ma-knows-knows[11,40]

$\forall poss$:(ES$\{$i$\}\rightarrow \mathbb{P}\{i'\}$), T:Type$\{i\}$, s:T, i:Id, P:(possible-event$\{$i:l$\}(poss)\rightarrow \mathbb{P}\{i'\}$),
  R:(possible-event$\{$i:l$\}(poss)\rightarrow$possible-event$\{$i:l$\}(poss)\rightarrow \mathbb{P}\{i'\}$), Rs:($T\rightarrow T\rightarrow \mathbb{P}\{i'\}$).
Trans(possible-event$\{$i:l$\}$
                    $(poss)$;1,2.$R(1,2)$)
$\Rightarrow$ ma-knows$\{$i:l$\}$
               $(poss;\ i;\ T;\ s;\ P;\ Rs;\ R)$
$\Rightarrow$ ma-knows$\{$i:l$\}$
               $(poss;\ i;\ T;\ s;\ (\lambda e.\text{es-knows}\{$i:l$\}(poss;\ R;\ P;\ e));\ Rs;\ R)$