Data Center Requirements

- -Tutorial Planning
- -Conference call will be scheduled
- -Yahoo group that will discuss this: contact manoj.k.wadekar@intel.com

Background: Data Center IO Consolidation

Manoj Wadekar

Applications used in environment

Needs

Size of the DC market

Beyond Storage – HPC, IPC, Clustering, Backplanes

Contributors: Manoj, Mike, Mitch, Head(?), Asif Hazarika

End Users: Quotes, requirements -

Gap Analysis: Data Center IO Consolidation

Anoop Ghanwani

What is available in current Ethernet

What is missing?

What is required?

Contributors: Joe Pelissier, Anoop Ghanwani, Diego, Ravi

Solution Framework: Data Center Bridging

Hugh Barrass (?)

- Define pictorially DCB Cloud and clarify "containment of the deployment
 - "No Drop" CN and PFC
 - Couple of slides with Simulation results and animate (4-5 slides for

PDF)

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- Enhanced Transmission Selection: Priority BW Sharing
 - Need to understand AVB requirements and solutions
- Discovery and Capability exchange Protocol

-CN: 802.1Qau

-PBS: Precirculated PAR

-PFC: Under Study in CM Task Force

Contributors: Hugh, Pat, Manoj, Rao, Anoop, Joe

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Challenges and Concerns: Data Center Bridging

Joe Pelissier

- -Scope of deployment
- -Congestion Spreading
- -Deadlocks
- -Restructure whole 802.1 document? May be move to next section
 - How does PAUSE fit into 802.1 architecture.
 - Switches do accounting based on input port already. They don't drop indiscriminately. This is acknowledged by 802.1 – DE bit)
- -PAUSE needs to be defined in 802.3
- -Coexistence of "BW Sharing" with 802.1Qav

Contributors: Joe, Mitch, Manoj, Norm(?),

802.1 Framework: Data Center Bridging

Norm(?)

- Map each enhancement to 802.1 architecture
- -Will have to define how PFC is triggered, but we don't have to define
- -Or
- -We won't define how it is triggered
- -Or
- -We may want to restrict how it is triggered
- -May have limit on how long it can be triggered