**CS610 - Computer Networks**

**Graded Discussion Board**

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**Solution:**

**My choice is:** Changing MTU Size.

According to the given scenario, I selected the “changing MTU size” because IP fragmentation can cause performance issues when fragments are affected by packet loss if MTU size is fixed.

**Maximum Transmission Unit (MTU):**

*“The definition of the maximum size of the frame data area includes in hardware technology specification, is called the Maximum Transmission Unit”.*

**Reason 1:**

We must expand the size of MTU because the use of large MTU allows the OS to send small number of packets in large size to reach the same network. Larger MTU brings greater efficiency because each network packet carries more user data, which allows faster and more efficient transmission.

**Reason 2:**

In fragmentation if one or more fragments of IP datagram are lost, then entire IP datagram is disturbed after timeout period. So, fragmentation in networking lead to bad performance or communication failure.