```
------ module xApp -
EXTENDS API
LOCAL INSTANCE Naturals
LOCAL INSTANCE Sequences
LOCAL INSTANCE FiniteSets
Constant App
Assume App \in \text{string}
CONSTANT Nodes
ASSUME \land IsFiniteSet(Nodes)
         \land \forall n \in Nodes : n \in STRING
                        MODULE Store —
   Init \stackrel{\triangle}{=} TRUE
   Next \triangleq FALSE
LOCAL Store \triangleq INSTANCE Store
                                   \longrightarrow module SB \longrightarrow
   SendSubscribeRequest(c) \triangleq
      \land API!E2T!Client!Send!SubscribeRequest(c, [foo \mapsto "bar"])
   HandleSubscribeResponse(c, m) \triangleq
      \land UNCHANGED \langle \rangle
   SendUnsubscribeRequest(c) \triangleq
      \land API!E2T!Client!Send!UnsubscribeRequest(c, [foo \mapsto "bar"])
   HandleUnsubscribeResponse(c, m) \triangleq
      \land UNCHANGED \langle \rangle
   Init \triangleq
      \land TRUE
   Next \stackrel{\triangle}{=}
      \forall \exists n \in Nodes, s \in API!E2T!Servers : API!E2T!Client!Connect(n, s)
      \vee \exists c \in API!E2T!Connections: API!E2T!Client!Disconnect(c)
      \vee \exists c \in API!E2T!Connections:
           \vee SendSubscribeRequest(c)
```

* Modification History

 $\lor SB!Next$ $\lor Store!Next$

- * Last modified Fri Aug 13 15:58:57 PDT 2021 by jordanhalterman
- * Created Tue Aug 10 04:55:35 PDT 2021 by jordanhalterman