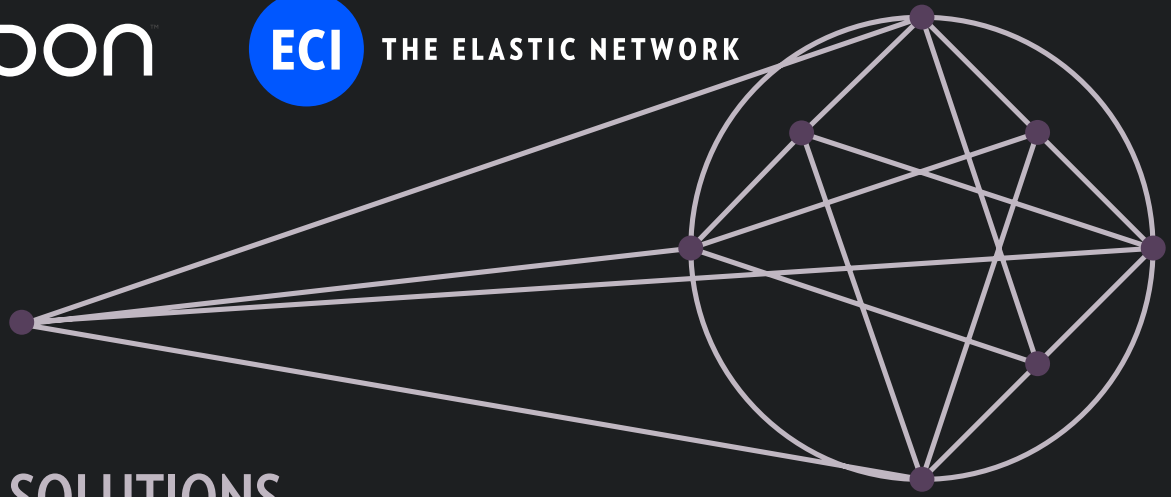




5G OPTIMIZED TRANSPORT SOLUTIONS

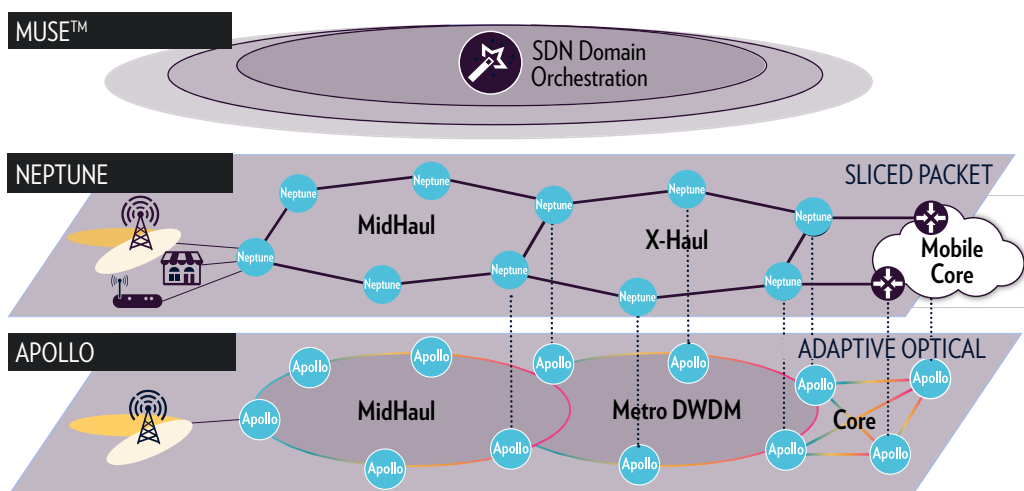


MAKING 5G SERVICES A REALITY

5G gives network operators the opportunity to introduce a vast array of new mobile services. While these begin with enhanced mobile broadband (eMBB) services, to achieve profitability, services like AR/VR, mission-critical applications, and IoT/IIoT will soon follow. A new transport network is required to support this new service portfolio. In addition to supporting increased bandwidth, connectivity, and throughput, the network must provide deterministic performance to meet service policies for vastly different services on a per-service basis. The network must also be able to provide configurable isolation between services where this is operationally required.

As a packet and optical transport specialist, ECI has developed an industry-leading, programmable, 5G transport solution, optimized for the secured delivery of all types of 5G services. The agility of ECI's transport solution and our intelligent operations ensure that the transport network is always optimized for delivering the service portfolio offerings. This may include connectivity and capacity required for enhanced mobile broadband, or the dynamic, deterministic flexibility, and isolation required by the more advanced service types.

- Dynamic, deterministic transport**
- Intelligent operations**
- Secured connectivity**
- Open interoperability**



ECI'S PROGRAMMABLE, SLICED, MULTILAYER TRANSPORT

YOUR CHALLENGES	OUR SOLUTIONS
<p>Dynamic, deterministic transport</p>	<p>Next-generation dynamic transport solutions that are deterministic enough to meet the policies and parameters required for all 5G service types, including:</p> <ul style="list-style-type: none"> Programmability: Enables 5G features as, and when required: Densification - With highly-compact hardware and new high-capacity 5G, 25G, and 100G interfaces. Advanced timing and synchronization - With support for ITU-T Classes C and D Precision Timing Protocol (PTP) standards. Hybrid slicing - Gives operators the flexibility to choose the right combination of hard and soft slicing technologies to guarantee that the transport network meets the policies and parameters defined for the delivery of each different service type: <ul style="list-style-type: none"> FlexE and OTN technologies are used to provide hard slicing, required to guarantee low latency, high reliability, and full isolation between services. Segment Routing, Enhanced VPN, and Multi-instance routing protocols provide the service infrastructure for both hard and soft slicing. Evolution of brownfield networks - Next generation 5G network provides converged support for 2G, 3G, 4G, and 5G mobile networks, as well as legacy fixed networks. Scalable and future proof - Allows the transport network to evolve flexibly as the 5G radio network grows, while expanding and supporting new service types.
<p>Intelligent operations</p>	<p>ECI provides intuitive operations with the Muse™ software suite providing:</p> <ul style="list-style-type: none"> Automation - With SDN, providing the dynamic control of virtual and physical network functions to allow allocation of capacity, connectivity, and compute, as required. Advanced Multilayer Optimization (MLO) - Ensures the network is kept at an optimal level of utilization and performance as the services it transports evolve. Network telemetry - Provides advanced assurance capabilities to ensure services are transported to meet the SLAs defined by their policies and parameters. Full lifecycle management - To operate and maintain the IP and Optical transport network and the slices configured across it in a simple way.
<p>Secured connectivity</p>	<p>ECI provides functionality to maintain service integrity across the 5G transport network:</p> <ul style="list-style-type: none"> Secured slices: Allow operators to select the level of security within a slice and the level of isolation between service types. Secured network: Providing both data encryption and platform security required to meet the newly-emerging security needs for 5G networks. Operational isolation: Allows operators to give their customers the ability to manage their “own” slices and services, while guaranteeing complete operational isolation between each operator/enterprise.
<p>Open interoperability</p>	<p>Supporting open, modular architectures:</p> <ul style="list-style-type: none"> Open ecosystem integration - Standards-based, field-proven interfaces allow seamless interoperation in the wider 5G, OSS, and BSS ecosystems. Disaggregated hardware architectures - Open, modular hardware allows the hardware capabilities to be disaggregated, as required. Cloud native software architectures - Allow easy integration with other microservices and 3rd party software modules.

Contact us to find out how our Elastic Services Platform can benefit your 5G build out

ABOUT RIBBON

Ribbon Communications (Nasdaq: RBBN), which recently merged with ECI Telecom Group, delivers global communications software and network solutions to service providers, enterprises and critical infrastructure sectors. We engage deeply with our customers, helping them modernize their networks for improved competitive positioning and business outcomes in today's smart, always-on and data-hungry world. Our innovative, end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, including core to edge IP solutions, UCaaS/ CPaaS cloud offers, leading-edge software security and analytics tools, as well as packet and optical networking leveraging ECI's Elastic Network technology. To learn more about Ribbon, visit rbbn.com and for more information about our packet and optical networking portfolio, visit www.ecitele.com.

