Secure, Modernized Turnkey Solutions for Tomorrow’s Defense Challenges

Defense networks require secure, reliable, high-bandwidth communications to provide the mission-critical infrastructure that underpins modern defense solutions. This exponential growth in bandwidth, together with cyber defense directives means defense forces and homeland security agencies need to modernize their communications network. Ribbon provides a converged, secure, communication network that integrates intelligent optical networking with agile packet transport to provide the real-time data required to facilitate this modernization.

**Secure, High Bandwidth**
- for mission-critical services

**Flexible, Future-Proof**
- multiservice with elastic reconfiguration

**Guaranteed Reliability**
- with advanced hardware and software

**Turnkey Fully-Integrated**
- end-to-end tailored solution
NGN Solutions for Defense Forces and Mission Critical Networks

Modern Defense Network Needs

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| **Secure, High Bandwidth** | **Scalable high-capacity packet and optical solutions:**  
  - Intelligent high-capacity CDC-F optical transport with OTN  
  - Optimized high-capacity multiservice packet transport.  
  **Tailored, holistic cybersecurity and network immunity:**  
  - Comprehensive cyber protection suite integrated into external SIEM/SoC  
  - Intrusion detection with machine learning analytics  
  - Encryption including the OAM channels  
  - Secure DCN protecting the sites and the data centers.                                                                                                                                                                                                                                                                                                                                                   |
| **Flexible, Future-Proof** | **Extensive multiservice with Elastic reconfiguration:**  
  - MPLS-TP for deterministic transport and advanced OAM  
  - IP/MPLS for dynamic L2 and L3 services  
  - Easy support of legacy networks and services.  
  **Unique features for scalability and expansion:**  
  - Pay-as-you-grow design, in-service expansion units, and in-service upgradable packet fabrics  
  - Embedded NFV allows easy addition of new functionality  
  - Just-in-time introduction of new services/resources  
  - Multilayer and multi-technology planning tool.                                                                                                                                                                                                                                                                                                                                               |
| **Guaranteed Reliability** | **Four levels of resilience provide ultra-high availability making it better than transport grade:**  
  - Equipment: Hardened fully-redundant network elements, meeting unique defense requirements  
  - Network: Optimized architectures and extensive protection schemes tailored to the needs of defense  
  - Management: Advanced software with intuitive operations, for rapid fault isolation, for increased availability, maximized utilization and improved efficiency  
  - System disaster recovery: Field-proven processes and procedures maintain network operation.                                                                                                                                                                                                                                                                                       |
| **Turnkey Solutions** | **Comprehensive end-to-end solution:**  
  - Easy integration for best-of-breed 3rd party equipment  
  - Single Network Management System  
  - Unique pre-integrated solutions  
  - Field implementation and support.  
  - Easy intervention for fast rollout  
  - Knowledge transfer for self-sustainability.                                                                                                                                                                                                                                                                                                                                                 |

About Ribbon

Ribbon Communications (Nasdaq: RBBN) delivers communications software, IP and optical networking solutions to service providers, enterprises and critical infrastructure sectors globally. 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 software-centric solutions, cloud-native offers, leading-edge security and analytics tools, along with IP and optical networking solutions for 5G. We maintain a keen focus on our commitments to Environmental, Social and Governance (ESG) matters, offering an annual Sustainability Report to our stakeholders. To learn more about Ribbon visit rbbn.com.

Contact us to learn more about Ribbon solutions.