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Contents

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1 Scope

The present document specifies the security architecture for the H(e)NB subsystem. This includes security requirements on Home Node Bs, Home eNode Bs, and other H(e)NB-associated network nodes (e.g. SeGW and H(e)MS), as well as the procedures and features which are provided to meet those requirements.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

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[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 32.583: "Telecommunications management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Procedure flows for Type 1 interface HNB to HNB Management System (HMS) ".

[3] IETF RFC 4187: "Extensible Authentication Protocol Method for 3rd Generation Authentication and Key Agreement (EAP-AKA) ".

[4] - [5] Void.

[6] IETF RFC 4739: "Multiple Authentication Exchanges in the Internet Key Exchange (IKEv2 Protocol", Nov 2006".

[7] 3GPP TS 33.310: "Network Domain Security (NDS); Authentication Framework (AF) ".

[8] 3GPP TS 23.003: "Numbering, addressing and identification".

[9] 3GPP TS 33.210: "3G security; Network Domain Security (NDS); IP network layer security".

[10] 3GPP TS 33.234: "3G security; Wireless Local Area Network (WLAN) interworking security".

[11] 3GPP TS 32.593: "Telecommunication management; Procedure flows for Type 1 interface H(e)NB to H(e)NB Management System (H(e)MS) ".

[12] 3GPP TS 25.467: "UTRAN architecture for 3G Home Node B (HNB); Stage 2".

[13] - [14] Void.

[15] The Broadband Forum TR-069: "CPE WAN Management Protocol v1.1", Issue 1 Amendment 2, December 2007.

[16] - [17] Void.

[18] ETSI ES 282 004 (V1.1.1): "Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); NGN functional architecture; Network Attachment Sub-System (NASS) ", 2006.

[19] ETSI ES 283 035 (V1.1.1): "Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); Network Attachment Sub-System (NASS); e2 interface based on the DIAMETER protocol", 2006.

[20] 3GPP TS 33.102: "3G security; Security architecture".