

<p>MODULE <i>Mastership</i></p> <p>INSTANCE <i>Naturals</i></p> <p>INSTANCE <i>FiniteSets</i></p> <p>INSTANCE <i>Sequences</i></p> <p>INSTANCE <i>TLC</i></p>
<p>An empty constant</p> <p>CONSTANT <i>Nil</i></p>
<p>A record of target masterships</p> <p>VARIABLE <i>mastership</i></p>
<p>This section models <i>mastership</i> for the configuration service.</p> <p><i>Mastership</i> 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.</p> <p>Set node n as the master for target t</p> $SetMaster(n) \triangleq$ $\wedge mastership.master \neq n$ $\wedge mastership' = [mastership \text{ EXCEPT } !.term = mastership.term + 1,$ $!.master = n]$ <p>UnsetMaster \triangleq</p> $\wedge mastership.master \neq Nil$ $\wedge mastership' = [mastership \text{ EXCEPT } !.master = Nil]$