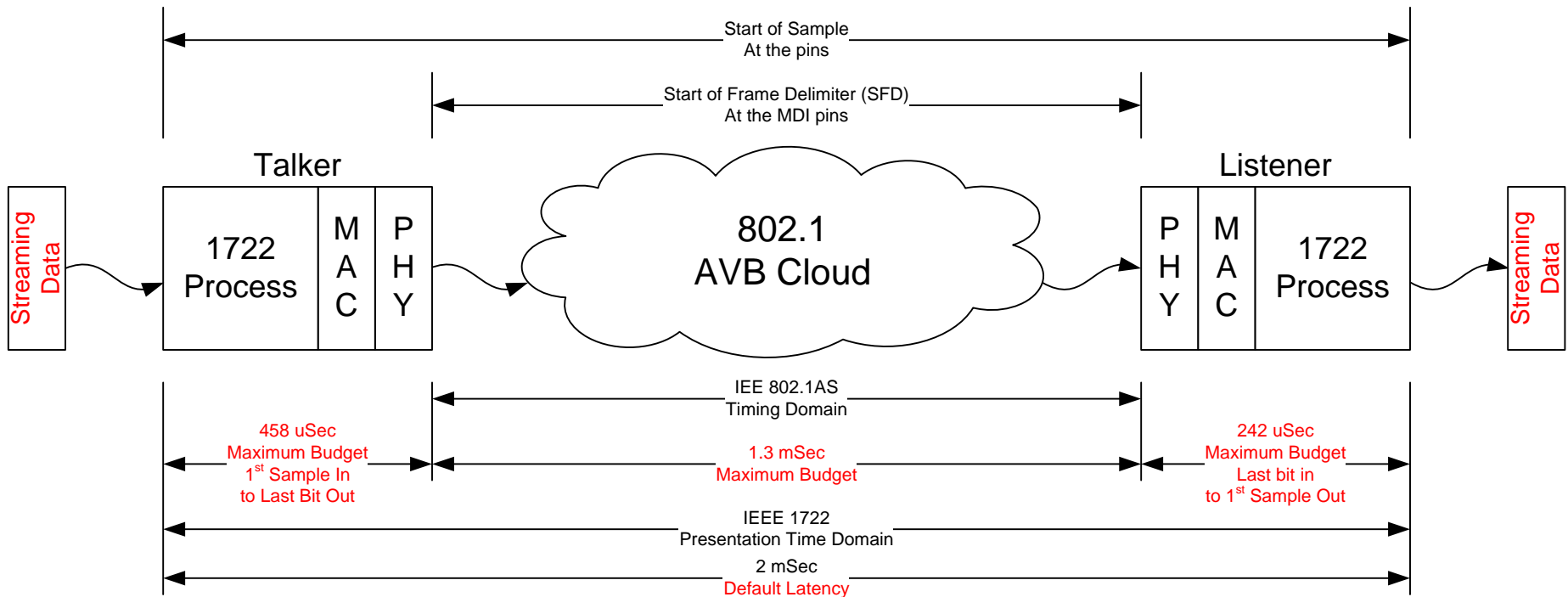


AVB Class A Worst Case Assumptions

Fast Ethernet (100 Mb/sec) w/out MACSec or other Headers



AVB Cloud:

$(\text{Max Frame} + \text{IPG} + \text{PRE}) * 75\% =$

$(1522 + 12 + 8) * 75\% = 1156$ Max Class A AVB frame(s) including their IPG & PRE

$6 [\text{bridges} = 7 \text{ hops}] * (1156 + 1542 [1522 \text{ frame} + \text{IPG} + \text{PRE}]) = 16,188 \text{ octets @ FE} = * 80\text{ns/octet} = 1.295 \text{ mSec}$

Talker's Tx Queue:

$1 * (1156 + 1542) = 2698 \text{ octets @ FE} = * 80\text{ns/octet} = 216 \text{ uSec}$

1722 Process Time:

$2.0 \text{ mSec} [\text{budget}] - 1.3 \text{ mSec} [\text{AVB Cloud allocation}] = 0.7 \text{ mSec} [\text{initial remaining}]$

$700 \text{ uSec} [\text{initial remaining}] - 216 \text{ uSec} [\text{Talker's Tx Queue}] = 484 \text{ uSec} [\text{final remaining}]$

$484 \text{ uSec} [\text{final remaining}] \text{ divide by } 2 = 242 \text{ uSec for Listener and Talker's 1722 Process Times}$

Talker's time includes its Tx Queue time