```
- Module Topo -
LOCAL INSTANCE Naturals
LOCAL INSTANCE Sequences
LOCAL INSTANCE TLC
Constant Nil
CONSTANT CreateRequest,
             CreateResponse,
             Update Request,\\
             UpdateResponse,
             DeleteRequest,
             DeleteResponse,
             GetRequest,
             GetResponse,
             ListRequest,
             ListResponse,
             WatchRequest,
             WatchResponse
CONSTANT Kind,
             Entity,
             Relation
Variables topoSbConn
TopoSB \stackrel{\triangle}{=} INSTANCE Messaging WITH Nil \leftarrow "<nil>", <math>conn \leftarrow topoSbConn
TopoHandleCreateRequest(c, m) \triangleq
    \land TopoSB!Receive(c)
    \land UNCHANGED \langle \rangle
TopoHandleUpdateRequest(c, m) \stackrel{\triangle}{=}
    \land TopoSB!Receive(c)
    \land UNCHANGED \langle \rangle
TopoHandleDeleteRequest(c, m) \stackrel{\Delta}{=}
    \land TopoSB!Receive(c)
    \land UNCHANGED \langle \rangle
TopoHandleGetRequest(c, m) \triangleq
    \land TopoSB!Receive(c)
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\land UNCHANGED \langle \rangle
TopoHandleListRequest(c, m) \stackrel{\Delta}{=}
    \land TopoSB!Receive(c)
    \land UNCHANGED \langle \rangle
TopoHandleWatchRequest(c, m) \triangleq
    \land TopoSB!Receive(c)
    \land UNCHANGED \langle \rangle
TopoHandleMessage(c, m) \stackrel{\Delta}{=}
   \land \lor \land m.type = CreateRequest
         \land TopoHandleCreateRequest(c, m)
      \lor \ \land m.type = \mathit{UpdateRequest}
         \land TopoHandleUpdateRequest(c, m)
      \lor \land m.type = DeleteRequest
         \land TopoHandleDeleteRequest(c, m)
      \lor \land m.type = GetRequest
         \land TopoHandleGetRequest(c, m)
      \lor \land m.type = ListRequest
         \land TopoHandleListRequest(c, m)
      \lor \land m.type = WatchRequest
         \land TopoHandleWatchRequest(c, m)
   \land UNCHANGED \langle \rangle
TopoInit \triangleq
   \land TopoSB!Init
TopoNext \triangleq
   \lor \exists c \in TopoSB! Connections : TopoSB! Disconnect(c)
   \vee \exists c \in TopoSB! Connections : TopoSB! Handle(c, TopoHandleMessage)
```

- ***** Modification History
- * Last modified Thu Aug 12 17:19:10 PDT 2021 by jordanhalterman
- * Created Tue Aug 10 04:55:19 PDT 2021 by jordanhalterman