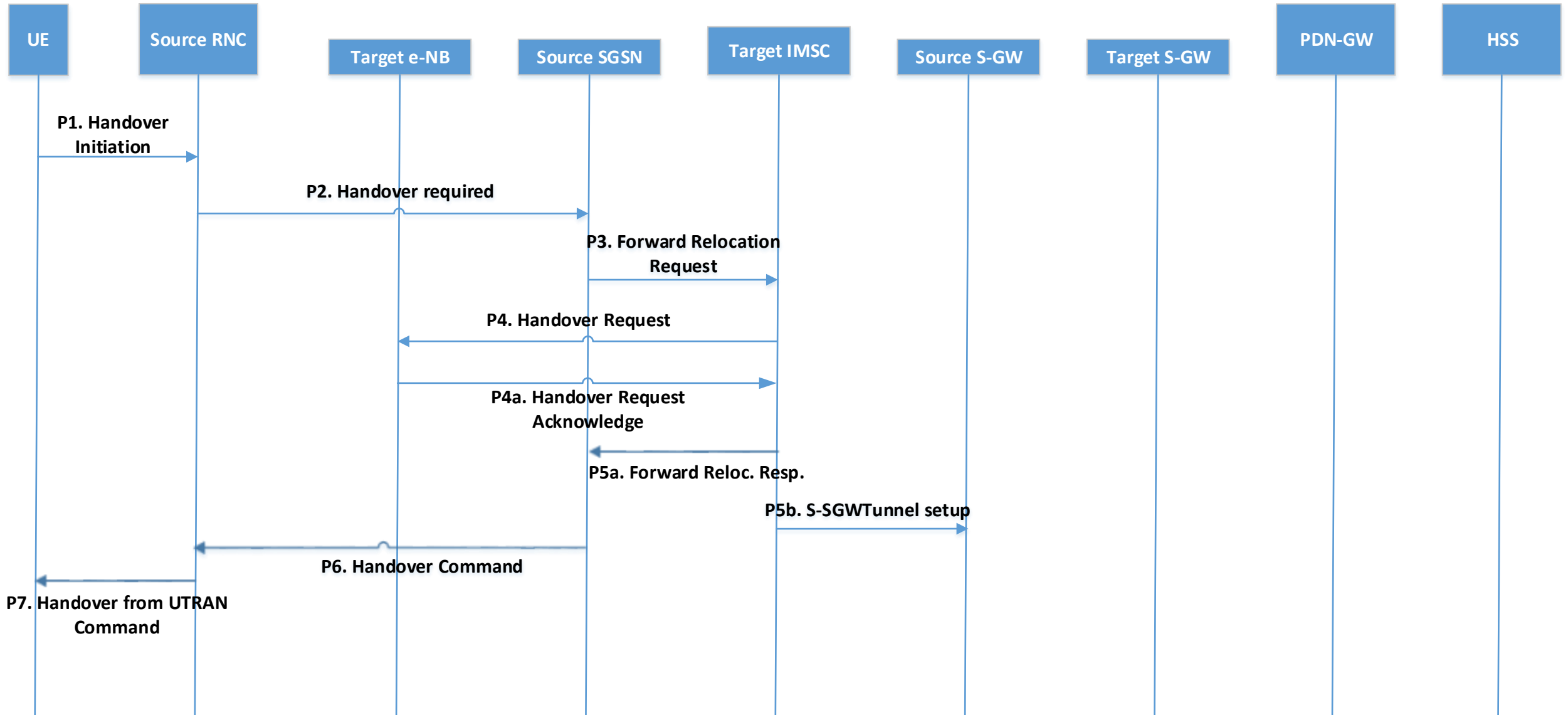
Proposed HO Preparation Signaling

Handover Preparation

Handover Execution

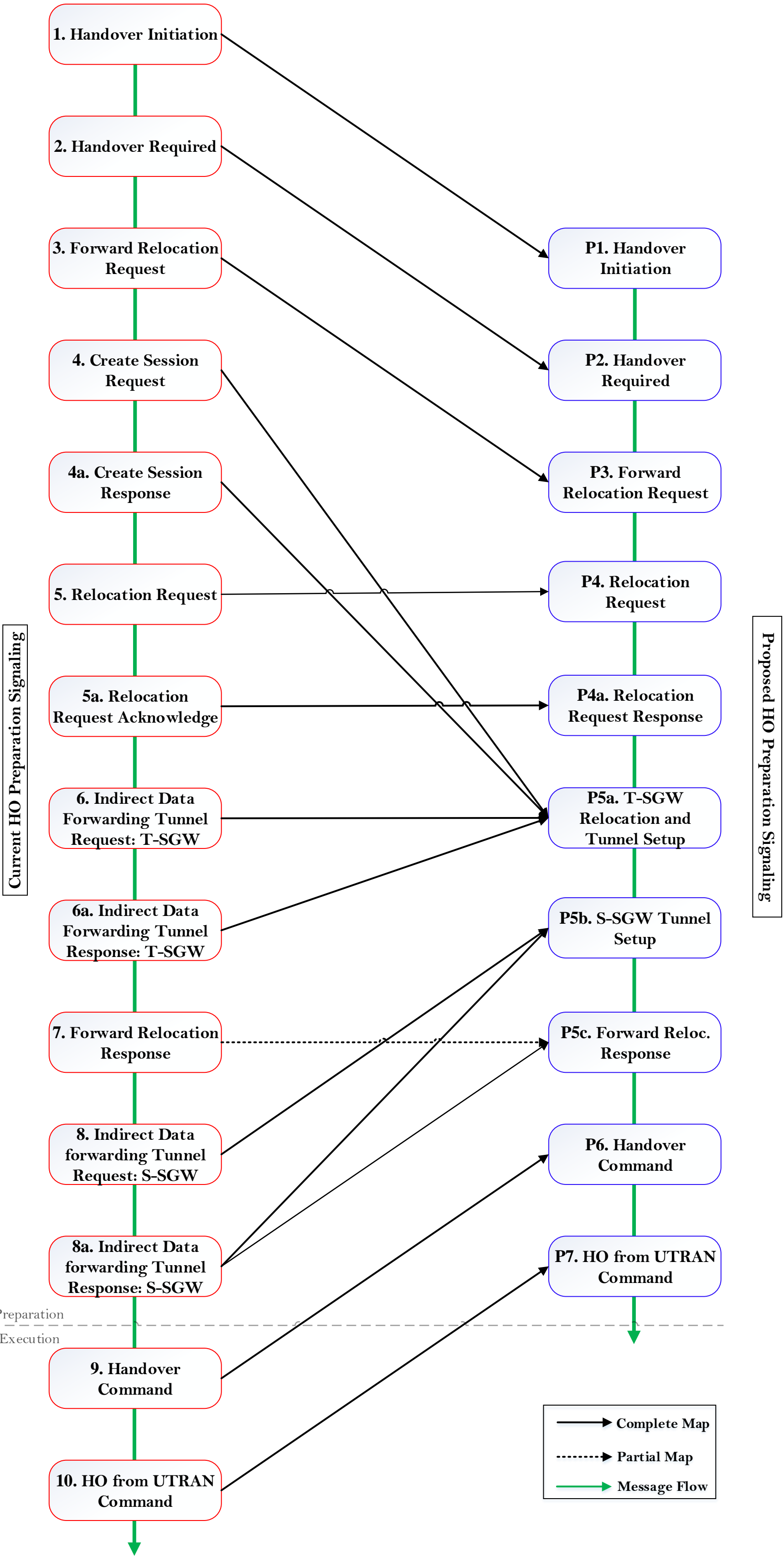


SIGNALING

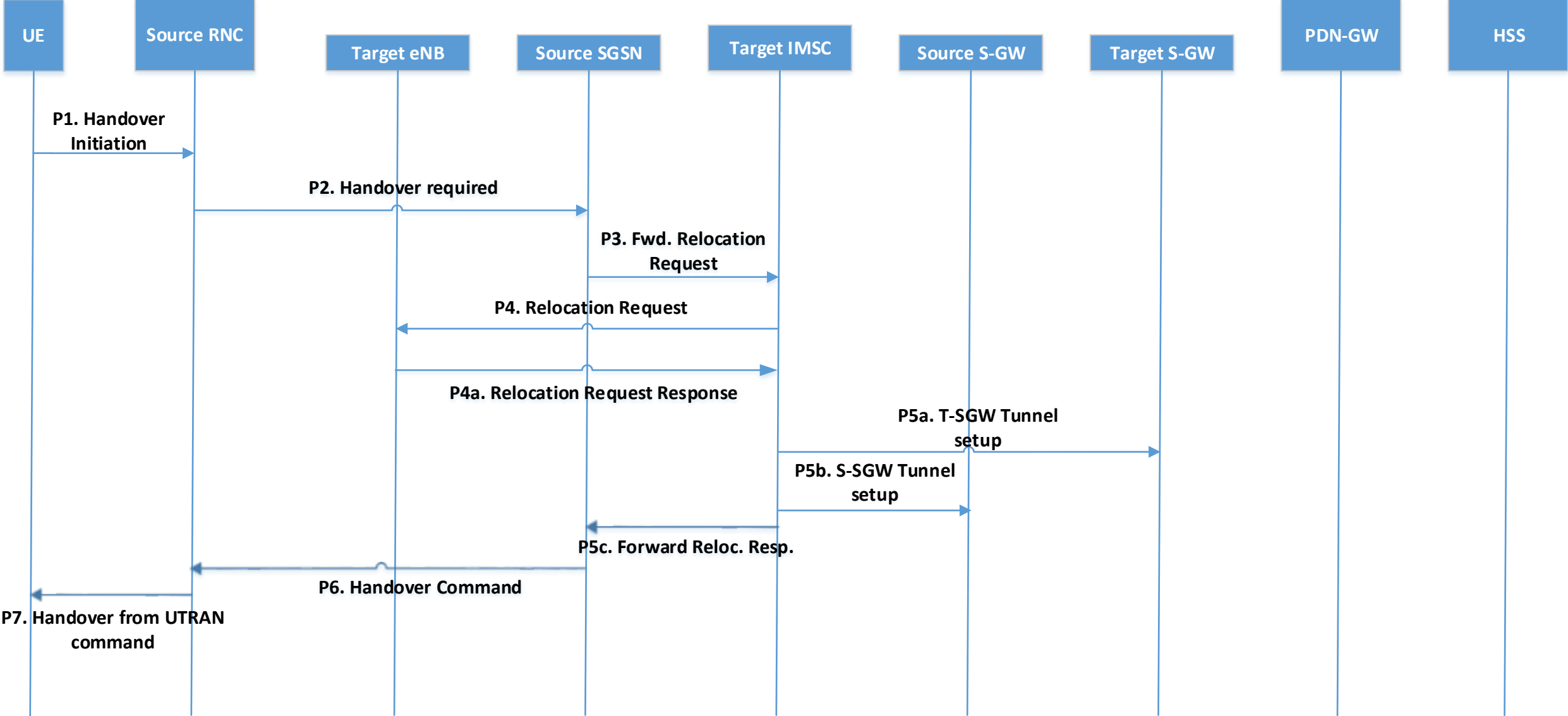


UMTS/2G to LTE Inter-RAT HO with Target
SGW

MESSAGE MAPPING



SIGNALING

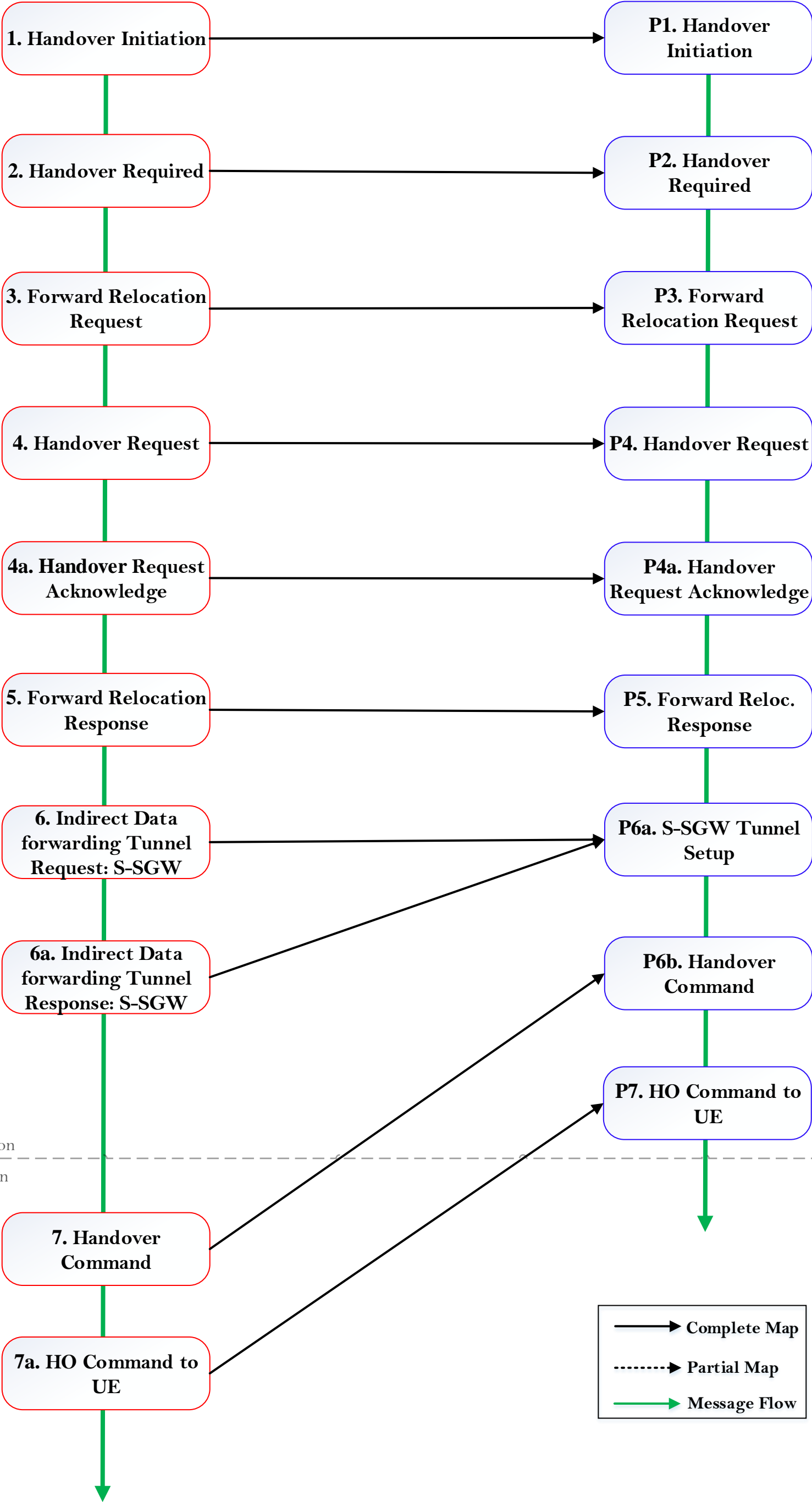


Intra-RAT HO with MME relocation (No S-GW relocation)

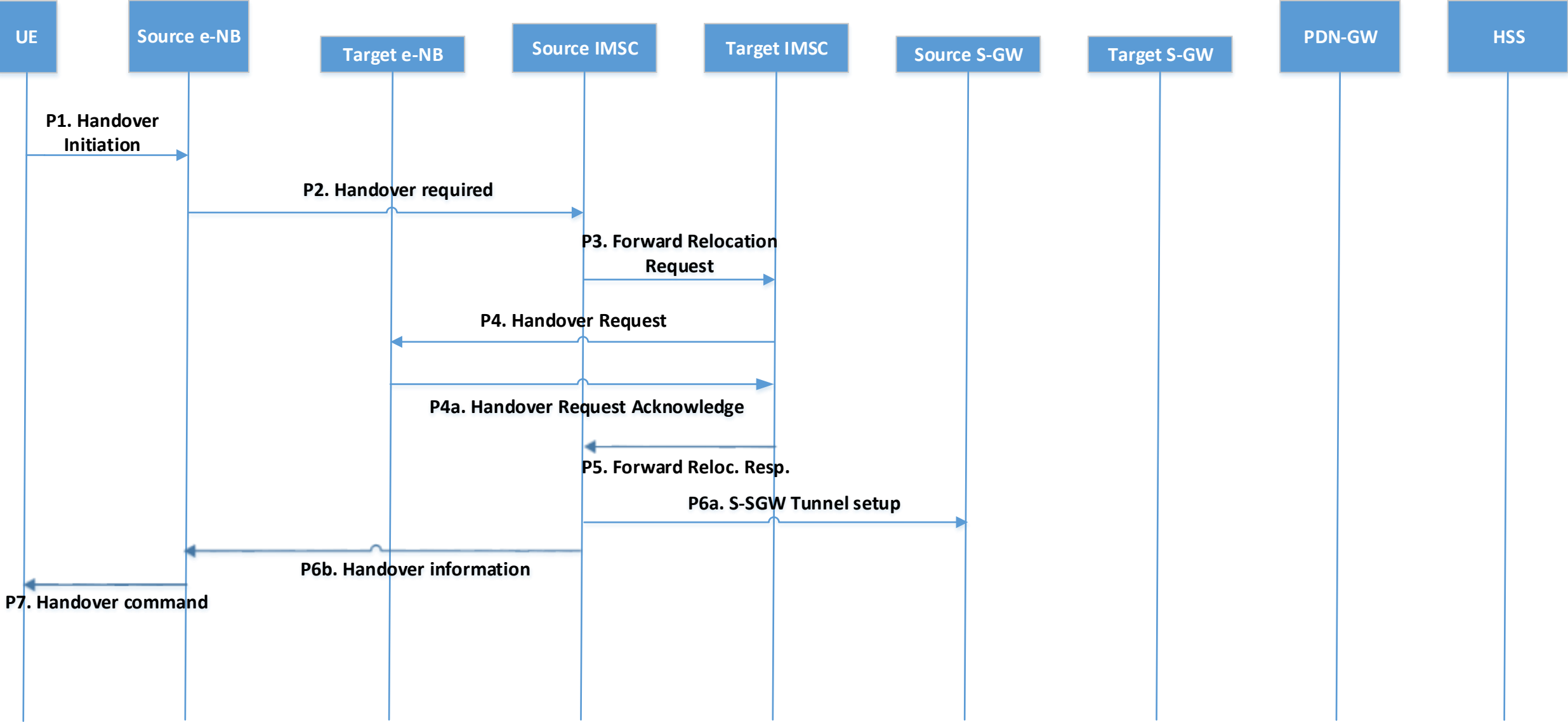
MESSAGE MAPPING

Current HO Preparation Signaling

Proposed HO Preparation Signaling

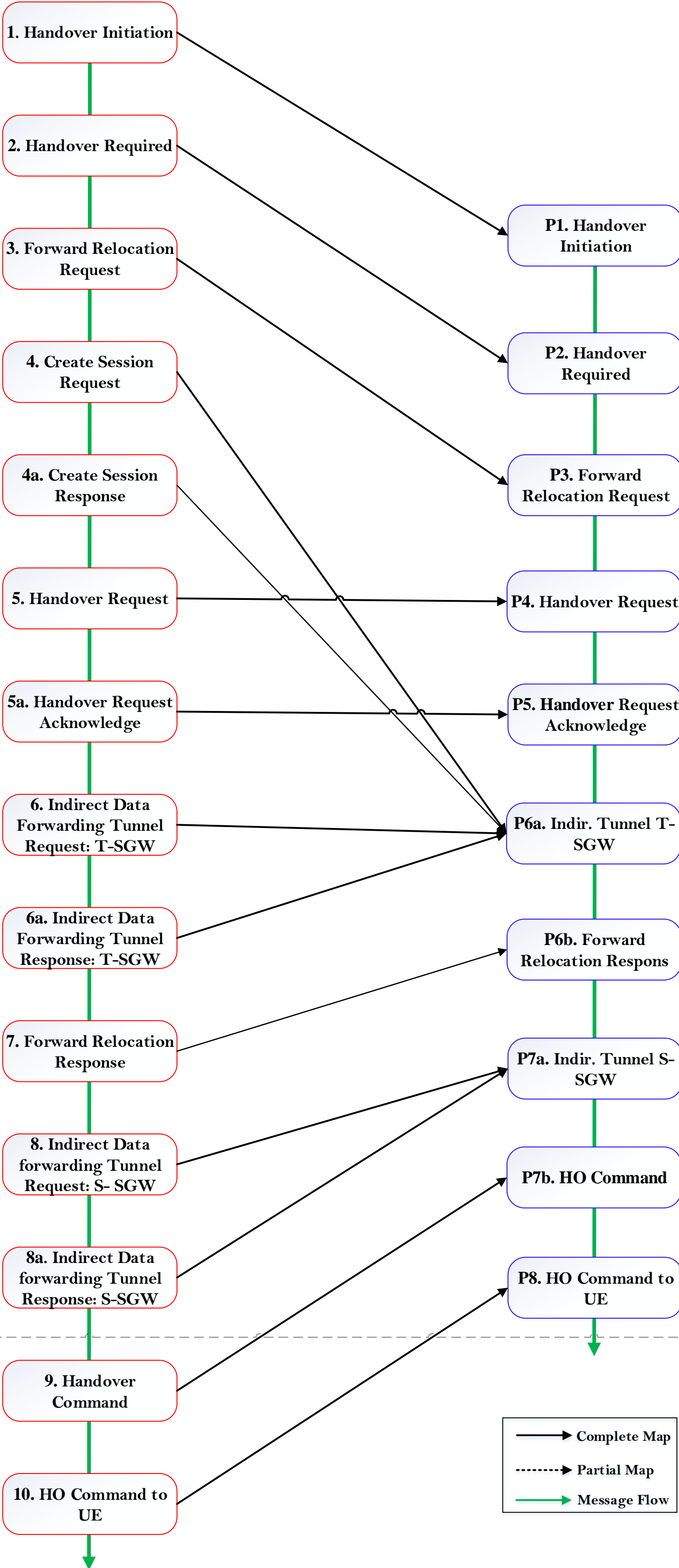


SIGNALING



Intra-RAT HO with MME and S-GW relocation

MESSAGE MAPPING



Current HO Preparation Signaling

Proposed HO Preparation Signaling

Handover Preparation
Handover Execution

→ Complete Map
→ Partial Map
→ Message Flow

SIGNALING

