

# **SIMIT IEEE 802 LAN/MAN Standards Committee Workshop**

## **IEEE 802 Overview**

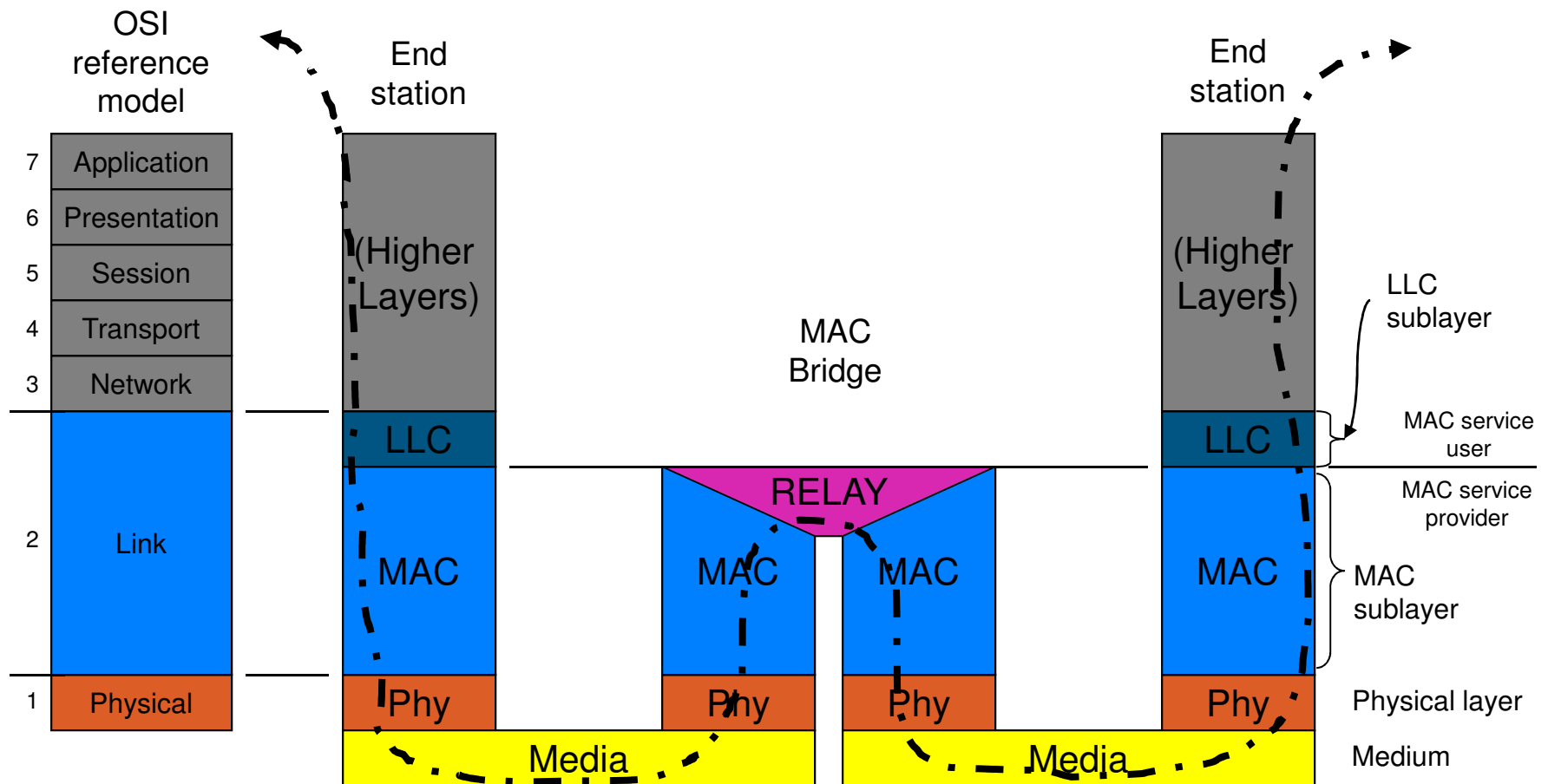
**15 MAY 2010**

**Paul Nikolich**

**Chairman**

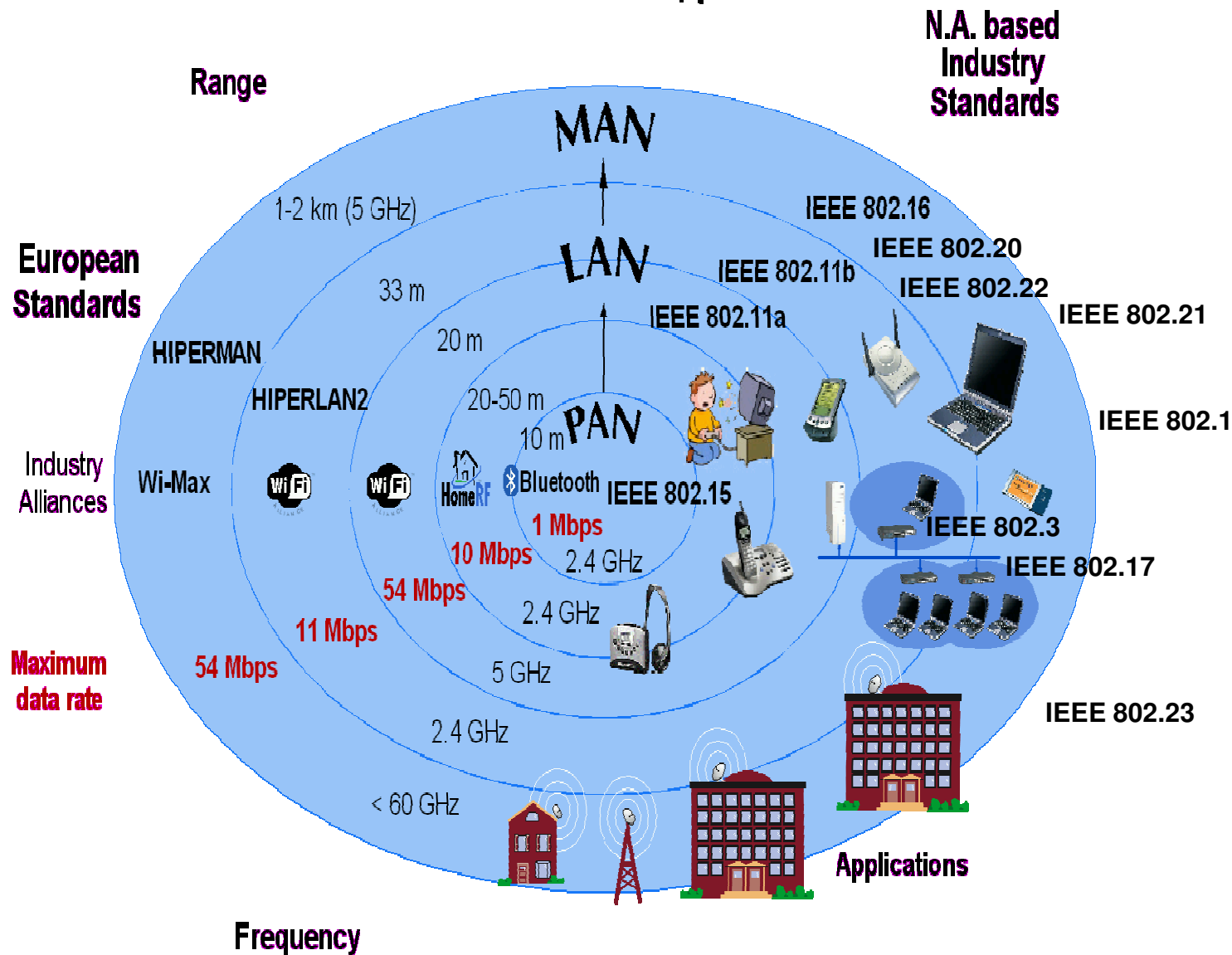
**IEEE 802 LAN/MAN Standards Committee**

## The 802 LAN Architecture



Objective: Specify the means to reliably deliver packets over a wide range of media types, speeds and distances

## Network Type



# IEEE 802 ORGANIZATION

## EXECUTIVE COMMITTEE

**CHAIR**  
Paul Nikolich

### WORKING GROUP/TAG CHAIRS

**802.1**  
Bridging/Arch  
Tony Jeffree

**802.3**  
Ethernet  
David Law

**802.11**  
WLAN  
Bruce Kraemer

**802.18 TAG**  
Radio Regulatory  
Mike Lynch

**802.15**  
WPAN  
Bob Heile

**802.16**  
BWA  
Roger Marks

**802.17**  
ResPackRing  
John Lemon

**802.19 TAG**  
Coexistence  
Shellhammer

**802.20**  
MBWA  
Mark Klerer

**802.21**  
Handoff  
Subir Das

**802.22**  
WRAN  
Apurva Mody

**802.23**  
Emergency  
Services  
G. Thompson

### APPOINTED OFFICERS

**1<sup>st</sup> VICE CHAIR**  
Pat Thaler

**2<sup>nd</sup> VICE CHAIR**  
Mat Sherman

**EXECUTIVE  
SECY**  
Jon Rosdahl

**RECORDING  
SECY**  
James Gilb

**TREASURER**  
John  
Hawkins

**MEMBER  
EMERITUS**  
Buzz  
Rigsbee

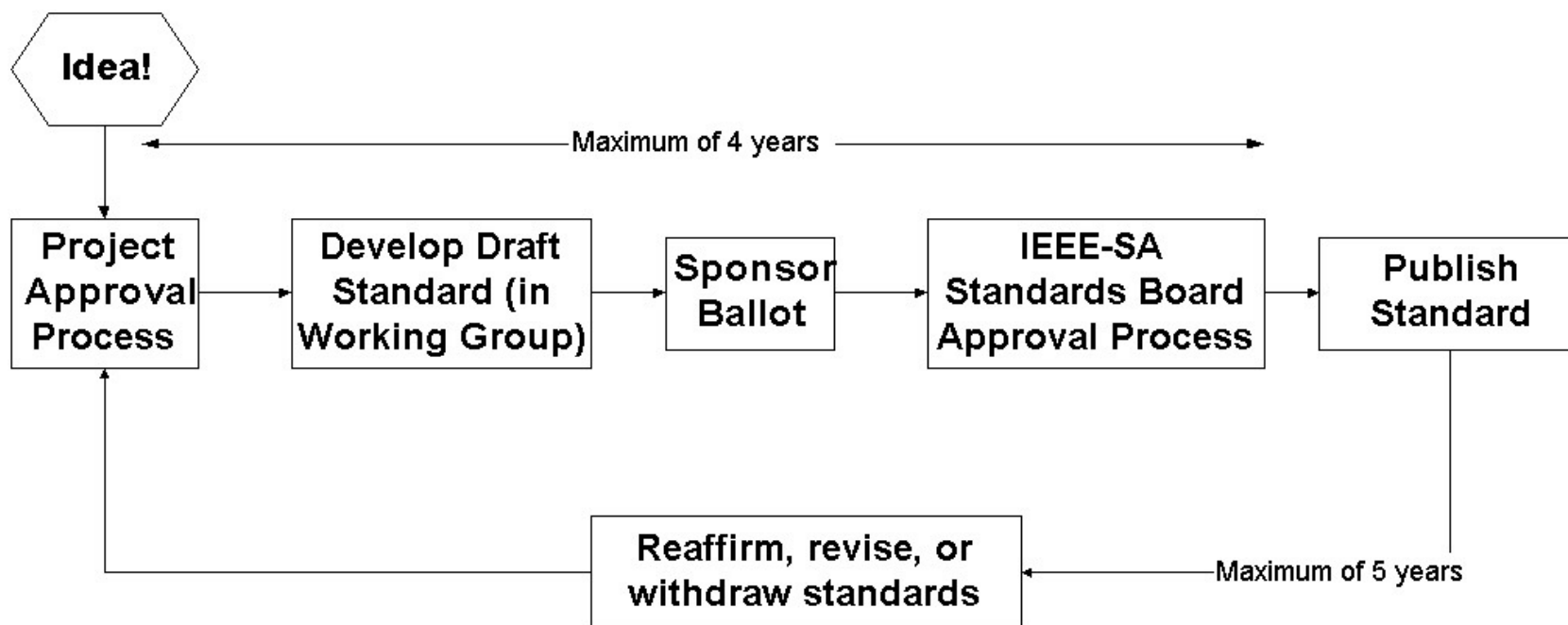
### HIBERNATION

802.2 LLC (Dave Carlson)  
802.12 Demand Priority (Pat Thaler)

### DISBANDED

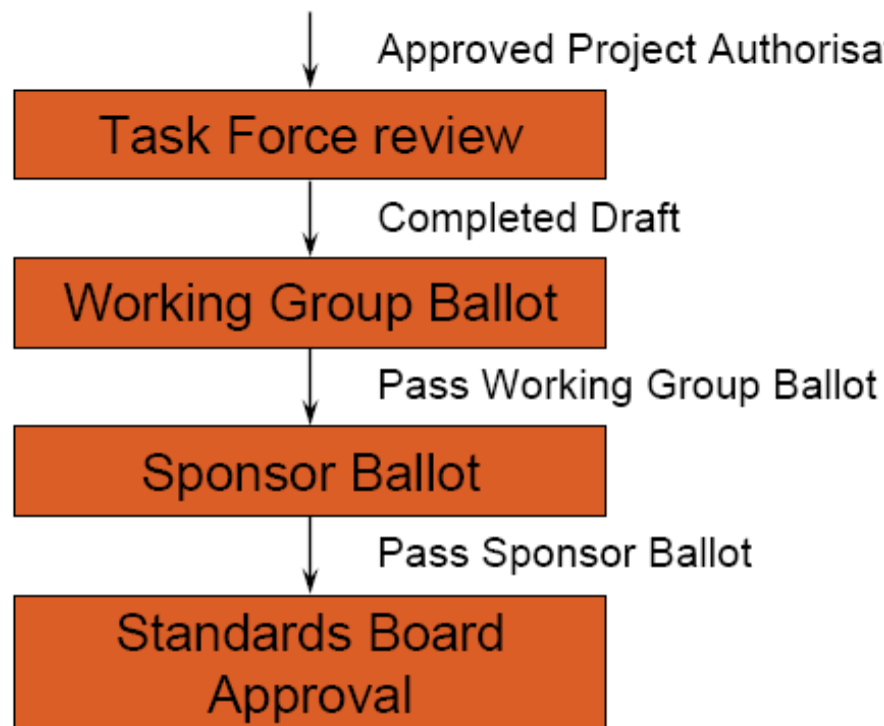
802.4 Token Bus  
802.7 Broadband TAG  
802.9 ISLAN  
802.14 CATV  
802.6 DQDB  
802.8 Fiber Optic TAG  
802.10 Security  
802.5 Token Ring

# The Consensus Process



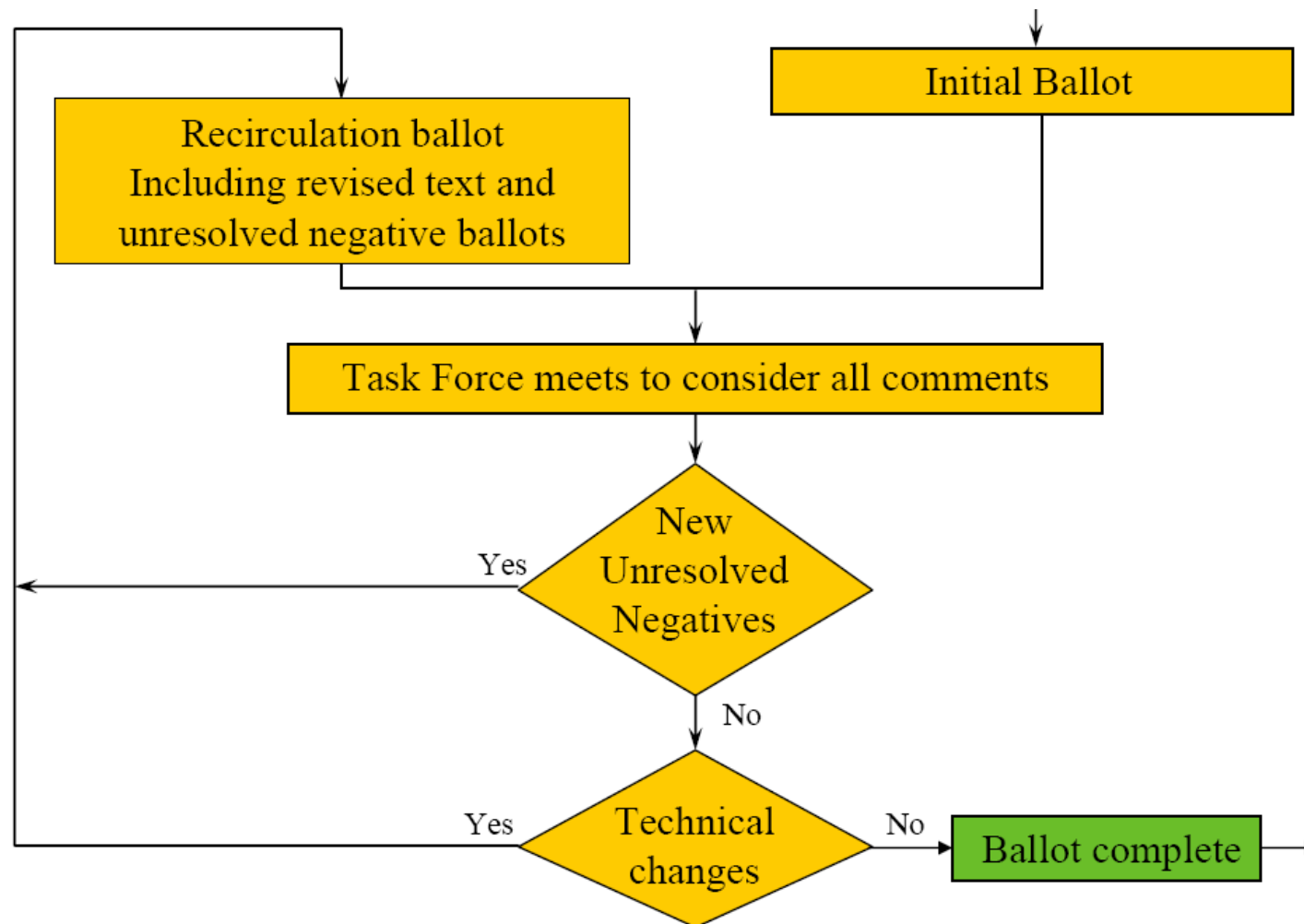
~1500 members across 12 Groups (Working & TAG)  
3 Plenary Sessions: MAR, JUL, NOV (~1000 participants)  
3 Interim Sessions: JAN, MAY, SEP (variable # participants depending size)  
In between: many teleconference meetings depending on workload

# IEEE 802 Standards Development Overview



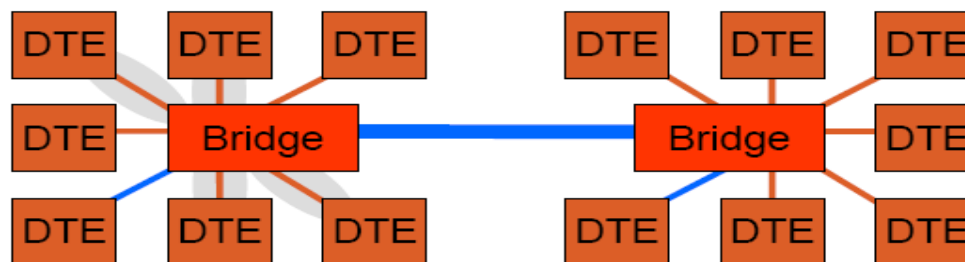
Votes on technical issues requires a minimum of 75% approval to pass

# The ballot process



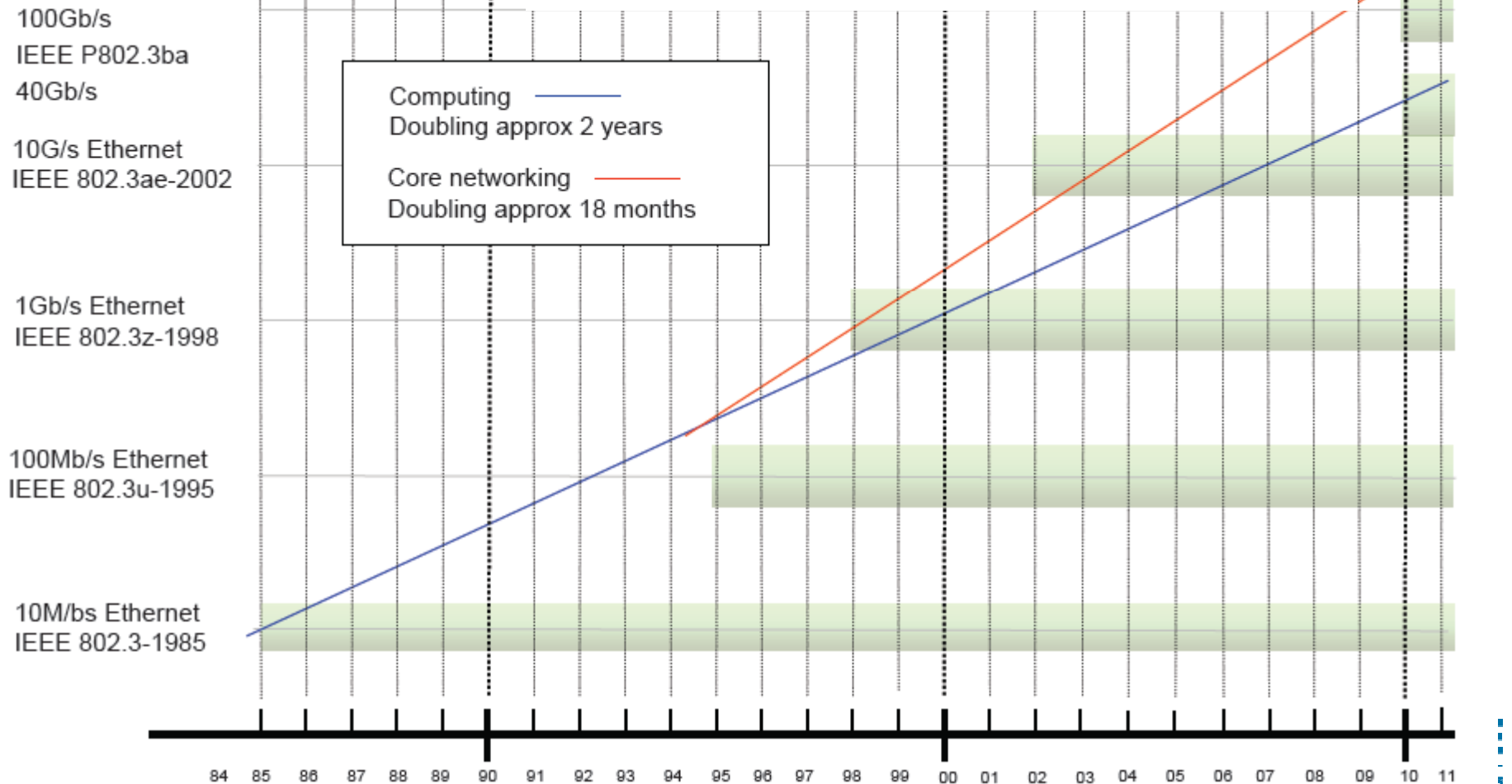
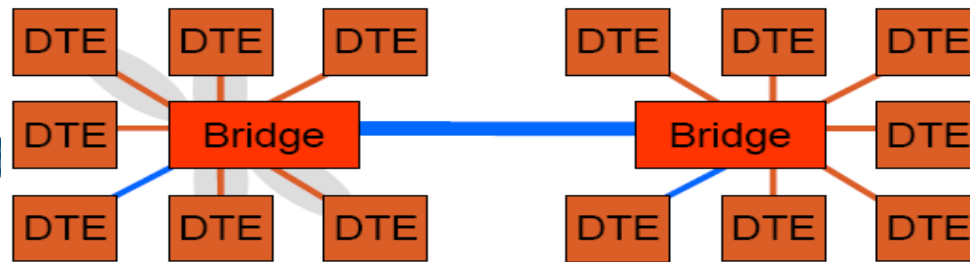
# 802.1 Bridging and Architecture

- What is 802.1?
- The Bridging standards
  - “Traditional” Bridging
  - Audio Video Bridging (AVB)
  - Data Center Bridging (DCB)
- The Security standards





# IEEE P802.3 Computing a



# IEEE Std 802.17 Resilient packet ring

## Overview

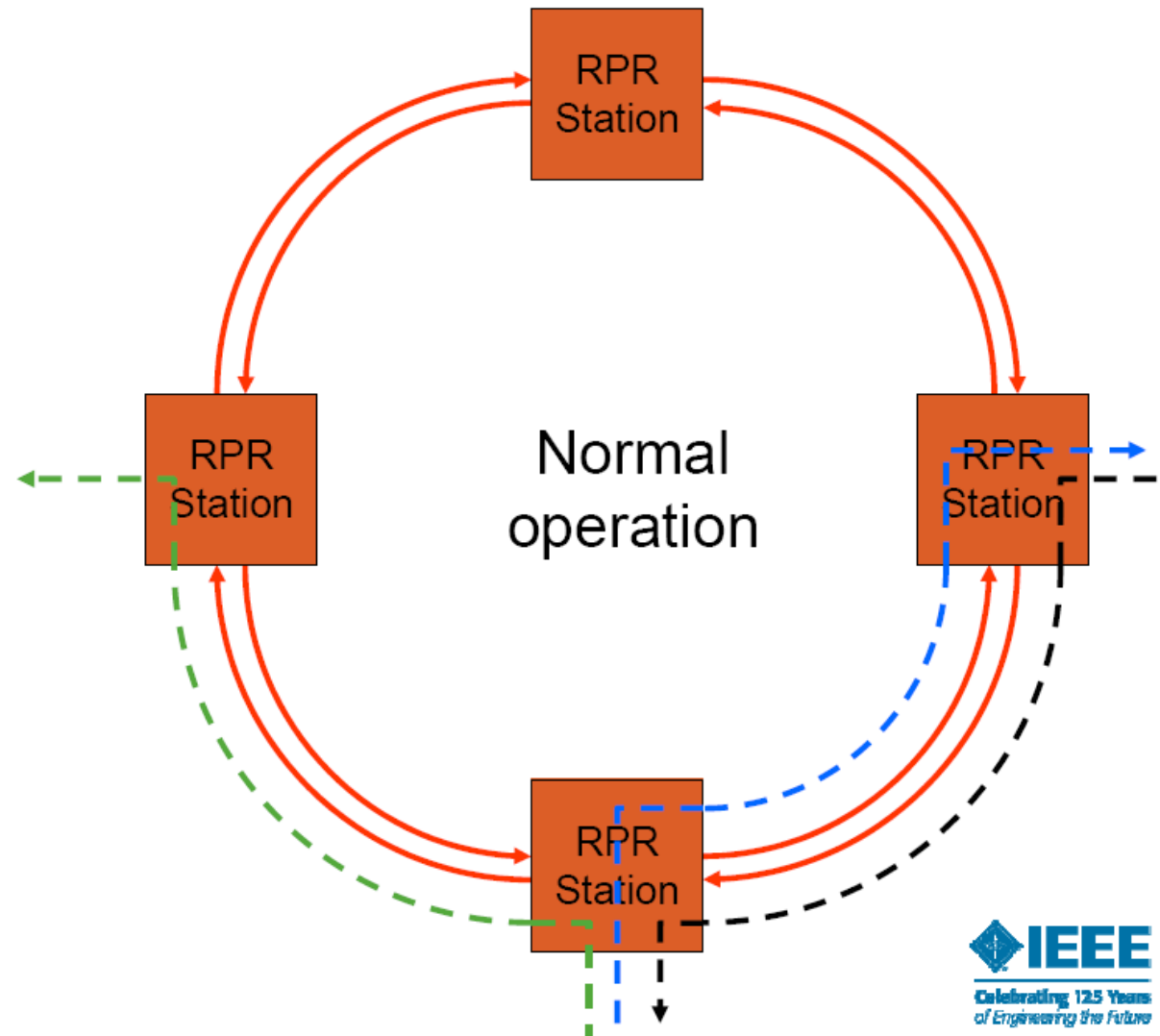
Dual counter-rotating ringlets  
Concurrent transmission  
Bandwidth reuse

Three traffic classes

Fairness

Plug-and-play  
Automatic topology discovery

Robustness  
Sub 50ms fault restoration  
Fault tolerant



# IEEE-SA Overview

