$$S = \{s = \langle i, \mathcal{K}, SQN, \kappa, p, p' \rangle | \forall i \in I\}$$

UE	FUE	SN	HN

$PMSI, P_{new}$

$i, \mathcal{K}, SQN, \kappa, p, p' \leftarrow s \in S$ where
$\mathrm{s}_p = PMSI, \mathrm{s}_{p'} = P_{new}$

Attach Request (q_1) → AV Request (q_1) →

if $\mathrm{q}_1 = s_{p'}$ then
  update $\mathrm{s}_p \leftarrow s_{p'}$
  update $\mathrm{s}_{p'} \leftarrow \{0, 1\}^{34} \notin \{s_p, s_{p'} | \forall s \in S\}$

$\mathrm{s}_p = P_{new}$
$\mathrm{s}_{p'} \neq P_{new}, PMSI$

$PMSI, P_{new}$

Attach Request (q_2) → AV Request (q_2) →

if $\mathrm{q}_2 = s_{p'}$ then
  update $\mathrm{s}_p \leftarrow s_{p'}$
  update $\mathrm{s}_{p'} \leftarrow \{0, 1\}^{34} \notin \{s_p, s_{p'} | \forall s \in S\}$

$\mathrm{s}_p \neq PMSI, P_{new}$
$\mathrm{s}_{p'} \neq PMSI, P_{new}$

$PMSI, P_{new}$