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OSE Systems and SIGNALS+SOFTWARE Team Up For Flagship Motorola StarCore-Based Adaptive Multi-Rate Transcoder For Wireless Infrastructure Applications

LONDON--May 15, 2002 --Today, OSE Systems, Inc. (OSE) and SIGNALS+SOFTWARE Ltd. (S+S) announced collaboration to provide a breakthrough Motorola StarCore®-based transcoding solution for wireless infrastructure system developers. These companies offer a comprehensive transcoding solution that accelerates development and enables powerful network infrastructure applications.

The solution consists of the network-ready MSC8101 StarCore-based DSP from Motorola; the OSE_{ck} distributed DSP Real-Time Operating System (RTOS) from OSE; and the leading Adaptive Multi-Rate (AMR) transcoder engine software from S+S.

Richard Blackburn, UK manager of OSE Systems said, "This reference platform demonstrates the design flexibility, software abstraction and portability that OSE_{ck} brings to voice transcoder developers still maintaining very low-channel overhead."

Motorola's powerful MSC8101 DSP includes a comprehensive Communications Processor Module and an industry standard 60x bus interface. The MSC8101 offers unprecedented signal processing performance and is intended for a wide range of network infrastructure applications, such as 2.5G and 3G systems, wireless transcoding and IP telephony.

"The OSE_{ck} and AMR-GSM products for the MSC8101 enable a powerful solution and time-to-market advantage for our transcoding customers," said David Baczewski, strategic marketing manager for Motorola's Wireless Infrastructure Systems

Division. The integrated platform illustrates the combined performance benefits of a highly efficient AMR algorithm in an RTOS based multichannel 'C' framework, all running on the MSC8101."

The OSE_{ck} RTOS provides both high reliability and performance as well as strong support for multiple devices and OSE's Illuminator tools suite. "In many applications, the MSC8101 will be used in a multiple DSP/CPU configuration. This makes it a very good fit for OSE," said Richard Blackburn.

S+S, with over 10 years of development experience with Motorola DSPs, is well equipped to provide an extensive range of software for the company's StarCore-based DSPs. The most recent module is a world leading implementation of AMR, the most advanced GSM and 3GPP wireless vocoder standard currently in use.

Roger Noble, engineering director of SIGNALS+SOFTWARE said, "Having developed two world leading implementations of AMR-GSM, one for infrastructure and one for terminal products, we are delighted to be able to offer our customers the confidence and accelerated development times that are available from working with OSE Systems and Motorola on this solution. We anticipate extending this cooperation to cover both our existing StarCore-based products and future developments".

"It's been an exciting and collaborative project resulting in positive customer evaluations and benchmarks," said Richard Blackburn.

Details of the Reference Platform:

The S+S real-time Adaptive Multi-Rate (AMR) transcoder engine for incorporating G711, EFR and AMR codecs, integrated with the OSE Systems OSE_{ck} RTOS, sets a reference platform for voice transcoders and IP telephony on Motorola's MSC8101 platform.

The reference platform software architecture is divided into different levels running on the OSE_{ck} RTOS, allowing the same transcoder engine to be used on single or multi-DSP platform with only the I/O framework to customize. Channel scheduling and encoding/decoding tasks are completely transparent to the application developers because of the OSE_{ck} message-passing technology.

The results of this integration shows that a system can process over 30 AMR channels on a single MSC8101 running at 300MCPS with the OSE_{ck} RTOS, using only internal SRAM.

Availability

The solution is available today. To receive a 30 day evaluation, contact your local OSE Systems sales representative.

For more information about S+S's products, including AMR-GSM, visit www.signalsandsoftware.com.

About OSE Systems

OSE Systems is the technological leader of real-time operating systems software and services for the communications market. OSE is also used in safety-critical, high-availability, distributed and fault-tolerant applications such as avionics and industrial control. Customers include industry leaders such as Ericsson, Lockheed Martin, Samsung, Agere Systems, Sony and Boeing. OSE Systems is a subsidiary of Enea Data (SAXESS: ENEA). Enea markets and sells services, products and training in specialized technical arenas, including real-time application development and support for embedded systems as well as IT and e-business solutions. Located in Stockholm, Sweden, Enea employs approximately 800 people worldwide. For more information on OSE Systems, please visit <http://www.ose.com>.

About SIGNALS+SOFTWARE

SIGNALS+SOFTWARE was founded in 1992 as a developer of high quality Digital Signal Processing application software for the communications industry. Supplying to a whole range of customers, including large blue chip corporations, SIGNALS+SOFTWARE has quickly established itself as the world leader in DSP communications software design and production.

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