



Solution Brief:

LightRiver Technologies

PRISM™ Solution





Executive Summary

In the rapidly evolving telecommunications industry, decision-makers require clear, real-time insights to manage complex optical networks effectively. PRISM™, an intelligent, user-friendly platform designed by LightRiver Technologies, serves as a comprehensive solution for visualizing, controlling, and optimizing multi-vendor, multi-generation networks. PRISM™ enables informed decision-making, accelerates service delivery, and enhances operational efficiency, all while significantly reducing costs and downtime.

Introduction

Modern telecom networks, supporting 5G, AI, and cloud-driven applications, demand robust management tools to handle multi-vendor complexity and ensure reliability. Network downtime costs enterprises an estimated \$5,600 per minute (Gartner), underscoring the need for actionable insights. PRISM™ addresses these challenges by providing an intuitive, real-time view of optical transport networks, empowering stakeholders to optimize performance and align operations with strategic goals.

The PRISM™ Solution

PRISM™ is a unified, intelligent platform for visualizing, controlling, and optimizing multi-vendor, multi-generation optical networks. It integrates real-time and historical data with advanced AI, offering tailored functionalities for various user profiles.

Key Platform Features:

- **Unify Multi-Vendor, Multi-Generation Networks:** Connects seamlessly to network management systems via TAPI and directly to network devices using netFLEX, enabling real-time, bi-directional data exchange for both legacy and next-generation networks.
- **Role-Specific Functionality:** PRISM™ is designed around user profiles, each containing specific functions, workflows, and use cases tailored to the needs of those roles.
- **Intelligence Layer:** Advanced AI capabilities provide predictive insights and automate network functions across all user profiles, enhancing decision-making and efficiency.

User Profile Features:

- **Executive:** High-level dashboards for strategic insights and KPI tracking.
- **Sales:** Capacity and availability insights tailored to customer-specific needs.
- **Planning:** Tools for effective network capacity planning and resource allocation.
- **Provisioning:** Service setup, configuration management, and automated provisioning workflows.
- **Operations:** Real-time monitoring and performance management.
- **Maintenance:** Maintenance schedules, alert management, and historical data analysis.

PRISM™ complements LightRiver's portfolio, including netFLEX™ for real-time inventory, Factory Built Networks® for rapid deployment, flexOPS™ for sustaining engineering, and nIO™ for inventory optimization, creating a cohesive network management ecosystem.

Benefits for Stakeholders

PRISM™ offers distinct advantages to key stakeholders such as cloud and service providers, data centers, utilities, and enterprises with complex optical networks.

- **Reduce Operational Costs:** Cuts operational expenses by automating workflows and minimizing manual interventions, resulting in a 15-25% cost reduction.
- **Identify and Utilize Spare Capacity:** Provides real-time insights to identify underutilized network capacity, enabling efficient use and better resource management.
- **Optimize Network Performance:** Enhances overall network performance through advanced monitoring, predictive analytics, and proactive issue resolution, reducing downtime and latency.
- **Improve Strategic Planning:** Supplies clear, actionable data to support capacity planning and strategic investments, ensuring future-proof network upgrades such as 400G/800G.
- **Streamline Maintenance Operations:** Simplifies maintenance scheduling and alert management, facilitating quicker response times and improved network reliability.

Case Study: Data Center Network Enhancement

A hyperscale data center operator struggled with capacity planning due to fragmented visibility across its multi-vendor optical network. LightRiver deployed PRISM™ to provide real-time insights into wavelength utilization and equipment status. PRISM™ identified 30% underutilized capacity, enabling faster provisioning of AI-driven interconnects. The operator reduced planning time by 50% and saved \$800,000 annually in operational costs.

Conclusion

PRISM™ revolutionizes network management by providing real-time insights through an intelligent, user-friendly platform. With advanced AI and tailored functionalities, it reduces costs, optimizes performance, and enhances strategic planning. PRISM™ simplifies the complexities of multi-vendor, multi-generation networks, empowering stakeholders to streamline operations and make informed decisions for future success.

Discover how PRISM™ can elevate your network operations.

Visit www.lightriver.com to schedule a demo or contact LightRiver Technologies at lrtsales@lightriver.com for a tailored consultation.

About LightRiver

LightRiver is the premier network productivity solutions provider focused on enabling client success in the dynamic world of connectivity. Backed by our industry award-winning Factory Built Networks®, netFLEX® automation, Prism Orchestration, nIO (inventory optimization) and flexOPS™ sustaining engineering solutions, we consult, commission, automate, and optimize multi-vendor, software-controlled and open DWDM, MPLS, IPoDWDM and Carrier Ethernet networks for those that need the highest capacity, reliability, resiliency, and manageability that technology can deliver.

LightRiver is a portfolio company of Grain Management, LLC, a leading global investment firm focused on the telecommunications sector. LightRiver's team of experts deliver real value, with 99999's quality and unparalleled customer care in packet optical networking, by accelerating client growth and profitability.