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ABU DHABI AIRPORT COMPANY

CASE STUDY

COMPUTER & POWER TECHNOLOGY

SUMMARY & CHALLENGE:

ADAC decides to build new converged network infrastructure that combines all the above three separate physical networks in one IP/MPLS network and utilize IP/MPLS VPN concept to grantee logical separate between traffic flows, IP/MPLS VPN application grantee the separation and isolation between different VPNs utilizing the same network nodes by adding the virtualization concept.

BENEFITS:

The IP/MPLS provides extra benefits over the current legacy network implementation in means of advanced Quality of Service (QoS), Multicasting (MC), Traffic Engineering (MPLS-TE), Inter VPN communication over the same network by means of Overlapping VPN, Inter VPN communication over different MPLS Autonomous Systems by means of Inter-AS VPN, and extra more features.

IMPLEMENTATION:

MDS Proposed a Network design to separate ADAC network into three parts, as per the typical enterprise design, Core, Edge and Access layers. The ADAC core network is based on the Juniper MX960 routers as P and PE devices.

MDS implemented a L2/L3 MPLS VPN network for ADAC as the first phase of network enhancements, using Juniper MX960 devices.

ADAC – Operating since 1982, Abu Dhabi International Airport is the second largest airport in the United Arab Emirates. It serves as the base and hub airport for Etihad Airways, the fast-growing national flag carrier of the United Arab Emirates, owned by the Government of Abu Dhabi.