

Grid Computing Deployments using OpenFabrics Protocols



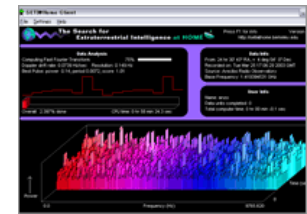
Asaf SOMEKH
VP Strategic Alliances, Voltaire

Many Definitions for Grids

ORACLE

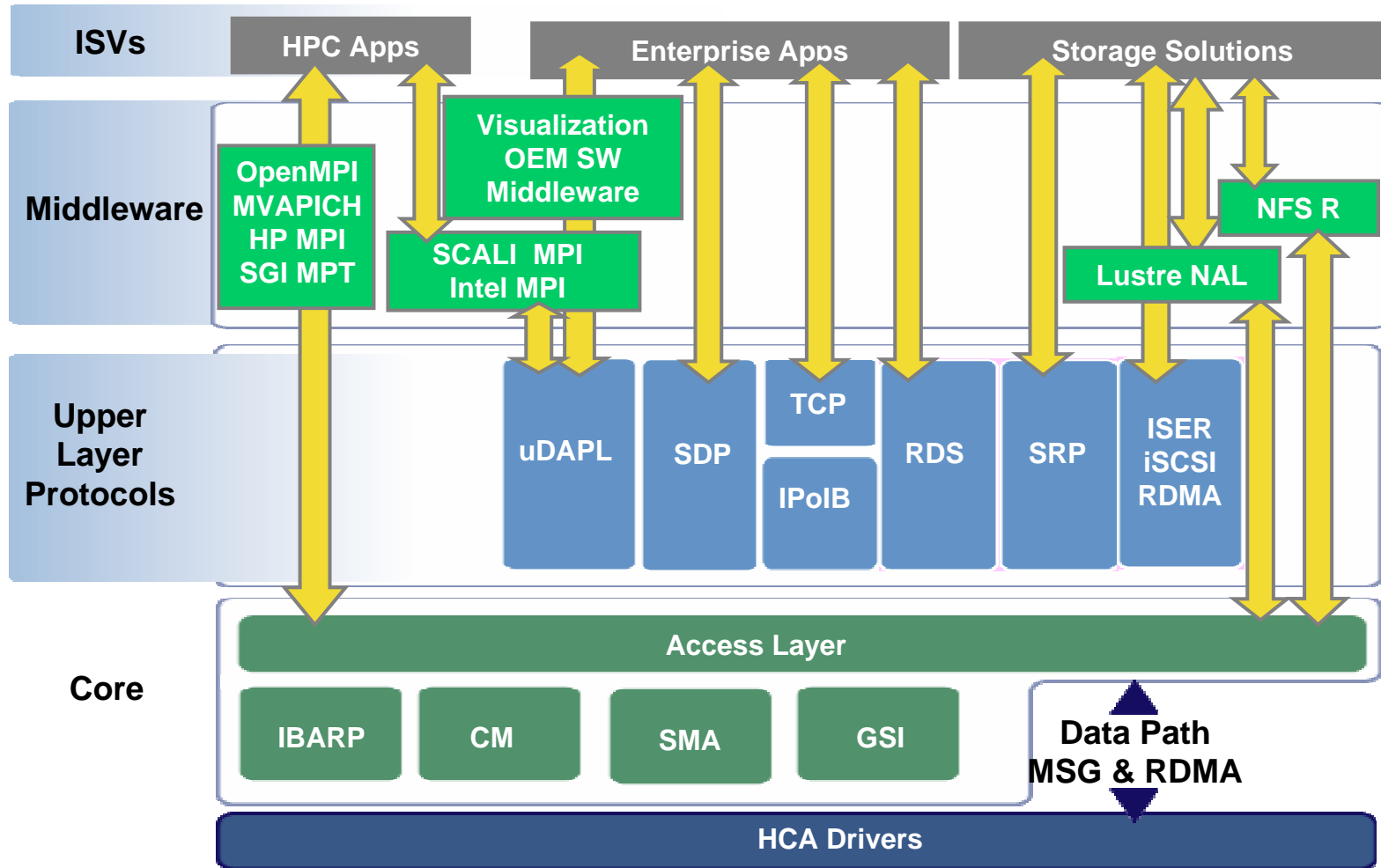
Oracle 10g Grid &
Real Application Clusters

SETI



The Spectrum of Grid Definitions

OpenFabrics Software Stack

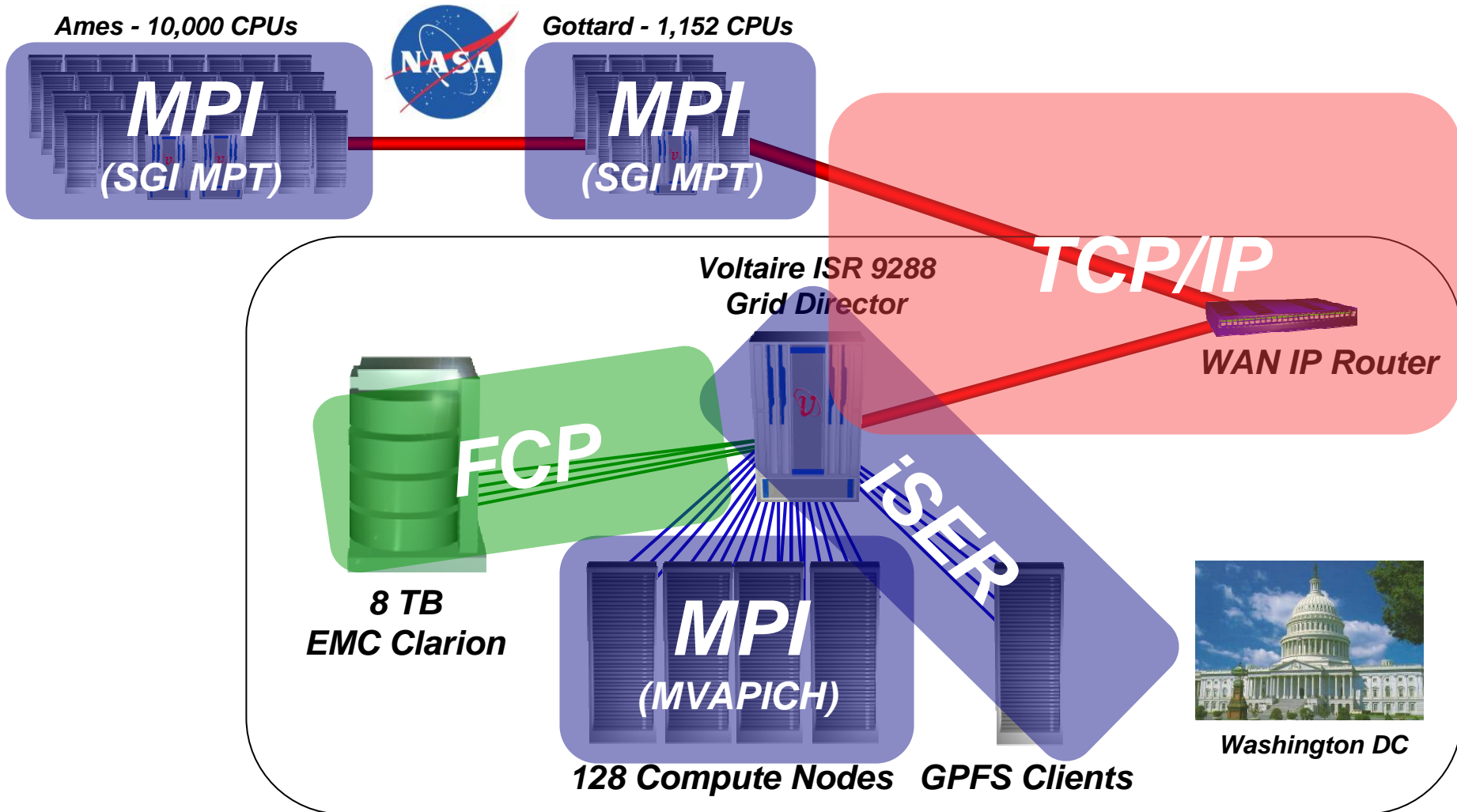


Grid Deployment Examples

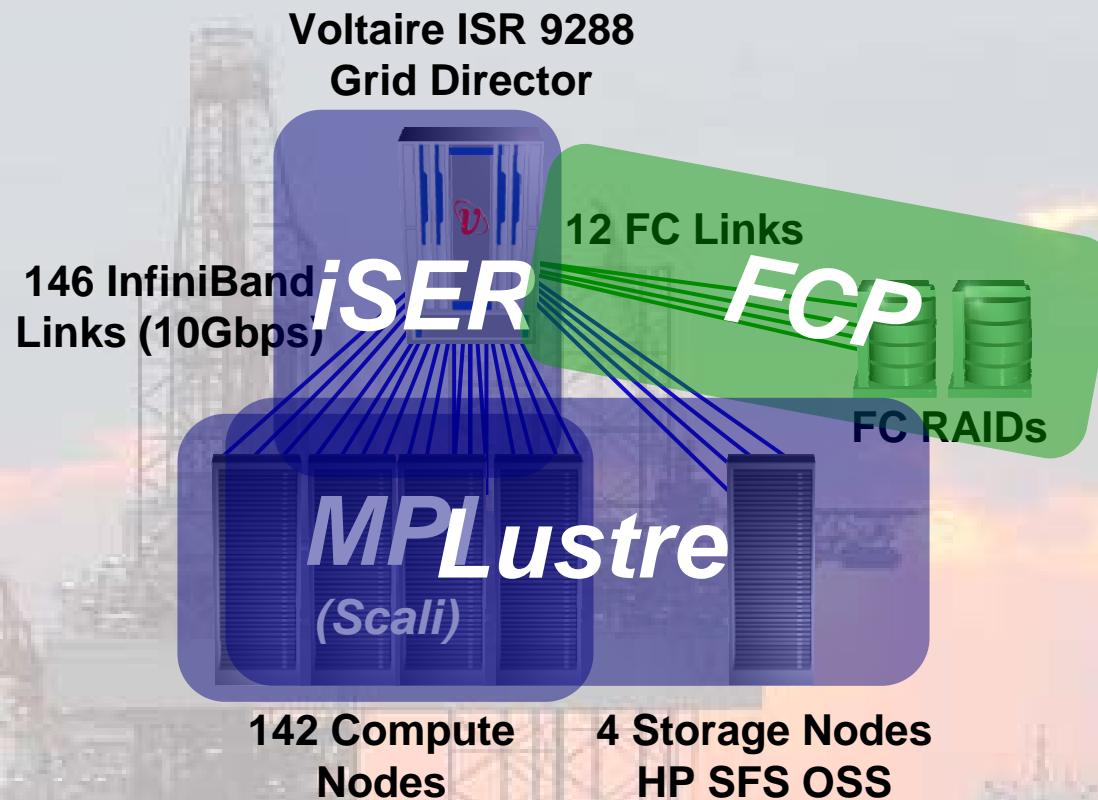


OPEN**FABRICS**
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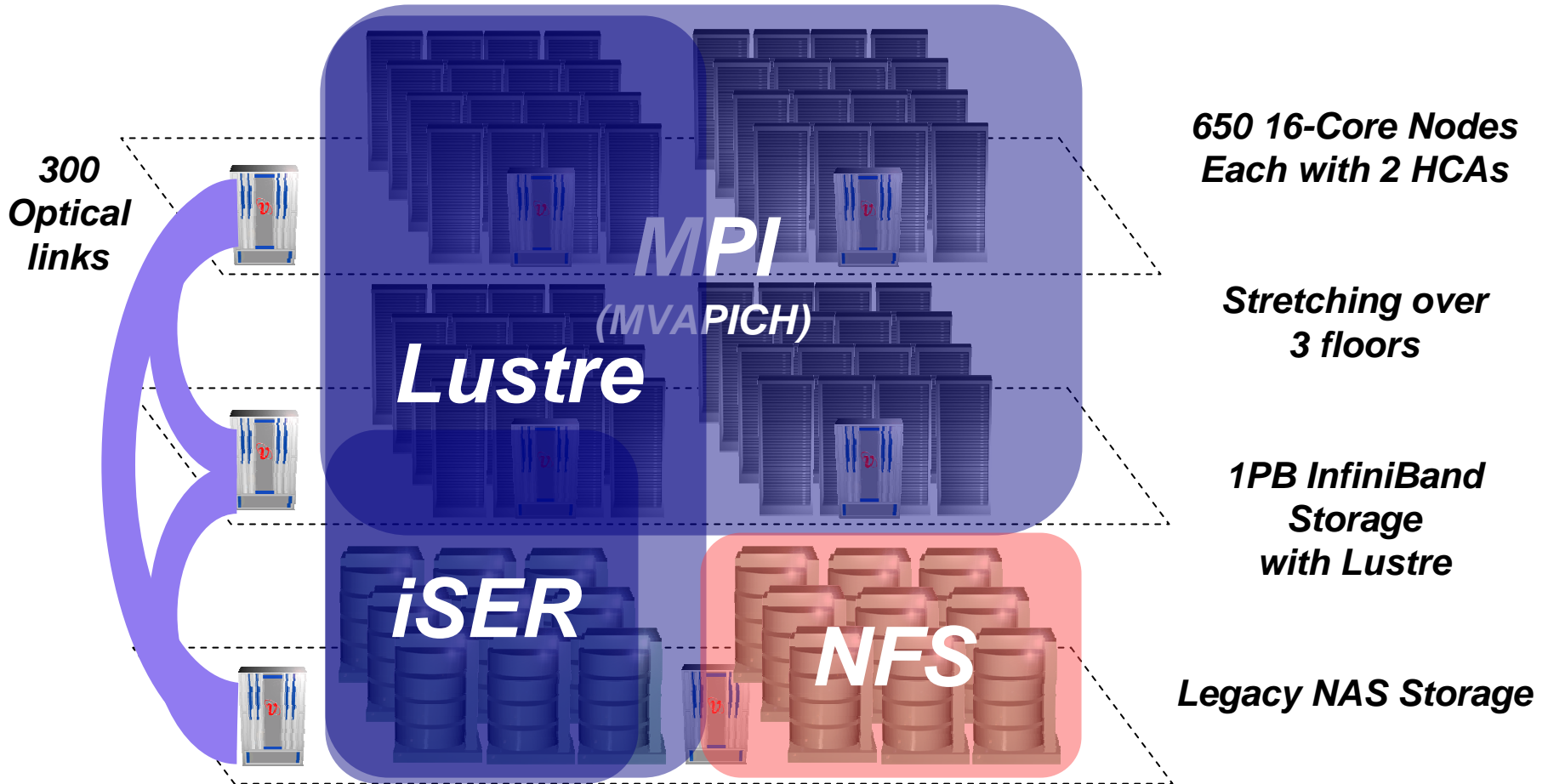
Government Grid



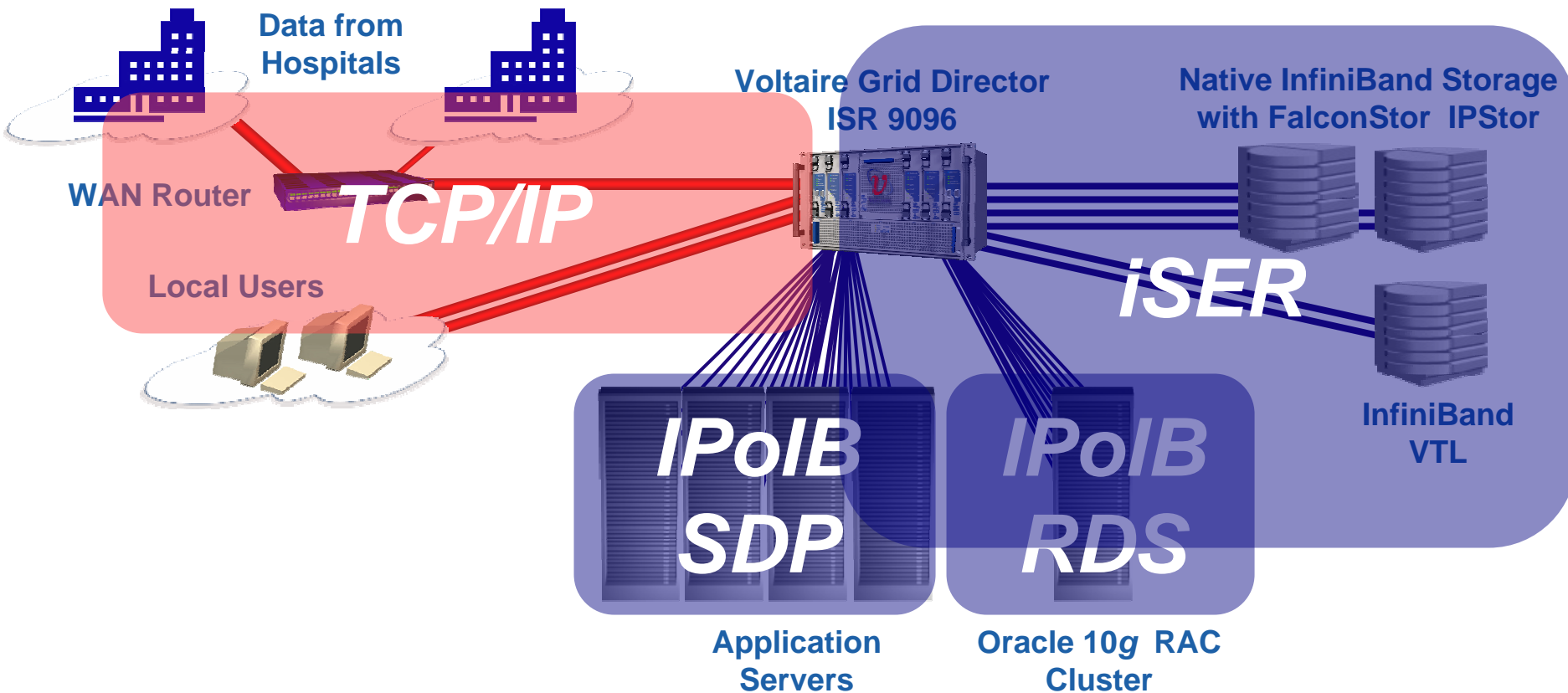
Oil Grid



Academic Grid



Healthcare Grid



Military Grid

1,024 Compute Nodes

4 Login Nodes

2 Admin Nodes

87 Voltaire ISR 9024
Grid Switches

4 Voltaire ISR 9288
Grid Directors

Client
Throughput:
350 MB/s

MPI
Lustre

87 Leafs

4 Spines

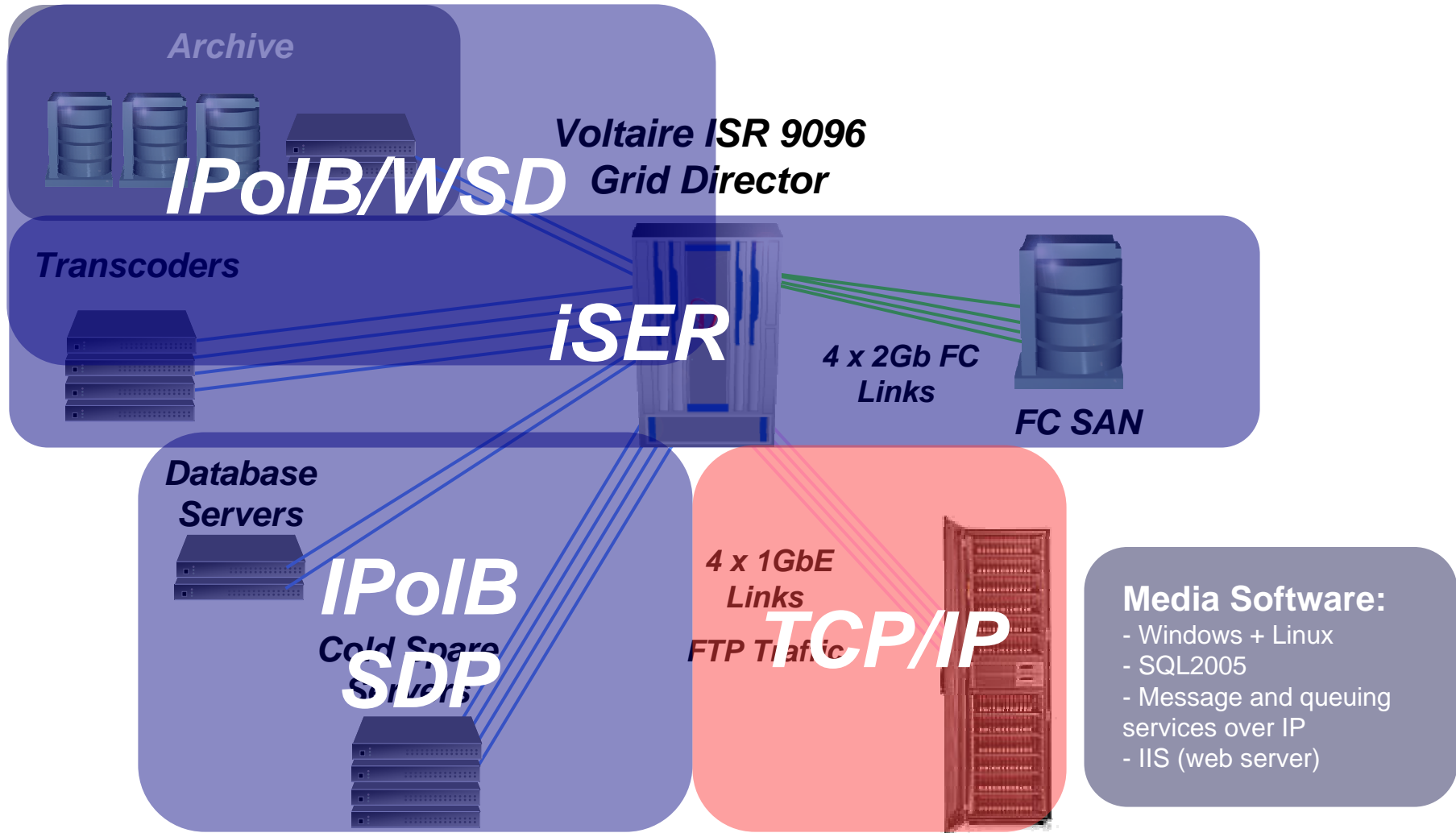
12 OSS Nodes
(Lustre Servers) with 132 TB
OSS Throughput 900 MB/s
1 SFS Admin Node
1 MDS Node

Fully Non-blocking
10 Gbps InfiniBand Fabric



Customer: D.O.D
US Air Force
Project TI-05

Broadcasting Center Grid



Thank you!



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