

<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 <math>n</math> as the master for target <math>t</math></p> $\text{SetMaster}(n, t) \triangleq$ $\wedge \text{mastership}[t].\text{master} \neq n$ $\wedge \text{mastership}' = [\text{mastership} \text{ EXCEPT } ![t].\text{term} = \text{mastership}[t].\text{term} + 1,$ $![t].\text{master} = n]$ <p>UnsetMaster(<math>t</math>) <math>\triangleq</math></p> $\wedge \text{mastership}[t].\text{master} \neq \text{Nil}$ $\wedge \text{mastership}' = [\text{mastership} \text{ EXCEPT } ![t].\text{master} = \text{Nil}]$