IEEE 802 network enhancements for the next decade

Industry Connections Activity Initiation Document (ICAID)

Version: 1.1, 2017-03-15

# Instructions

* Instructions on how to fill out this form are shown in red. It is recommended to leave the instructions in the final document and simply add the requested information where indicated.
* Shaded Text indicates a placeholder that should be replaced with information specific to this ICAID, and the shading removed.
* Completed forms, in Word format, or any questions should be sent to the IEEE Standards Association (IEEE-SA) Industry Connections Committee (ICCom) Administrator at the following address: industryconnections@ieee.org.
* The version number above, along with the date, may be used by the submitter to distinguish successive updates of this document. A separate, unique Industry Connections (IC) Activity Number will be assigned when the document is submitted to the ICCom Administrator.
1. Contact

Provide the name and contact information of the primary contact person for this IC activity. Affiliation is any entity that provides the person financial or other substantive support, for which the person may feel an obligation. If necessary, a second/alternate contact person’s information may also be provided.

**Name:** Glenn Parsons

**Email Address:** glenn.parsons@ericsson.com

**Phone:** 613-963-8141

**Employer:** Ericsson

**Affiliation:** Ericsson

1. Participation and Voting Model

Specify whether this activity will be entity-based (participants are entities, which may have multiple representatives, one-entity-one-vote), or individual-based (participants represent themselves, one-person-one-vote).

Individual-Based

While operating as a subgroup under IEEE 802.1, any person attending a meeting may vote on all motions (including recommending approval of the deliverables).
A vote is carried by 75% of those present and voting Approve or Disapprove.

1. Purpose
	1. Motivation and Goal

Briefly explain the context and motivation for starting this IC activity, and the overall purpose or goal to be accomplished.

The mobile industry is currently pursuing the development of the next generation mobile communication networks fulfilling the requirements for extreme mobile broadband, massive machine-type communication, and ultra-reliable and low latency communications as specified in ITU-R M.2083 for IMT-2020.

Many of the observed trends and use cases described in ITU-R M.2083 apply as well to communication infrastructures which do not belong to the IMT domain because they do not rely on high-velocity scenarios or on licensed radio spectrum.

IEEE 802 technologies are mainly deployed in communication infrastructures outside of the IMT domain, and may require enhancements to address the emerging requirements of networks for the next decade.

The goal of this activity is to assess emerging requirements for IEEE 802 wireless and higher-layer communication infrastructures outside of the IMT domain, identify commonalities, gaps, and trends not currently addressed by IEEE 802 standards and projects, and facilitate building industry consensus towards proposals to initiate new standards development efforts. Topics concerning enhanced cooperative functionality among existing IEEE standards in support of network integration will be encouraged. Findings related to existing IEEE 802 standards and projects are forwarded to the responsible working groups for further considerations.

* 1. Related Work

Provide a brief comparison of this activity to existing, related efforts or standards of which you are aware (industry associations, consortia, standardization activities, etc.).

There are no known IEEE 802 based activities comparable to this Industry Connections activity proposal.

* 1. Previously Published Material

Provide a list of any known previously published material intended for inclusion in the proposed deliverables of this activity.

None

* 1. Potential Markets Served

Indicate the main beneficiaries of this work, and what the potential impact might be.

IEEE 802 technologies are deployed in a huge number of market applications, which are exhibiting a growing diversity in terms of the features needed. Solutions spanning these different application spaces and feature requirements will be best addressed by leveraging common technology approaches. This activity will enable industry consensus building on the market/application requirements and identify gaps and trends not currently addressed by IEEE 802 standardization of new solutions, which will help to foster industry engagements in new study groups and standardization topics.

1. Estimated Timeframe

Indicate approximately how long you expect this activity to operate to achieve its proposed results (e.g., time to completion of all deliverables).

**Expected Completion Date:** 3/2019

IC activities are chartered for two years at a time. Activities are eligible for extension upon request and review by ICCom and the IEEE-SA Standards Board. Should an extension be required, please notify the ICCom Administrator prior to the two-year mark.

1. Proposed Deliverables

Outline the anticipated deliverables and output from this IC activity, such as documents (e.g., white papers, reports), proposals for standards, conferences and workshops, databases, computer code, etc., and indicate the expected timeframe for each.

There will be two deliverables:

* Records of the meetings, including minutes and supporting presentations.
* A report documenting the findings of the IC activity, with recommendations regarding new standardization topics, documentation of use cases and user needs for those topics, and proposed organizational approaches to ensure effective participation from user communities. It is expected that the first draft of the report documenting the findings of the IC will be available in March 2018.
1. Funding Requirements

Outline any contracted services or other expenses that are currently anticipated, beyond the basic support services provided to all IC activities. Indicate how those funds are expected to be obtained (e.g., through participant fees, sponsorships, government or other grants, etc.). Activities needing substantial funding may require additional reviews and approvals beyond ICCom.

This IC activity would benefit from support of IEEE staff toward the communication of activities among key organizations, including those already operating under IEEE and those representing user communities or potentially cooperative standardization bodies.

1. Management and Procedures
	1. IEEE Sponsoring Committee

Indicate whether an IEEE sponsoring committee of some form (e.g., an IEEE Standards Sponsor) has agreed to oversee this activity and its procedures.

**Has an IEEE sponsoring committee agreed to oversee this activity?:** Yes

If yes, indicate the sponsoring committee’s name and its chair’s contact information.

**Sponsoring Committee Name:** IEEE 802 LAN/MAN Standards Committee

**Chair’s Name:** Paul Nikolich

**Chair’s Email Address:** p.nikolich@ieee.org

**Chair’s Phone:** 857-205-0050

**Working Group Chair:** IEEE 802.1 Higher Layer LAN Protocols Working Group

**Chair’s Name:** Glenn Parsons

**Chair’s Email Address:** glenn.parsons@ericsson.com

**Chair’s Phone:** 613-963-8141

* 1. Activity Management

If no IEEE sponsoring committee has been identified in 7.1 above, indicate how this activity will manage itself on a day-to-day basis (e.g., executive committee, officers, etc).

N/A

* 1. Procedures

Indicate what documented procedures will be used to guide the operations of this activity; either a) modified baseline *Industry Connections Activity Policies and Procedures,* or b) Sponsor or Working Group policies and procedures accepted by the IEEE-SA Standards Board. The chosen policies and procedures must be reviewed by ICCom

IEEE 802 Policies & Procedures

IEEE 802 LMSC Operations Manual

IEEE 802 Working Group Policies & Procedures

1. Participants
	1. Stakeholder Communities

Indicate the stakeholder communities (the types of companies or other entities, or the different groups of individuals) that are expected to be interested in this IC activity, and will be invited to participate.

Stakeholders identified to date include but are not limited to: users and producers of systems and components for networking systems, high performance computing, cloud computing, telecommunications carriers, automotive, intelligent transport systems, eHealth, smart cities, IoT, and industrial applications.

* 1. Expected Number of Participants

Indicate the approximate number of entities (if entity-based) or individuals (if individual-based) expected to be actively involved in this activity.

50 individuals

* 1. Initial Participants

Provide a list of the entities or individuals that will be participating from the outset. It is recommended there be at least three initial participants for an entity-based activity, or five initial participants (each with a different affiliation) for an individual-based activity.

Use the following table for an entity-based activity:

|  |  |  |
| --- | --- | --- |
| **Entity** | **Primary Contact** | **Additional Representatives** |
| Entity Name | Contact NameEmail AddressPhone Number | Name, Email AddressName, Email Address |
|  |  |  |

Use the following table for an individual-based activity:

|  |  |  |  |
| --- | --- | --- | --- |
| **Individual** | **Contact Information** | **Employer** | **Affiliation** |
| Max Riegel | maximilian.riegel@nokia.com+49 173 293 8240 | NSN | Nokia |
| Joseph Levy | jslevy@ieee.org+1.631.622.4139 | InterDigital Communications, Inc. | InterDigital Communications, Inc. |
| Roger Marks  | roger@ethair.net +1 802 227 2253  | EthAirNet Associates  | EthAirNet Associates  |
| Glenn Parsons | glenn.parsons@ericsson.com+1-613-963-8141 | Ericsson | Ericsson |
| Paul Nikolich | p.nikolich@ieee.org+1-857-205-0050 | Self | self |
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# Supporters to be confirmed

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| --- | --- | --- | --- |
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