



*Innovation Knowledge Technology*

**Making a Difference to the Networks Worldwide .....**

**LARGE CYBER PARK CAMPUS IN MAURITIUS**

**Background:**

Mauritius is developing in to an IT Hub for French Language BPO and Call centre requirements.

Government of Mauritius is developing a 153 acres Campus called Ebene Cyber City. The Campus is planned State of the Art IT infrastructure to support more than 75 large enterprises with a mix of built out facilities and Plots. The facilities are well optimized for Disaster Recovery, Business Continuity for the Indian Sub-continent also. The facilities come with Plug and play architectures for a Enterprise to go live in very short time frames.

The requirements were to conceptualize design and develop a unified campus Network and Communication Infrastructure for 153 acres area Campus to deliver present generation and next generation IT and Communication Services to all the enterprises in the Cyber City.

Services covered:

- ✦ Campus LAN supporting Gigabit speed
- ✦ International dedicated links from 2 MBPS to 155 MBPS
- ✦ Telephony Services
- ✦ DSL Services
- ✦ Network Operation Centre for managing the Cyber City Infrastructure
- ✦ Network Security complying to BS 7799 Standards

**Solutions:**

InKnowTech conceptualized and developed solutions consisting of:

- ✦ Campus Network Backbone with dual ring and mesh architecture for high availability and self healing capabilities with a combination of Fiber and Copper
- ✦ Gigabyte speed IT infrastructure was designed based on Layer 2/3 LAN Switching Fabric
- ✦ Passive Optical Network Access Solution (PONS) specified to deliver Multi Services Platform for each customer. The PONS System was specified to deliver 622MBPS per User and service support of Giga Bit Internet, Plain Bandwidth, Telephone lines and Video using a Set Top box at customer site.



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- ✦ A State of art Network Operations Center of 4000 Sqft with top line Management Service tools to provide complete Network Management Capability up the edge.
- ✦ Security Management System was developed to comply with BS 7799.

**Technology Challenges:**

Campus design needed to manage Service provider requirements as well as enterprise networking requirements which presented the following challenges:

- ✦ Highly scalable approach to start with minimum investment but the design and architecture to support the full growth of the campus
- ✦ Unified infrastructure designed to carry all types of services (Voice, Video and Data)
- ✦ Plug and Play design to bring customers online in shortest time frames
- ✦ Create multiple levels of security mechanism to support Service Provider and Enterprise businesses of the Cyber Park
- ✦ Usage of first time technologies and architectures such as Passive Optics Network along with conventional routing and switching fabric for a strong and scalable carrier network

