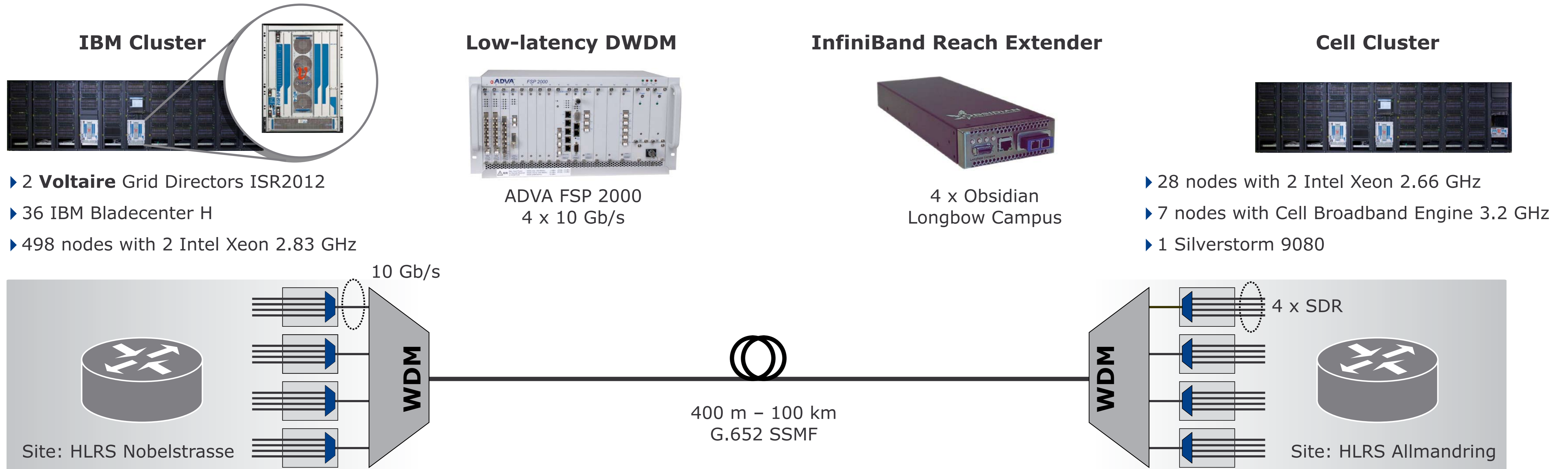


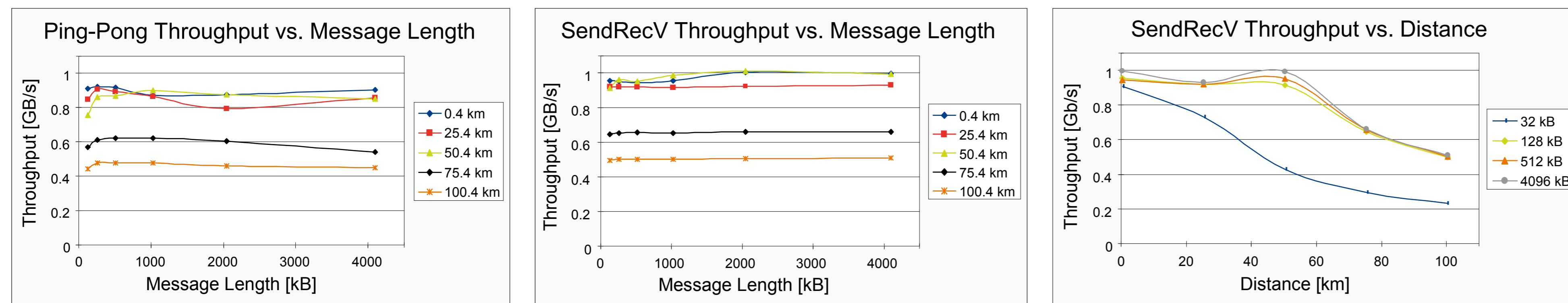
High-performance InfiniBand-over-WDM transport solution

Uli Schlegel, Dr. Klaus Grobe, Christian Illmer – ADVA AG Optical Networking, Munich

Measurement setup – InfiniBand transport interworking demonstrator at HLRS, Stuttgart



Measurement results – full InfiniBand throughput over more than 50 km distance



- ▶ We demonstrated for the first time InfiniBand-over-WDM transport in a working environment, based on commercially available systems
- ▶ ADVA Optical Networking – low-latency (100 ns) 10 Gb/s DWDM transport, Standard Single-Mode Fiber (ITU-T G.652 SSMF)
- ▶ HLRS (HPC Stuttgart) – HPC environment
- ▶ Obsidian Strategics – InfiniBand Reach Extender (credit buffering) for SDR IBx4 (840 ns)
- ▶ Voltaire – InfiniBand Grid Director with DDR IBx4 interfaces (420 ns)
- ▶ Intel MPI benchmarks (Ping-Pong, SendRecV)

