```
- MODULE xApp -
EXTENDS E2T
LOCAL INSTANCE Naturals
LOCAL INSTANCE Sequences
CONSTANT AppNode
AppSendSubscribeRequest(c) \triangleq
     \land \ E2\,TNB\,!\,Send(c,\,[type \mapsto SubscribeRequest])
     \land UNCHANGED \langle \rangle
AppHandleSubscribeResponse(c, m) \stackrel{\Delta}{=}
     \land E2TNB!Receive(c)
     \land UNCHANGED \langle \rangle
AppSendUnsubscribeRequest(c) \stackrel{\Delta}{=}
     \land E2TNB!Send(c, [type \mapsto UnsubscribeRequest])
     \land UNCHANGED \langle \rangle
AppHandleUnsubscribeResponse(c, m) \stackrel{\Delta}{=}
     \wedge E2TNB!Receive(c)
     \land UNCHANGED \langle \rangle
AppHandleMessage(c, m) \stackrel{\Delta}{=}
   \land \lor \land m.type = SubscribeResponse
          \land AppHandleSubscribeResponse(c, m)
       \lor \land m.type = UnsubscribeResponse
          \land AppHandleUnsubscribeResponse(c, m)
   \land UNCHANGED \langle \rangle
AppInit \stackrel{\triangle}{=} TRUE
AppNext \triangleq
     \forall \exists s \in AppNode, d \in E2TNode : E2TNB! Connect(s, d)
     \vee \exists c \in E2TNB! Connections : E2TNB! Handle(c, AppHandleMessage)
\ * Modification History
\* Last modified Tue Aug 10 06:36:57 PDT 2021 by jordanhalterman
\* Created Tue Aug 10 04:55:35 PDT 2021 by jordanhalterman
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