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| | MODULE <i>xApp</i> | |
| EXTENDS <i>API</i> LOCAL INSTANCE <i>Naturals</i> LOCAL INSTANCE <i>Sequences</i> CONSTANT <i>Nodes</i> | | |
| | MODULE <i>SB</i> | |
| $SendSubscribeRequest(c) \triangleq$ $\quad \wedge API!E2T!Client!Send(c, [type \mapsto API!E2T!Protocol.SubscribeRequest])$ $\quad \wedge \text{UNCHANGED } \langle \rangle$ $HandleSubscribeResponse(c, m) \triangleq$ $\quad \wedge API!E2T!Client!Receive(c)$ $\quad \wedge \text{UNCHANGED } \langle \rangle$ $SendUnsubscribeRequest(c) \triangleq$ $\quad \wedge API!E2T!Client!Send(c, [type \mapsto API!E2T!Protocol.UnsubscribeRequest])$ $\quad \wedge \text{UNCHANGED } \langle \rangle$ $HandleUnsubscribeResponse(c, m) \triangleq$ $\quad \wedge API!E2T!Client!Receive(c)$ $\quad \wedge \text{UNCHANGED } \langle \rangle$ $HandleMessage(c, m) \triangleq$ $\quad \wedge \vee \wedge m.type = API!E2T!Protocol.SubscribeResponse$ $\quad \quad \wedge HandleSubscribeResponse(c, m)$ $\quad \vee \wedge m.type = API!E2T!Protocol.UnsubscribeResponse$ $\quad \quad \wedge HandleUnsubscribeResponse(c, m)$ $\quad \wedge \text{UNCHANGED } \langle \rangle$ $Handle(c) \triangleq API!E2T!Client!Handle(c, HandleMessage)$ $Servers \triangleq API!E2T!Servers$ $Connections \triangleq API!E2T!Connections$ $Connect(s, d) \triangleq API!E2T!Client!Connect(s, d)$ $Init \triangleq \text{TRUE}$ $Next \triangleq$ $\quad \vee \exists s \in Nodes, d \in Servers : Connect(s, d)$ $\quad \vee \exists c \in Connections : Handle(c)$ | | |

LOCAL $SB \triangleq$ INSTANCE SB

$Init \triangleq$
 $\wedge SB!Init$

$Next \triangleq$
 $\vee SB!Next$

\ * Modification History

\ * Last modified *Fri Aug 13 04:57:31 PDT 2021* by *jordanhalterman*

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