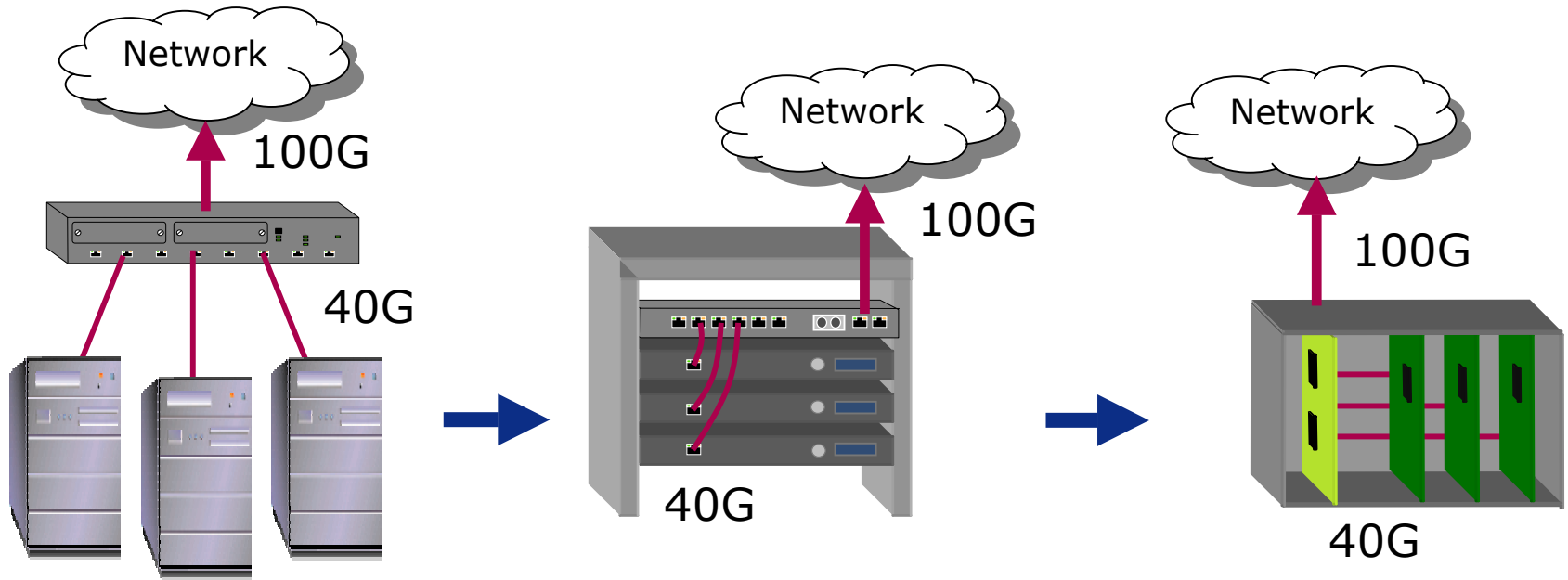


# **Server Form Factors & Physical Networking Requirements**

**IEEE 802.3 HSSG Interim Meeting  
April 2007**

Robert Hays, Intel

# Server Form Factors & Physical Networking



## Pedestal Server:

- <100m to switch across data center
- Cu or Optical Cables
- BASE-T or -LR

## Rack Server:

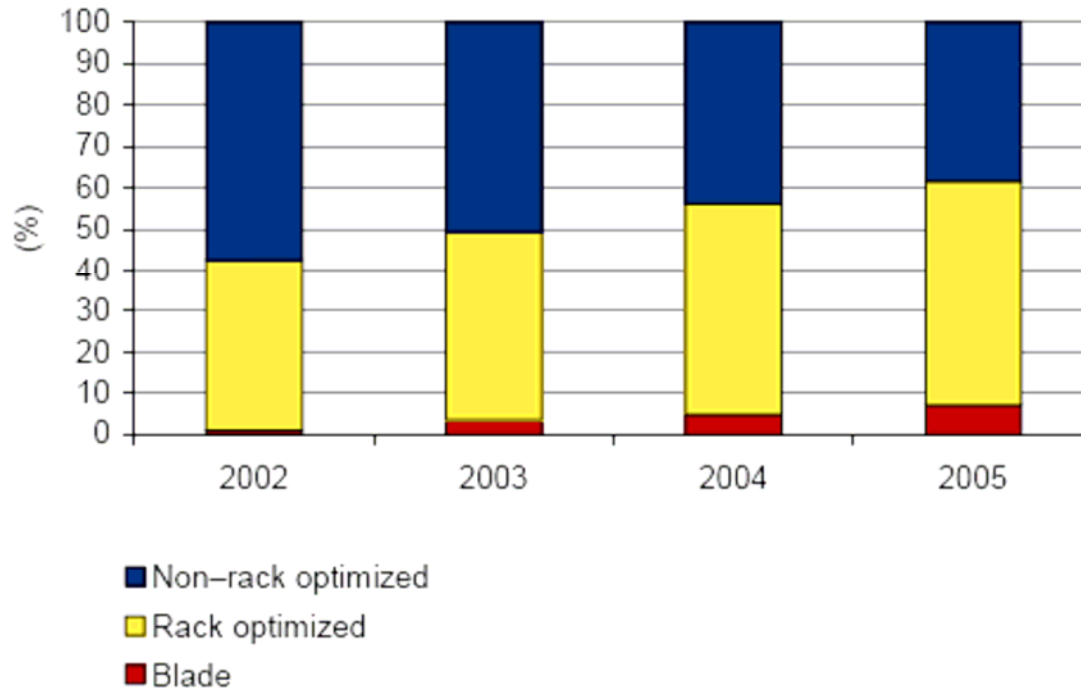
- <15m to switch at top-of-rack or in-row
- Copper Cables
- BASE-CX4 or -T

## Blade Server:

- <36" to switch in back of chassis
- Copper PCB
- BASE-KX4 or -KR

# Server Form Factor Volume 2002-2005

Worldwide Server Shipment Share by Form Factor, 2002-2005



Source: IDC, 2006

<u>Growth Trend:</u>	<u>40G Priority:</u>
Pedestal ↓	#3
Rack ↑	#2
Blade ↑	#1

- Many expect Blade servers to be >30% in the next few years
- New innovation today is mostly going into blade servers and the designs are being leveraged by OEMs for rack servers

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