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|----- MODULE App -----|

EXTENDS RIC, NB

| The domain of all apps and their nodes
CONSTANT App

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InitAppVars  $\triangleq$  TRUE

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AppNodeSendSubscribeRequest(n, c)  $\triangleq$ 
   $\wedge$  NBSend(c, [type  $\mapsto$  SubscribeRequest])
   $\wedge$  UNCHANGED  $\langle \rangle$ 

AppNodeHandleSubscribeResponse(a, n, c, m)  $\triangleq$ 
   $\wedge$  NBReceive(c)
   $\wedge$  UNCHANGED  $\langle \rangle$ 

AppNodeHandleMessage(c)  $\triangleq$ 
   $\wedge$  Len(nbConn[c].messages) > 0
   $\wedge$  LET m  $\triangleq$  nbConn[c].messages[1] IN
     $\wedge$   $\vee$   $\wedge$  m.type = SubscribeResponse
     $\wedge$  AppNodeHandleSubscribeResponse(nbConn[c].app, nbConn[c].appnode, c, m)
   $\wedge$  UNCHANGED  $\langle \rangle$ 

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AppNext  $\triangleq$ 
   $\vee \exists a \in \text{DOMAIN } App :$ 
     $\exists n \in App[a], r \in RICNode :$ 
      NBConnect(a, n, r)
   $\vee \exists c \in \text{DOMAIN } nbConn :$ 
    AppNodeHandleMessage(c)

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\ * Modification History
\ * Last modified Tue Aug 03 18:54:45 PDT 2021 by jordanhalterman
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