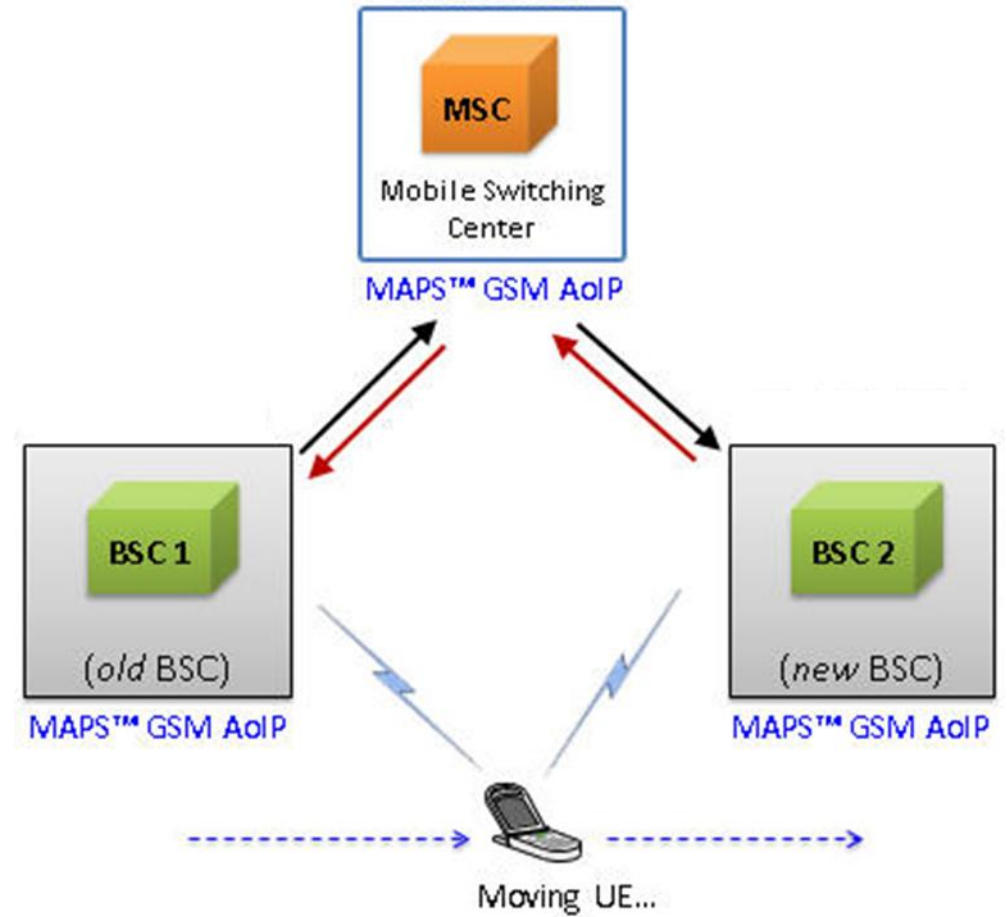


Intra Handover Procedure in GSM Network

- ❖ The scenario is as depicted in the figure below. Here we demonstrate Handover management procedure when the user is travelling across two different cell coverage. The Handover procedure from old BSC to new BSC via MSC can be simulated using MAPS™ GSMA over IP.



Handover Management Procedure in GSM Network

During Handover management procedure, when a mobile user travels from one area of coverage to another within a call's duration, the call is transferred to the new cell's base station.

- ❖ Mobile continuously transmits measurement reports (signal strength, distance, traffic volume)
- ❖ BSS decides when to perform handover and request handover from the MSC
- ❖ MSC causes the new BSS to prepare a channel for the handover, and frees handover to the mobile as soon as this channel is acknowledged
- ❖ Mobile station accesses new BSS and receives information about the new air interface (timing advance value, transmitter power level)
- ❖ Once the mobile can occupy the new channel, resources of the old BSS are released

