

# Table of Contents

## 1 Introduction

1.1 General . . . . .	1-1
1.2 Purpose . . . . .	1-1
1.3 Applicability of Technical Requirements . . . . .	1-1
1.4 Alternative Arrangements . . . . .	1-1
1.5 Organization of Document . . . . .	1-2

## 2 General Description

2.1 Description of Services . . . . .	2-1
2.1.1 Access Service MT1 . . . . .	2-1
2.1.2 Access Service MT2 . . . . .	2-1
2.1.3 Access Service MT3 . . . . .	2-1
2.1.4 Access Service TG1 . . . . .	2-2
2.1.5 Access Service TG2 . . . . .	2-2
2.2 Service Configurations . . . . .	2-2
2.2.1 Effective 2-Wire . . . . .	2-2
2.2.2 Effective 4-Wire . . . . .	2-2
2.3 Optional Features . . . . .	2-2
2.3.1 Access Services MT1 and MT3 . . . . .	2-2
2.3.2 Access Service MT2 . . . . .	2-2
2.3.3 Access Services TG1 and TG2 . . . . .	2-3

## 3 Network Channel Interface (NCI) Codes and Combinations

3.1 General . . . . .	3-1
3.2 Network Channel Interface (NCI) Code Definitions . . . . .	3-1
3.2.1 Code Components . . . . .	3-1
3.2.2 Protocol Code . . . . .	3-3
3.2.3 Nominal Reference Impedance . . . . .	3-3
3.2.4 Protocol Option . . . . .	3-3
3.2.5 High-Capacity Interfaces . . . . .	3-5
3.2.6 Multiplexed Metallic and Telegraph Grade Interfaces . . . . .	3-5

## 4 Technical Requirements

4.1 General . . . . .	4-1
4.2 Technical Characteristics of Service . . . . .	4-1
4.2.1 Access Service MT1 . . . . .	4-1
4.2.2 Access Service MT2 . . . . .	4-2
4.2.3 Access Service MT3 . . . . .	4-3
4.2.4 Access Service TG1 . . . . .	4-4
4.2.5 Access Service TG2 . . . . .	4-6
4.3 Illustrative Applications . . . . .	4-8
4.3.1 Access Service MT1 . . . . .	4-8
4.3.2 Access Service MT2 . . . . .	4-8
4.3.3 Access Service MT3 . . . . .	4-9
4.3.4 Access Services TG1 and TG2 . . . . .	4-9

4.4 Acceptance and Immediate Action Limits . . . . . 4-9

4.4.1 Access Service MT1 . . . . . 4-9

4.4.2 Access Service MT2 . . . . . 4-9

4.4.3 Access Service MT3 . . . . . 4-9

4.4.4 Access Service TG1 . . . . . 4-10

4.4.5 Access Service TG2 . . . . . 4-10

**5 Interface Illustrations**

5.1 Interface Type 2DB2-10 . . . . . 5-2

5.2 Interface Type 2DB2-43 . . . . . 5-3

5.3 Interface Type 4DB2-10 . . . . . 5-4

5.4 Interface Type 4DB2-43 . . . . . 5-5

5.5 Interface Type 2DC8-1 . . . . . 5-6

5.6 Interface Type 2DC8-2 . . . . . 5-7

5.7 Interface Type 2DC8-3 . . . . . 5-8

5.8 Interface Type 10IA8 . . . . . 5-9

5.9 Interface Type 2TT8-2 . . . . . 5-10

5.10 Interface type 2TT8-3 . . . . . 5-11

5.11 Interface Type 2TT8-6 . . . . . 5-12

5.12 Interface Type 4TT8-2 . . . . . 5-13

5.13 Interface Type 4TT8-6 . . . . . 5-14

**Appendix A: References**

A.1 Telcordia Documents . . . . . A-1

**Appendix B: Glossary**

## List of Figures

Figure 4-1	Access Service MT1 . . . . .	4-2
Figure 4-2	Access Service MT2 . . . . .	4-3
Figure 4-3	Access Service MT3 . . . . .	4-4
Figure 4-4	Access Service TG1 . . . . .	4-5
Figure 4-5	Access Service TG2 . . . . .	4-7

## List of Tables

Table 3-1	Total Wires . . . . .	3-2
Table 3-2	Glossary of Protocol Codes and Selected Options . . . . .	3-2
Table 3-3	Impedance Codes . . . . .	3-2
Table 3-4	Compatible Interface Combinations . . . . .	3-4
Table 4-1	4-Wire Channel Frequencies (Single Bandwidth) . . . . .	4-5
Table 4-2	2-Wire Channel Combinations . . . . .	4-6
Table 4-3	4-Wire Channel Frequencies (Double Bandwidth) . . . . .	4-7
Table 4-4	2-Wire Channel Combinations . . . . .	4-8