WIREZAP – SOFT MICRO HUB SOLUTION

for a Leading Provider of Precision Radiation Medicine

Service: Network Infrastructure

OVERVIEW

The client is a major Swedish company that provides radiation therapy, radiosurgery, related equipment, and clinical management for the treatment of cancer and brain disorders. Through precision radiation medicine, the company helps clinicians focus where it matters, empowering them to protect the moments that matter for their patients.

CHALLENGES

Achieving throughput, latency (nano second) and jitter (nano second) requirement while performing multiplexing and demultiplexing functionality

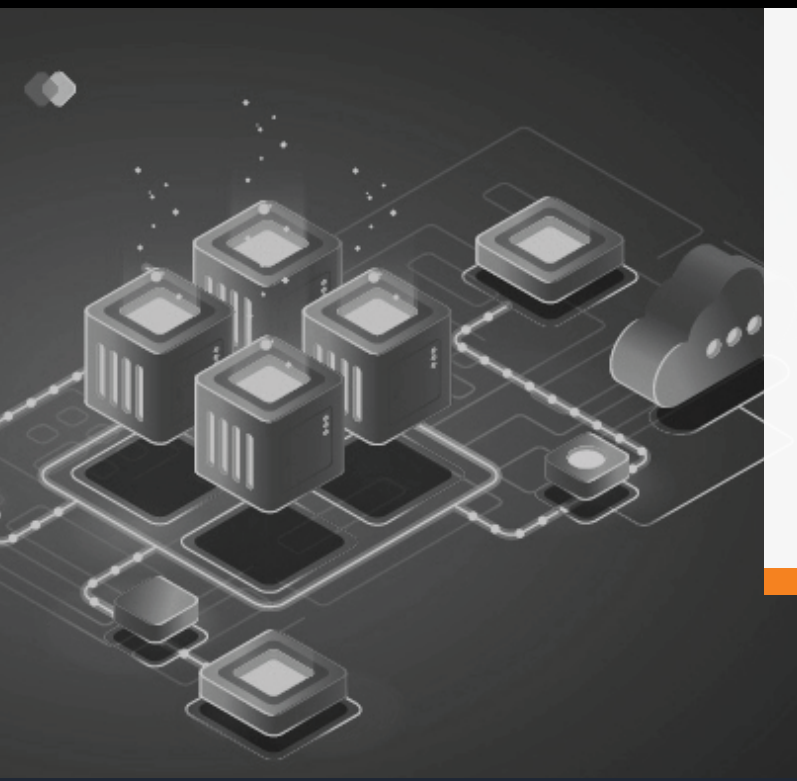
Too many cable connecting sources and destination end-points

Ethernet to optical multiplexer/demultiplexer device configuration to meet specific requirements

SOLUTION

ACL Digital offered WireZAP, a white-box multiplexer/demultiplexer software solution, which is low cost and carries out high-speed traffic multiplexing and demultiplexing.

1. For MUX Sub-System
   - Traffic received over multiple interfaces
   - Interfaces could be of different interface types and speeds
   - Traffic prioritization is based on received interface
2. For DE-MUX Sub-System
   - Traffic demux'ed back to the intended interface based on pre-defined logic



OUTCOMES

- Achieved nano-second latency and jitter requirement with high-speed white-box MUX-DEMUX solution
- Reduction in costs by deploying software-based solutions
- Customized solution to carry out high-speed traffic multiplexing and demultiplexing

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