



# Low Mobility Handover (Xn/N2)

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## Feature Summary and Revision History

### Summary Data

*Table 1: Summary Data*

Applicable Product(s) or Functional Area	AMF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled - Always-on
Related Documentation	Not Applicable

### Revision History

*Table 2: Revision History*

Revision Details	Release
First introduced.	2022.01.0

## Feature Description

The low mobility handover feature supports the following functions:

- Handover cancel for N2 without AMF change
- Handover cancel for N2 with source and target AMF change

- Handover failure procedure with and without AMF change

AMF doesn't support the following:

- Collision
- Non-3GPP access
- Trace
- Event subscription
- PCF interactions

## How It Works

This section describes how this feature works.

## Call Flows

This section describes the key call flows for this feature.

### N2 Handover Cancel Call Flow

This section describes the N2 Handover cancel call flow.

The source NG-RAN sends Handover Cancel Request to the source AMF, prior to sending the Handover command to UE. It sends this request when it observes the following:

- Timer expiry
- Internal failure within the source NG-RAN
- UE return to source cell

Handover Cancel Request releases the handover reserved resources in the target system.

Figure 1: N2 Handover Cancel Call Flow

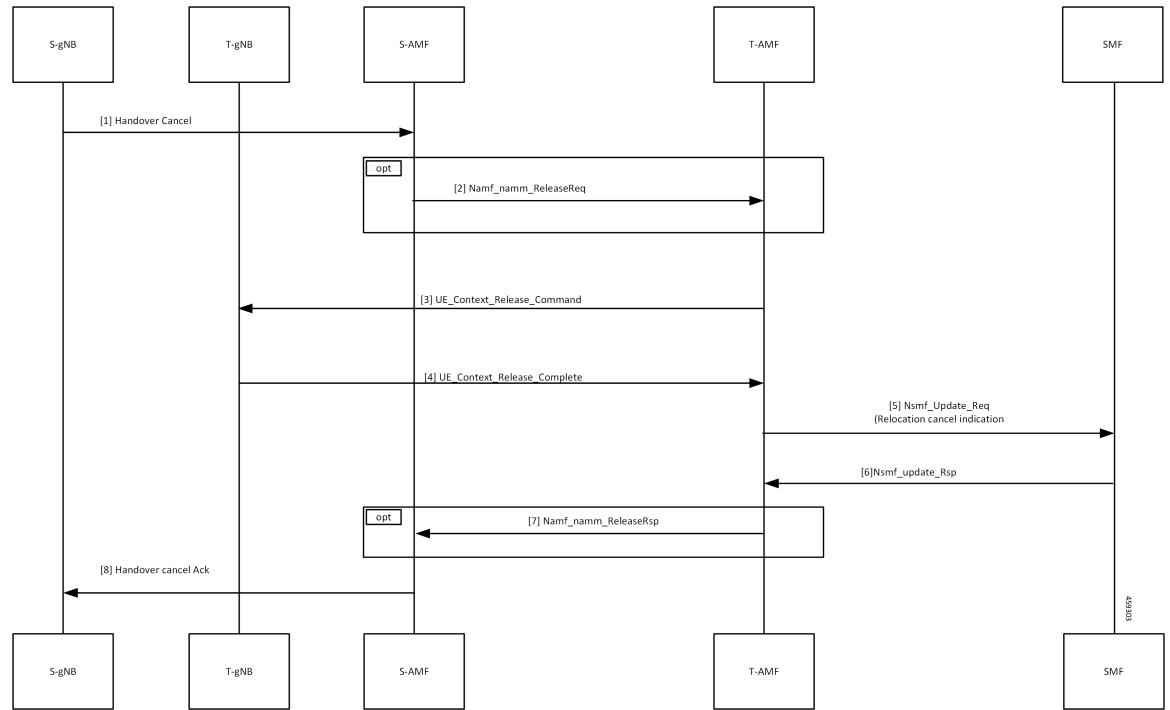


Table 3: N2 Handover Cancel Call Flow Description

Step	Description
1	The S-gNB (source gNB) sends the Handover Cancel to the S-AMF (source AMF).
2	S-AMF sends the Namf_Comm_ReleaseReq to the T-AMF (target AMF).
3, 4	T-AMF sends the UE Context Release Command to the T-gNB (target gNB) and receives the UE Context Release Complete.
5	T-AMF sends the Relocation Cancel Indication (Nsmf_Update_Req) to the SMF.
6	SMF sends Nsmf_update_Rsp to T-AMF.
7	S-AMF receives Namf_Comm_ReleaseRsp from the T-AMF.
8	S-AMF sends Handover Cancel ACK to the S-gNB.

