

AVR =  $AV$  request has arrived at HN

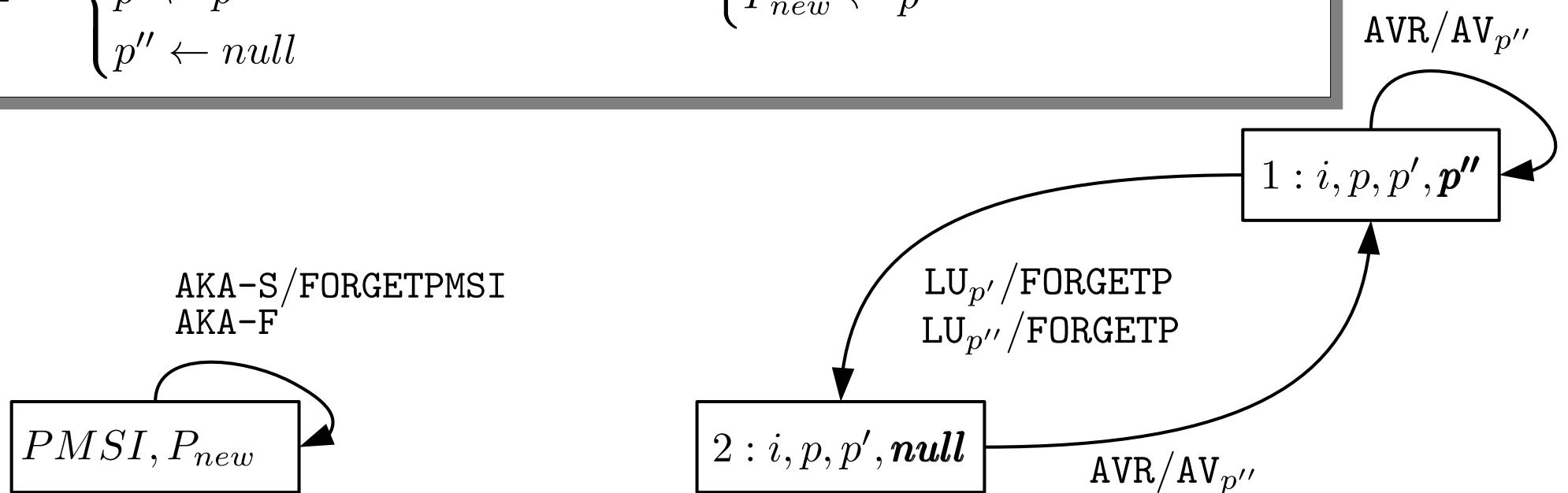
$AV_x$  = HN has sent an  $AV$  to the SN with  $x$  in  $RAND$

$LU_x$  = Location update for  $x$  has arrived at HN

AKA-S, AKA-F = AKA has been successful or failed respectively at UE

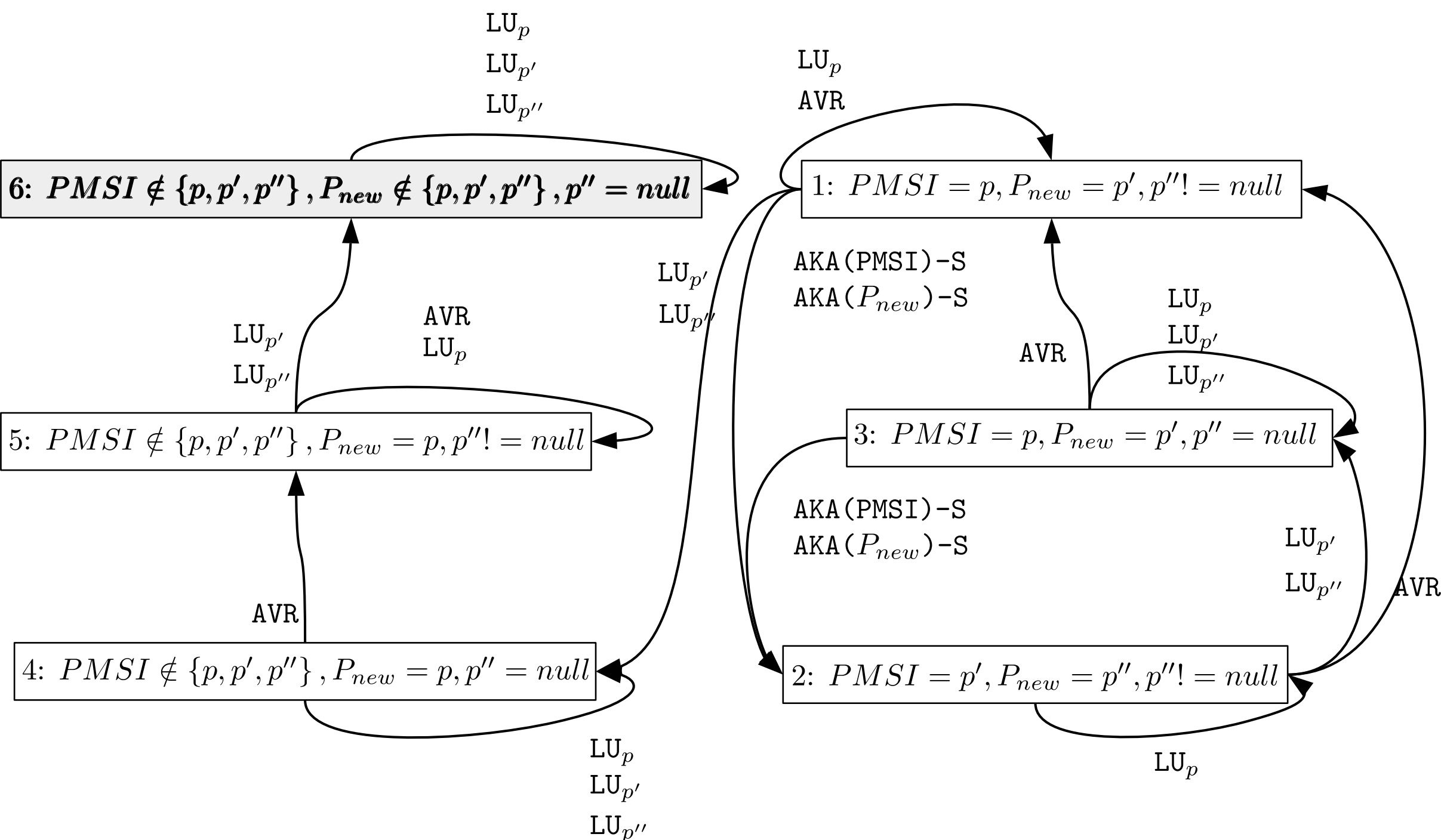
AKA( $x$ )-S = UE was identified with  $x$  and the AKA was successful

$$\text{FORGETP} = \begin{cases} p \leftarrow p' \\ p' \leftarrow p'' \\ p'' \leftarrow \text{null} \end{cases} \quad \text{FORGETPMSI} = \begin{cases} PMSI \leftarrow P_{new} \\ P_{new} \leftarrow p'' \end{cases}$$



The single state in a UE

States in the HN



States of the solution. Only a partial representation