
Topic / Issue: Spanning Tree and VLAN

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Virtual LAN and Spanning Tree Algorithm

SPANNING TREE ALGORITHM

The Spanning tree function is available for some switches and bridges. It is a software algorithm that has the ability to enable backup loops between switches(in the case of either cable or port failure). It also provides fault tolerance from incorrect wiring (usually within large LANs) ,which can result in multiple paths tying up a network with endless loops. The Switches continually exchange routing tables between each other, updating the best path to individual locations. Note :Spanning Tree is only effective if all switches support this protocol.

VLAN

Vlan offers the ability to group users and stations together into logical Workgroups. It provides segmentation and security for uses and equipment that can be lost by the introduction of Switching. Vlans enhance Switching by controlling broadcast between various Vlan groups and the aggregation of these broadcasts across the backbone. increases security.

Summary:
(If required)