

```

|----- MODULE Message -----|
| EXTENDS Naturals |
|-----|
| VARIABLES |
|   messageset |
|-----|
| CONSTANTS |
|   Replica |
|-----|
| Msgid(m)  $\triangleq$  [r  $\mapsto$  m.r, seq  $\mapsto$  m.seq] |
|-----|
| IfDeliverMsg(m, r)  $\triangleq$  Msgid(m)  $\in$  messageset[r] |
|-----|
| Minit  $\triangleq$  |
|   messageset = [r  $\in$  Replica  $\mapsto$  {}] |
|-----|
| MBroadcast  $\triangleq$  UNCHANGED  $\langle$ messageset $\rangle$  |
|-----|
| MDeliver(r, m)  $\triangleq$  |
|   messageset' = [messageset EXCEPT ![r] = @  $\cup$  {Msgid(m)}] |
|-----|
|
| \ * Modification History
| \ * Last modified Mon May 06 15:29:41 CST 2019 by jjwellin
| \ * Last modified Sun Apr 21 18:45:44 CST 2019 by xhdn
| \ * Created Sat Apr 20 22:31:38 CST 2019 by xhdn

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