

100GE in ROUTERS



Luc Ceuppens

Vice President, Product Marketing

Demand for 100GE is not new

We're trying, in the backbone space, as quickly as possible, to get to 100 GE

Stuart Elby, Verizon,
May 09

100GE needed for broadband urgently in the core by 2009 and across the board by 2011

John Weil, Cox, Apr'07

There is a market need for 100GE

Vik Saxena, Comcast,
Jan'07

Drivers for higher speed Ethernet

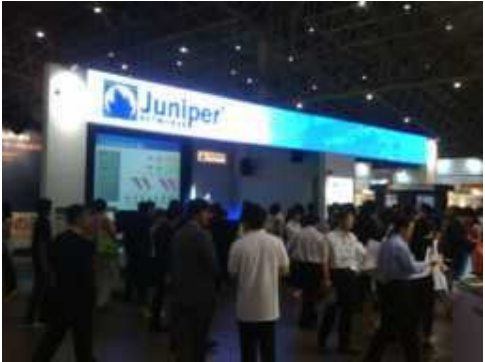
- **Growing demand for 10 GE end user services**
- **Cleaner than LAG or inverse multiplexing**
- **Cloud Computing Networks (grids) are the next driver for bandwidth**
- **Virtualized or logical routers need high-speed uplinks to fully realize cost savings**
- **Wholesale services require higher speed connections**
- **Improved network economics & scaling**

100 GE interface card



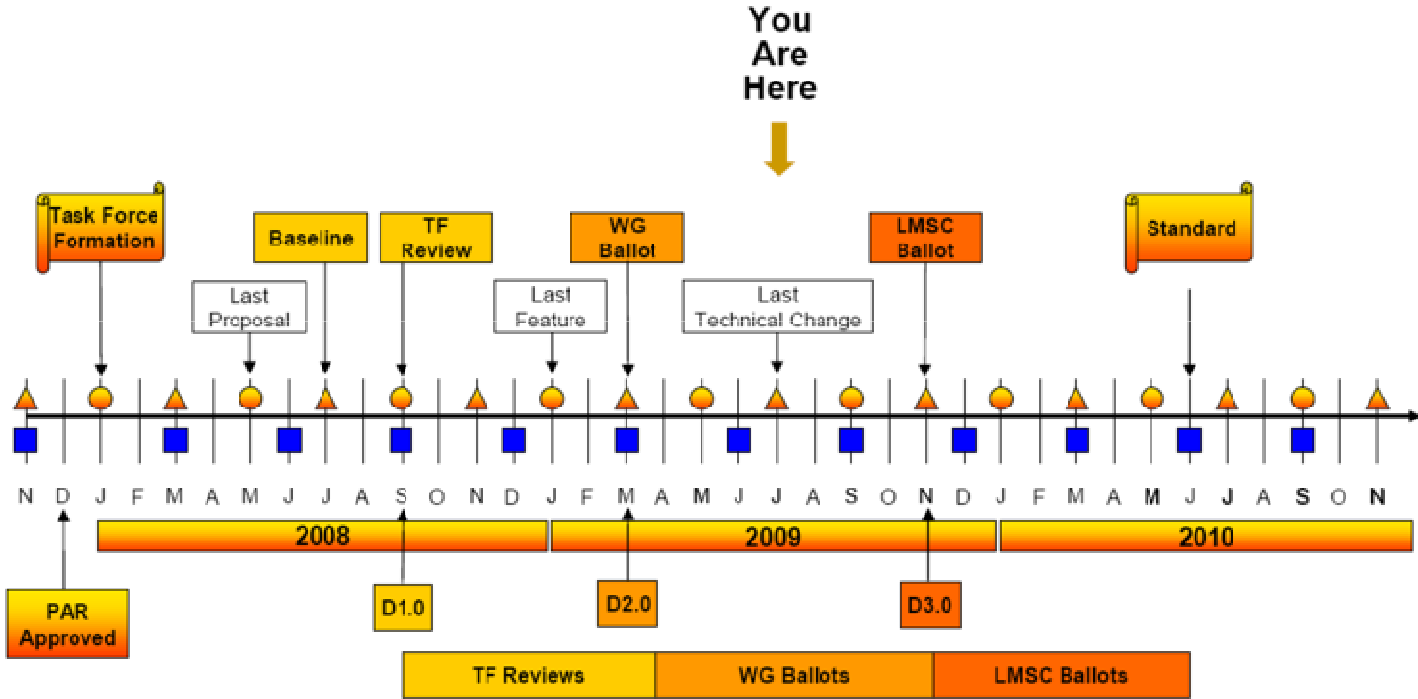
T1600

IEEE802.3ba compliant
100GE PIC



IEEE 802.3ba timeline

IEEE P802.3ba Task Force Timeline



* Adopted by IEEE P802.3ba TF at March 08 Plenary

IEEE 802 Plenary, San Francisco, CA, July 2009

Short-term challenges

- **Huge pent-up demand**
 - Global service providers
 - Data center
- **Limited component supply**
 - CFP
 - Phy
- **Limited product availability hampers trials and deployments**

THANK YOU