─────────────── MODULE $OpSEC$ ───────────────

EXTENDS SEC

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VARIABLES $buset$ $buset[r]$: buffer of local updates since the last broadcast at $r \in Replica$

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$OpSECInit \triangleq$
$\quad \wedge SECInit$
$\quad \wedge buset = [r \in Replica \mapsto \{\}]$

$OpSECDo(r) \triangleq$
$\quad \wedge SECDo(r)$
$\quad \wedge buset' = [buset \text{ EXCEPT } ![r] = @ \cup \{[r \mapsto r,\ seq \mapsto seq[r]]\}]$ collect a new update

$OpSECSend(r) \triangleq$
$\quad \wedge SECSend(r)$
$\quad \wedge uincoming' = [x \in Replica \mapsto$ broadcast $buset[r]$
$\qquad\qquad \text{IF } x = r \text{ THEN } uincoming[x]$
$\qquad\qquad\qquad \text{ELSE } uincoming[x] \cup \{[aid \mapsto [r \mapsto r,\ seq \mapsto seq[r]],\ update \mapsto buset[r]]\}]$
$\quad \wedge buset' = [buset \text{ EXCEPT } ![r] = \{\}]$ clear $buset[r]$

$OpSECDeliver(r,\ aid) \triangleq$
$\quad \wedge SECDeliver(r,\ aid)$
$\quad \wedge \text{UNCHANGED } \langle buset \rangle$

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