



Troubleshooting Buffer Issues

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» **What is a buffer issue?**

» **What is TCP Window?**

- Allows traffic to conform to a size allocation
- Smaller for older systems using old stack
- Larger for newer applications/systems

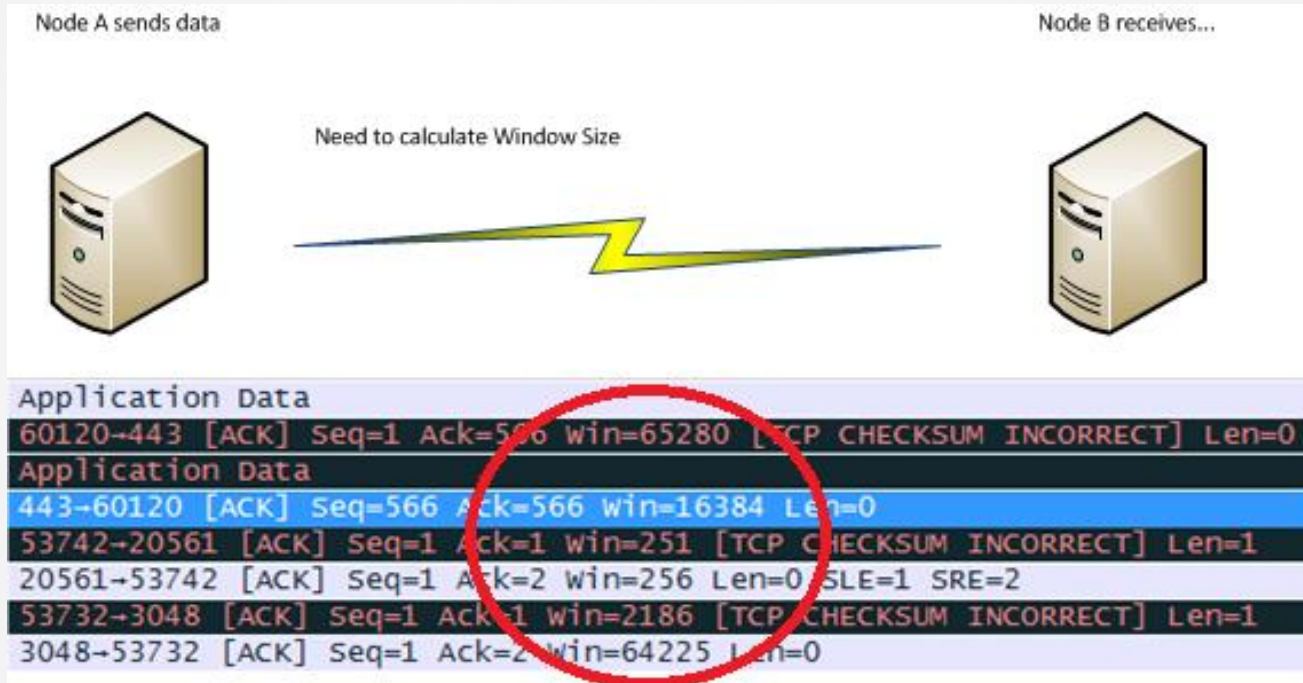
» **Conditions**

- Zero Window
- TCP Window Update

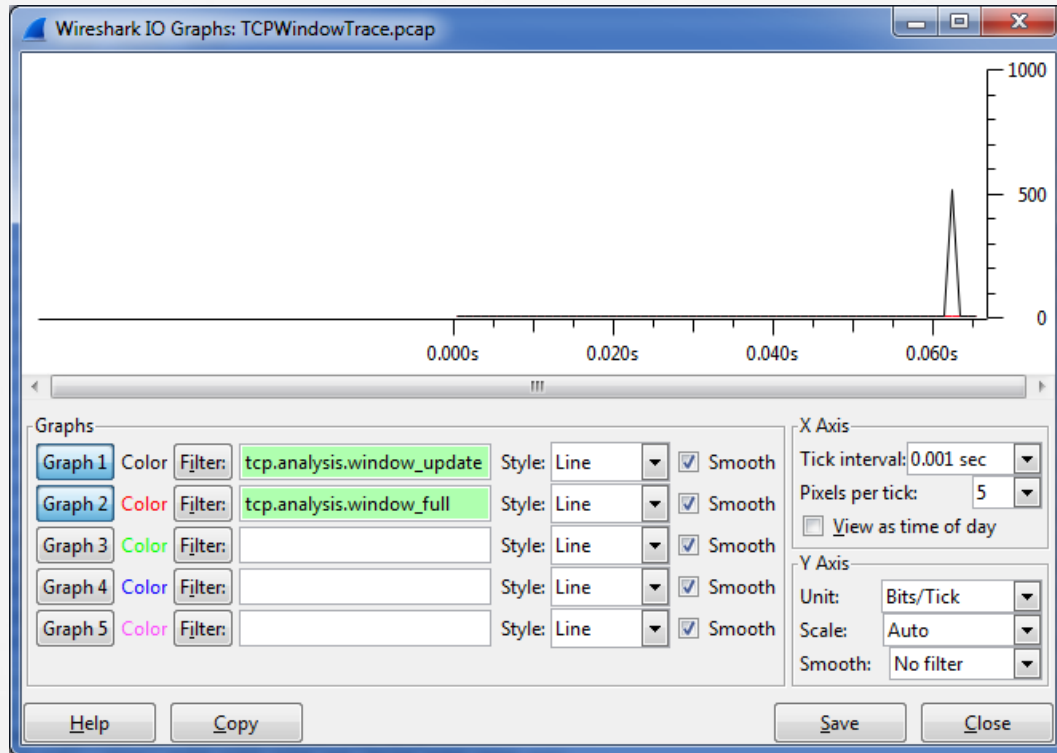
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```
[-] Transmission Control Protocol, Src Port: 722 (722), Dst Port: 13782 (13782), Seq: 1, Ack: 326221, Len: 0
    Source Port: 722 (722)
    Destination Port: 13782 (13782)
    [Stream index: 0]
    [TCP Segment Len: 0]
    Sequence number: 1      (relative sequence number)
    Acknowledgment number: 326221      (relative ack number)
    Header Length: 20 bytes
    [+] .... 0000 0001 0000 = Flags: 0x010 (ACK)
    window size value: 65535
    [Calculated window size: 65535]
    [window size scaling factor: -1 (unknown)]
    [+] Checksum: 0xa5dc [correct]
    Urgent pointer: 0
    [-] [SEQ/ACK analysis]
        [-] [TCP Analysis Flags]
            [-] [Expert Info (Chat/Sequence): TCP window update]
                [TCP window update]
                [Severity level: chat]
                [Group: sequence]
```

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Questions?