— Module CRDTInterface -

EXTENDS Naturals
CONSTANTS Replica

 $Aid \triangleq [r : Replica, seq : Nat]$ action id

VARIABLES seq seq[r]: local sequence number for actions at replica $r \in Replica$ incremented upon each action (IntDo, IntSend, and IntDeliver)

 $IntTypeOK \stackrel{\triangle}{=} seq \in [Replica \rightarrow Nat]$

 $IntInit \triangleq seq = [r \in Replica \mapsto 0]$

 $IntDo(r) \stackrel{\triangle}{=} seq' = [seq \text{ except } ![r] = @+1]$

 $IntSend(r) \triangleq seq' = [seq \text{ except } ![r] = @ + 1]$

 $IntDeliver(r) \stackrel{\Delta}{=} UNCHANGED \langle seq \rangle$

 $[\]backslash * \ {\bf Modification} \ {\bf History}$

^{*} Last modified Mon Jun 17 15:02:27 CST 2019 by xhdn

^{*} Created Mon Jun 17 14:58:23 CST 2019 by xhdn