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

**Digital transmission systems – Terminal equipments –
Operations, administration and maintenance features of
transmission equipment**

ADPCM DCME configuration map report

ITU-T Recommendation G.776.3

(Formerly CCITT Recommendation)

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ITU-T RECOMMENDATION G.776.3

ADPCM DCME CONFIGURATION MAP REPORT

Summary

This Recommendation specifies the configuration report for Recommendations G.763 [7]/G.766 DCME [8] and the associated TMN parameters found in Recommendation G.776.1 [9]. The report presents the local DCME configuration map and highlights those parameters affecting system and traffic interoperability. Standardized configuration reports greatly assist field personnel in the end-to-end provisioning and trouble-shooting of DCME systems.

Source

ITU-T Recommendation G.776.3 was prepared by ITU-T Study Group 15 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on 4 April 2000.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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As of the date of approval of this Recommendation, the ITU had received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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Recommendation G.776.3

ADPCM DCME CONFIGURATION MAP REPORT

(Geneva, 2000)

1 Scope

This Recommendation specifies the configuration report for ADPCM DCME (G.763 [7]/G.766 [8]) and the associated TMN parameters found in Recommendation G.776.1 [9].

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

- [1] ITU-T Recommendation G.701 (1993), *Vocabulary of digital transmission and multiplexing, and pulse code modulation (PCM) terms.*
- [2] ITU-T Recommendation G.703 (1998), *Physical/electrical characteristics of hierarchical digital interfaces.*
- [3] ITU-T Recommendation G.704 (1998), *Synchronous frame structures used at 1544, 6312, 2048, 8448 and 44 736 kbit/s hierarchical levels.*
- [4] CCITT Recommendation G.706 (1991), *Frame alignment and cyclic redundancy check (CRC) procedures relating to basic frame structures defined in Recommendation G.704.*
- [5] CCITT Recommendation G.711 (1988), *Pulse code modulation (PCM) of voice frequencies.*
- [6] CCITT Recommendation G.726 (1990), *40, 32, 24, 16 kbit/s adaptive differential pulse code modulation (ADPCM).*
- [7] ITU-T Recommendation G.763 (1998), *Digital circuit multiplication equipment using G.726 ADPCM and digital speech interpolation.*
- [8] ITU-T Recommendation G.766 (1996), *Facsimile demodulation/remodulation for digital circuit multiplication equipment.*
- [9] ITU-T Recommendation G.776.1 (1998), *Managed objects for signal processing network elements.*
- [10] ITU-T Recommendation M.3100 (1995), *Generic network information model.*
- [11] ITU-T Recommendation Q.50 (1997), *Signalling between circuit multiplication equipments (CME) and international switching centres (ISC).*
- [12] CCITT Recommendation X.721 (1992) | ISO/IEC 10165-2:1992, *Information technology – Open Systems Interconnection – Structure of management information: Definition of management information.*

3 Definitions

The definitions used in this Recommendation are used in the above-listed Recommendation as well.



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4 Abbreviations

This Recommendation uses the following abbreviations:

ADPCM	Adaptive Differential Pulse Code Modulation
BC	Bearer Channel
BER	Bit Error Ratio
CAS	Channel Associated Signalling
CC	Control Channel
CRC	Cyclic Redundancy Check
dB	decibel
DCME	Digital Circuit Multiplication Equipment
DCN	Disconnect
DLC	Dynamic Load Control
E1	Digital signal level 1 at 2048 kbit/s
FCC	Facsimile Control Channel
FE	Far End
FEC	Forward Error Correction
ID	Identifier
IT	Intermediate Trunk
kbit/s	kilobits per second
Max	Maximum
Min	Minimum
ms	milliseconds
PCM	Pulse Code Modulation
PRI	Primary Rate Interface
Rx	Receive
STI	Statistics Time Interval
T1	Digital signal level 1 at 1544 kbit/s
TC	Trunk Channel
TCH	Transparent Circuit Handler
TS	Time Slot
Tx	Transmit
VBD	Voice-band Data

5 Recommendation overview

This Recommendation specifies the configuration report for Recommendations G.763 [7]/G.766 DCME [8] and the associated TMN parameters found in Recommendation G.776.1 [9]. The report presents the local DCME configuration map and highlights those parameters affecting system and traffic interoperability. Standardized configuration reports greatly assist field personnel in the

end-to-end provisioning and troubleshooting of DCME systems. These reports are used not only by local personnel, but exchanged between administrations at each end to validate the current configuration for interoperability.

The map data is italicized and bracketed (e.g. *<data>*). Parameters affecting system and traffic interoperability are shown in bold. Given their significance it is recommended that these parameters be presented in a similar manner in the actual implementation. To enhance useability of this Recommendation, these interoperability parameters are also listed in Annex A.

This Recommendation specifies the format of the configuration map printout of a G.763/G.766 DCME. The configuration map parameters in the report are divided into sections. Each section covers a specific subject. The parameters are arranged in tables. Appendix I contains an example of a configuration map report.

6 Total configuration

6.1 Map Identification

Map Identification

Create Information

Organization:	<i><mapOrganization></i>
Site Name:	<i><mapSiteName></i>
Map Name:	<i><mapName></i>
Creation Date:	<i><mapCreationTime></i>
S/W Version:	<i><softwareNumber></i>

Update Information

Number of Updates:	<i><mapNumberOfUpdates></i>
Last Updated by:	<i><mapLastUpdatedBy></i>
Update Date:	<i><mapUpdateDate></i>

Comments

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