



# **PAR, 5 Criteria and Objectives Feedback**

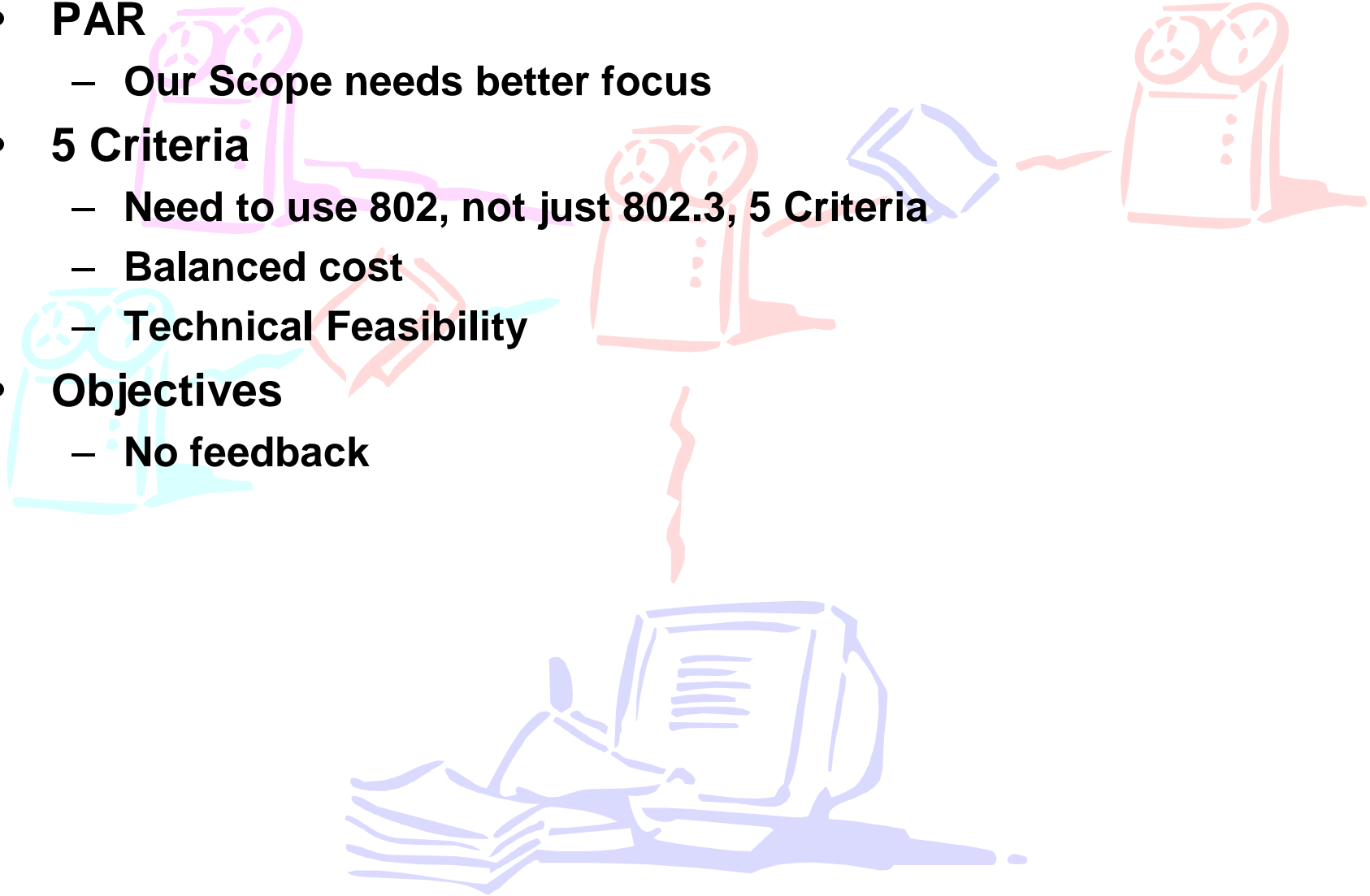
**Albuquerque, NM  
November 11, 2003**

**Brad Booth, Chair  
bbooth@ieee.org**

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# Feedback Overview

- **PAR**
  - **Our Scope needs better focus**
- **5 Criteria**
  - **Need to use 802, not just 802.3, 5 Criteria**
  - **Balanced cost**
  - **Technical Feasibility**
- **Objectives**
  - **No feedback**



# Broad Market Potential

- **802.3**
  - Broad set of applications
  - Multiple vendors, multiple users
  - Balanced cost, LAN vs. attached stations
- **802**
  - Broad sets of applicability.
  - Multiple vendors and numerous users.
  - Balanced costs (LAN versus attached stations).
- **Requirements match**



# Compatibility

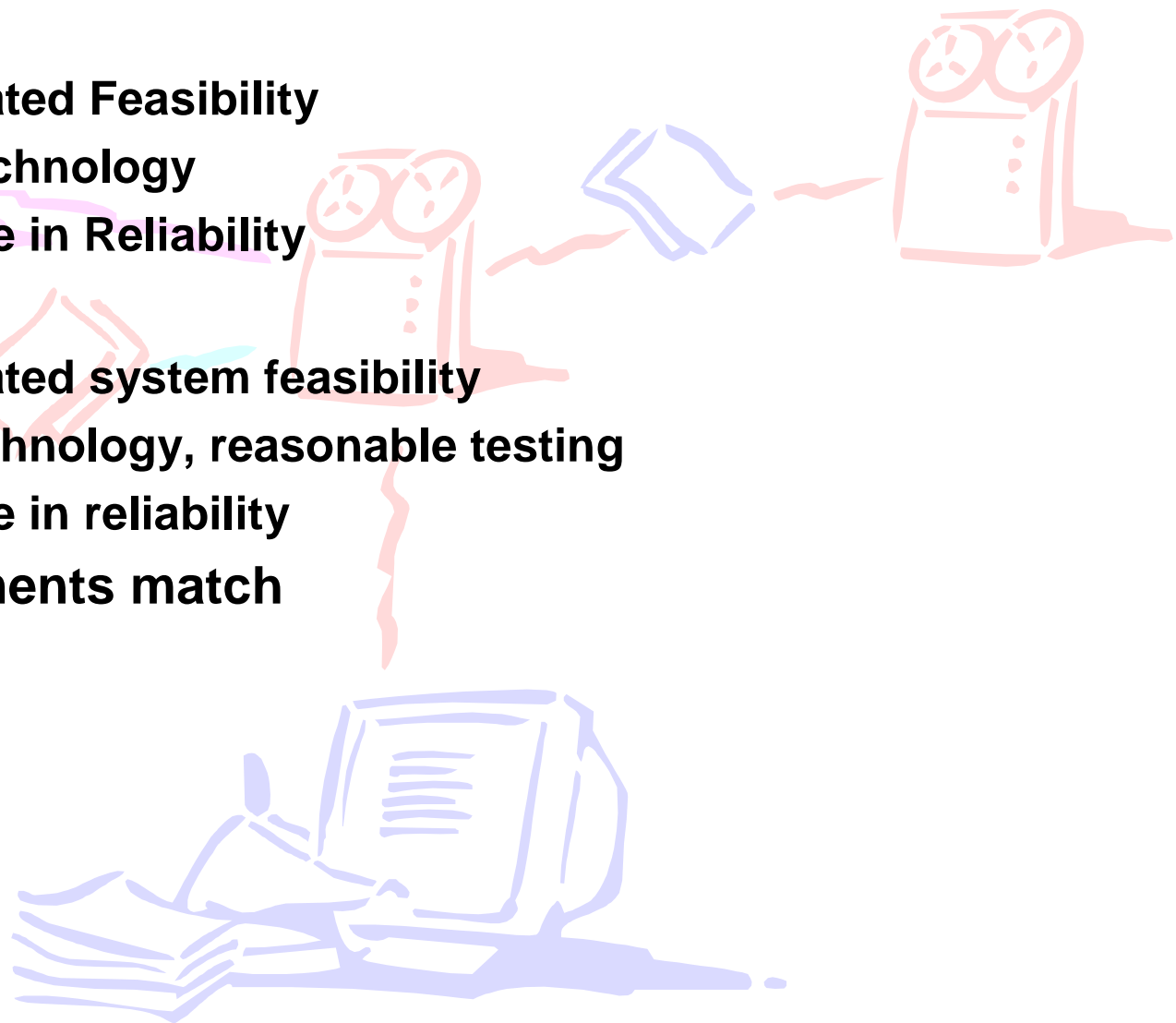
- **802.3**
  - Conformance with CSMA/CD MAC, PLS
  - Conformance with 802.2
  - Conformance with 802
- **802**
  - IEEE 802 defines a family of standards. All standards shall be in conformance with the IEEE 802.1 Architecture, Management and Interworking documents as follows: 802. Overview and Architecture, 802.1D, 802.1Q and parts of 802.1f. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with 802.
  - Each standard in the IEEE 802 family of standards shall include a definition of managed objects which are compatible with systems management standards.
- **Need to address conformance to 802.1**

# Distinct Identity

- **802.3**
  - Substantially different from other 802.3 specs/solutions
  - Unique solution for problem
  - Easy for document reader to select relevant spec
- **802**
  - Substantially different from other IEEE 802 standards
  - One unique solution per problem (not two solutions to a problem)
  - Easy for the document reader to select the relevant specification
- **Slight difference in first requirement**
  - Other than that, requirements match

# Technical Feasibility

- **802.3**
  - Demonstrated Feasibility
  - Proven Technology
  - Confidence in Reliability
- **802**
  - Demonstrated system feasibility
  - Proven technology, reasonable testing
  - Confidence in reliability
- **The requirements match**



# Economic Feasibility

- **802.3**
  - Cost factors known, reliable data
  - Reasonable cost for performance expected
  - Total installation costs considered
- **802.3**
  - Known cost factors, reliable data
  - Reasonable cost for performance
  - Consideration of installation costs
- **The requirements match**



# PAR Feedback

- **Howard Frazier**

- **Scope:**

- Specify a Physical Layer (PHY) for operation at 10 Gb/s on **horizontal** structured copper cabling, using the existing Media Access Controller, and with extensions to the appropriate physical layer management parameters, of IEEE Std 802.3.

- **Geoff Thompson**

- **Scope**

- Specify a Physical Layer (PHY) for operation at 10 Gb/s on **standards based** structured copper cabling, using the existing Media Access Controller, and with extensions to the appropriate physical layer management parameters, of IEEE Std 802.3.

- **Tony Jeffree**

- **Scope**

- The Scope as written simply states that you're going to add a copper phy, without indicating the speed. Probably ought to.

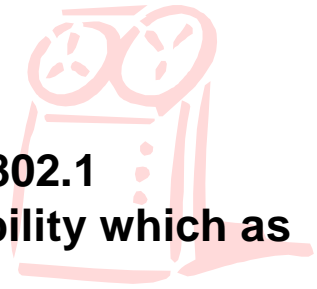
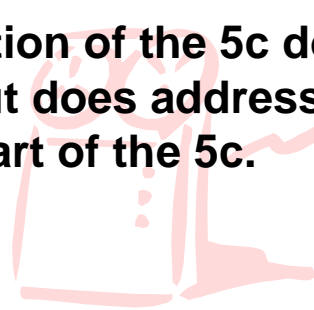
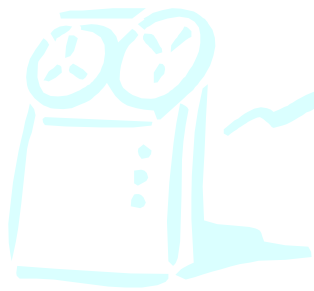


# 5 Criteria Feedback

- **Howard Frazier**
  - Use 802's 5 Criteria instead of 802.3's
  - **Broad Market Potential**
    - Need to address “balanced cost”
  - **Compatibility**
    - Address compatibility with 802.1D
  - **Technical Feasibility**
    - Would like to see a commitment to demonstrate technical feasibility with physical implementations during WG ballot
- **David Koenen**
  - **Technical Feasibility, 4<sup>th</sup> section, change to read:**
    - The study group acknowledges that 10Gb/s operation on Class D and Class E cabling is achievable, but at lengths less than 100 meters. Augmentation of their specifications is required to higher frequencies for performance parameters such as insertion loss and the addition of alien crosstalk characterization. The study group also agrees that the 10Gb/s operation is achievable on Class F cabling at 100 meters without modification.

# 5 Criteria Feedback (cont.)

- **Tony Jeffree**
  - **Compatibility**
    - **The compatibility section of the 5c doesn't address 802.1 compatibility at all, but does address 802.2 compatibility which as far as I can tell isn't part of the 5c.**



# SG Task

- **Determine how to handle feedback**
  - Accept a proposed wording
  - Craft our own wording
  - Reject the feedback
- **For any feedback accepted**
  - Require a motion on Thursday to adopt the new wording
  - Roll the new wording into PAR or 5 Criteria
    - Highlight the changes
  - Present changes to 802.3 and 802 SEC

