

ecl-realizes^{11,40}

$$\begin{aligned} & \forall i:\text{Id}, ds:\text{fpf}(\text{Id}; x.\text{Type}), da:\text{fpf}(\text{Knd}; k.\text{Type}), A:\text{ecl}(ds; da), snd:\text{msg-spec}(ds; da), \\ & \quad upd:\text{update-spec}(ds; da). \\ & \text{normal-ds}\{i:l\} \\ & \quad (ds) \\ \Rightarrow & \text{normal-da}\{i:l\} \\ & \quad (da) \\ \Rightarrow & \text{L.all}(\text{ecl-kinds}(A); \\ & \quad \text{Knd}; \\ & \quad k.(((\uparrow\text{isrcv}(k)) \Rightarrow (i = \text{destination}(\text{lnk}(k)) \in \text{Id})) \wedge (\uparrow\text{fpf-dom}(\text{Kind-deq}; k; da)))) \\ & \quad) \\ \Rightarrow & \text{update-spec-decl}(upd; ds) \\ \Rightarrow & \text{msg-spec-loc-decl}(snd; i; da) \\ \Rightarrow & (\neg(\uparrow\text{fpf-dom}(\text{id-deq}; \text{mkid}\{\text{ecl:ut2}\}; ds))) \\ \Rightarrow & \text{R-realizes}\{i:l\} \\ & \quad (\text{ecl-machine}\{\text{ecl:ut2}\} \\ & \quad \quad (i; ds; da; A; snd; upd); \\ & \quad es.\text{ecl-mng}\{i:l\} \\ & \quad \quad (es; i; ds; da; A; snd; upd)) \end{aligned}$$