EXTENDS *skeen*

$TypeOK \triangleq$
    $\land clock \in [Proc \to Time \cup \{TimeNull\}]$
    $\land localTS \in [Proc \to [McastID \to TimestampSet]]$
    $\land globalTS \in [Proc \to [McastID \to TimestampSet]]$
    $\land phase \in [Proc \to [McastID \to \{Start, Proposed, Committed\}]]$
    $\land rcvdMcastID \in [Proc \to \text{SUBSET } McastID]$
    $\land mcastedID \in \text{SUBSET } McastID$
    $\land inTransit \in [Proc \to [Proc \to \text{SUBSET } InTransitMsgSet]]$
    $\land delivered \in [Proc \to [McastID \to \text{BOOLEAN }]]$
    $\land proposeTS \in [Proc \to [McastID \to \text{SUBSET } ProposeMsgSet]]$
    $\land dCntr \in [Proc \to [McastID \to \{0, 1\}]]$

$Integrity \triangleq$
  $\forall id \in McastID : \forall p \in Proc :$
    $\land delivered[p][id] \equiv dCntr[p][id] = 1$
    $\land \neg delivered[p][id] \equiv dCntr[p][id] = 0$

$IndInv \triangleq$
    $\land TypeOK$
    $\land Integrity$

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