

JPMorgan Chase, Toshiba and Ciena Build the First Quantum Key Distribution Network Used to Secure Mission-Critical Blockchain Application

📄 📄 In groundbreaking research, JPMorgan Chase, Toshiba and Ciena have demonstrated the full viability of a first-of-its-kind Quantum Key Distribution (QKD) network for metropolitan areas, resistant to quantum computing attacks and capable of supporting 800 Gbps data rates for mission-critical applications under real-world environmental conditions.

The research team demonstrated the ability of the newly developed QKD network to instantly detect and defend against eavesdroppers. It also studied the impact of realistic environmental factors on the quality of the quantum channel and used a QKD-secured optical channel to deploy and secure Liink by J.P. Morgan, the world's first bank-led, production-grade, peer-to-peer blockchain network.

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