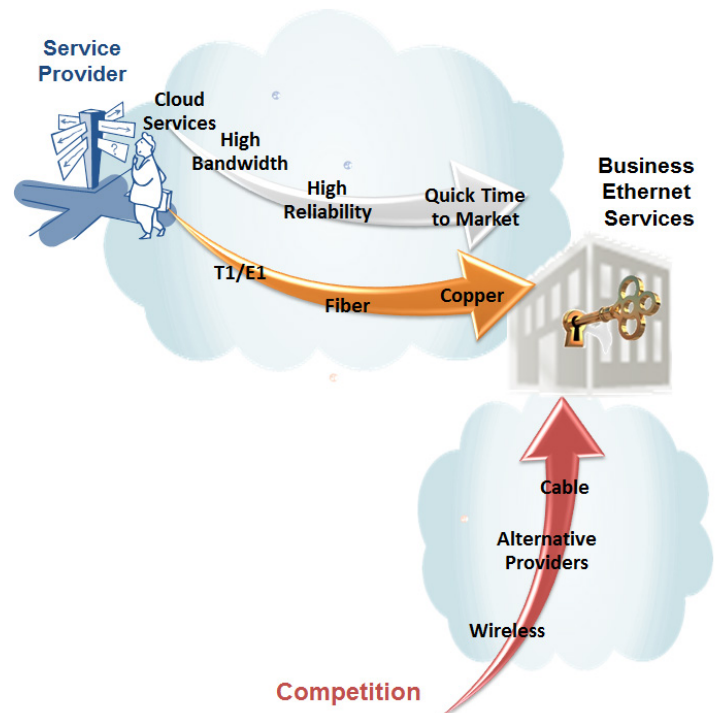


VDSL2 Is Expanding Business Ethernet Services

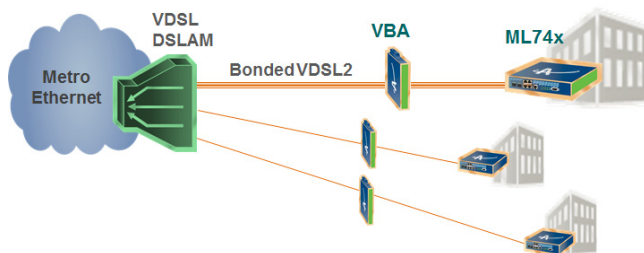
The Service Provider Challenge

Cloud computing, virtualization, and video applications are significantly boosting Small to Medium Business (SMBs) bandwidth requirements. Competition is targeting SMBs. But Service Providers cannot reach the majority of SMBs cost effectively with fiber. They are seeking innovative solutions that can address these emerging service requirements, operationally “snap in” to existing legacy networks, to provide very high reliable bandwidth as well as complete market coverage with the lowest total cost of ownership.



The Solution – A complete tool box - Fiber, Bonded VDSL2/G.shdsl copper solutions

DSL technologies have evolved to enable carriers to progress to very high-speed broadband services utilizing VDSL2. Additional requirements for extended rate and reach are supported by enhancements such as pair bonding and vectoring. VDSL2 has proven to be a resilient and increasingly powerful vehicle, allowing carriers to expand their offering beyond the residential market also to SMBs, delivering even higher bandwidth, carrier class Ethernet services over existing copper access lines. With a combination of fiber and bonded copper Service Providers can offer advanced MEF services as media agnostic business Ethernet services cost effectively over fiber, bonded VDSL2 and G.shdsl.



Business Services over Bonded VDSL2

The Benefits

- Expand Ethernet service delivery and reach more customers cost effectively** - utilize VDSL2 over existing copper network to reach SMBs that are beyond the fiber footprint
- Faster time to service**—provide an immediate solution utilizing existing copper network with no need to trench fiber
- Scalable, high bandwidth Ethernet service over copper** – More than 100Mbps for advanced high revenue applications including voice, data, and video
- High reliability and resiliency over copper** - Advanced mechanisms to mitigate cross talk and changes in the noise environment, ensuring high service availability
- Higher revenues with advanced SLAs** - Flexible mapping and Classification, Multiple CoS, Multiple QoS, Advanced Traffic Management (MEF compliant)
- Comprehensive OAM** - Service, Connectivity, and Link OAM for advanced trouble shooting and Guaranteed SLA
- Flexible Deployment - Cost effective, high density hardened solution** - can be deployed from CO, remote terminal, or cabinet