

INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

G.729 (2007) Implementors' Guide

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

(6 November 2009)

SERIES G: TRANSMISSION SYSTEMS AND MEDIA,
DIGITAL SYSTEMS AND NETWORKS

Digital terminal equipments – Coding of voice and audio
signals

Implementors' Guide for ITU-T Rec. G.729 (2007)
Coding of speech at 8 kbit/s using CS-ACELP

ITU-T

Summary

This document contains the Implementors' Guide for ITU-T Recommendation G.729 (2007) that corrects defects reported at SG 16's meeting 26 October – 6 November 2009.

This new Implementors' Guide was approved by ITU-T Study Group 16 on 6 November 2009 (TD 184/Plen).

Change Log

V1.0	G.729 Implementors' Guide – Modifications to G.729 (2007) main body text 6 November 2009
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IMPLEMENTORS' GUIDE FOR ITU-T RECOMMENDATION G.729 (2007)

1 Scope

This guide resolves defects in the following categories:

- editorial errors
- technical errors, such as omissions and inconsistencies
- ambiguities

In addition, the Implementors' Guide may include explanatory text found necessary as a result of interpretation difficulties apparent from the defect reports.

This Guide will not address proposed additions, deletions, or modifications to the Recommendations that are not strictly related to implementation difficulties in the above categories. Proposals for new features should be made through contributions to the ITU-T.

2 Introduction

This Implementors' Guide contains all identified defects for ITU-T Rec. G.729 (2007).

3 Defect Resolution Procedure

Upon discovering technical defects with any components of G.729, please provide a written description directly to the applicable contact point (listed above). The template for a defect report is located in the [Annex](#) to the Guide. Contact information for these parties is included at the front of the document. Return contact information should also be supplied so a dialogue can be established to resolve the matter and an appropriate reply to the defect report can be conveyed. This defect resolution process is open to any interested party. Formal membership in the ITU is not required to participate in this process.

4 References

This document refers to the approved elements for G.729:

- [G.729 \(01/2007\)](#) – Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP)

5 Nomenclature

In addition to traditional revision marks, the following marks and symbols are used to indicate to the reader how changes to the text of a Recommendation should be applied:

Symbol	Description
<u>[Begin Correction]</u>	Identifies the start of revision marked text based on extractions from the published Recommendations affected by the correction being described.
<u>[End Correction]</u>	Identifies the end of revision marked text based on extractions from the published Recommendations affected by the correction being described.
...	Indicates that the portion of the Recommendation between the text appearing before and after this symbol has remained unaffected by the correction being described and has been omitted for brevity.
--- SPECIAL INSTRUCTIONS --- {instructions}	Indicates a set of special editing instructions to be followed.

6 Editorial Correction

6.1 Correction to ITU-T Rec. G.729 main body text

As described in [TD 82/WP3](#) (2009-10), a discrepancy was found between equation 40 in the text of Rec. G.729 and the C-code.

The original incorrect equation (40) as it appears in Clause 3.7.1/G.729 is listed below:

$$v(n) = \sum_{i=0}^9 u(n-k+i)b_{30}(t+3i) + \sum_{i=0}^9 u(n-k+1+i)b_{30}(3-t+3i) \quad n=0,...,39 \quad t=0,1,2 \quad (40)$$

The corrected equation should appear as below:

$$v(n) = \sum_{i=0}^9 u(n-k-i)b_{30}(t+3i) + \sum_{i=0}^9 u(n-k+1+i)b_{30}(3-t+3i) \quad n=0,...,39 \quad t=0,1,2 \quad (40)$$

Annex: Defect Report Form for G.729 (2007)

DATE:	
CONTACT INFORMATION NAME: COMPANY: ADDRESS: TEL: FAX: EMAIL:	
AFFECTED RECOMMENDATIONS:	
DESCRIPTION OF PROBLEM:	
SUGGESTIONS FOR RESOLUTION:	

NOTE - Attach additional pages if more space is required than is provided above.