—————————————————————— MODULE $E2T$ ——————————————————————

EXTENDS API

LOCAL INSTANCE $Naturals$

LOCAL INSTANCE $Sequences$

LOCAL INSTANCE TLC

CONSTANT $Nodes$

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—————————————————————— MODULE NB ——————————————————————

$HandleSubscribeRequest(c,\ m) \triangleq$
 $\quad \wedge API!E2T!Server!Receive(c)$
 $\quad \wedge API!E2T!Server!Reply(c,\ [type \mapsto API!E2T!Protocol.SubscribeResponse])$
 $\quad \wedge$ UNCHANGED $\langle\rangle$

$HandleUnsubscribeRequest(c,\ m) \triangleq$
 $\quad \wedge API!E2T!Server!Receive(c)$
 $\quad \wedge API!E2T!Server!Reply(c,\ [type \mapsto API!E2T!Protocol.UnsubscribeResponse])$
 $\quad \wedge$ UNCHANGED $\langle\rangle$

$HandleMessage(c,\ m) \triangleq$
 $\quad \wedge \vee \wedge m.type = API!E2T!Protocol.SubscribeRequest$
 $\qquad\quad \wedge HandleSubscribeRequest(c,\ m)$
 $\quad \wedge \vee \wedge m.type = API!E2T!Protocol.UnsubscribeRequest$
 $\qquad\quad \wedge HandleUnsubscribeRequest(c,\ m)$
 $\quad \wedge$ UNCHANGED $\langle\rangle$

$Handle(c) \triangleq API!E2T!Server!Handle(c,\ HandleMessage)$

$Servers \triangleq API!E2T!Servers$

$Connections \triangleq API!E2T!Connections$

$Serve(s) \triangleq API!E2T!Server!Start(s)$

$Stop(s) \triangleq API!E2T!Server!Stop(s)$

$Init \triangleq$ TRUE

$Next \triangleq$
 $\quad \vee \exists s \in Nodes : Serve(s)$
 $\quad \vee \exists s \in Servers : Stop(s)$
 $\quad \vee \exists c \in Connections : Handle(c)$

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LOCAL $NB \triangleq$ INSTANCE NB

───────────── MODULE SB ─────────────

$HandleE2Setup(c, m) \triangleq$
    $\wedge API!E2AP!Server!Receive(c)$
    $\wedge API!E2AP!Server!Reply(c, [type \mapsto API!E2AP!Protocol.E2SetupResponse])$
    $\wedge$ UNCHANGED $\langle\rangle$

$HandleMessage(c, m) \triangleq$
    $\wedge \vee \wedge m.type = API!E2AP!Protocol.E2Setup$
        $\wedge HandleE2Setup(c, m)$
    $\wedge$ UNCHANGED $\langle\rangle$

$Handle(c) \triangleq API!E2AP!Server!Handle(c, HandleMessage)$

$Servers \triangleq API!E2AP!Servers$

$Connections \triangleq API!E2AP!Connections$

$Serve(s) \triangleq API!E2AP!Server!Start(s)$

$Stop(s) \triangleq API!E2AP!Server!Stop(s)$

$Init \triangleq$ TRUE

$Next \triangleq$
    $\vee \exists s \in Nodes : Serve(s)$
    $\vee \exists s \in Servers : Stop(s)$
    $\vee \exists c \in Connections : Handle(c)$

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LOCAL $SB \triangleq$ INSTANCE SB

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

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

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* Modification History
* Last modified *Fri Aug* 13 04:56:41 *PDT* 2021 by *jordanhalterman*
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