

## News Release

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## **Texas Instruments New Acoustic Echo Cancellation Software Boosts Speakerphone Performance in Grandstream SIP Phone Portfolio**

STOCKHOLM, SWEDEN and DALLAS, TX (June 12, 2007) – Grandstream Networks, Inc., a leading designer and manufacturer of next-generation IP voice and video products for broadband networks and Texas Instruments Incorporated (TI) [NYSE:TXN] announced today that Grandstream has selected Texas Instruments' new advanced acoustic echo cancellation (AEC) software to dramatically improve the speakerphone quality for its GXP2020, GXP2000, and BT200 IP phones, all of which are based on TI's TMS320C5000™ digital signal processor (DSP) platform. A speakerphone enhancement firmware release based on the TI's new advanced AEC software will be available at the end of this month.

Grandstream selected TI because its AEC software is fully compliant with the ITU G.167 standard and features a superior acoustic echo cancellation algorithm with 160ms tail length,

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sophisticated Non-Linear-Processing (NLP) and double talk detection, and advanced Automatic Gain Control (AGC) which help significantly boost the performance and quality of a full duplex hands-free speakerphone. TI's AEC works with all of the voice codecs that are supported on Grandstream IP phones including G.711, G.723.1, G.729A/B, iLBC, GSM, and wideband G.722. It also supports up to 5-way conferencing for GXP2020 and 3-way conferencing for GXP2000 and BT200 in speakerphone mode. The new firmware release incorporating this new AEC algorithm will be available for download on Grandstream's website at [www.grandstream.com](http://www.grandstream.com) at the end of this month.

“We are very excited to announce this speakerphone enhancement firmware release for our business and residential IP phone product lines, said David Li, CEO of Grandstream Networks. “Grandstream and TI engineers collaborated closely to fine tune the AEC algorithm on most of Grandstream's IP phone models and they successfully improved the speakerphone performance and voice clarity significantly. This development underscores the close partnership between Grandstream and TI as well as our strong commitment to continuously enhancing and improving our products for our customers.”

“We are very pleased that TI's acoustic echo cancellation and DSP technology are enabling Grandstream to deliver higher-quality and better performing IP phones around the world,” said Fred Zimmerman, executive director, VoIP customer premises solutions, Texas Instruments. “This collaboration continues our long-standing relationship with the company, further demonstrating TI's commitment to delivering advanced silicon and software solutions that power IP phones and gateways for a variety of IP-based applications.”

### **Grandstream SIP Phone Series**

Grandstream SIP Phones support multi-line conferencing, voicemail, and advanced telephony features including call waiting, call park, call transfer, hold and mute. The BT200 is a single line SIP phone designed for the residential and small office/home office (SOHO) markets that offer rich feature functionality, custom ring-tones and a 100Mbs port for a very affordable price.

The GXP Series includes two models – GXP2000 (4-lines) and the GXP2020 (6-lines). The series offers Power-over-Ethernet (PoE), dual 10/100 auto-sensing Ethernet ports, individual SIP account/line and XML capabilities. The GXP Series is expandable using a 56 button expansion car, offers MLS (multi-language support) in 6 languages, AES encryption and remote configuration for quick deployment over a large network. The GXP2020 advanced features includes 4 programmable XML capable buttons, 5-way conferencing, two headset jacks (RJ11/2.5mm) and a large high-resolution backlit LCD display and an elegant new design.

Grandstream SIP Phones are available through Grandstream's distribution channels worldwide. The new firmware release will be available at the end of the month. More information is located on the World Wide Web at [www.grandstream.com](http://www.grandstream.com).

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### **About Grandstream Networks**

Grandstream Networks, Inc. is an award-winning designer and manufacturer of next generation IP voice & video products for broadband networks. Grandstream's products deliver superb sound and picture quality, rich telephony features, full compliance with industry standards, and broad interoperability with most service providers and 3<sup>rd</sup> party SIP based VoIP products. Grandstream is consistently recognized in the VoIP industry for their innovation, affordability and superior value in their products. Grandstream Networks is a private company headquartered in Brookline, MA with offices in Los Angeles, Dallas and China.

**About Texas Instruments**

Texas Instruments Incorporated provides innovative DSP and analog technologies to meet our customers' real world signal processing requirements. In addition to Semiconductor, the company includes the Education Technology business. TI is headquartered in Dallas, Texas, and has manufacturing, design or sales operations in more than 25 countries.

Texas Instruments is traded on the New York Stock Exchange under the symbol TXN. More information is located on the World Wide Web at [www.ti.com](http://www.ti.com).

**Trademarks**

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