

<div style="text-align: center; border-bottom: 1px solid black; margin-bottom: 10px;"> MODULE <i>NetworkInterface</i> </div> <div> EXTENDS <i>Naturals, FiniteSets, Message</i> CONSTANT <i>NetworkCapacity</i> VARIABLES <i>n</i> </div>
<div> $NetworkSpace \triangleq [messages : MessageSpace]$ $Capacity(net) \triangleq Cardinality(net)$ $IsNetwork(net) \triangleq net \in NetworkSpace \wedge Capacity(net) \leq NetworkCapacity$ </div>
<div> $Init(net) \triangleq IsNetwork(net) \wedge Capacity(net) = 0$ $Send(net, msg) \triangleq (\wedge IsNetwork(net)$ <div style="margin-left: 40px;"> $\wedge net.messages' = net.messages \cup msg$ $\wedge IsNetwork(net')$ </div> $) \vee UNCHANGED \ net$ </div>