―――――――――――――――――― MODULE *Topo* ――――――――――――――――――

The *Topo* module specifies the topology service *API*, state, and controllers.

EXTENDS *Naturals*, *FiniteSets*, *Sequences*, *TLC*

The set of topology nodes
CONSTANT *Nodes*

An empty value
CONSTANT *Nil*

―――

The domain of entities in the toplology
VARIABLE *entities*

The domain of relations in the topology
VARIABLE *relations*

$vars \triangleq \langle entities, relations \rangle$

―――

―――

$Init \triangleq$
$\quad \wedge entities = [e \in \{\} \mapsto [props \mapsto Nil]]$
$\quad \wedge relations = [r \in \{\} \mapsto [props \mapsto Nil]]$

$Next \triangleq$ TRUE

$Spec \triangleq Init \wedge \square[Next]_{vars}$

―――

\ * Modification History
\ * Last modified Sun *Nov* 15 18:17:39 *PST* 2020 by *jordanhalterman*
\ * Created Sun *Nov* 15 10:27:27 *PST* 2020 by *jordanhalterman*