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GainSpan and Grid2Home Demonstrate SEP 2.0 Over Wi-Fi® At Wi-Fi Smart Energy Forum

*Leaders in low-power embedded Wi-Fi and SEP 2.0 Software partner to advance
Smart Grid market*

San Jose, CA and San Diego, CA — August 3, 2011 — In a breakthrough for the Smart Grid market, [GainSpan](#)® Corporation, a leading developer of ultra-low power embedded Wi-Fi solutions, and [Grid2Home](#), Inc., developer of Smart Energy Profile 2.0 (SEP 2.0) Software, have partnered to present a joint demonstration of SEP 2.0 on a Wi-Fi based Smart Plug using the SEP 2.0 compliant G2H-SE2 Software from Grid2Home and a smart plug based on the GS1011M Wi-Fi module from GainSpan. The demonstration took place as part of a multi-vendor demo at the Wi-Fi Smart Energy Forum, underway this week at the Hyatt Regency Chicago O'Hare and hosted by the Wi-Fi Alliance®.

The successful demonstration showed a Wi-Fi based device responding--by turning lights on and off for example--to SEP 2.0 Demand Response/Load Control events retrieved from an Energy Service Interface (ESI). SEP 2.0 is one of the key standards approved by the National Institute of Standards and Technology (NIST) for the smart grid, and is widely supported as the smart energy application-level standard within the home.

"This event is important in showing that SEP 2.0 is no longer specific to ZigBee or 802.15.4 Phy and Mac. Utilities and appliance manufacturers should now consider Wi-Fi as their first technology choice for smart energy devices inside the home," said Bernard Aboussouan, vice president of marketing at GainSpan. "Wi-Fi's widespread adoption in homes and businesses makes it a de facto solution for smart energy applications. The proliferation of Wi-Fi in laptops and smart phones and the consumer familiarity with Wi-Fi technology will be a major enabler to the adoption of Wi-Fi based smart energy devices."

Aboussouan noted that the G2H-SE2 Software is memory footprint optimized and was able to run on GainSpan's GS1011 ultra-low power Wi-Fi system-on-chip (SoC).

"The implementation of SEP 2.0 over Wi-Fi in devices is beneficial to the entire ecosystem," said Mike Bourton, VP of Business Development at Grid2Home. "It gives utilities and other service providers the flexibility to use customers' existing Wi-Fi networks to control and monitor



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smart energy devices and appliances. Grid2Home is pleased to be partnering with GainSpan to demonstrate the G2H-SE2 Software in combination with the GS1011M Wi-Fi module addressing smart energy applications.”

“We congratulate GainSpan and Grid2Home on their participation in the Wi-Fi Smart Energy Forum SEP 2 Demonstration event,” said Wi-Fi Alliance technical director Greg Ennis. “As Wi-Fi continues its momentum in smart energy applications, this demonstration, including GainSpan’s GS1011 Wi-Fi module and Grid2Home’s G2H-SE2 software, is a testament to the industry’s readiness for commercial deployment and the technology’s suitability for a wide range of smart energy implementations.”

The Wi-Fi Smart Energy Forum included the first large-scale interoperable demonstration of Wi-Fi SEP 2 implementations and was the first step in joint marketing efforts by GainSpan and Grid2Home. Under the partnership, the two companies will work together to enable SEP 2.0 over Wi-Fi and drive the market forward.

GainSpan will be offering SEP 2.0 as an optional part of the software stack running on its chip and modules. The Serial to Wi-Fi version of the stack also includes rich networking features, HTTP(S)/ DHCP/ DNS client and server, WPS and web page provisioning and all Wi-Fi security. Appliance and smart energy device manufacturers should contact GainSpan for more details on the availability of SEP 2.0.

About GainSpan

GainSpan is a leading ultra-low power embedded Wi-Fi semiconductor solutions company focused on connecting Things to the Internet, and People to Things. With easy to use system-on-chip (SoC), modules and software, GainSpan enables customers to leverage the large installed base of Wi-Fi access points and smartphones to create new connected embedded products for healthcare, smart energy and control and monitoring in industrial, commercial and residential markets. GainSpan solutions feature an ultra low power SoC that consumes just a few μA of standby current and goes from standby to active mode in just a few ms, ideal for battery operated devices requiring long battery life. The Wi-Fi chip also handles all Wi-Fi functionalities, networking and security stacks, offloading when required the host microcontroller and accelerating wireless device development cycles. GainSpan is based in San Jose, CA, with R&D in Bangalore, India. www.gainspan.com.



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About Grid2Home

Grid2Home is a communications software company at the forefront of Smart Grid connectivity technologies. Used across a range of devices such as smart meters, appliances and electric vehicles, the SEP 2.0 compliant G2H-SE2 Software is portable across all major semiconductor platforms and physical layers including 802.15.4, 802.15.4g, 802.11 and Power Line Communications, allowing maximum product development flexibility and easy integration for Smart Grid device manufacturers. Active in driving Smart Energy Profile (SEP 2.0) communications standards for the Home Area Network (HAN), the Grid2Home management team and board of directors bring an unmatched combination of business savvy and communications protocol expertise to the fast-growing Smart Grid market. For more information see www.grid2home.com.

About the Wi-Fi Alliance

The Wi-Fi Alliance is a global non-profit industry association of hundreds of leading companies devoted to the proliferation of Wi-Fi technology across devices and market segments. With technology development, market building, and regulatory programs, the Wi-Fi Alliance has enabled widespread adoption of Wi-Fi worldwide. www.wi-fi.org

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