

**8X** network I/O

bandwidth with SR-IOV on the same virtual VPN gateway solution on the same system with non-SR-IOV NICs.<sup>1</sup>

# IT@Intel: “Instant” VPN Scaling and Continuity During Crisis

When the COVID-19 pandemic struck, Intel’s global workforce of over 100,000 employees, along with contingent workers and ecosystem partners, began working remotely. Virtual private network (VPN) connections were needed for all workers, but Intel’s global VPN capacity was a fraction of what was required. We adapted and created the needed capacity with virtualized VPN gateways by fine-tuning off-the-shelf solutions based on Intel® architecture-based servers and Intel® Ethernet network adapters enabled with SR-IOV functionality. We were able to scale our virtual VPN gateways by 100 to 200 percent of the performance level seen in some dedicated hardware VPN gateway appliances.<sup>2</sup> The solution spotlights the capabilities of virtualized solutions, SR-IOV and multi-cloud strategies.

#### Products and Solutions

[2nd Gen Intel® Xeon® Scalable processors](#)  
[Intel® Ethernet 700 Series Network Adapters](#)

#### Industry

Semiconductors

#### Organization Size

10,001+

#### Country

United States

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