

Mphasis introduces Mphasis qCryptsec™ – Quantum Safe Cryptography and Mphasis QOptiDecision™ - Quantum enhanced optimization solutions for future-ready enterprise security and decision intelligence

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[Mphasis](#), (BSE: 526299; [NSE: MPHASIS](#)), an Information Technology (IT) solutions provider specializing in [cloud](#) and [cognitive](#) services, today announced the launch of two quantum technology-focused solutions:

- Mphasis qCryptsec™ for quantum-safe cryptography to strengthen enterprise resilience
 - **Mphasis qCryptsec**, the Quantum Cryptography solution, reduces risk from cybersecurity threats, regulatory non-compliance, and operational disruptions
- Mphasis QOptiDecision™ for quantum computing-enhanced decision intelligence in the quantum era
 - **Mphasis QOptiDecision** brings the power of hybrid quantum-classical and quantum-inspired computing to accelerate complex enterprise decisions with more accuracy.

Mphasis qCryptsec provides organizations with a clear roadmap to achieve quantum-safe security. The solution supports a structured transition from assessment to quantum-ready operations. It includes scanning tools to discover cryptographic assets, such as algorithms, keys, and certificates, of an enterprise, resulting in a cryptographic inventory -Cryptographic Bill of Materials (CBOM). It also provides a multi-layered defence against threats through post-quantum cryptographic (PQC) implementation and secure key transfer using Quantum Key Distribution (QKD).

Mphasis qCryptsec reduces risk by identifying vulnerable cryptographic assets, supports compliance, and prepares organizations for faster incident response and quantum readiness. This ensures comprehensive enterprise-wide coverage, seamless integration, full supply chain visibility, and actionable risk insights.

Mphasis QOptiDecision solution leverages hybrid quantum-classical and quantum-inspired optimization technologies to solve large-scale complex scheduling, routing and resource allocation challenges. Mphasis QOptiDecision delivers enhanced outcomes without impacting runtime. This approach uses adaptive parameter tuning to balance multiple objectives and an iterative workflow that finds high-quality, optimized solutions.

Mphasis QOptiDecision integrates with current enterprise decision systems, allowing for seamless transition to a disruptive, future-focused technology. These capabilities have been successfully applied in areas such as last-mile route optimization, 3-D bin packing, wealth advisor assignments, airline passenger re-accommodation, and crew scheduling.

“Our early investments in applied quantum research and development have enabled this industry-first milestone in the enterprise adoption of quantum technology. We are very proud of the end-to-end quantum solutions our team has delivered to reduce risk, ensure compliance, and safeguard against evolving threats, while optimizing complex enterprise decisions with greater accuracy,” said **Nitin Rakesh, Chief Executive Officer and Managing Director, Mphasis**.

Building on this success, Mphasis is advancing its services with an Agentic AI approach to further transform and modernize enterprise operations, driving innovation at the intersection of quantum computing and intelligent automation.

About Mphasis

Mphasis is an AI-led, platform-driven company with human-in-the-loop intelligence, helping global enterprises modernize, infuse AI, and scale with agility. The [Mphasis.ai](#) unit and Mphasis AI-powered 'Tribes' are focused on client outcomes and embed artificial intelligence and autonomy into every layer of the enterprise technology and process stack.

Mphasis built [NeoIP™](#), a breakthrough AI platform which orchestrates a powerful pack of AI platforms and solutions to deliver impactful outcomes across the entire enterprise IT value chain, because we believe '*AI Without Intelligence Is Artificial™*'. NeoIP™ is powered by the Ontosphere, a dynamic and ever-evolving knowledge base, delivering continuous and constant innovation through perpetual intelligent engineering - driving end-to-end enterprise transformation.

At the heart of our approach is customer-centricity—reflected in our proprietary [Front2Back™](#) transformation framework, which uses the exponential power of cloud and cognitive to deliver hyper-personalized digital experiences ($C=X2C2^TM = 1$) and build strong relationships with marquee clients. Our Service Transformation solutions enable enterprises pivot from legacy systems and operations to secure, adaptive, cloud-first operating models with minimal disruption. Continuous investments in platforms, such as the Neo series, enable enterprises to stay efficient, relevant, and ahead in a dynamic AI-first world. Mphasis is a Hi-Tech, Hi-Touch, Hi-Trust company, rooted in a learning and growth culture. Click [here](#) to know more. ([BSE: 526299](#); [NSE: MPHASIS](#))

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