

Call for Interest

PoE-plus

Daniel Feldman

danielf@powersine.com

Yair Darshan

yaird@powersine.com



www.powersine.com

IEEE802.3 Plenary , November 2004

Page 1

Agenda

- Why go beyond 802.3af?
 - Higher power
 - Support mission critical applications with simple additional management requirements.
- Benefits and opportunities
- Motivation
- General scope
- Why now is the time?

Why go beyond 802.3af?

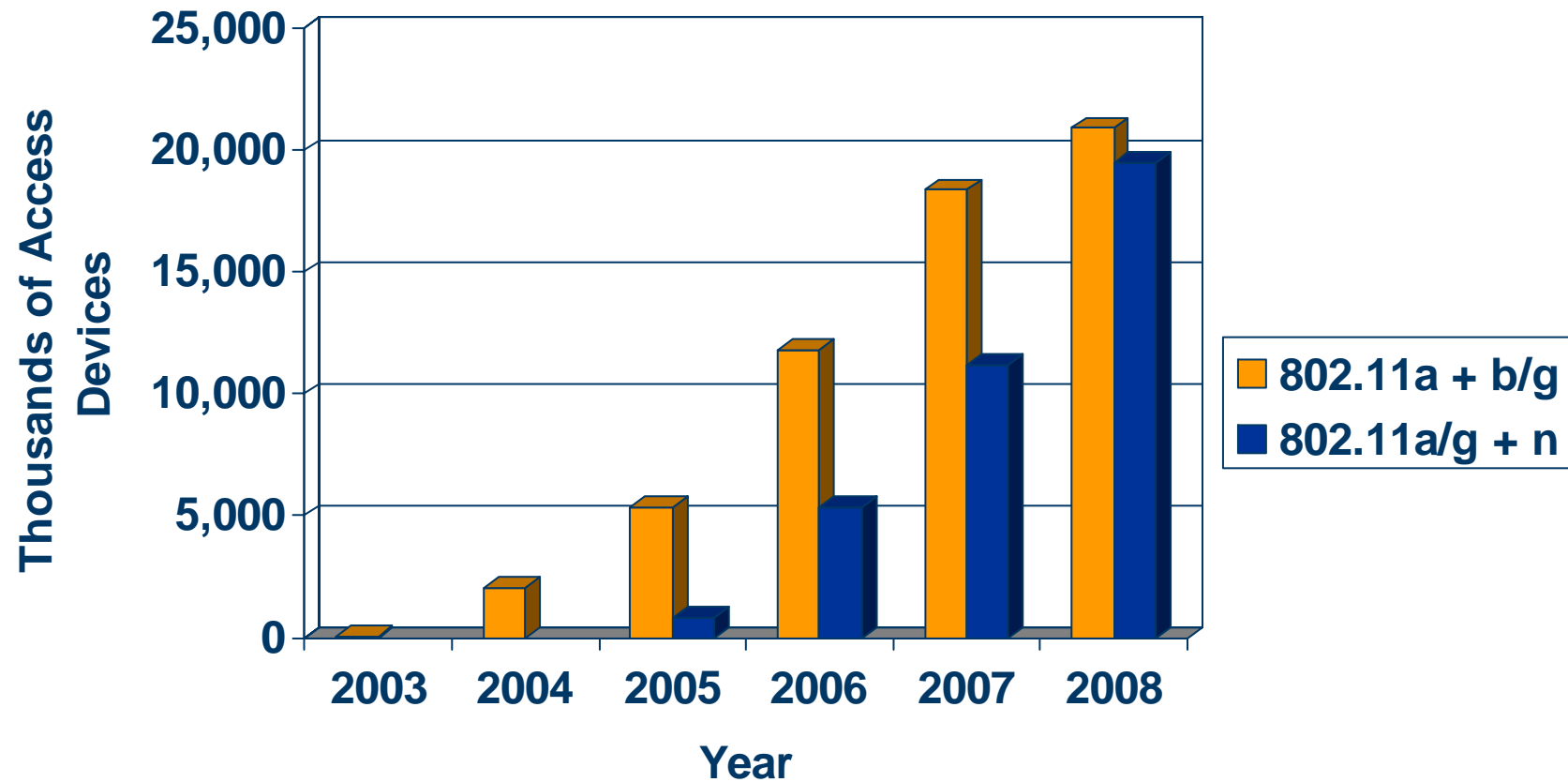
- To power more products in the existing PoE markets
 - Markets where part of the PD's require more than 12.95W
- To benefit more markets from Power over Ethernet
 - Markets that require more than 12.95W for PD's
- Support mission critical application by adding some management requirements
 - The proposed SG also intends to study whether features to support redundant power sourcing would be within the scope of the project.

→ Customer demand ←

Higher power applications

Market	Application	Power Requirement
WLAN	Dual band AP's	~20W
	802.11n AP's	~20W
	Outdoor AP's/Bridges	20W-30W
Security	PTZ Network Camera	15W-20W
IP Telephony	Video Phones	15W-25W
New Markets	RFID Readers and Access Control Systems	Up to 25W
	802.16 Base Stations	15W to 60W
	Workgroup switches	Up to 50W
	Residential Gateways	~20W
	Industrial sensors	1W to 30W
	Laptops	Up to 70W
	Point of Sales and Information Kiosks	13W to 60W

802.11 Dual Band Market Forecast



Source: IDC June 2004
www.powerdsine.com



Next generation PoE – Benefits & Opportunities

- To power more products in the existing PoE markets
- To benefit more markets from Power over Ethernet
 - Replaces high power external adaptors

Motivation

- No standard for higher power specifications
- Some vendors have started to develop proprietary solutions for high power applications
 - Potential interoperability issues with 1000BT, 10G
 - Can't interconnect equipment from different vendors

General scope of study

■ High Power

- How much power is required
- How much power is possible
- What's sets the limit
- How much power is desirable on a standardized basis
- To efficiently utilize power delivery capability of the LAN Infrastructure.

■ Distinction between

- 802.3af PD's and high power PD's

■ Interoperation with 802.3 and other standards

■ Power redundancy management at the port level

Now is the time

- There is a demand for higher power support from PoE
 - Wireless AP, Security world, Video phones and other PoE markets
 - Avoid proliferation of proprietary non-interoperable solutions
- Enable mission critical applications that require redundancy support
 - Banking, point of sale, medical, etc...
 - Proprietary solutions are emerging in the market
- 802.3 standards process is the best way to achieve a standard