



25 Gb/s for DC

Higher Speeds for Enterprise BASE-T Access

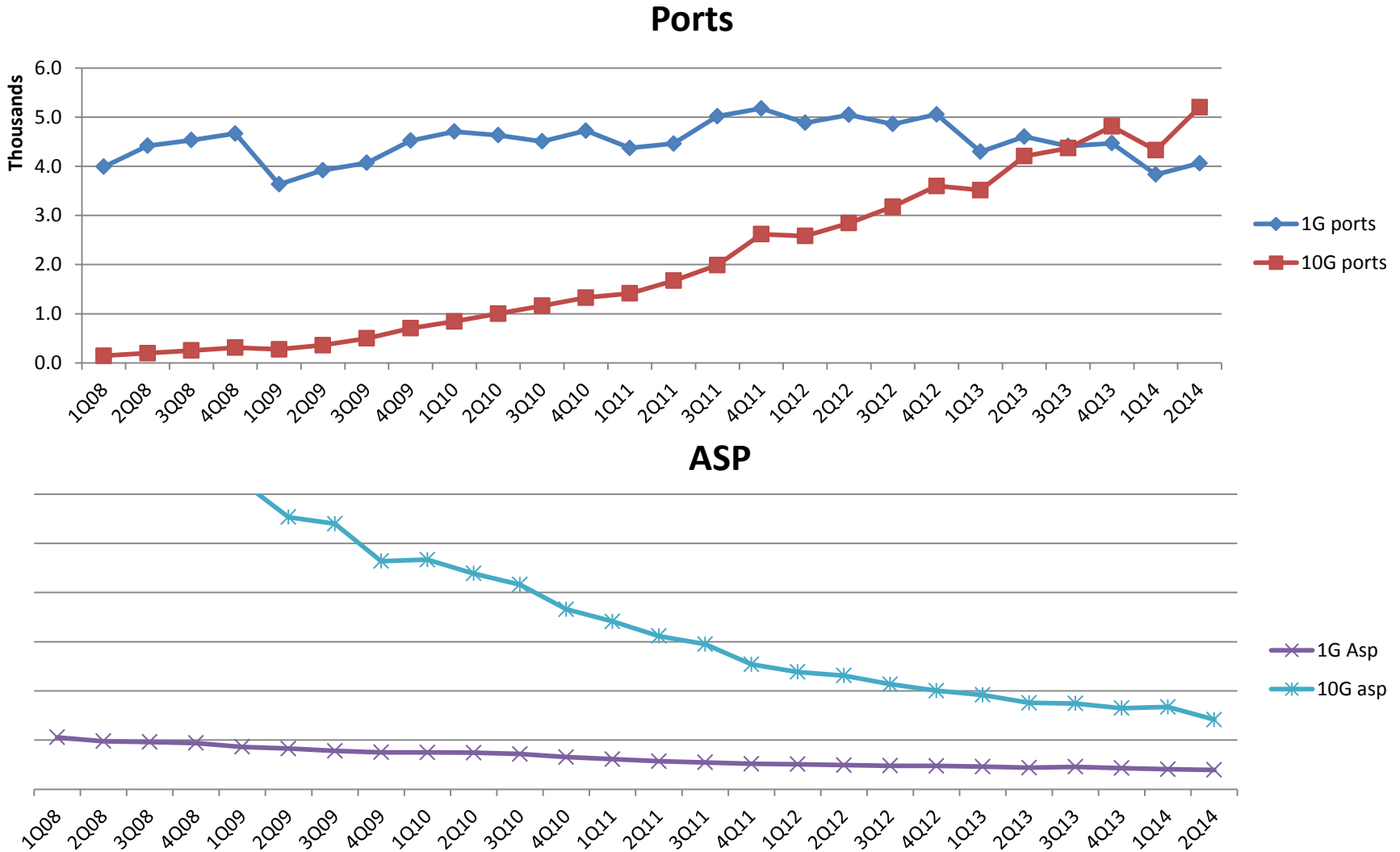
October 2014

25G for Data Center

- Historically Ethernet speed transitions have been slow
 - 5+ years for cross-over from lower speed to higher speed
 - 10X speed bumps have led to higher cost/power premiums
- But 10G->25G transitions should be much faster
 - Speed differential of only 2.5X closer to Fiber Channel and Infiniband transitions of 2x
 - Established precedent of fast transitions in Fiber Channel space
 - Low cost premium over 10G could trigger a fast transition to 25G
- 25G is Win for Customers and Vendors
 - Customers adopt it sooner at a lower cost premium
 - Vendors/suppliers recoup their investments faster



Ethernet in DC Market Transitions

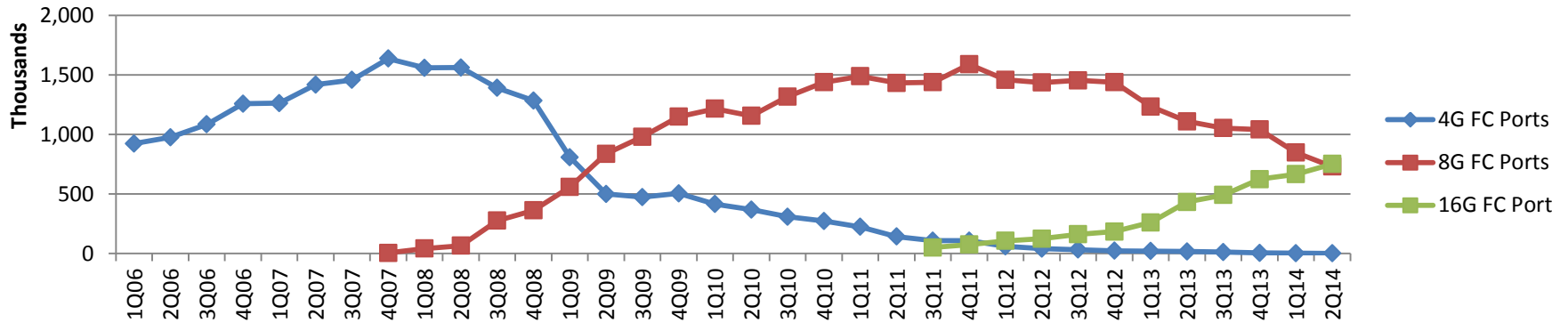


Source: Dell 'Oro Ethernet Switching Report 2014

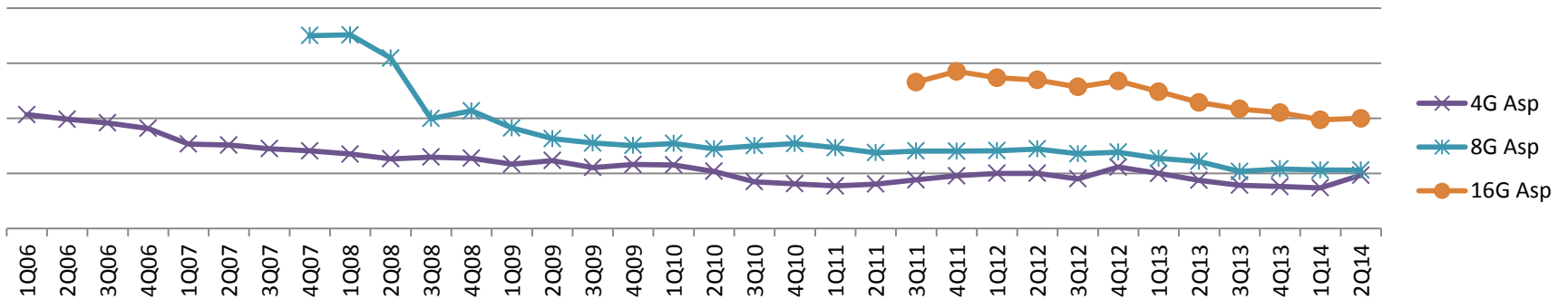
- Higher speed adoption and Transitions go hand in hand with ASP drops.

Fiber Channel Market Transitions

Ports



ASP

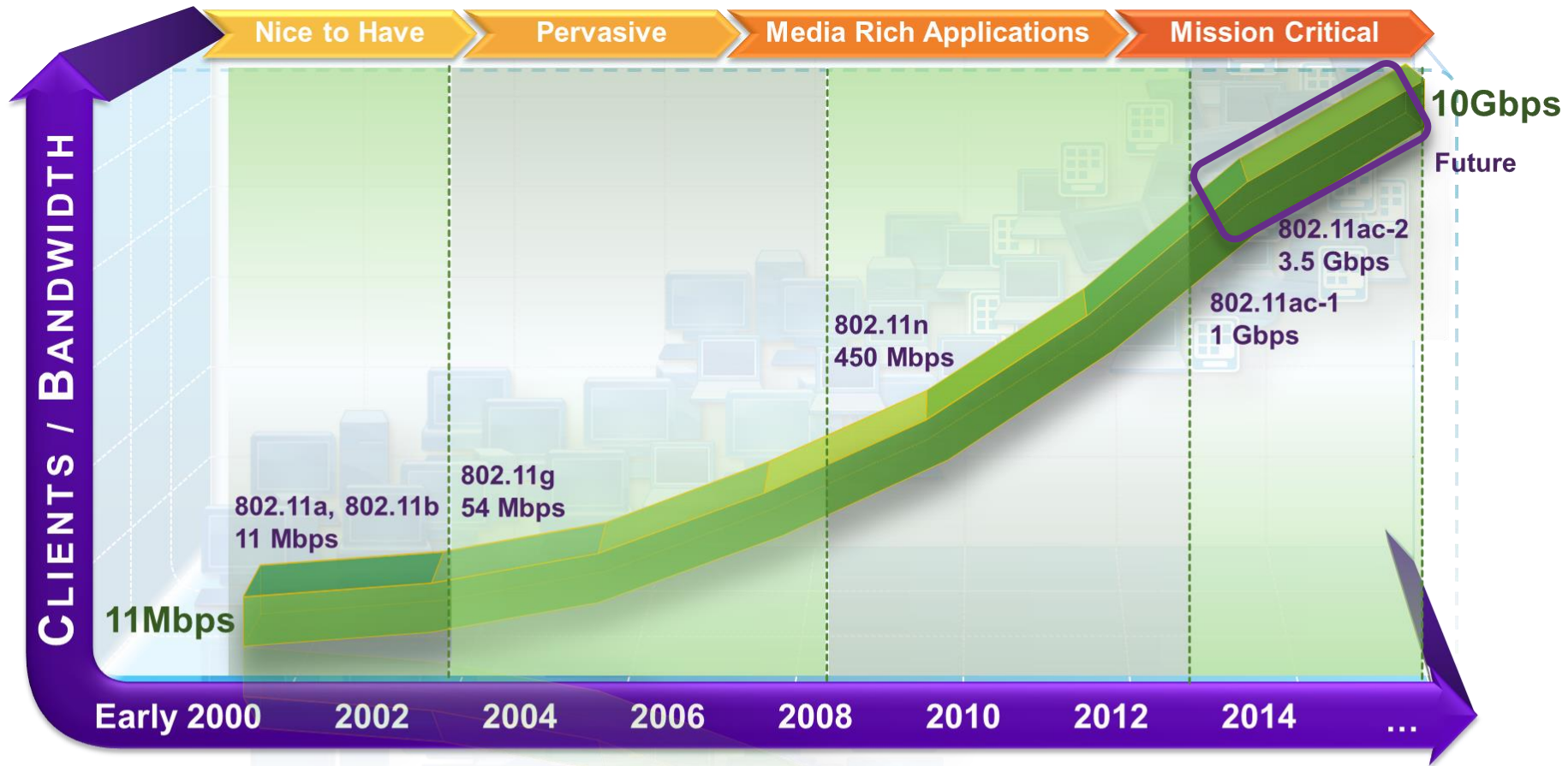


Source: Dell 'Oro Fiber Channel Report 2014

- Higher speed adoption and Transitions go hand in hand with ASP drops. Fastest transition when under 50% premium.



Enterprise Wireless Evolution



Enterprise Access Evolution

- Wireless APs are low footprint devices (cost, power, heat)
- 802.11ac Wave 2 drives Ethernet bandwidth beyond 1Gb/s
- Market needs Ethernet rates between 1Gb/s and 10Gb/s
 - Target speeds of 2.5Gb/s and 5Gb/s
 - Provide BASE-T Ethernet features (e.g., PoE, Autoneg, EEE)
 - Leverage Installed base of structured cable (mostly Cat 5e/6)



Summary

- 25G makes sense for data center deployments
 - Lower Cost Premiums lead to faster adoption in data center
- 2.5Gb/s and 5Gb/s for Enterprise BASE-T Access
 - Leverage installed base of structured cabling
 - Enable simpler and faster adoption of 802.11ac Wave 2

