

receives_wf^{11,40}

$$\begin{aligned} & \forall E, X_1, X_2: \text{Type}, dE: \text{EqDecider}(E), dL: \text{EqDecider}(\text{IdLnk}), pred?: (E \rightarrow (?E)), \\ & info: (E \rightarrow ((: \text{Id} \times X_1) + (: (\text{IdLnk} \times E) \times X_2))), \\ & p: (\forall e: E, l: \text{IdLnk}. \\ & \quad \exists e': E \\ & \quad (\forall e'': E. \\ & \quad (\uparrow \text{rcv?}(e'')) \\ & \quad \Rightarrow (\text{sender}(e'') = e) \\ & \quad \Rightarrow (\text{link}(e'') = l) \\ & \quad \Rightarrow (((e'' = e') \vee e'' < e') \wedge (\text{loc}(e') = \text{destination}(l) \in \text{Id}))), \\ & e: E, l: \text{IdLnk}. \\ & \text{SWellFounded}((\neg(\uparrow \text{first}(y))) \text{ c} \wedge (x = \text{pred}(y) \in E)) \\ & \Rightarrow (\text{receives}(dE; dL; pred?; info; p; e; l) \\ & \quad \in (\{r: E \mid \uparrow \text{rcv-from-on}(dE; dL; info; e; l; r)\} \text{ List})) \end{aligned}$$