

Contents

Preface	Preface-1
1. Introduction	1-1
1.1 Definition	1-1
1.2 Background	1-3
1.3 High Level Feature Description	1-4
1.3.1 Deluxe Automatic Route Selection (ARS-D)	1-5
1.3.2 Automatic Alternate Routing	1-7
1.3.3 Uniform Numbering	1-8
1.3.4 Traveling Class Marks	1-9
2. User Perspective	2-1
2.1 Caller	2-1
2.2 Customer	2-1
3. Feature Requirements	3-1
3.1 Feature Operations	3-1
3.1.1 Main Feature Operations	3-1
3.1.1.1 Dialing Plan	3-1
3.1.1.2 Routing Plan	3-2
3.1.2 Other Feature Operations	3-9
3.1.3 Release Treatment	3-9
3.1.4 Interrupt Treatment	3-9
3.1.5 Error Treatment and Abnormal Events	3-9
3.2 Internal Call Processing Controls	3-10
3.2.1 Connections	3-10
3.2.2 Class of Service	3-10
3.2.3 Code Interpretation	3-10
3.2.4 Screening	3-11
3.2.5 Routing	3-11
3.2.6 Charge Treatment Determination	3-11
3.2.7 Overload	3-11
3.3 Signaling	3-11
3.3.1 Customer Loop	3-11
3.3.2 Customer Signaling	3-11
3.3.3 Intersystem DC Signaling	3-12
3.3.4 Intersystem AC Signaling	3-12
3.3.5 Operator Services Signaling	3-13
3.4 Transmission	3-13
3.5 Administration	3-13
3.5.1 Service Changes	3-13
3.5.1.1 Service Changes by Telephone Company	3-13
3.5.1.2 Service Changes by Customer	3-14
3.5.2 Installation	3-14
3.5.3 Modification or Retrofit	3-14

3.5.4	Person/System Interface	3-14
3.5.5	Traffic Measurements	3-14
3.5.6	Maintenance Measurements	3-14
3.5.7	Network Management	3-15
3.5.8	Billing and Comptroller	3-15
3.5.9	Quantities	3-15
3.5.10	Data Format and Usage	3-15
3.5.11	Message Detail Recording	3-15
3.6	Maintenance	3-16
3.7	Performance	3-16
3.8	Interactions	3-16
3.9	Limitations and Restrictions	3-16
3.9.1	Unusual Feature Operation	3-16
3.9.2	Restriction Capability	3-16
3.10	Timing and Tolerances	3-16
4.	Feature Flow Diagram	4-1
	References	References-1
	Glossary	Glossary-1

List of Figures

Figure 4-1.	Example Networks	4-1
-------------	----------------------------	-----

List of Tables

Table 3-1.	Customer A Dialing Plan	3-17
Table 3-2.	Customer B Dialing Plan	3-17
Table 3-3.	Customer A Default FRL Assignments	3-17
Table 3-4.	Customer B Default FRL Assignments	3-18
Table 3-5.	Customer A Alternate FRL Conversion Table	3-18
Table 3-6.	Customer B Alternate FRL Conversion Table	3-18
Table 3-7.	Customer A Alternate FRL Assignments	3-19
Table 3-8.	Customer B Alternate FRL Assignments	3-19
Table 3-9.	Customer A Patterns	3-19
Table 3-10.	Customer B Pattern	3-20
Table 3-11.	Customer A Node 1 Pattern Groups	3-20
Table 3-12.	Customer A Node 2 Pattern Groups	3-20
Table 3-13.	Customer A Node 3 Pattern Groups	3-21
Table 3-14.	Customer B Pattern Groups	3-21
Table 3-15.	Customer A Schedule	3-21
Table 3-16.	Customer B Schedule	3-22