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Contents

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Foreword

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Introduction

The TISPAN NGN R3 security is defined by the security requirements in the present document, while the architectural aspects and stage 2 implementations outline are covered in the Security Architecture for R3 (TS 187 003 [1]).

1 Scope

The present document defines the security requirements pertaining to TISPAN NGN Release 3. The present document holds requirements for the various NGN subsystems defined at a stage 1 level. The present document covers security requirements for both the NGN core network, and the NGN access network(s).

The main scope of the security requirements for the different subsystems are to identify requirements in the following main areas:

- Security Policies.
- Authentication, Authorization, Access Control and Accountability.
- Identity and Secure Registration.
- Communications and Data Security Requirements (including confidentiality, integrity aspects).
- Privacy.
- Key Management.
- NAT/Firewall Interworking.
- Availability and DoS protection.
- Assurance.
- Strength of Security Mechanisms.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1] ETSI TS 187 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN Security; Security Architecture".

[2] ETSI TS 133 203: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); 3G security; Access security for IP-based services (3GPP TS 33.203)".

[3] ETSI TS 133 210: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); 3G security; Network Domain Security (NDS); IP network layer security (3GPP TS 33.210)".

[4] ETSI EG 202 238: "Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON); Evaluation criteria for cryptographic algorithms".