



# Design Verification Test for Multi-Layer Switching Router

Design Verification Test for Layer 2 to Layer 7 Multi Layer router and switch

**Device Under Test:**

DUT is a multi layer switch with 24 –10/100 ports and 2 GIG ports with support for today's industry standards and most requested features, including:

- 802.1Q VLANs
- Spanning Tree
- GVRP/GMRP
- IGMP Snooping
- IP Permit lists
- DiffServ
- RIPv.1
- RIPv.2
- OSPF

The DUT also has the capability to automatically distinguish and classify mission-critical traffic such as Voice Over IP, ERP, CRM, video conferencing, and security applications by offering user-defined filtering, forwarding, and handling of packets from Layer 2-7 within a frame.

**Task:**

Complete Design Verification Test including development of test strategies, test scenarios, test plans. All the test plans were developed in-house referring to IEEE standard and RFCs.

The DVT were conducted for alpha, beta and for FCS.

**Result:**

Layer 2	No. Of Test Case
VLAN	128
Switching	224
Layer 3	
Multicast support	210
Routing Protocol	392
IP Routing	148
Security	
Expert Policies	284
Packet Policies	277
Security	103

