

① Sender

Sender Window Size

\leq Receiver advertised window size - [Last Byte sent -
Last Byte Acked]

In-Flight Bytes

The set of Bytes that have been transmitted but not yet acknowledged.

TCPCC

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Tahoe

Rero

treats Tiwo-out
Mechanism & 3-deg
ACKS Same way.
Heats
distinguish
between

Mechanisms

```

graph TD
    A[3-phases.] --- B[Slow Start]
    A --- C[Congestion Avoidance]
    A --- D[Congestion Control]
    C --- E[Congestion Control]
    
```

Slow start (SS)

Set $w_c = 1$ MSS \leftarrow maximum segment size.

upon receiving an ACK, the
Sender increments his window

$$w_c \leftarrow w_c + 1$$

for each
degree of
Access.

3

Back to SS

- * what is thought at
end of 1st RTT.

$$\text{answering} = \frac{\text{IMSS}}{\text{IRTT}}$$

- * what is the value of $\frac{2^{nd} RTT}{2 RTT}$ = MISS

3rd RTT?

7MSS
3RTT

$$\frac{\text{4th RTT?}}{4RTT} = \frac{15MSS}{1MSS}$$

$SS_{threshold} = 8$ ~~assume since eq.~~ (4)

$SS_{threshold}$ = The value of WC

upon reaching it, the sender

enters the SS-phase & enters
the congestion avoidance
phase.

is CA phase.

$$WC \leftarrow WC + \frac{1}{\uparrow}$$

forever RTT.

or equivalently,

$$WC \leftarrow WC + \frac{1}{WC}$$

in

for every segment
Acked.

