

ma-knows-valid^{11,40}

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