

## Contents

1. Introduction . . . . .	1-1
1.1 Purpose and Scope . . . . .	1-1
1.2 Background and Objectives . . . . .	1-1
1.3 Relation to other Telcordia Documentation . . . . .	1-2
1.4 Relation to Standards . . . . .	1-3
1.5 Requirements Terminology . . . . .	1-4
2. High Level Description . . . . .	2-1
2.1 Terminology . . . . .	2-1
2.2 Interface Configurations . . . . .	2-2
2.2.1 ICAN Call-by-Call Access to Intraswitch ICAN Facilities . . . . .	2-3
2.2.2 ICAN Call-by-Call Access to Interswitch Virtual Private Facilities . . . . .	2-4
2.2.3 Dedicated ICAN PRI . . . . .	2-5
2.2.4 Administering the Interface Configuration . . . . .	2-5
2.3 Simulated Facility Groups . . . . .	2-6
2.4 PBX Assumptions . . . . .	2-6
3. ICAN Call Control Feature Requirements . . . . .	3-1
3.1 Switching and Signaling Requirements . . . . .	3-1
3.1.1 Call Origination . . . . .	3-1
3.1.1.1 ICAN Call-by-Call Service Selection PRI . . . . .	3-1
3.1.1.2 Dedicated ICAN PRI . . . . .	3-4
3.1.2 Call Termination . . . . .	3-5
3.1.2.1 Call Delivery to an ICAN Call-by-Call Service Selection PRI . . . . .	3-6
3.1.2.2 Call Delivery to a Dedicated ICAN PRI . . . . .	3-10
3.1.2.3 Expiration of Timer T303 or T-delay . . . . .	3-10
3.1.2.4 Call Rejected by the Called Party . . . . .	3-11
3.1.2.5 B-Channel Connection . . . . .	3-11
3.1.2.6 Actions on expiration of timer T310 . . . . .	3-12
3.1.2.7 Called Party Alerting . . . . .	3-12
3.1.2.8 Call Progress Indication . . . . .	3-12
3.1.2.9 Called Party Answer . . . . .	3-12
3.1.3 Call Clearing . . . . .	3-12
3.1.4 Error Treatment and Abnormal Events . . . . .	3-13
3.2 Simulated Facility Groups . . . . .	3-14
3.3 Internal Call Processing Controls . . . . .	3-15
3.3.1 Code Interpretation and Screening . . . . .	3-15
3.3.3 Routing . . . . .	3-16
4. Layer 3 Messages and Information Elements . . . . .	4-1
4.1 Messages . . . . .	4-1
4.1.1 SETUP Message . . . . .	4-1
4.2 Information Elements . . . . .	4-4
4.2.1 Called Party Number . . . . .	4-4
4.2.2 Calling Party Number . . . . .	4-5
4.2.3 Cause . . . . .	4-5

4.2.4 Network-Specific Facilities . . . . .	4-6
4.2.5 Progress Indicator . . . . .	4-9
5. Operations and Administration . . . . .	5-1
5.1 Memory Administration (Service Changes/Subscription Parameters) . . . . .	5-1
5.2 Network Maintenance . . . . .	5-4
5.2.1 Surveillance . . . . .	5-5
5.2.2 Testing . . . . .	5-5
5.3 Network Data Collection . . . . .	5-5
5.3.1 Simulated Facility Groups Measurements . . . . .	5-5
5.3.2 Special Study Measurements . . . . .	5-6
5.4 Network Traffic Management . . . . .	5-6
6. Timing and Tolerances . . . . .	6-1
Appendix A: Data Dictionary . . . . .	A-1
A.1 Scope and Definition . . . . .	A-1
A.2 Allowed Data Values . . . . .	A-1
A.3 Data Dictionary . . . . .	A-2
Appendix B: References . . . . .	B-1
Appendix C: Glossary . . . . .	C-1

## List of Figures

Figure 2-1	Intrastwitch ICAN Facilities . . . . .	2-3
Figure 2-2	ICAN with Interswitch Virtual Private Facilities . . . . .	2-4
Figure 2-3	Dedicated ICAN PRI . . . . .	2-5
Figure 4-1	Network-Specific Facilities Information Element . . . . .	4-7

## List of Tables

Table 2-1	Administration of the Interface Configuration . . . . .	2-6
Table 4-1	SETUP Message Content (SPCS->PBX) (Sheet 1 of 2) . . . . .	4-1
Table 4-1	SETUP Message Content (SPCS->PBX) (Sheet 2 of 2) . . . . .	4-2
Table 4-2	SETUP Message Content (PBX -> SPCS) (Sheet 1 of 2) . . . . .	4-3
Table 4-2	SETUP Message Content (PBX -> SPCS) (Sheet 2 of 2) . . . . .	4-4