Generic Requirements for ISDN Calling Name Identification Services for Primary Rate Interfaces (PRI)

Contents

Preface Preface–1

1. Introduction 1–1
   - 1.1 Definition 1–1
   - 1.2 Background 1–2
   - 1.3 Terminal Assumptions 1–3
   - 1.4 Summary of Changes to GR-1367-CORE, Issue 1 1–4
   - 1.5 Summary of Changes From TA-NWT-001367 1–4
   - 1.6 Requirements Terminology 1–4
     - 1.6.1 Numbering of Requirements 1–5

2. General Information 2–1
   - 2.1 High Level Feature Description 2–1
     - 2.1.1 Presentation of Calling Name (PCN) Feature 2–1
     - 2.1.2 Name Delivery 2–1
     - 2.1.3 Link Calling Name Presentation to Calling Number Presentation 2–3
   - 2.2 User Perspective 2–3
     - 2.2.1 Calling User 2–3
     - 2.2.2 Called/Remote User 2–4

3. Feature Requirements 3–1
   - 3.1 Feature Operations 3–1
     - 3.1.1 Main Feature Operations 3–1
       - 3.1.1.1 Presentation of Calling Name (PCN) 3–1
       - 3.1.1.2 Link Calling Name Presentation to Calling Number Presentation 3–2
       - 3.1.1.3 ISDN Calling Name Delivery (I-CNAM) 3–2
     - 3.1.2 Release Treatment 3–6
     - 3.1.3 Interworking Feature Operation 3–7
     - 3.1.4 Error Treatment and Abnormal Events 3–7
   - 3.2 Internal Call-Processing Controls 3–8
     - 3.2.1 Class of Service/Configuration 3–8
     - 3.2.2 Overload 3–8
   - 3.3 Signaling/Message Structure 3–8
     - 3.3.1 Customer Signaling/User-Network Interface 3–8
     - 3.3.2 Common Channel Signaling (CCS) 3–11
       - 3.3.2.1 Procedures at an Originating SPCS 3–11
       - 3.3.2.2 Procedures at a Terminating SPCS 3–12

3.3.2.3 Procedures at a Terminating AIN SSP 3–15
3.3.3 Operator Service Signaling 3–16
3.4 Administration/Operations 3–16
3.4.1 Memory Administration (Service Changes/Subscription Parameters) 3–17
3.4.1.1 Service Changes/Subscription Parameters 3–17
3.4.1.2 Operation Requirements for SS7 3–20
3.4.2 Network Maintenance 3–20
3.4.2.1 Surveillance 3–21
3.4.2.2 Testing 3–21
3.4.3 Network Data Collection (NDC) 3–21
3.4.4 Network Traffic Management (NTM) 3–23
3.4.5 Billing and Comptroller 3–23
3.5 Interactions 3–24
3.5.1 Interaction with Integrated Customer Advanced Network (ICAN) . 3–24
3.5.1.1 High-Level Feature Description 3–24
3.5.1.2 Coding for Facility Information Element Components ... 3–27
3.5.1.3 Originating ICAN Calling Name Service 3–27
3.5.1.4 Terminating ICAN Calling Name Service 3–29
3.5.1.5 ICAN Redirecting Name 3–30
3.5.1.6 ICAN Connected Name 3–32
3.5.1.7 Interworking with the Public Network 3–36
3.5.1.8 ICAN Calling Name Service Subscription Parameters ... 3–37
3.5.1.9 Error Treatment 3–38
3.5.1.10 Billing for ICAN Calling Name Service 3–38
3.5.2 Other Interactions 3–38
3.6 Limitations and Restrictions 3–40
3.7 Timing and Tolerances 3–41

4. ASN.1 Definition 4–1

References References–1

Glossary Glossary–1

List of Figures

Figure 3-1. Request to Select Per-Call Name Presentation Status 3–9
Figure 3-2. Name Information, or Indication That Name Information Will Follow. 3–10
Figure 3-3. Name Information Delivered to Called CTE..... 3–10

List of Tables

Table 3-1. Summary of ISDNUP/TCAP GN Presentation Coding 3–14
Table 3-2. Coding of ICAN Connected Name and Number Display Information .. 3–35
Table 3-3. Coding of ICAN Connected Name Display Information 3–36
Table 4-1. ASN.1 Definition 4–1