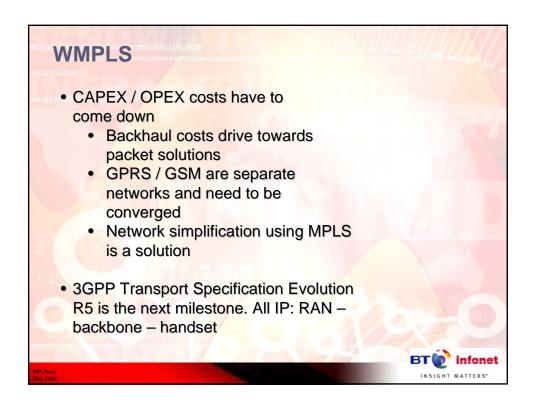
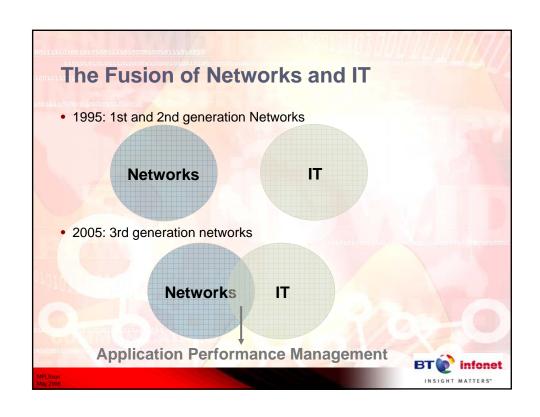
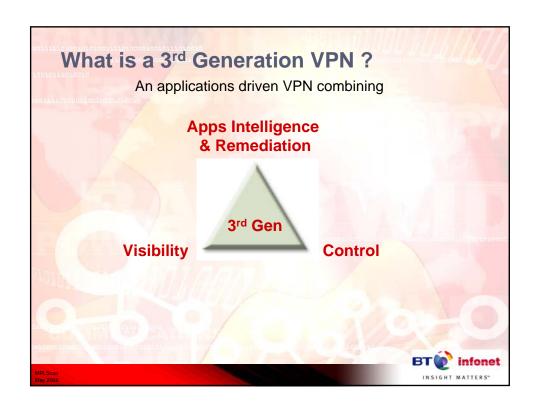


## Protocol standards are still evolving Success dependent on interworking at control plane End to end QoS through dissimilar networks Dataplane interworking, i.e. frames vs cells GMPLS has been quiet this year









## **Approaching Application Performance Management**

- A separate Application Management layer
  - Carrier supplied Equant SNAP; BT AAI
  - Do it yourself Shelf ware?
  - No integration with the VPN
- An integrated service into the IP VPN
  - No finger pointing
  - Application level SLA inclusive of the network parameters
  - Fully managed
  - Combined Network and Application Reporting, Monitoring and Control
  - BT Infonet Application Centric VPN
- Architectural approaches
  - Box shaping traffic at egress/ingress: Fire and Forget
  - System Approach: Air traffic Control with real time Remediation



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## MPLS 3rd Generation VPNs

- Application Intelligence and Remediation
  - Recognise applications
  - Monitor application performance
  - Set application business performance objectives
  - Modify performance based on holistic view of network
  - Compress traffic intelligently
  - Accelerate traffic intelligently





