



viprinet®

Never be offline again.


Broadband Technology Event

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Part I:
WAN-Connectivity =
Lots of worries

Fear the digger!

WAN outages can be a long-lasting pain

- Downtimes will halt your network-based business processes
- Service Level Agreements do not help against diggers
- Backup-lines (same media/ISP) often are affected as well



No DSL – no future

Without broadband, many regions will fall behind

- Broadband coverage is expanding slowly
- Several white spots on European DSL-maps
- Many sites receive „DSL light“ only
- Connections available often do not fit the needed bandwidth-profile



Security vs. Flexibility

Carrier-based secured WAN connectivity locks you in

- Traffic is at risk on consumer networks like DSL
- Integrated solutions like MPLS are tied to a single ISP and not always available at all required sites
- Long-term contracts are inflexible



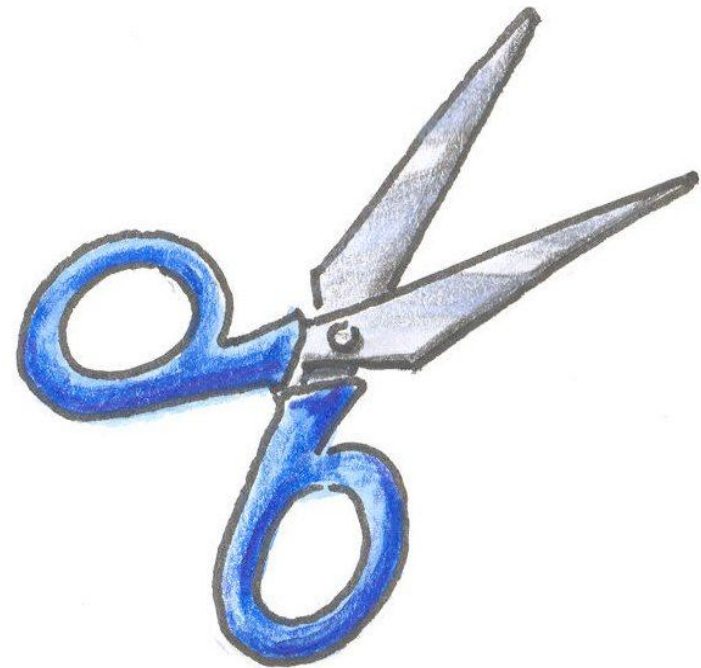
The Broadband Gap

Home users are better off than enterprises

- Lots of bandwidth available in cheap consumer offerings, but DSL, UMTS/3G and Cable are too unreliable for business usage, Business offerings often are years behind and prohibitively priced
- A growing number of business applications need reliable connections



Let's get the best of both worlds





Part II: Viprinet – a new approach

Innovation made in Germany

The Multichannel VPN Router

- Real aggregation of all connected line bandwidths
- Combination of multiple access media and ISPs
- VPNs with 256Bit SSL/AES per channel



Innovation made in Germany

The Multichannel VPN Router

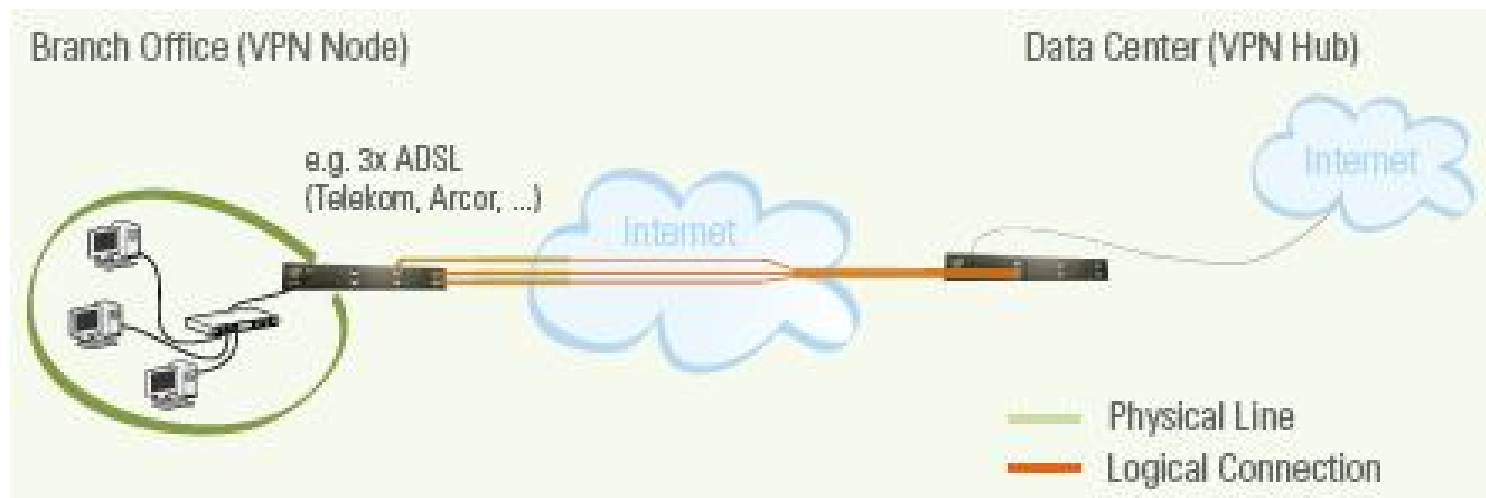
- Modular setup: Integrated modems for various access media (ADSL, UMTS, Ethernet, ISDN...)
- Hot-plugging: Change WAN lines and modems without any downtime



The Viprinet Principle

A unique IP bonding technique

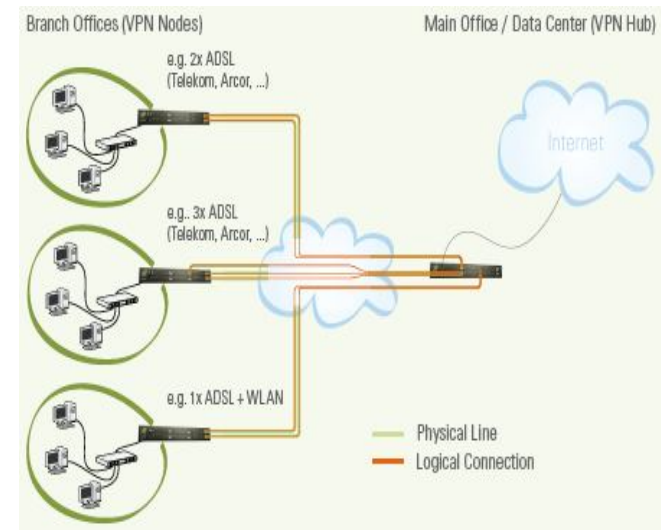
- Distributing the outage risk to multiple media and ISPs
- Doing this by bundling VPN tunnels set up



Viprinet: VPNs on steroids

Highest security with multiplied bandwidth

- Encrypted VPN tunnels to a central VPN Hub are established through each available WAN channels
- These VPN tunnels are bonded, tunnel traffic is spread across all channels
- Remote station (VPN Hub) required: Traffic is decrypted and routed here



Better than WAN Load

Why load distribution just doesn't cut it

Balancing

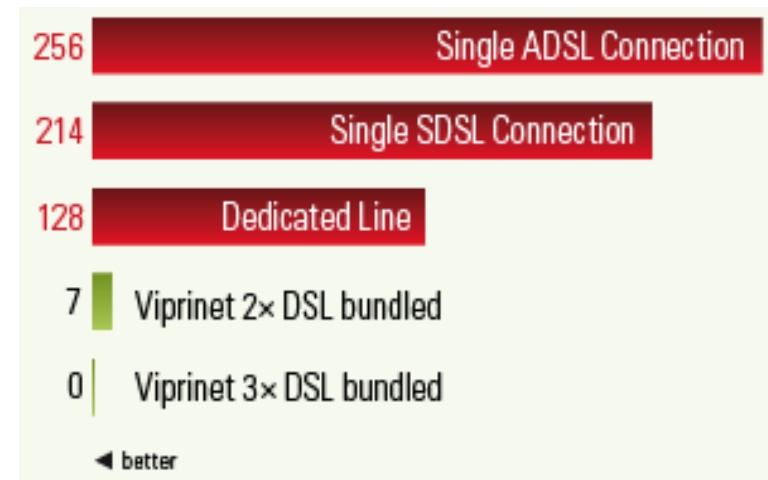
- Each line has a different IP address and requires outbound NAT
- Connections using the line (and its IP) will break if the line goes down, and must be re-established on a non-faulty line afterwards
- Incoming connections can not be properly balanced
- A single connection can only use the bandwidth of a single line
- Neither fixed IP-addresses nor routing




Math beats any SLA

The new way to high availability

- Different access media have a low risk of going down simultaneously
- Reliability increases exponentially by the number of added lines/ISPs
- While competing technologies commonly offer up less than 98% uptime, this one will allow for 99,9% or more





Part III: Usage scenarios

Application: VPN Site Link

Integrate multiple sites into a rock-solid, fast private network

- Any site world-wide may be integrated no matter the access technology
- Flexible integration of road warriors
- Highest compatibility with all ISPs, works even on filtered/NATted access networks
- Higher bandwidths and lower costs than MPLS



Application: Virtualization

Optimized even for the most demanding applications

- SaaS, cloud computing, thin clients and remote desktop solutions all are extremely sensitive even to the shortest outages and latency jitter
- Viprinet's integrated QoS will optimize application WAN traffic and match media channels to defined bandwidth/latency profiles



Application: Internet

Never be offline again. Everywhere

- Stable and fast Internet connection even in remote areas
- Bundle any available capacity until your desired WAN profile is reached – e.g. multiple UMTS/3G providers in areas without DSL coverage
- Mobile, M2M and broadcasting applications




Great Savings Potential

Business solutions based on consumer offers

- Lower monthly expenses: Benefit from competitively priced consumer products like DSL
- Flexibility: Always use the most favorable access offers for each site
- Significant savings in operating expenses compared to dedicated lines with SLAs and/or MPLS
- Central VPN Hub may be operated in own datacenter or leased from a VPN Hub





Thank you for
your attention