

ma-knows-trans^{11,40}

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