

Enhanced MF Signaling: E9-1-1 Tandem to PSAP Interface

Contents

Preface	Preface-1
1. Introduction.....	1-1
1.1 Purpose	1-1
1.2 Scope	1-2
1.3 Reason for Revision.....	1-2
1.4 Target Audience	1-2
1.5 Assumptions	1-2
1.6 Requirements Terminology	1-4
1.7 Requirement Labeling Conventions	1-5
1.7.1 Numbering of Requirement and Related Objects	1-5
1.7.2 Requirement, Conditional Requirement, and Objective Object Identification	1-6
2. User Perspective	2-1
3. PSAP Perspective	3-1
4. E9-1-1 Network Provider Perspective.....	4-1
5. E9-1-1 Tandem Switch Requirements	5-1
5.1 Call-Type Determination.....	5-1
5.1.1 Emergency Calls	5-1
5.1.2 Direct Calls	5-2
5.1.3 Test Calls	5-2
5.1.4 Distinguishing Wireline Calls From Wireless Mobile Calls	5-2
5.2 E9-1-1 Tandem Call Processing.....	5-3
5.2.1 Determination of Calling Station Number	5-3
5.2.2 Routing.....	5-5
5.2.3 Default Routing	5-6
5.2.4 Alternate Routing.....	5-6
5.3 E9-1-1 Tandem Feature Operation.....	5-6
5.3.1 Call Transfer	5-6
5.3.2 Trunk Maintenance Test Calls	5-8
5.4 E9-1-1 Tandem Translations Database.....	5-8
5.4.1 E9-1-1 Tandem Common Information.....	5-9
5.4.2 Emergency Service Number Information.....	5-9
5.4.3 PSAP Interface Information	5-9
5.4.4 Incoming Trunk Group Information.....	5-11
6. E9-1-1 Tandem to PSAP Interface Signaling Requirements	6-1
6.1 Background of the II+10+10-Digit MF Signaling Protocol	6-1
6.2 Designation of the “II” Information Digits.....	6-2
6.3 Enhanced MF Signaling for E9-1-1 Wireline Calls	6-3

6.4	Enhanced MF Signaling for E9-1-1 Wireless Calls	6-3
6.5	Enhanced MF Signaling for E9-1-1 Test Calls	6-5
7.	Operator Services' Processing of E9-1-1 Calls	7-1
8.	Network Impacts	8-1
8.1	Reliability	8-1
8.2	Tandem-To-Tandem Signaling For E9-1-1 Calls.....	8-1
	References.....	References-1
	Glossary.....	Glossary-1

List of Figures

Figure 1-1. Representative Architecture Showing Interfaces (MF, CCS, ISDN, Wireless) and Interworking Points	1-4
--	-----