

**New Ethernet Applications
Industry Connections Activity Initiation Document (ICAID)
Version: 1.0, 07-Sep-2016**

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: John D'Ambrosia

Email Address: jdambrosia@ieee.org

Phone: +17175034512

Employer: [Futurewei](#)

Affiliation: [Huawei](#)

2. 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

3. Purpose

3.1. Motivation and Goal

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

The growing diversity of applications for Ethernet requires new standards to be developed at a rapid pace. This is evident by recent standardization activities related to 2.5Gb/s, 5Gb/s and 25 Gb/s Ethernet, as well as subsequent conversations related on introducing new Ethernet solutions at these rates. Furthermore, with recent decisions in the IEEE P802.3bs 400GbE Task Force on 50Gb/s and 100Gb/s electrical and optical signaling, there is growing discussion of how to leverage these new signaling technologies for new Ethernet projects. Additional examples include new projects targeting automotive and industrial applications, which are indicators of the growing expansion of Ethernet.

The goal of this activity is to assess requirements for new Ethernet-based applications, identify gaps not currently addressed by IEEE 802.3 standards, and facilitate building industry consensus towards proposals to initiate new standards development efforts.

3.2. 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 open standards / IEEE 802.3 based activity for Ethernet projects to compare against this Industry Connections activity proposal.

3.3. Previously Published Material

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

None

3.4. Potential Markets Served

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

Ethernet is employed in a number of market applications, which are exhibiting a growing diversity in terms of the Ethernet rates and features needed. Solutions spanning these different application spaces and rates will be best addressed by leveraging common technology investments. This activity will enable industry consensus building on the market/application requirements and identify gaps not currently addressed by IEEE 802.3 standards of new solutions, which will help to foster industry interest in new Ethernet study groups.

4. 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: 11/2018

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

5. 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 multiple types of deliverables. The first type of deliverable will be the records of the meetings, including minutes and supporting presentations. The second type of output may be the creation of one or more consensus presentations that are used as the basis for one or more Call-for-Interests to study new areas. A third possible type of deliverable may be the creation, as appropriate, of white papers documenting the findings of the IC activity.

6. 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 ICom.

None.

7. Management and Procedures

7.1. 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 802.3 Ethernet Working Group

Chair's Name: David Law

Chair's Email Address: dlaw@hpe.com

Chair’s Phone: +44 1631 563729

Contact Information for Working Group Vice-Chair

Vice-Chair’s Name: Adam Healey

Vice-Chair’s Email Address: adam.healey@broadcom.com

Vice-Chair’s Phone: + 610 712-3508

7.2. 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

7.3. 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 ICom

IEEE 802 LMSC Operations Manual, IEEE 802 P&P, IEEE 802.3 Operations Manual

8. Participants

8.1. 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 includes but are not limited to: users and producers of systems and components for servers, network storage, networking systems, data centers, high performance computing, telecommunications carriers, automotive, and industrial applications.

8.2. 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.

130 individuals

8.3. 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 Name	Name, Email Address

	Email Address Phone Number	Name, Email Address

Use the following table for an individual-based activity:

Individual	Contact Information	Employer	Affiliation
John D'Ambrosia	jdambrosia@ieee.org + 1 717 503 4512	Futurewei	Huawei
Mark Nowell	mnowell@cisco.com +1 613 254 3391	Cisco	Cisco
Jon Lewis	Jon_lewis@dell.com	Dell	Dell
Pavel Zivny	pavel.zivny@tek.com +1(503)627-4755	Tektronix	Tektronix
George Zimmerman	George@cmephyconsulting.com	CME Consulting	Consulting
Mick McCarthy	Mick.mccarthy@analog.com	Analog Devices, Inc	Analog Devices, Inc
Dale Murray	dale@lightcounting.com +1 717 653 5929	LightCounting	LightCounting
Tom McDermott	tom.mcdermott@us.fujitsu.com +1 541 773 2688	Fujitsu Network Communications, Inc.	Fujitsu Network Communications, Inc.
Alexander Umnov	umnova@corning.com + 1 817 431 7111	Corning	Corning
Paul Vanderlaan	Paul.vanderlaan@nexans.com	Nexans	Nexans
Martin Bouda	Martin.bouda@us.fujitsu.com	Fujitsu	Fujitsu
Tom Palkert	Tom.palkert@molex.com +1 952 200 8542	Molex	Molex
Dylan Walker	dylanwal@cisco.com 512-378-1645	Cisco	Cisco
Yan Zhuang	Zhuangyan.zhuang@huawei.com	Huawei Technologies	Huawei Technologies
David Malicoat	David.malicoat@hpe.com	HPE	HPE
Bharat Tailor	btailor@semtech.com +1 289 707 0905	Semtech	Semtech
Salvatore Rotolo	Salvatore.rotolo@st.com	STMicroelectronics	STMicroelectronics
Phil Sun	Phil.sun@credosemi.com	Credo	Credo
Peter Jones	petejone@cisco.com +1 408 525 6952	Cisco	Cisco
Matt Traverso	mattrave@cisco.com	Cisco	Cisco
Mike Li	Peng.mike.li@intel.com +1 408 544 8312	Intel	Intel
Derek Cassidy	Derek.cassidy@bt.com	ICRG	ICRG
Arthur Marris	arthurm@cadence.com	Cadence	Cadence
Scott Kipp	skipp@brocade.com +1 805 888-9752	Brocade	Brocade
Paul Kolesar	pkolesar@commscope.com +1 972 762 7784	CommScope	CommScope
Jim Nadolny	jim.nadolny@samtec.com	Samtec	Samtec
Mark Gustlin	mgustlin@xilinx.com	Xilinx	Xilinx
Jacky Chang	Jacky.chang@hpe.com +1 916 748 2513	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Qing Xu	Qing.xu@belden.com +1 514 822 7062	Belden	Belden
Martin White	Martin.White@caviumnetworks.com	Cavium Networks	Cavium Networks
John McDonough	John.mcdonough@necam.com +1 631 751 0746	NEC	NEC

David Law	dlaw@hpe.com +44 7711 502962	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Takeshi Nishimura	takeshin@yeu.com +1 (408) 715-9132	Yamaichi Electronics	Yamaichi Electronics
Marek Hajduczenia	Marek.Hajduczenia@charter.com +1-813-295-5644	Charter Communications	Charter Communications
Kohichi Tamura	Kohichi.Tamura@oclaro.com	Oclaro	Oclaro
Jeff Lapak	mailto:jrlapak@iol.unh.edu 603-862-3643	UNH-IOL	UNH-IOL
Masood Shariff	mshariff@commscope.com	Commscope	Commscope
Pete Anslow	panslow@ciena.com +44 2070 125535	Ciena	Ciena
Curtis Donahue	cdonahue@iol.unh.edu	UNH-IOL	UNH-IOL
Andre Szczepanek	aszcepanek@inphi.com +44 1604 289822	Inphi	Inphi
Ralf-Peter Braun	ralf-peter.braun@telekom.de +49 160 5326 798	Deutsche Telekom	Deutsche Telekom
Ed Sayre	ed@teraspeed.com 781.837.9088	Teraspeed® Consulting – a Division of Samtec	Teraspeed® Consulting – a Division of Samtec
Ron Nordin	Ronald.Nordin@panduit.com	Panduit	Panduit
Rob Stone	rob.stone@broadcom.com +1408 202 6676	Broadcom	Broadcom
Ali Ghiasi	aghiasi@gmail.com +1 408 352 53426	Ghiasi Quantum LLC	Ghiasi Quantum LLC
Rick Rabinovich	rrabinovich@ixiacom.com 818 208 7328	IXIA	IXIA
Jeff Maki	jmaki@juniper.net	Juniper Networks	Juniper Networks
Pirooz Tooyserkani	pirooz@cisco.com +1 408-527-2662	Cisco	Cisco
David Ofelt	ofelt@juniper.net +1 650 544 8401	Juniper	Juniper
Steve Carlson	scarlson99@gmail.com +1 503 626 4206	High Speed Design	High Speed Design
Mike Ressler	Michael.Ressler.pg@hca.hitachicable.com (408) 467-8900 x3304	Hitachi Cable America	Hitachi Cable America
Bob Grow	bobgrow@cox.net	Independent	Independent
David Lewis	David.lewis@lumentum.com +1 408 546 5448	Lumentum	Lumentum
Amrik Bains	ambains@cisco.com	Cisco	Cisco
Yu Xu	Helen.xuyu@huawei.com	Huawei	Huawei
Jonathan King	Jonathan.king@finisar.com +1 408 368 3071	Finisar	Finisar
David Chalupsky	david.chalupsky@intel.com +1 503 730 6957	Intel	Intel
Ludwig Winkel	ludwig.winkel@siemens.com +49 721 595-6098	Siemens AG	Siemens AG
David Malicoat	david.malicoat@gmail.com	Independent	Independent
John Ewen	john.ewen@globalfoundries.com	GLOBALFOUNDRIES	GLOBALFOUNDRIES
Henry Chen	chenyan@broadcom.com +1 949 926 3466	Broadcom	Broadcom
Steve Swanson	swansonse@corning.com +1 828 901 5328	Corning	Corning

Gary Bernstein	gbernstein@leviton.com 414.897.8303	Leviton	Leviton
Gary Nicholl	gnicholl@cisco.com	Cisco	Cisco
Kiyo Hiramoto	kiyohisa.hiramoto@oclaro.com	Oclaro	Oclaro
Paul Brooks	Paul.brooks@viavisolutions.com +49 151 1731 4668	Viavi Solutions	Viavi Solutions
Tomoo Takahara	Tomoo.takahara@jp.fujitsu.com	Fujitsu	Fujitsu
Hideki Isono	isono@jp.fujitsu.com +81 44 754 3135	Fujitsu Optical Components	Fujitsu Optical Components
Xinyuan Wang	wangxinyuan@huawei.com	Huawei	Huawei
Natalie A. Wienckowski	(586) 907-0576 natalie.a.wienckowski@gm.com	GMNA	GMNA
Vipul Bhatt	408 461-8521 Vipul_Bhatt@ieee.org ,	Finisar	Finisar
Nathan Tracy	Ntracy@te.com	TE Connectivity	TE Connectivity
David Tremblay	david.tremblay@hpe.com	HPE	HPE
Frank Chang	fchang@inphi.com	Inphi	Inphi
Alan Flatman	a_flatman@tiscali.co.uk	LAN Technologies	LAN Technologies
Chris DiMinico	CDimi80749@aol.com	MC Communications	MC Communications
Yong Kim	yongbum.kim@broadcom.com	Broadcom	Broadcom
Adam Healey	adam.healey@broadcom.com	Broadcom	Broadcom
Dave Estes	David.Estes@spirent.com	Spirent	Spirent