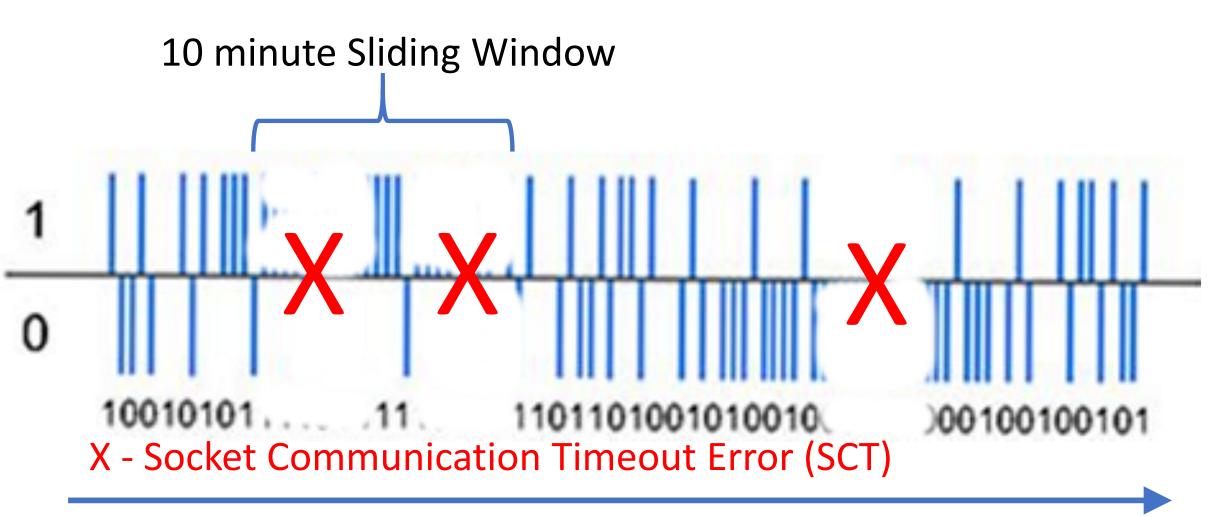
Unavoidable Data Loss

- Communication path breakdown
 - >RF Signal fade
 - > Local Area Network
 - > World Wide Web
 - > Server

Determination of data loss

- WIRES-X logs data events as a text file
 - ➤ Socket Communication Timeout (SCT)
- Measure number of SCTs as of the start of the WIRES-X session
- Measure the error rate of SCTs occurring within a 10 minute (error rate) sliding window

Determination of data loss

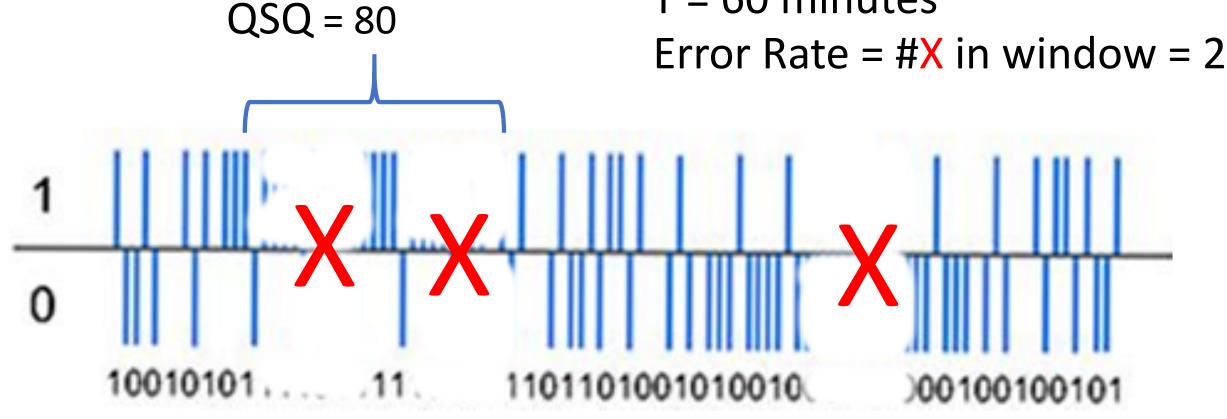


Quality of Service Quotient

QSQ = 100 - (#X/T + Error Rate*10)

Where: #X = 3

T = 60 minutes



Interpretation of QSQ

- QSQ is announced as part of the repeater ID when the QSQ us low and the node is connected to a room
- High values of QSQ means relatively low number of SCTs
- Low values of QSQ means a relatively highr number of SCTs with a high rate of occurrences
- A QSQ of less than 70 indicates a poor connection with a high number of communication breakdowns.