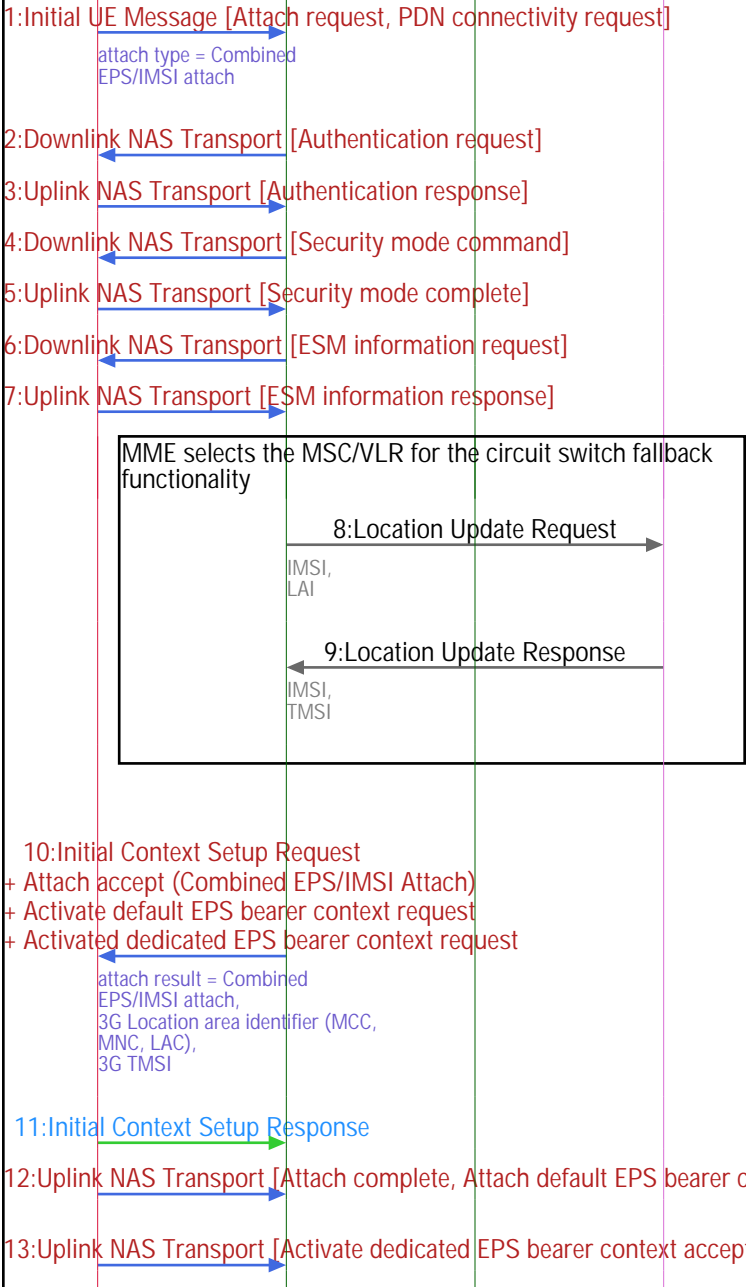


UE attached to a 4G LTE network and establishes a default bearer



The UE registers with the network with an attach type of Combined EPS/IMSI attach. This signals to the network that the UE supports circuit switched fallback (CSFB).

MME authenticates the UE.

UE responds to the authentication request.

MME establishes NAS security.

Exchange additional parameters as security has been established.

Update the UE location in the 3G network

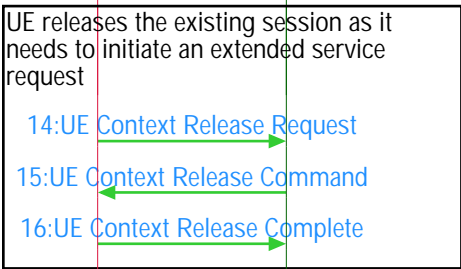
MSC acknowledges the location update.

The attach is successfully completed. The network signals to the UE that it has performed a Combined EPS/IMSI attach. The UE is attached to LTE for data and a 3G network for voice. The message also signals the Location Area Identifier and TMSI in the 3G circuit switched network. The network has also triggered the setup a default bearer and a dedicated bearer.

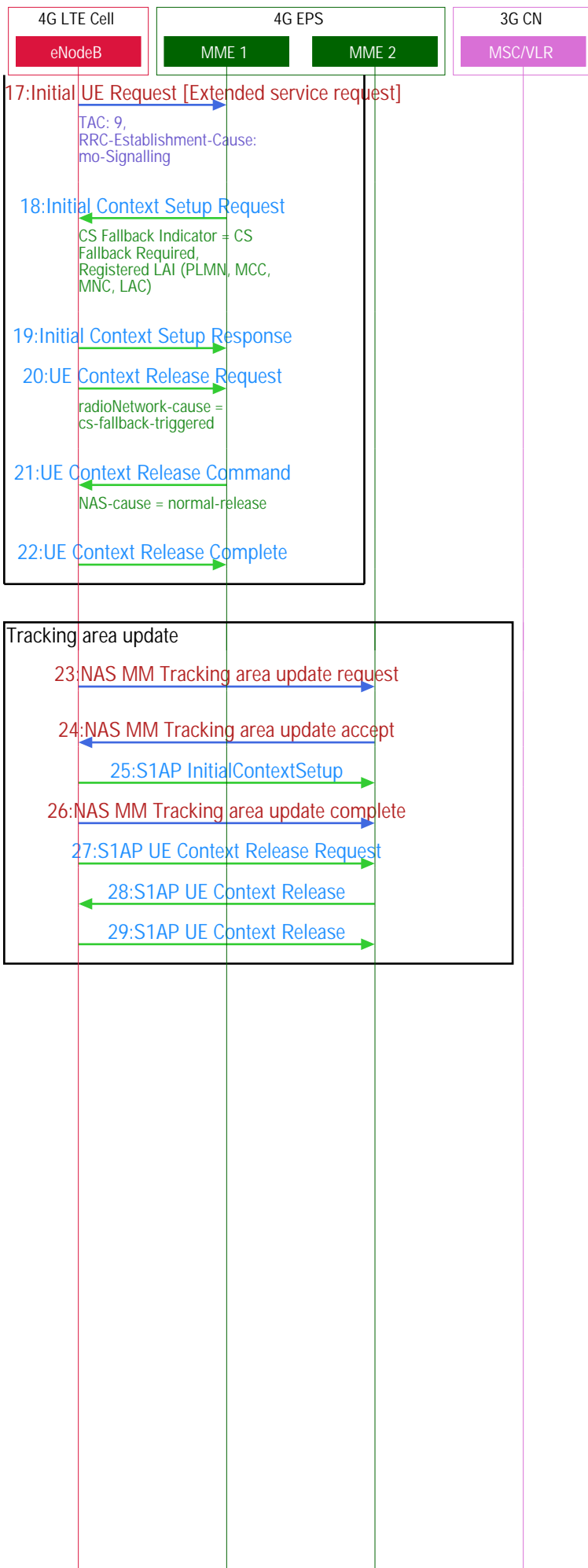
eNodeB responds to the Initial context setup.

UE responds back with attach accept and default bearer establishment accept.

The dedicated bearer has also been setup at the UE.



UE initiates an Extended service request to signal to the 4G network that the UE is invoking the CSFB procedure



Signal to the 4G network that the UE wishes to fall back for a circuit switched call

The MME signals to the UE that CS fall back is required. The message also notifies the UE about the 3G location area that needs to be used in 3G access for the voice call.

Release the 4G LTE session has the UE is going to transition to a 3G UMTS network.

UE initiates a tracking area update after moving back to the 4G network.