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PIGEON POINT SYSTEMS UPDATES HPI SUPPORT Offers Flexible Combination of Open Source and Proprietary Options

OCEANSIDE, California, November 27, 2012 – Pigeon Point Systems, LLC, the leading independent supplier of hardware platform management solutions for xTCA™ (including AdvancedTCA® or ATCA) has updated its Hardware Platform Interface (HPI) solutions in conjunction with the 3.0 release of its market-leading Pigeon Point Shelf Manager. The updated solutions integrate components from the just-released OpenHPI 3.2.0 distribution (see www.openhpi.org), plus a refresh of Pigeon Point's advanced IntegralHPI™ server built into the Pigeon Point Shelf Manager. These updated HPI solutions continue to comply with the HPI-to-xTCA mapping specification and now enable HPI clients to use version 6 of the Internet Protocol (IPv6) to communicate with their corresponding HPI servers. The Hardware Platform Interface (HPI) and the HPI-to-xTCA mapping specifications are defined by the Service Availability Forum™ (SA Forum – www.saforum.org). HPI provides an abstracted interface for managing computer hardware and the mapping specification provides implementation-independent guidance for applying that abstraction to the sophisticated hardware platform management framework of ATCA. IPv6 was developed by the Internet Engineering Task Force (IETF) to replace version 4 of

the Internet Protocol (IPv4) and deal with the depleted pool of unallocated IPv4 addresses, among other challenges resulting from the explosive growth of Internet usage. IPv6 can support about 3.4×10^{38} addresses.

Pigeon Point's two HPI solutions combine open source and proprietary components to maximize customer flexibility. Both solutions incorporate the OpenHPI client library and HPI-based shell utility. Also, both use OpenHPI's Remote Procedure Call (RPC) protocol for client-server communication, which allows any binary HPI application built with that library to connect with either the OpenHPI server (called a daemon) or with Pigeon Point's advanced IntegralHPI server, which operates as a subsystem of the Pigeon Point Shelf Manager.

The IntegralHPI server provides substantial improvements over the OpenHPI daemon. The IntegralHPI server is dramatically more efficient, with initial startup times for richly populated ATCA shelves that range from 29x to 53x faster than the Pigeon Point-optimized OpenHPI daemon with less than half the memory requirements. In addition, IntegralHPI leverages the Shelf Manager's proven redundancy architecture to deliver an HPI service that is un-interrupted across Shelf Manager switchovers.

OpenHPI includes a plug-in architecture in the daemon to simplify and modularize the support of disparate hardware platforms, with several plug-ins that support generic IPMI-managed platforms like blade servers from HP. The Pigeon Point plug-in is optimized to work with the Pigeon Point Shelf Manager and complies with the xTCA-to-HPI mapping specification. Pigeon Point's OpenHPI distribution, including the Pigeon Point plug-in, has matured over years of intensive validation and field use by major customers, and may be attractive to customers who need to support a range of managed platform types with distinct plug-ins and don't need the redundancy and performance benefits of IntegralHPI. Pigeon Point developers are active contributors in the OpenHPI project.

The SA Forum has posted a webcast recorded by Pigeon Point's Mark Overgaard that introduces the concepts and benefits of HPI (<http://www.saforum.org/HOA/assn16627/images/HPI%20Webcast.zip>). A Pigeon Point HPI User Guide for both current Pigeon Point HPI solutions is

available on the library page of the Pigeon Point website (www.pigeonpoint.com/library.html) along with corresponding documentation for the Pigeon Point Shelf Manager.

For additional information on these and other Pigeon Point products, visit www.pigeonpoint.com; further queries are welcome via email at info@pigeonpoint.com.

About Pigeon Point

Pigeon Point Systems LLC delivers world-class management components for modular platforms based on the AdvancedTCA, AdvancedMC and MicroTCA architectures to leading companies worldwide. Pigeon Point's focus on providing dependable, proven solutions for the mandatory management controllers in these architectures allows customers to concentrate on the value-added aspects of their products. Deep expertise on these architectures ensures compliance and interoperability in the Pigeon Point components.

Pigeon Point, an executive member of PICMG, is a leader in its AdvancedTCA[®], AdvancedMC[®], and MicroTCA[™] subcommittees and is active in many other technical subcommittees. Pigeon Point is also a member of VITA and participates actively in its VITA 46.11 working group, which is defining a management architecture for VPX and OpenVPX. In addition, Pigeon Point is a contributing member of the Service Availability Forum and a leader in its HPI Working Group. For more information on Pigeon Point Systems, visit www.pigeonpoint.com.

Pigeon Point and the stylized lighthouse logo, as well as IntegralHPI, are trademarks of Pigeon Point Systems. Other trademarks are the property of their respective owners.

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Notice to editors: supplementary graphics are available in soft copy at www.pigeonpoint.com/press/HPI and included below, with draft captions.

Graphic #1: Pigeon Point's HPI solutions combine the OpenHPI client library and clients with a choice of the OpenHPI daemon (and Pigeon Point plug-in) or Pigeon Point's advanced IntegralHPI server, for performance and redundancy benefits.

