Quantinuum
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Product Change Notification
Issue Date: December 19th, 2024

- # QUANTINUUM SYSTEMS PRODUCT CHANGE NOTIFICATION

System Model H2: H2-2 Release	
Date of change	Jan 6th, 2025
Contact information	QCsupport@quantinuum.com
Products impacted	H2-2 Hardware, Emulator, and Syntax Checker targets
Changes to Product Data Sheet(s)	NO ☐ YES ☒
Changes to subscription contract	NO ☒ YES ☐
Changes to interface	All ☒ Quantinuum API ☐ Microsoft ☐
Purpose	The purpose of this notification is: 1) Notify customers of release of the Quantinuum H2-2 quantum computer, emulators, and syntax checkers for all customers who currently have access to the Quantinuum H2-1 quantum computer See additional information below for more details.
Reason	Increased capacity
Action required	

Additional Information:

1) Release of the Quantinuum H2-2 quantum computer

On January 6th, Quantinuum will be releasing the second quantum computer in the System Model H2 family named H2-2. This system will be released to all customers that currently have subscriptions that include the Quantinuum H2-1 quantum computer.

The H2-2 quantum computer is intended to provide additional capacity in the H2 family. The H2-2 quantum computer will be released with 56 fully connected qubits. On release, the specifications will be posted in GitHub and displayed in the Quantinuum Nexus platform. A new high-fidelity noise model will also be provided along with the H2-2E endpoint for emulation of the new quantum computer. This model will be periodically updated as changes are made to the H2-2 quantum computer.

Both H2-1 and H2-2 endpoints will run simultaneously during normal operating hours providing users with multiple submission options and an operations calendar will be sent to users in early January. Initially, Quantinuum will notify users if there is a large imbalance in job submissions to one endpoint that could negatively impact queue times. In the future, Quantinuum plans to provide a monitoring metric so users can understand the load on each computer.