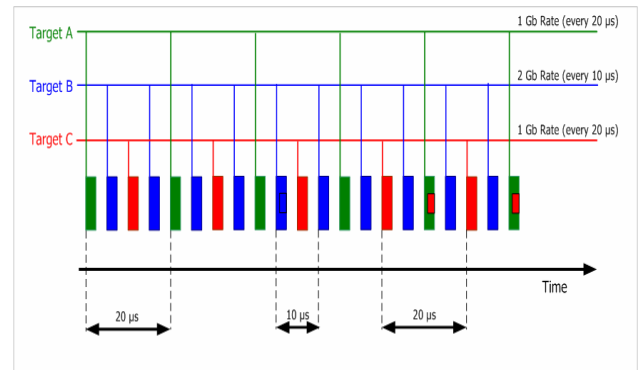




Intelligent Interleaved Direct Memory Access

Industry Challenge

Enterprise SAN infrastructure evolved into a heterogeneous environment with devices running at multiple Fibre Channel speeds as the technology advanced. Now, enterprises face the challenge of maximizing their bandwidth efficiency in a heterogeneous multi speed SAN environment. In a mixed speed environment, the lowest speed can act as the lowest common denominator and neutralize the higher speed's performance. This phenomenon causes significant performance and capital investment loss to enterprises. To maximize link efficiency, enterprises need technology that ensures maximum bandwidth utilization of the SAN infrastructure.



QLogic's iiDMA Solution

QLogic's iiDMA (patent pending) technology transmits at the maximum link speed of the initiator without throttling down to the lowest target speed on the network.

How QLogic's iiDMA Works

QLogic 4Gb FC controllers can detect the maximum link rate (speed) that the target node can support (the node's absorbing capacity). QLogic FC controllers send frames at the rate at which they can be received by the target device (absorbed by them). As shown in the graphic above, unlike the round-robin scheme used by competitors, the QLogic iiDMA transmits more frames to the faster target B (blue) thereby utilizing the entire available bandwidth of the initiator.

User Benefits

- **Higher Performance** by taking advantage of a faster link rate initiator without scaling down to the performance of the slowest target device on the network
- Provides a higher Return On Investment (ROI) in 4Gb, and long-term investment protection for legacy data-center target devices operating at slower speeds (1Gb and 2Gb)