

802.1CQ Proposed Objectives

- Assign addresses that are locally unique
- Provide for duplicate detection
- Support both peer-to-peer address acquisition and address server
 - Provide seamless use of by an end node of either
 - E.g. end node sends a claiming packet, server sees it and responds offering address
- Allow for acquiring multiple addresses
- Allow for edge bridge / access point proxy for edge port to
 - Provide faster address assignment
 - Responding for low power sleeping device
 - Reduce flooding from device before address assignment

Possible additional objectives

- Objectives about time to get addresses?
 - For a device connected to a switch or access point that distributes addresses – low ms
 - For server – 10s of ms
 - For peer-to-peer – 100s of ms to low seconds
- Load from the protocol
 - % of the network
 - Load to an end device – packets per second
- Security/authentication?