─────── MODULE *ReliableNetwork* ───────

EXTENDS *BasicNetwork*, *Message*

$Rvars \triangleq \langle incoming, lmsg, dmsg \rangle$

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$RInit \triangleq \land NInit$
$\qquad\qquad \land MInit$

$RBroadcast(r, m) \triangleq \land NBroadcast(r, m)$
$\qquad\qquad\qquad\qquad \land MBroadcast$

$RDeliver(r) \triangleq$
$\quad \land incoming[r] \neq EmptyBag$
$\quad \land \exists m \in BagToSet(incoming[r]):$
$\qquad \land \neg IfDeliverMsg(m, r)$
$\qquad \land lmsg' = m$
$\qquad \land MDeliver(r, m)$
$\quad \land$ UNCHANGED $\langle incoming \rangle$

$RDo \triangleq$ UNCHANGED $Rvars$

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