

cr-explanation-connected^{13,45}

$$\begin{aligned} & \forall es:ES, Cmd:Type, In:AbsInterface(Cmd), Sys:AbsInterface(Top). \\ & (E(In) \subseteq_r E(Sys)) \\ & \Rightarrow (\forall f:\text{sys-antecedent}(es;Sys). \\ & \quad (\forall u:E(Sys). (f(u) = u \in E) \Rightarrow (\uparrow(u \in_b In))) \\ & \Rightarrow (\forall e, a:E(Sys). \\ & \quad a \text{ is } f^*(e) \\ & \Rightarrow (\text{cr-explanation}\{i:l\} \\ & \quad \quad (es; Sys; f; a) \\ & \quad = \\ & \quad \text{cr-explanation}\{i:l\} \\ & \quad \quad (es; Sys; f; e) \\ & \quad \in (E(In) \text{ List}))) \end{aligned}$$