```
— Module Mastership
INSTANCE Naturals
INSTANCE FiniteSets
Instance Sequences
INSTANCE TLC
 An empty constant
Constant Nil
 The set of possible master nodes
CONSTANT Node
 Variables defined by other modules.
VARIABLES
   conns
 A record of target masterships
Variable mastership
TypeOK \triangleq
   \land \ mastership.term \in \mathit{Nat}
   \land \ mastership.master \neq Nil \Rightarrow mastership.master \in Node
   \land mastership.conn \in Nat
LOCAL State \triangleq [
   mastership \mapsto mastership,
   conns
              \mapsto conns
Local Transitions \triangleq
   IF mastership' \neq mastership Then [mastership \mapsto mastership'] else \langle \rangle
Test \stackrel{\triangle}{=} INSTANCE \ Test \ WITH
   File \leftarrow "Mastership.log"
```

This section models mastership for the configuration service.

Mastership is used primarily to track the lifecycle of individual configuration targets and react to state changes on the southbound. Each target is assigned a master from the Node set, and masters can be unset when the target disconnects.

 $\begin{array}{c} ReconcileMastership(n) \stackrel{\triangle}{=} \\ \land \lor \land conns[n].connected \end{array}$