Draft PAR Confirmation Number

Submittal Email: vivekggupta@ieee.org

Type of Project: "Amendment to Existing Standard"

1.1 Project Number: P802.21a

1.2 Type of Document: Standard for

1.3 Life Cycle: Full

1.4 Is this project in ballot now? No

2.1 Title of Standard: Standard for Local and Metropolitan Area Networks: Media Independent Handover Services - Security Extensions to Media Independent Handover Services and Protocol

3.1 Name of Working Group: Media Independent Handoff Working Group(C/LM/WG802.21)
Contact information for Working Group Chair
Vivek Gupta
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US, vivekggupta@ieee.org
Working Group Vice Chair: Subir Das
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US, **Email:** subir@research.telcordia.com

3.2 Sponsoring Society and Committee:IEEE Computer Society/Local and Metropolitan Area Networks(C/LM)
Contact information for Sponsor Chair:
Paul Nikolich
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Contact information for Standards Representative:

4.1 Type of Ballot: Individual

4.2 Expected Date of Submission for Initial Sponsor Ballot: 2010-11

4.3 Projected Completion Date for Submittal to RevCom: 2011-08

5.1 Approximate number of people expected to work on this project: 30

5.2 Scope of Proposed Standard: N/A

5.3 Is the completion of this standard is dependent upon the completion of another standard: No
If yes, please explain:

5.4 Purpose of Proposed Standard:
- Define mechanisms to reduce the latency of authentication and key establishment signaling for handovers between access networks that support IEEE   802.21.
- Define mechanisms that provide data integrity, replay protection, confidentiality and data origin authentication to IEEE 802.21 MIH (Media-Independent Handover) protocol exchanges. Define mechanisms to enable authorization for MIH services.

5.5 Need for the Project:
- It is essential to reduce the latency of authentication and key establishment signaling to realize session continuity for real-time applications. This is especially true in handover scenarios wherein the mobile node disconnects its active connection with the serving access network before making another connection with the target access network.
- Security of MIH protocol currently relies on the security of the underlying transport protocols without a mechanism to authenticate peer MIH entities. This lack of authentication of peer MIH entities does not provide proper authorization for MIH services. As such it is required to secure the MIH protocol and develop mechanisms to authenticate peer MIH entities.

5.6 Stakeholders for the Standard: Semiconductor manufacturers, mobile and wireless device manufacturers and network operators.

Intellectual Property
6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes
If yes, state date: 2008-05-12
If no, please explain:
6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No
If yes, please explain:
6.1.c. Is the Sponsor aware of possible registration activity related to this project? No
If yes, please explain:

7.1 Are there other standards or projects with a similar scope? No
Explanation:
Sponsor Organization:
Project/Standard Number:
Project/Standard Date: 0000-00-00
Project/Standard Title:

7.2 International Standards Activities
a. Adoptions
 Is there potential for this standard to be adopted by another organization? No
 Organization:
 Technical Committee Name:

Technical Committee Number:
Contact person Name:
Contact Phone:
Contact Email:
b. Joint Development
Is it the intent to develop this document jointly with another organization? No
Organization:
Technical Committee Name:
Technical Committee Number:
Contact person Name:
Contact Phone:
Contact Email:
c. Harmonization
Are you aware of another organization that may be interested in portions of this
document in their standardization development efforts? No
Organization:
Technical Committee Name:
Technical Committee Number:
Contact person Name:
Contact Phone:
Contact Email:

8.1 Additional Explanatory Notes: (Item Number and Explanation)