# Project Proposal for an MSTP-MIB

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# MSTP MIB Contributions

Current documents available in docs2004

- ruzin-mstp-mib-00
- malhotra-mstpmib-01
- frattura-mstp-mib-0411.txt

http://www.ieee802.org/1/files/public/docs2004

# Questions

- Is this an amendment to 802.1Q-Rev?
  - Yes
- Is it a standard (‘must’) or recommended practice (‘shall’)
- Do we have a committed editor?
- Do we still need to create an RFC?

# Potential Deliverables

- PAR and 5 Criteria to start a project
- ASCII MIB
- Framemaker amendment document (i.e. the standard we will actually ballot on)
  - Updated portions of base document
  - Management object cross reference table
  - MIB
  - Security considerations and other typical IETF boilerplate
- Submission to IETF?

# Scope

- To define an SMIv2 (IETF STD 58) MIB module for Std IEEE 802.1Q Multiple Spanning Trees.  If necessary update any associated Std IEEE 802.1Q management variables.

ptc1

**ptc1** And any necessary updates to 802.1Q to represent the management variables

Paul Congdon, 11/15/2004

# Purpose

- SMIv2 (IETF STD 58) MIB modules access via SNMPv3 (IETF STD 62) are a standard method of managing IEEE 802.1 bridge functionality. However, there is no standardization effort in place to define a MIB module for Std IEEE 802.1Q Multiple Spanning Trees. This amendment will specify such a MIB module.

# Reason

- TBD

# 5 Criteria

1. Broad Market Potential

   This project will enhance the manageability of all 802.1 bridges supporting Std IEEE 802.1Q. Std IEEE 802.1Q is the accepted standard for operating multiple spanning trees on a LAN of VLAN bridges.

2. Compatibility

   This project will define a MIB module in compliance with IETF STD 58. The definition of the managed objects shall be compatible with existing management standards.

# 5 Criteria (cont)

3. Distinct Identity

   There are no other IEEE projects with the same scope and purpose. The IETF Bridge Working Group is no longer accepting new work items and has requested that IEEE 802 take on this work item.

4. Technical Feasibility

   A number of vendor specific proprietary MIB modules exist today which are shipping commercially. A number of non-commercial MIB modules have also been developed. The proposed MIB module will be modeled after these existing, proven solutions.

# 5 Criteria (cont)

5. Economic Feasibility

   SMIv2 MIB modules are widely deployed today. Experience has shown that implementing SMIv2 MIB modules does not incur any significant incremental costs.