



ATIS-100055.2024

**Emergency Telecommunications Service (ETS):
Core Network Security Requirements**

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American National Standard for Telecommunications

Emergency Telecommunications Service (ETS): Core Network Security Requirements

Alliance for Telecommunications Industry Solutions

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American National Standards Institute, Inc.

Abstract

The integrity, confidentiality, and availability of Emergency Telecommunication Service (ETS) in a multi-provider Next Generation Network (NGN) environment will depend on the security of each individual network involved in an end-to-end communication. To allow network provided security of end-to-end ETS communications in a multi-provider environment, intra-network domain and inter-network domain security requirements for ETS protection are needed. This standard provides a minimum set of common (i.e., independent of network type or technology) and core network security requirements for the protection of ETS in a multi-provider NGN environment.

Foreword

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At the time it approved this document, PTSC, which is responsible for the development of this Standard, had the following leadership:

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Table of Contents

1	SCOPE, PURPOSE, & APPLICATION	1
1.1	SCOPE	1
1.2	PURPOSE.....	1
1.3	APPLICATION	1
1.4	RELATIONSHIP OF CONCEPTS & TERMS	1
1.5	SECURITY THREATS & RISKS	2
1.6	REFERENCE ARCHITECTURE	2
1.7	ASSUMPTIONS.....	3
2	NORMATIVE REFERENCES	4
2.1	ATIS REFERENCES.....	4
2.2	ITU-T REFERENCES	4
2.2	OTHER.....	5
3	DEFINITIONS, ACRONYMS, & ABBREVIATIONS.....	5
3.1	DEFINITIONS	5
3.2	ACRONYMS & ABBREVIATIONS	6
4	GENERAL SECURITY OBJECTIVES & REQUIREMENTS.....	8
4.1	GENERAL OBJECTIVE.....	8
4.2	GENERAL GUIDELINES.....	9
4.3	ETS FUNCTIONAL REQUIREMENTS.....	9
4.4	GENERAL REQUIREMENTS.....	10
4.5	PROTECTION OF PRIORITY SERVICES USER INFORMATION.....	11
4.6	COMMON REQUIREMENTS	11
5	NGN PS AUTHENTICATION & ACCESS CONTROL.....	12
5.1	PROTECTION AGAINST UNAUTHORIZED ACCESS	12
5.2	ENHANCING DEVICE SUBSCRIPTION VALIDATION	12
5.3	ENHANCING PIN AUTHENTICATION & AUTHORIZATION FOR VOICE SERVICES	13
5.4	AUTHENTICATION OF NGN PRIORITY SERVICES, SERVICE PROVIDER.....	16
6	NETWORK-TO-NETWORK INTERFACE	17
6.1	AUTHENTICATION	17
6.1.1	<i>Mutual Authentication of Service Provider</i>	<i>17</i>
6.2	ACCESS CONTROL	17
6.3	INTEGRITY	18
6.4	CONFIDENTIALITY.....	19
7	USER-TO-NETWORK INTERFACE	20
7.1	AUTHENTICATION	20
7.2	ACCESS CONTROL	21
7.3	INTEGRITY	21
7.4	CONFIDENTIALITY.....	21
7.5	DATA COMMUNICATIONS BETWEEN AUTHORIZED GOVERNMENT AGENCY & SERVICE PROVIDER	22
7.5.1	<i>Authentication</i>	<i>22</i>
7.5.2	<i>Access Control</i>	<i>22</i>
7.5.3	<i>Integrity.....</i>	<i>22</i>
7.5.4	<i>Confidentiality.....</i>	<i>23</i>
8	APPLICATION/SERVER-TO-NETWORK INTERFACE	23
8.1	AUTHENTICATION	23
8.2	ACCESS CONTROL	24

8.3	INTEGRITY	24
8.4	CONFIDENTIALITY.....	25
9	INTRA-NETWORK COMMUNICATIONS	25
9.1	AUTHENTICATION	26
9.2	ACCESS CONTROL	26
9.3	INTEGRITY	27
9.4	CONFIDENTIALITY.....	27
10	SECURITY FOR THE MANAGEMENT PLANE	28
10.1	MANAGEMENT PLANE SECURITY REQUIREMENTS.....	28
10.1.1	<i>Identification</i>	29
10.1.2	<i>Authentication</i>	29
10.1.3	<i>Authorization & Privilege Management</i>	30
10.1.4	<i>Access Control</i>	30
10.1.5	<i>System & Data Integrity</i>	32
10.1.6	<i>Data Confidentiality</i>	35
10.1.7	<i>Management Communications</i>	36
11	IP TRANSPORT NETWORK SECURITY	36
11.1	INTRA-NETWORK IP TRANSPORT	37
11.1.1	<i>General</i>	37
11.1.2	<i>Routing Functions & Protocols</i>	37
11.1.3	<i>Use of Encryption</i>	38
11.2	INTER-NETWORK IP TRANSPORT	39
11.2.1	<i>General</i>	39
11.2.2	<i>Routing Functions & Protocols</i>	40
11.2.3	<i>Use of Encryption</i>	41
12	MANAGEMENT OF SECURITY FOR NGN PRIORITY SERVICES.....	42
12.1	GENERAL OBJECTIVES & REQUIREMENTS.....	42
12.2	RISK ASSESSMENT.....	43
12.3	SECURITY ARCHITECTURE & SOLUTIONS	44
12.3.1	<i>Security Policies</i>	44
12.3.2	<i>Security Architecture Design</i>	45
12.4	SECURITY OPERATIONS	46
12.4.1	<i>Organizational Structure, Roles, & Responsibility</i>	46
12.4.2	<i>Security Training & Awareness</i>	47
12.4.3	<i>Management of Insider Threats</i>	47
12.4.4	<i>Collaboration for Cyber Security Information Exchange</i>	47
12.4.5	<i>Management of Incident Response & Recovery from Security Events</i>	48
12.4.6	<i>Management of Supply Chain</i>	48
13	AVAILABILITY	48
13.1	INTRODUCTION.....	48
13.2	GENERAL OBJECTIVES	49
13.3	PROTECTION FROM SERVICE DEGRADATION	50
13.4	AVAILABILITY PROTECTION.....	50
13.4.1	<i>Denial of Service</i>	50
13.4.2	<i>Resource Exhaustion</i>	50
13.5	DIVERSITY & REDUNDANCY FOR SURVIVABILITY	51
13.6	SECURITY MONITORING AT NGN PS SPECIFIC EQUIPMENT.....	52
14	BIBLIOGRAPHY	53
A	EXAMPLE SERVICE LEVEL AGREEMENT (SLA) TEMPLATE FOR NS/EP NGN-PS SECURITY	54

A. 1 GENERAL SLA CONCEPTS	54
A.1.1 Overview of the M.3342 SLA Templates.....	55
A.2 SPECIAL CONSIDERATIONS FOR NETWORK-TO-NETWORK INTERFACE	56
A.3 SPECIAL CONSIDERATIONS FOR INTERNETWORK IP TRANSPORT.....	58
A.4 NGN-PS SECURITY TEMPLATES.....	59
A.4.1 Proforma for “NGN PS Security Point of Contact”	59
A.4.2 Proformas for “NGN PS Security Parameters”	61
A.4.3 Proforma for “NGN PS Security Design Information”	63
A.4.4 Proforma for “NGN PS Security Recovery Mechanisms”	63
A.4.5 Proforma for “NGN PS Security Report”	64

Table of Figures

FIGURE 1-1 – RELATIONSHIP OF CONCEPTS AND TERMS.....	2
FIGURE 1-2 – NGN CONNECTIVITY AND INTERFACES [ITU-T Y.2012]	3
FIGURE 4-1 – EXAMPLE OF END-TO-END COMMUNICATION ACROSS DIFFERENT SERVICE PROVIDER DOMAINS.....	8
FIGURE 11-1 – IP NETWORK INTERCONNECTION SCENARIOS	39
FIGURE 12-1 – EXAMPLE SECURITY ARCHITECTURE FOR CORE NETWORK.....	46
FIGURE A.1 - SLA SCENARIO SCHEMATIC	54
FIGURE A.2 - BASIC COMPOSITION OF SLA CONTENT (PER 1/M.3342)	55
FIGURE A.3 - SLA CONTENT STRUCTURE.....	58

Table of Tables

TABLE 4.1: ORIGINAL TABLE OF ETS FUNCTIONAL REQUIREMENTS [ATIS-0100009].....	10
TABLE 5.1: NGN PRIORITY SERVICES EXISTING AND PROPOSED ENHANCED AUTHENTICATION AND AUTHORIZATION METHODS FOR VOICE SERVICES	15
TABLE A.1 - NGN PS AUTHENTICATION AT NNI” PROFORMA.....	56
TABLE A.2 - NGN PS ACCESS CONTROL AT NNI” PROFORMA.....	57
TABLE A.3 - “NGN PS INTEGRITY AT NNI” PROFORMA	57
TABLE A.4 - NGN PS CONFIDENTIALITY AT NNI” PROFORMA	58
TABLE A.5 - NGN PS SECURITY FOR INTERNETWORK IP TRANSPORT” PROFORMA	59
TABLE A.6 - NGN PS SECURITY FOR IP ROUTING FUNCTIONS AND PROTOCOLS” PROFORMA	59
TABLE A.7 - NGN PS SECURITY FOR IPSEC TUNNELS” PROFORMA	59
TABLE A.8 - “NGN PS SECURITY POINT OF CONTACT” PROFORMA	60
TABLE A.9 - “NGN PS SECURITY METRICS” PROFORMA	61
TABLE A.10 - NGN PS SECURITY KPI DEFINITION” PROFORMA.....	62
TABLE A.11 – “NGN PS KQI DEFINITION” PROFORMA	62
TABLE A.12 - NGN PS SECURITY DESIGN INFORMATION” PROFORMA.....	63
TABLE A.13 - “NGN PS SECURITY RECOVERY MECHANISMS” PROFORMA.....	64
TABLE A. 14 - “NGN PS SECURITY REPORT” PROFORMA	64

American National Standard for Telecommunications–

Emergency Telecommunications Service (ETS): Core Network Security Requirements

1 Scope, Purpose, & Application

1.1 Scope

The integrity, confidentiality, and availability of Emergency Telecommunication Service (ETS) in a multi-provider Next Generation Network (NGN) environment will depend on the security of each individual network involved in an end-to-end communication. To allow network provided security of end-to-end ETS communications in a multi-provider environment, intra-network domain and inter-network domain security requirements for ETS protection are needed. This standard provides minimum security requirements for the security protection of ETS in a multi-provider NGN environment.

The scope of this standard is common (i.e., requirements that are independent of network type or technology) and core network security requirements in the context of supporting ETS in a multi-provider NGN environment. The scope of the security requirements includes integrity, confidentiality, and availability protection for ETS communications within a network and across network boundaries (i.e., between different network domains).

1.2 Purpose

The purpose of this standard is to provide a minimum set of security requirements that can be used to facilitate the security protection of ETS communications across directly or indirectly interconnected networks. The requirements in this standard are intended to protect ETS applications and resources against security threats, including protection of the network infrastructure supporting the ETS applications.

Another purpose of this standard is to promote interoperability in a multi-network, multi-service provider, and multi-vendor environment.

1.3 Application

This standard is applicable to public networks supporting ETS. Private enterprise networks may also use this standard.

1.4 Relationship of Concepts & Terms

National Security/Emergency Preparedness Next Generation Network Priority Service (NS/EP NGN-PS), Legacy Government Emergency Telecommunication Service (GETS), and Wireless Priority Service (WPS) are all facets of the U.S.A. instantiation of the international standard for ETS [E.107]. The relationship of the terms is portrayed in Figure 1-1.