

nonempty-es-interface-history^{11,40}

$\forall es:ES, A:Type, X:AbsInterface(A\ List), e:E.$
 $(0 < \|es\text{-interface-history}(es;X;e)\|)$
 $\iff (\exists e':E. ((\uparrow(e' \in_b X)) \ \& \ e' \leq_{loc} e \ \& \ (0 < \|X(e')\|)))$