

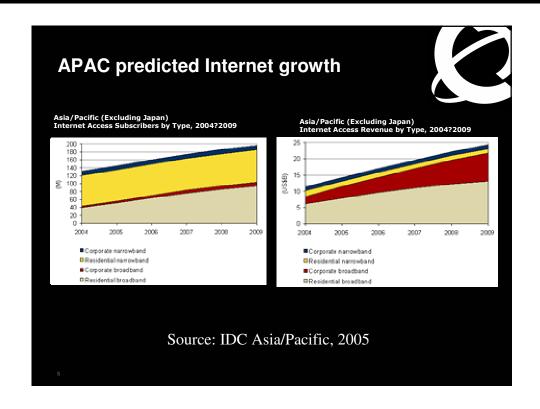
Internet Pioneers

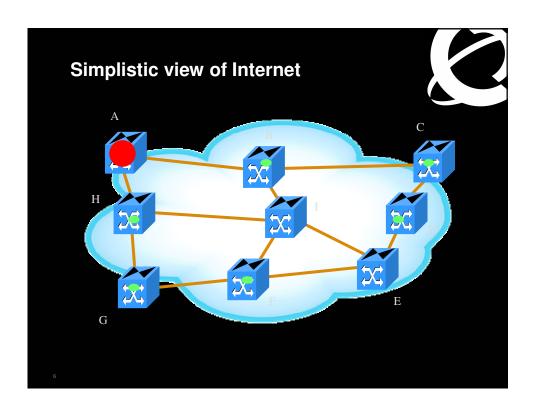


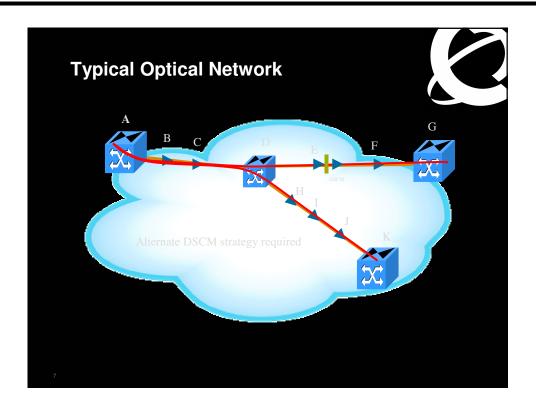
"Internet2 is focused on enabling leading-edge network capabilities for the U.S. research and education community and working in close collaboration with our international partners such as SURFnet," said Steve Corbató, Internet2 director of network initiatives

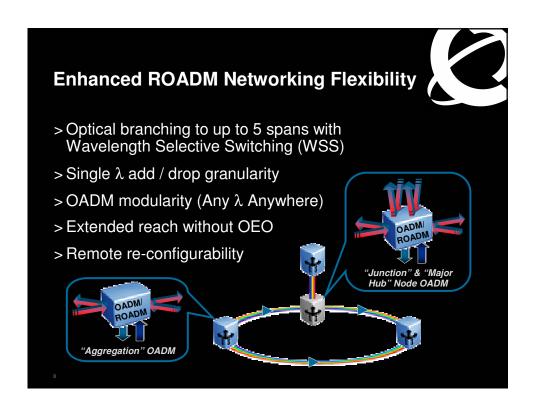
CA*net 4 embodies the concept of a "customer-empowered network" which will place dynamic allocation of network resources in the hands of end users and permit a much greater ability for users to innovate in the development of network-based applications.

"We're pleased to be working with world-leading research network operators such as SURFnet and Internet2 to pioneer new network architectures that better support data-intensive research applications," said Philippe Morin, general manager, Optical Networks, Nortel.









Next Generation modulation Nortel's eDCO Dispersion Limit Solution



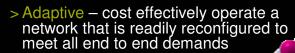


- > What are electronic Dynamically Compensating Optics?
 - Optical interfaces which automatically compensate dispersion on a per wavelength basis and enable agility and wavelength re-route
- > Elimination of bulk optical dispersion compensators (DSCMs) and their associated cost and loss
- > Per wavelength real-time performance optimization
- > Compensation support for mixed fiber type applications
- >600 km (regional) and 2000 km (long haul) reach options with enhanced Forward Error Correction (FEC)

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Nortel's Evolving Photonic Solution

Evolution to Adaptive All Optical Intelligent Networking

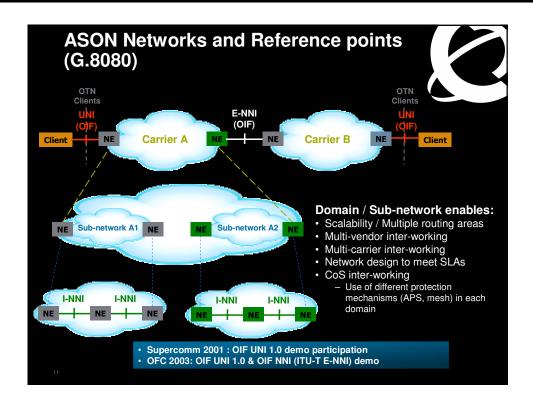


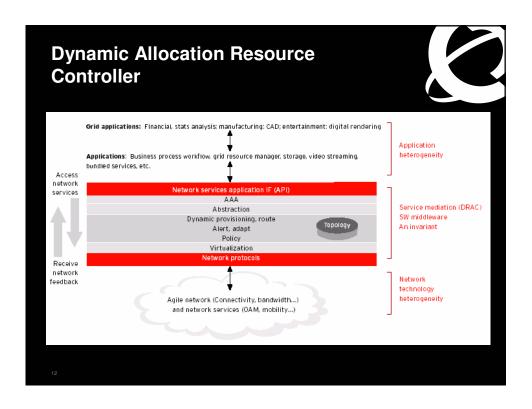


- Intelligent continuously optimize as network paths change and services are provisioned on demand
- Scalable carry increasing amounts of data and services flexibly while minimizing the operations complexity

of

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Hybrid Optical Internet

The Hybrid Optical and Packet Infrastructure (HOPI) project is examining a hybrid of packet and circuit switched infrastructures and how to combine them into a coherent and scalable architecture for next generation networks. Source – Internet 2 website

As part of the Dutch GigaPort Next Generation Network project, SURFnet is building a hybrid optical and packet switching infrastructure using the latest optical technology from Nortel.

Nortel's highly-integrated solution delivers both $\underline{\mathbb{IP}}$ and optical broadband services over an extremely resilient common infrastructure, on top of SURFnet's own dark fibers, that is suited for and efficient for all traffic types.

With unprecedented levels of intelligence, the hybrid network will use the unique blend of IPv4, IPv6 and optical technology that is best suited for each particular application, thus dynamically allocating the IP and optical bandwidth.

Source - SURFnet website

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