

# 802.1aj terminology for link status propagation

John Messenger, November 2007

# Understanding the terminology

- ▶ 802.1aj draft 2.2 uses several terms to decompose the link status notification process
  - ▶ MAC status
    - ▶ notification (3, 23.1, 23.3, 23.4, 23.6, 23.7, 23.9, 23.10)
    - ▶ propagation (3, **23**, 23.1, 23.3, 23.5, 23.6, 23.7, 23.9, K)
  - ▶ Link status
    - ▶ notification (3, 23.1, 23.3, 23.4, 23.5, 23.6, 23.7, 23.9, 23.10)
    - ▶ propagation (23.6) – thought to be a typo for “LAN...”
    - ▶ propagation protocol (23.6) – thought to be a typo for “LAN...”
  - ▶ LAN status propagation
    - ▶ protocol (4, 23.6, 23.8, 23.19)
    - ▶ PDU (4, 23.19)
    - ▶ entity (4, 5.14, 12.17, 23.5)
    - ▶ configuration (12.17.4)
    - ▶ parameters (12.17.4)
    - ▶ table (17)
- ▶ These terms can be confusing to the reader (they were to me!)
  - ▶ Are these terms used consistently in the draft?
  - ▶ Is it necessary to clarify the terminology?
  - ▶ Could the definitions be usefully expanded?

“Link status propagation” has been removed from Mick’s new clause 23.

“LAN status propagation” has been removed from Mick’s new clause 23.



# Notification versus Propagation

- ▶ These terms are described in 23.3
- ▶ Notification
  - ▶ Local signalling across a single link segment
    - ▶ From a bridge to an adjacent bridge
- ▶ Propagation
  - ▶ Signalling through one or more relays
    - ▶ Through a single bridge
    - ▶ Or through several bridges
  - ▶ Requires an active protocol entity in each bridge (the LAN status propagation entity)



# Types of Notification

- ▶ Also described in 23.3
- ▶ MAC status notification
  - ▶ Signalling LinkStatusOfTheOtherPort by forcing MAC\_Operational down
  - ▶ Disruptive to management and OAM
- ▶ Link status notification
  - ▶ Signalling LinkStatusOfTheOtherPort by using a (frame-based) protocol
  - ▶ Allows management and OAM to continue



# Types of Propagation

- ▶ The LAN status propagation entity
  - ▶ Performs MAC status propagation (see 3.5 and end of 23.3)
  - ▶ Uses both MAC- and Link- status notification to do so
- ▶ I am not sure that there is a need for both these terms:
  - ▶ MAC status propagation
  - ▶ LAN status propagation (used but not defined)
  - ▶ Would significant meaning be lost by eliminating one of these terms?
  - ▶ **MAC status propagation is the exclusive term in Mick's new clause 23.**
- ▶ The term "link status propagation" is only used twice (23.6)
  - ▶ Once in "link status propagation protocol" which is a typo for "LAN..."
  - ▶ Once in a context where LAN status propagation would be better
  - ▶ I suggest this term is removed.
    - ▶ **(Removed in Mick's new clause 23)**



Thank You

ADVANCE

JMessenger@advaoptical.com

