chain-order-in-out[13,45]

$\forall es$:ES, Cmd:Type, In:AbsInterface(Cmd), $isupdate$:($Cmd \rightarrow \mathbb{B}$), Sys, Out:AbsInterface(Top).
(E(In) $\subseteq$r E(Sys))
$\Rightarrow$ (E(Out) $\subseteq$r E(Sys))
$\Rightarrow$ ($\forall f$:sys-antecedent(es;Sys), $chain$:(E(Sys)$\rightarrow$(Id List)).
chain-consistent(f;$chain$)
$\Rightarrow$ ($\forall e$:E(In), e':E(Out). ($\uparrow$($isupdate$(In(e)))) $\Rightarrow$ loc(e) <<= loc(e')))

http://www.nuprl.org/FDLcontent/p0_963683_/p28_554547_{chain-order-in-out}.html