

	2022	2023	2024	2025	2026+
Regulatory milestones	NIST selects algorithms for standardization	Federal agencies plan for PQC adoption	NIST publishes PQC standards	CNSA 2.0: preference to PQC-compliant vendors	Vendors complete transition to PQC
Consortia	<ul style="list-style-type: none"> <li>👉 Open Quantum Safe (OQS)</li> <li>👉 Post-Quantum Telco Network</li> </ul>	<ul style="list-style-type: none"> <li>👉 NCCoE</li> <li>👉 PQC Coalition (MITRE)</li> </ul>	<ul style="list-style-type: none"> <li>🕒 Payments (EPAA, NACHA)</li> <li>🕒 PQC Alliance (Linux Foundation)</li> </ul>	<ul style="list-style-type: none"> <li>○ Critical Infrastructure Protection Coalition</li> </ul>	<ul style="list-style-type: none"> <li>○ Healthcare Coalition</li> </ul>
IBM services		<ul style="list-style-type: none"> <li>👉 Quantum-safe preparation &amp; advisory</li> </ul>	<ul style="list-style-type: none"> <li>👉 Quantum-safe transformation services</li> </ul>	<ul style="list-style-type: none"> <li>🕒 Application modernization</li> <li>🕒 Security Platform modernization</li> </ul>	<ul style="list-style-type: none"> <li>○ Quantum-safe talent transformation</li> </ul>
IBM Quantum Safe technology	<ul style="list-style-type: none"> <li>🕒 IBM Quantum Safe Remediator                             <ul style="list-style-type: none"> <li>👉 Adaptive Proxy</li> <li>👉 Performance benchmarking</li> </ul> </li> <li>🕒 TLS, VPN, SSH</li> <li>🕒 Encryption/key/certificate mgmt.</li> <li>🕒 Crypto-agility framework</li> <li>○ Automated remediation</li> <li>○ LLM-based recommendation</li> </ul>				
	<ul style="list-style-type: none"> <li>🕒 IBM Guardium Quantum Safe                             <ul style="list-style-type: none"> <li>👉 Dynamic Inventory</li> <li>👉 Cryptography Posture Management</li> <li>👉 Cryptography Policy Management</li> </ul> </li> <li>🕒 Risk-based prioritization</li> <li>🕒 Enriched metadata</li> <li>○ AI-driven risk analysis</li> </ul>				
	<ul style="list-style-type: none"> <li>🕒 IBM Quantum Safe Explorer                             <ul style="list-style-type: none"> <li>👉 Static scan</li> <li>👉 CBOM generation</li> <li>👉 CI/CD integration</li> </ul> </li> <li>🕒 Custom library support</li> <li>🕒 Remediation recommendation</li> <li>○ LLM-assisted scanning</li> </ul>				
Algorithms, protocols, standards, libraries	<ul style="list-style-type: none"> <li>👉 Key encryption: CRYSTALS - Kyber</li> <li>👉 Digital signature: CRYSTALS - Dilithium, FALCON</li> </ul>	<ul style="list-style-type: none"> <li>👉 Cryptography Bill of Materials (CBOM)</li> </ul>	<ul style="list-style-type: none"> <li>🕒 MAYO, UOV, SQISign</li> <li>🕒 OpenSSL</li> </ul>		
IBM infrastructure		<ul style="list-style-type: none"> <li>👉 IBM z16, IBM Hyper Protect Crypto Services, IBM Tape Storage, Hardware Security Modules (HSM)</li> </ul>	<ul style="list-style-type: none"> <li>🕒 IBM Cloud, IBM Software, Red Hat, IBM Storage, IBM Power : Strategy &amp; Planning</li> </ul>	<ul style="list-style-type: none"> <li>○ IBM Cloud, IBM Software, Red Hat, IBM Storage, IBM Power : Phase-1</li> </ul>	<ul style="list-style-type: none"> <li>○ IBM Cloud, IBM Software, Red Hat, IBM Storage, IBM Power : Phase-2</li> </ul>