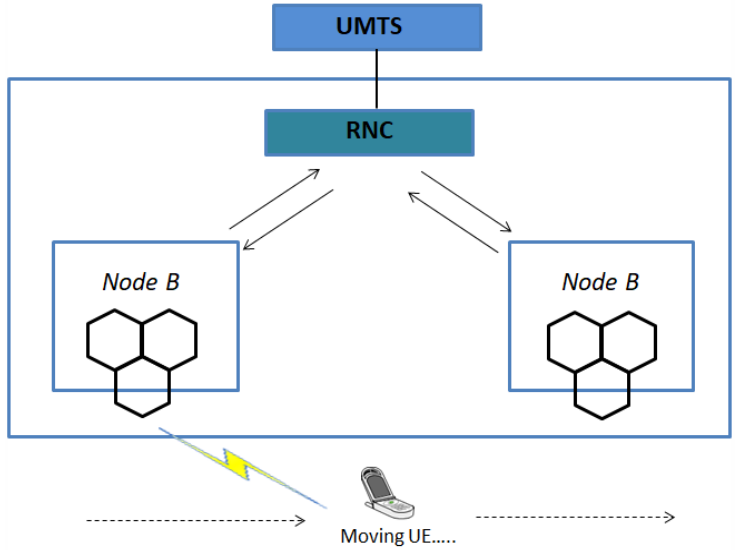
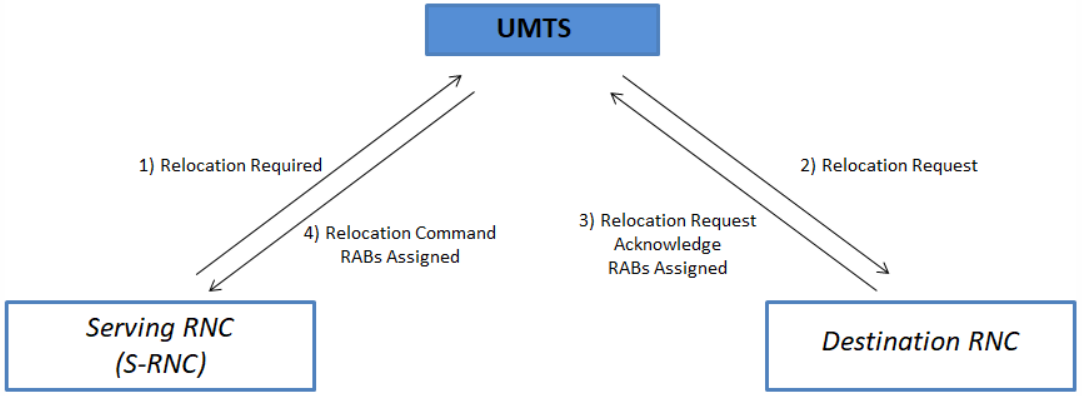
Intra Handover (Relocation) Procedure in UMTS Network

- Relocation is a procedure used during mobility scenarios when Control of the Serving Radio Network Subsystem (SRNS) is changed to another Radio Network Subsystem (RNS)
- This procedure is only performed for a UE in CONNECTED state. The Serving SRNS Relocation procedure is used to move the connection between the RAN and the CN for the source SRNC to the RAN for the target RNC, from a "standing still position". In the procedure, the Iu links are relocated.



Serving Radio Network Sub System

- If the target RNC is connected to the same MSC as the source SRNC, an Intra-MSC SRNS Relocation procedure is performed, as shown in the figure



Relocation Procedure

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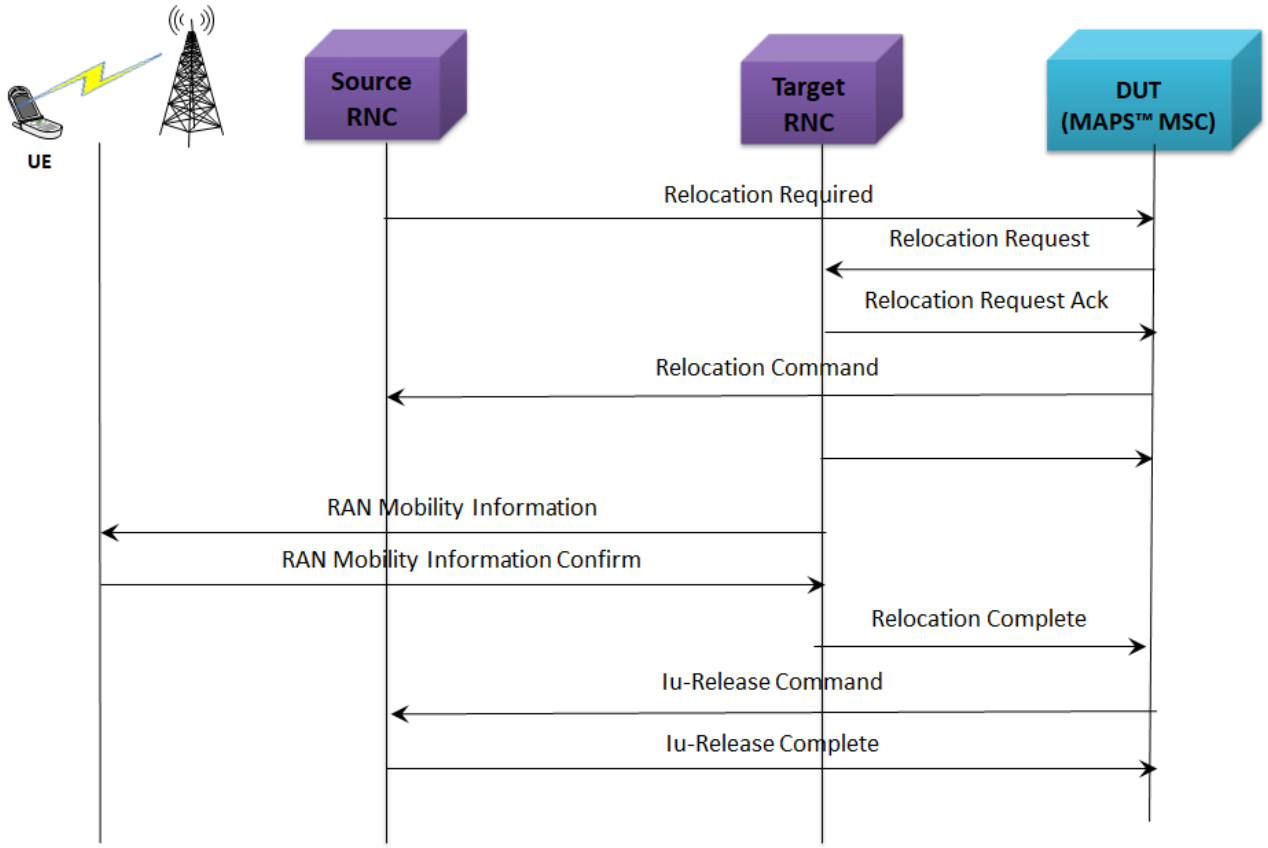
Relocation Call Procedure in UMTS Network

The following figure illustrates the Re-location updating call flow between MAPS™- IuCS and DUT.

- When target RNC receives the IU-RELOCATION-REQUEST message, it takes the necessary action to establish the new Iu transport bearers for each Radio Access Bearer related to 3G_MSC for the UE
- Once target RNC completes resource allocation, it returns an IU-RELOCATION-REQUEST-ACKNOWLEDGE to 3G_MSC.
- An IU-RELOCATION-COMMAND message is sent to source RNC. Then, source RNC contexts are sent to target RNC for each concerned Radio Access Bearer.
- After source RNC receives the IU-Release-COMMAND message, Source RNC will release Iu connection.
- Target RNC now mirror the source RNC state exactly and the Call will be in active state.



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