

Photon: Secure access to high-risk systems

A system for providing users with safe, secure remote access to legacy systems that are too valuable to decommission.

Large enterprises are filled with legacy systems that store priceless data. But managing these systems presents few good options: Keeping them patched, accepting the risk of leaving them unpatched, and removing them from service all have high costs. What if you could provide access to the data stored on these machines, without exposing the rest of your enterprise to new attack vectors?

Photon provides a secure gateway to any system that sends video out. Through a variety of fine-grained configurations, you can give your users levels of isolated access (below) to legacy systems in accordance with your own risk tolerance.

Contact us for a no-nonsense technical demonstration of this capability at your facility.

INGEST	VIRTUAL MACHINE	WEB SERVICE
<p>Photon can broadcast a system's video output to any number of other screens around the world. Viewing the legacy system's contents is a plug-and-play process, requiring just a video cable and a network connection to the Photon server. Photon's networking remains separate from the legacy system. Depending on your confidentiality requirements, access can be restricted to a single room or opened to your entire enterprise.</p>	<p>Photon is optimized for interacting with virtual machines, including over disadvantaged networks. By making your legacy system available as a VM, Photon users can then interact directly with it regardless of their location. Meanwhile, you maintain strict access control via your hypervisor configuration. Photon components will need network access to the hypervisor, but not to any legacy systems.</p>	<p>With your own web service, you can provide the same level of access to legacy systems afforded by VMs, but with the added control of application-level permissions. Instead of granting access to entire systems, you can allow users near and far to use particular applications.</p>

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Security and design are in our blood.

Klee Dienes, Hadron's founder and president, is a former lead engineer at Apple. He was the initial manager of Apple's open source operating system, Darwin, and a founding member of the Debian GNU/Linux and the GDB technical steering committees. After nine years with Apple, he joined the National Guard and served a one-year tour as a MEDEVAC team leader in Iraq. He is currently a defensive cyberoperations officer in the Army National Guard.

Sam Hartman is Hadron's lead systems & security engineer. He has been building system security software for over 20 years. Prior to Hadron, Sam led his own security engineering firm for eight years. For six years, he was the technical director of the MIT Kerberos Consortium, where he managed the world's dominant authentication protocol. He has also served as the director of the Internet Engineering Task Force's security area.



11 Essex St
Cambridge, MA 02139
info@hadronindustries.com

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I N D U S T R I E S

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Federal customers can acquire Hadron's tools and services through a sole-source process, regardless of cost.

Hadron's remote access architecture is based on technology that extends from a SBIR Phase III-funded project (FA8650-14-D-6533, "Collaborative Virtual ISR Workplace"). Per section 4(c), parts 2-5 of the SBIR Policy Directive, any acquisition of work that is derived from or extends prior SBIR awards has SBIR Phase III status and rights, including the ability to make such an acquisition on a sole source basis without cost limits. Such acquisitions may be for research, products, production, services, or any combination thereof. The Directive provides the following guidance to procurement officials regarding such acquisitions: "(I)n conducting actions relative to a Phase III SBIR award, it is sufficient to state for purposes of a Justification and Approval pursuant to FAR 6.302-5, that the project is a SBIR Phase III award that is derived from, extends, or completes efforts made under prior SBIR funding agreements and is authorized under 10 U.S.C. 2304(b)(2) or 41 U.S.C. 3303(b)."

Further information about Hadron's Phase III contract and its technologies that extend to this acquisition is available upon request.