

The G.729 Consortium

The *One-Stop Shopping* the Telecommunication Industry is waiting for!

Montreal, Quebec, Canada, March 12, 1998. . [France Télécom](#), [Nippon Telegraph and Telephone Corp.](#), and the Université de Sherbrooke are proud to announce the creation of the G.729 Consortium. **Sipro Lab Telecom Inc.** has been appointed as the official licensing agent of their patents and copyrights relative to the G.729 Standard, including Annex A. The **G.729 Consortium** was formed to promote the emergence of this multi-purpose and critically important [ITU](#) standard. For details involving the value of obtaining a license to this standard, please contact Sipro Lab Telecom.

Why the G.729 Consortium?

The technical community believes that the G.729 Standard represents a significant advance in the field of digital audio compression for transmission and storage which will make innovative products and services available to the public. The benefits of [toll quality](#) speech at 8 kbps, with moderate delay and processing requirements, makes G.729 a popular choice in many applications that embraced ADPCM in the past. Applications such as teleconferencing, visual telephony, voice over Internet, cellular phones and other wireless applications, where quality, delay, and bandwidth are important, will benefit immediately from this state-of-the-art standard.

To create such a high-end line of codecs (G.729 and G.729 Annex A) required the involvement of leaders of the telecommunication industry. Consequently, the complexity of negotiating individual patent rights and copyrights with each intellectual property owner unfortunately discouraged potential users and has slowed down the emergence of the standard since November of 1995.

In order to simplify the licensing process and to encourage widespread adoption of the G.729 Standard by the audio product and service industries, all potential users of frame relay, Internet, ATM or DSVD; France Télécom/CNET, Nippon Telegraph and Telephone Corp. and the Université de Sherbrooke have agreed to pool the patents essential to practicing G.729 and G.729 Copyright(s). Furthermore, they also agreed to appoint a single Licensing Agent - Sipro Lab Telecom.

Sipro Lab Telecom is mandated to license these titles in a "one-stop shopping" mode in accordance with ITU policies. It is also Sipro Lab Telecom .s role to foster acceptance of the G.729 Standard.

Special Invitation to Integrators

Present and potential users of the G.729 line of standards are also invited to contact Sipro Lab Telecom relative to the acquisition of necessary rights. Sipro Lab Telecom .s representative can be reached by phone at 1 (514) 737-5874, by fax at 1 (514) 737-2327 or by e-mail at sales@sipro.com.

Notice to other Owners of Intellectual Property

There may be other owners of intellectual property relevant to the G.729 Standard. Sipro Lab Telecom wishes to invite all holders of intellectual property relevant to the G.729 Standard to contact them in order to evaluate potential addition to the list of essential patents available through the G.729 Consortium. Sipro Lab Telecom .s representative can be reached by phone at 1 (514) 737-5874, by fax at 1 (514) 737-2327 or by e-mail at sales@sipro.com.

Who is Sipro Lab Telecom?

Sipro Lab Telecom inc, a Canadian-based company, has been the commercial representative of Université de Sherbrooke Speech Compression Laboratory and its famous ACELP[®] technology since 1993. Sipro Lab Telecom has been instrumental in getting the ACELP[®] technology adopted by many certification bodies, including the ITU. Recognizing Sipro Lab Telecom .s unique expertise in this field, France Telecom, Nippon Telegraph and Telephone corp. and the Université de Sherbrooke have agreed to appoint Sipro Lab Telecom to license their technology related to the G.729 Standard.

What is G.729?

It was in November 1995 that the G.729 standard, also referred to as CS-ACELP[®], was adopted by the ITU, a United Nations organization. Similar, quality-wise, to 32 kbps ADPCM, G.729 offers toll quality speech. Furthermore, being only an 8 kbps codec, G.729 offers opportunities for significant increases in bandwidth utilization to existing telephony and wireless applications. Operating on 10 ms frames, this multi-purpose standard also allows moderate transmission delays.

What is G.729 Annex A?

The codec, established as the DSVD official international standard by the ITU for the modem industry, was presented by the Université de Sherbrooke in collaboration with Sipro Lab Telecom. G.729 Annex A opens the door to voice over fax, voice over Internet and voice e-mail. The toll quality codec is based on the renowned CS-ACELP[®] system.

This 8 kbps codec offers remarkable features such as:

- low complexity (MIPS, RAM, ROM)
- low delay (10ms)
- toll quality
- interoperability with G.729

This last feature is definitely not negligible, since G.729 is now more than ever on its way to become the worldwide standard for the telephone industry. The interoperability has the advantage of eliminating the need for transcoding. The signal quality is thus preserved and maximized. Thus we foresee that soon all multimedia systems will be made compatible with G.729 Annex A.

Footnotes:

ITU: International Telecommunication Union

Toll Quality: Equal or of higher quality than 32 kbps ADPCM (G.726)

ACELP[®]: Algebraic Code Excited Linear Prediction

CS-ACELP[®]: Conjugate-Structure Algebraic Code Excited Linear Prediction

DSVD: Digital Simultaneous Voice & Data

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