

Eviden takes quantum computing application development to the next level with its new Qaptiva offering

Paris, France – May 11, 2023 – [Eviden](#), the [Atos](#) business leading in digital, cloud, big data and security, today launches **Qaptiva™**, its new Quantum Computing offering to enable real world application development and usage, using best-of-breed quantum computing technologies.

While some vertical markets are starting to show readiness to use quantum computing for problems addressed today by supercomputers, the customer's focus is shifting from learning to developing and consuming quantum computing real life applications.

With Qaptiva™, Eviden is embracing this new era by enabling a rich Software and Hardware partner ecosystem to use the Qaptiva™ Application development platform, offering corporate customers solutions to facilitate the development of tangible quantum applications, and run them in as-a-service or on premises modes.

Capitalizing on Eviden's strong experience in hybrid computing, Qaptiva™ will help enterprises, organizations, and research centers worldwide to harness the power of quantum computing and take application development to the next level, to solve complex business and scientific challenges.

Unlocking value from quantum computing with all-in-one offering

Developing real-life applications using quantum computing-based paradigms requires building specialized, problem-solving-oriented set of software libraries for developers to use their own domain specific objects without being quantum physics specialists.

As such, Eviden is expanding **its partners ecosystem** to provide developers with a wide choice of quantum software libraries to increase value for its customers while offering different choices of hardware. To support the evolution of quantum software, the team has partnered with innovation-driven Quantum players like ColibrITD, QuantFI, QbitSoft, Qubit Pharmaceuticals, QuRISK and Multiverse Computing to integrate them in Qaptiva™ and to address industry-specific use cases related to automotive, defense, energy, finance, life science and retail. For quantum computing hardware, after the signature of an agreement with its forward-thinking partner IQM Quantum Computers in 2022, Eviden is now also collaborating with French technology leaders Quandela and Pasqal for joint commercial offers.

Qaptiva™ offers all-in-one capabilities and a best-in-class **development environment** to write code once and seamlessly run it on different quantum hardware, either on-premises or through the cloud. Designed to encompass in one place all quantum technologies provided by Qaptiva™ software partners, this platform provides developers, researchers,

and scientists with all the necessary tools and resources (libraries, connectors, emulators, and compilers) to program, optimize, compile, emulate, and run code on a Quantum Processing Unit (QPU), delivering tangible results very rapidly without waiting for Large Scale Quantum (LSQ).

In addition to a complete and simplified quantum-application development environment, Qaptiva™ also offers **emulation capabilities** to perform perfect advanced emulations with different noise models, up to 41 logical Qubits. The offer leverages the technology available in the Qaptiva™ 800, the new generation of the previously known "Atos Quantum Learning Machine".

For application development and emulation, Qaptiva™ supports all the most widely used quantum programming paradigms (gate-based, annealing, and analog) and other technologies such as photonic quantum computing.

Qaptiva™ includes a complete **quantum computing consulting practice**, from training to application development to help enterprises, organizations and research centers understand, and identify real use cases, and develop their future production-ready QC-based solutions.

"Capitalizing on our strong experience in quantum computing, we are pleased to launch our new offering, Qaptiva™, to simplify the development of quantum applications with an all-in-one offering for enterprises while pursuing our research and development efforts to make Hybrid Computing a reality for research centers. By providing greater choice in deployment, whether on-premises or in the cloud, and computing flexibility, Qaptiva™ democratizes access to quantum computing." said **Dr Cédric Bourrasset, Global Head of HPC-AI and Quantum Computing, Eviden, Atos Group.**

"Eviden is a global leader in Quantum Computing and with the launch of QAPTIVA, a complete as-a-service offer focused on applications development, Eviden is on the right path toward rapid innovation and adoption of Quantum Computing for enterprises and businesses. This allows Eviden to acquire new capabilities, extend its solutions to address new markets, and meet customer needs. With their proven expertise in High Performance Computing (HPC), Eviden can support the adoption of hybridization to combine quantum, traditional HPC and AI at scale. Eviden has all the critical elements and potential to contribute meaningfully to the future of Quantum Computing," said **Bob Sorensen, Chief Analyst for Quantum Computing, Hyperion Research**

About Eviden¹

Eviden designs the scope composed of Atos' digital, cloud, big data and security business lines. It will be a global leader in data-driven, trusted and sustainable digital transformation. As a next generation digital business with worldwide leading positions in digital, cloud, data, advanced computing and security, it brings deep expertise for all industries in more than 53 countries. By

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uniting unique high-end technologies across the full digital continuum with 57,000 world-class talents, Eviden expands the possibilities of technologies for enterprises and public authorities, helping them to build their digital future. Eviden is an Atos Group business with an annual revenue of c. € 5 billion.

About Atos

Atos is a global leader in digital transformation with 111,000 employees and annual revenue of c. € 11 billion. European number one in cybersecurity, cloud and high-performance computing, the Group provides tailored end-to-end solutions for all industries in 69 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea), and listed on Euronext Paris.

The purpose of Atos is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

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