

es-sends1^{11,40}

$$\begin{aligned}
& \forall es:ES, e:E, l:IdLnk, tg:Id, T:Type, v:T. \\
& (\{m:Msg \mid source(mlnk(m)) = source(l) \in Id\} \\
& \quad \subseteq_r Msg(\lambda l', tg'. \text{ if } l' = l \wedge_b tg' = tg \text{ then } T \text{ else Top fi })) \\
& \Rightarrow (sends(l;e) \\
& \quad = \\
& \quad [msg(l;tg;v)] \\
& \quad \in (Msg(\lambda l', tg'. \text{ if } l' = l \wedge_b tg' = tg \text{ then } T \text{ else Top fi }) List)) \\
& \Rightarrow (\exists e':E \\
& \quad (((kind(e') = rcv(l,tg) \in Knd) \wedge c \wedge (val(e') = v \ \& \ sender(e') = e)) \\
& \quad \ \& \ (\forall e'':E. (kind(e'') = rcv(l,tg) \in Knd) \Rightarrow (sender(e'') = e) \Rightarrow (e'' = e'))))
\end{aligned}$$