

# CORAL - NGX



## IFIS - IVDX

NEXT GENERATION IP BASED SOLUTIONS



## NGX — THE NEXT GENERATION SWITCHING PLATFORM

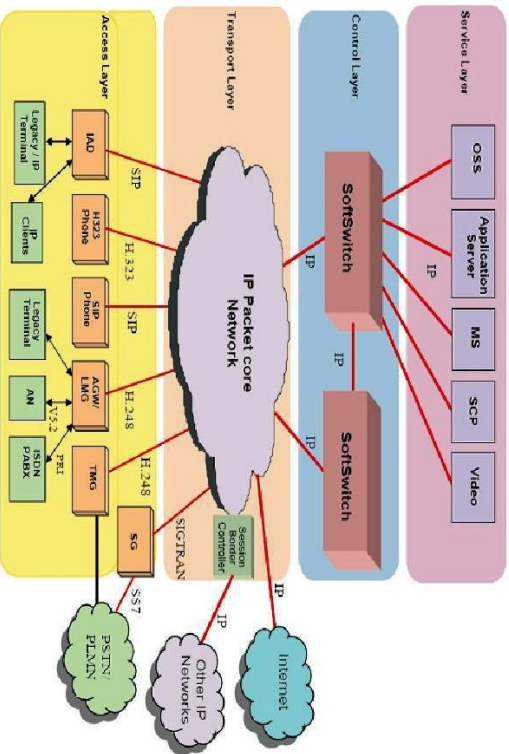
Exponential growth of broadband internet access all around the world has spawned a number of useful and innovative web based applications. Ubiquitous IP highways provide converged solutions for most of these applications which are moving towards voice, video and data. Internet proliferation is changing the global telecom landscape, which requires modern telecommunication systems, to seamlessly integrate with internet highways and provide converged solutions.

The traditional voice switching is migrating to SIP switching that supports Voice over IP (VoIP) offers many advantages for its user and the list of advantages is increasing over the past few years. VoIP creates savings in multiple ways by allowing routing of calls between company sites over the data network, reducing and simplifying office wiring, enabling unified messaging and providing remote access to the office resources for traveling staff.

Providing innovative telecom solutions has been the hallmark of Coral Telecom. With a rich experience in the field of telecom, Coral's products provide cutting edge technology to the customer in a cost effective manner. The RIS-VDX switch is one such technological innovation from the Coral stable, which has been designed to meet the exacting demands of the growing converged switch market. The RIS-VDX is a hybrid switch which provides support for both traditional Time Division Multiplexing (TDM) and VoIP. The switch is capable of handling media and data services over any type of interfaces such as LAN or ATM. Being a hybrid switch, the RIS-VDX offers the same set of capabilities to both TDM & IP end-points. It also enables a smooth transition from TDM to VoIP. RIS-VDX is a bold step towards integrating Coral Telecom on the Next Generation Network (NGN) solutions.

### RIS-NEXT GENERATION NETWORK - (NGN) ROADMAP

The RIS-VDX platform can be used to build a next generation network (NGN), as defined by the International Telecommunication Union (ITU) in its recommendation Y2001. The NGN is a packet network able to provide services and make use of multiple broadband, QoS-enabled transport technologies in which service-related functions are independent from underlying transport technologies. The open architecture of RIS-VDX platform makes it an ideal solution for building a flexible and scalable next generation network.



AGW: Access Gateway, AN: Access Network, IAD: Integrated Access Gateway, LMS: Media Gateway Controller, MS: Media Server, SCS: Signaling Gateway, OSS: Operations Support System, SCP: Service Control Point, TMSN: TMSN Media Gateway.



### SUPERIOR DESIGN

The RIS-VDX is a highly scalable solution based on the concept of software communication server platform that provides multimedia call processing. This rich call-handling application delivers world-class business telephony features for medium and large sized companies. The system, based on a fully distributed architecture not only allows faster processing but also optimum utilization of main CPU time. The RIS-VDX is based on Linux and incorporates several latest technologies. It also offers several open standard interfaces like SIG, H.323, SIP and CSTA which can be used for various networking applications. A highly reliable platform, the RIS-VDX offers broad scalability of upto million users who can be spread across multiple geographical sites.

### ARCHITECTURAL FLEXIBILITY

The RIS-VDX can function in and support a hybrid network with traditional digital/analog switching, IP/TDM/IP switching and pure peer-to-peer IP switching. The flexible architecture allows migration to 100% IP Telephony immediately in a phased manner. RIS-VDX may support traditional circuit-switched telephony (Time Division Multiplexed) on both the trunk and line side initially and enables a smooth migration to pure IP telephony at customer's own pace.

### INTELLIGENT NETWORKING

The RIS-VDX offers intelligent networking which delivers consistent communication system features, services and applications over any media or transport to all users across the enterprise, regardless of their location. RIS-VDX liberally supports multilocation distributed processing architecture with anywhere switching. It supports real time data base mirroring. The networking feature allows the RIS-VDX to be connected to or operated via the public or private network. Standard protocols such as QSIG and SIP and open interfaces like CSTA are employed to enable the efficient and economical operation of communication networks.

The RIS-VDX has powerful Least Cost Routing (LCR) algorithms, which deliver route efficiency and cost savings by intelligently routing calls in accordance with business policies. The policies can be based on route availability, cost, connection voice quality, user class of service and calendar. The LCR can also be used for implementing a traffic load balancing for multi-site applications.