

CONTENTS

<u>Section</u>	<u>Page</u>
1 INTRODUCTION	1-1
1.1 PURPOSE	1-1
1.2 SCOPE	1-1
1.3 APPLICABILITY	1-1
1.4 RATIONALE	1-1
1.5 BIT NUMBERING CONVENTION AND NOMENCLATURE	1-2
1.6 REFERENCES	1-2
2 OVERVIEW	2-1
2.1 GENERAL	2-1
2.2 THE SOURCE CODER.....	2-1
2.3 PACKETIZATION OF CODED DATA	2-3
2.4 ERROR CONTROL	2-3
3 ADAPTIVE ENTROPY CODER	3-1
3.1 CODE SPECIFICATION	3-1
3.2 FUNDAMENTAL SEQUENCE	3-2
3.3 SAMPLE SPLITTING.....	3-2
3.4 LOW ENTROPY OPTIONS	3-3
3.5 NO COMPRESSION	3-4
3.6 CODE SELECTION	3-4
4 PREPROCESSOR	4-1
4.1 PREPROCESSOR FUNCTION	4-1
4.2 PREDICTORS	4-1
4.3 REFERENCE SAMPLE	4-2
4.4 PREDICTION ERROR MAPPER.....	4-2
5 DATA FORMAT	5-1
5.1 LOSSLESS DATA STRUCTURES	5-1
5.2 PACKET FORMAT	5-4
6 COMPRESSION IDENTIFICATION PACKET (OPTIONAL)	6-1
6.1 COMPRESSION IDENTIFICATION PACKET STRUCTURE	6-1
6.2 CIP PRIMARY HEADER	6-1
6.3 PACKET DATA FIELD	6-2
ANNEX A GLOSSARY OF ACRONYMS AND TERMS	A-1
ANNEX B INFORMATIVE REFERENCES	B-1

CONTENTS (continued)

<u>Figure</u>		<u>Page</u>
2-1	Schematic of the Source Coder	2-1
3-1	The Adaptive Entropy Coder with a Preprocessor.....	3-1
3-2	Split-Sample Format	3-3
4-1	A Preprocessor	4-1
4-2	Preprocessor Using a Unit-Delay Predictor	4-2
5-1	CDS Format When Sample-Splitting Option Is Selected	5-2
5-2	CDS Format When No-Compression Option Is Selected	5-3
5-3	CDS Format When Zero-Block Option Is Selected	5-3
5-4	CDS Format When the Second-Extension Option Is Selected	5-4
5-5	Packet Format for <i>l</i> CDSes.....	5-4
6-1	Compression Identification Packet Structure.....	6-1
6-2	Source Configuration Field	6-3

Table

3-1	Fundamental Sequence Codewords As a Function of the Preprocessed Samples	3-2
3-2	Zero-Block Fundamental Sequence Codewords As a Function of the Number of Consecutive All-Zeros Blocks.....	3-4
5-1	Selected Code Option Identification Key	5-1