

Digital Inclusion through Trust and Agency Industry Connections Activity Initiation Document (ICAID)

Version: 1.0, 7 February 2017

IC17-002-01 Approved by the IEEE-SASB 23 March 2017

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: Oleg Logvinov
Email Address: oleg@iotecha.com
Phone:
Employer: IoTecha
Affiliation: IoTecha

Name: Greg Adamson
Email Address: g.adamson@ieee.org
Phone:
Employer: Digital Risk Innovation
Affiliation: Digital Risk Innovation

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: As an outreach activity in a rapidly evolving technology field, the IC needs to engage with a diverse and widely dispersed technology development and implementation community.

Purpose

2.1. Motivation and Goal

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

The internet, by original design, is anonymous. As an early cartoon explained, "On the internet no one knows you're a dog". As the internet's value in all areas of global community and economy grows, issues of trust, safety and security become barriers to achieving global benefit, particularly for currently underserved countries and communities. IEEE is one of many organizations seeking to address this. Today many activities are being undertaken to investigate solutions to these barriers.

The scope of this Industry Connections program will be in identifying and creating consensus around technologies that have a potential to alter policy and business landscape, with particular focus on disruptive innovation.

As one of the vital components of this program, we will address inclusion through trust and agency, working toward solutions promoting:

- Agency over our data and our cyber-identity
- Internet-related security including but not limited to distributed ledger technologies

Without a satisfactory solution to these requirements, being connected may even harm the short and long term interests of people.

The "Digital Inclusion through Trust and Agency" (DITA) Industry Connections Program will work to address from a multi-stakeholder perspective open and consensus building processes mainly aiming at:

- Engaging countries in identifying and creating consensus around technologies that have a potential to alter policy and business landscape, with particular focus on disruptive innovation
- Encouraging developing countries who are not currently engaged in the creation of standards to become engaged so that their needs and voices are reflected.
- Ensuring that the conditions of on-line access safeguard our personal agency and dignity in ways that are possible off-line, including for vulnerable populations and our children.

- Providing the capacity to identify ourselves on-line in a way that protects our privacy, our right to be forgotten, and our off-line ability to have multiple personas.
- Encouraging distributed ledger technology standards that facilitate financial inclusion and other decentralized data sharing capabilities.
- Including ethical considerations around consumer/patient data in all cases.
- Facilitating platforms that enable the local creation of content to make the Internet meaningful to all communities.

Initiative Goals

Design and develop trust-enabling solutions by:

- Engaging the broader community in the domains of digital identity, distributed ledger technology, and related fields.
- Developing a collaborative approach to technology and policy design regarding personalized data and its privacy implications across demographics.
- Identifying and guide work towards standards that facilitate digital inclusion, trust, personal data agency and security.
- Coordinating and partnering with other initiatives with common areas of interest, focus and applications (includes IEEE AI Ethics Program, Cybersecurity Initiative, IEEE Internet Initiative, and others as appropriate)

2.2. 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.).

This Industry Connections activity will complement the work of the IEEE Internet Initiative, of the Industry Connections' IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems, and of blockchain related initiatives throughout IEEE. This Industry Connections program will focus on the development of trust-enabled solutions and standards that help to accelerate global digital inclusion, data privacy and cyber-identity solutions.

2.3. Previously Published Material

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

List the previously published material, if any.

[Include outputs of the Vancouver blockchain summit when available.]

2.4. Potential Markets Served

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

Describe the potential markets.

A major focus will be on standards that facilitate the digital inclusion of traditionally under-served populations and economies. This will include facilitating provision of financial services to communities globally based on distributed ledger technologies.

Governments and suppliers of internet infrastructure and services will be included in this work, to help bridge the policy goals of digital inclusion with the technical realities and challenges to be addressed in achieving this vision.

Many commercial and non-commercial services will benefit from agreed, low risk approaches to digital identity to assist in addressing current and future governance challenges.

The program will address industry verticals as opportunity arises. Currently identified stakeholder communities for distributed ledger technologies are:

- Healthcare
- Energy
- Finance Services
- Transportation

3. 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: 03/2019

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.

4. 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.

Potential outputs of this Industry Connection's Initiative include:

- formulate high-level recommendations for standards proposals and frameworks that facilitate digital inclusion, trust identity and data agency, and distributed ledger technology
- contributions to white papers outlining recommendations, concerns and challenges (in close coordination with IEEE's Internet Initiative to avoid duplications)
- recommendations for development of educational material in industry and other relevant formats (in close coordination with IEEE's Internet Initiative and IEEE Education Activities)
- recommendations for certification materials and approaches
- roadmap documents related to particular technologies and industry verticals
- proposals for summits and events as related to the outcomes of this Industry

Connection's program

5. 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.

Industry Connections staff will provide standard support as made available to all IEEE-SA IC activities. Activity members will provide any needed support for hosted meetings, marketing activities that exceed basic IC support.

6. Management and Procedures

6.1. 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?: NO

6.2. 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).

- An executive committee comprised of officers and working groups leaders.
- Face to face excom meetings at selected conferences; teleconferences at other times, approximately monthly.
- Activity management to include a diverse group of global experts from industry, community developers, academia, and governments.
- A Collabratec community to coordinate current IEEE related activities.
- Slack community to coordinate blockchain community engagement.

6.3. 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*, (b) Sponsor policies and procedures accepted by the IEEE-SA Standards Board, or (c) Working Group policies and procedures accepted by the Working Group's Sponsor. If option (a) is chosen, then ICom review and approval of the P&P is required. If option (b) or (c) is chosen, then ICom approval of the use of the P&P is required.

Will use the baseline Industry Connections Activity Policies and Procedures.

7. Participants

7.1. 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.

Specify types of entities or groups of individuals.

Cross-Initiative Participation

- IEEE Internet Initiative
- IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems
- IEEE Cybersecurity Initiative
- Technical Activities and YP blockchain activities

7.2. 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.

Number of entities or number of individuals. Over time 120-150.

7.3. 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 Email Address Phone Number	Name, Email Address Name, Email Address

Use the following table for an individual-based activity:

Individual	Contact Information	Employer	Affiliation
Oleg Logvinov	oleg@iotecha.com		Iotecha
Greg Adamson	greg.adamson.engineer@gmail.com		Self
Jonathan Mohan	jonathan@bitcoinnyc.org		Bitcoin NYC
Leonard Kish	leonard@youbase.io		Youbase
William Mougayar	wmougayar@gmail.com		
Brian Behlendorf	brian@behlendorf.com		HyperLedger
Christopher Allen	christophera@gmail.com		LIFEWITHALACRITY
Marc Wine	Marc.Wine@va.gov		VA
Timothy Mackey	tmackey@ucsd.edu		UCSD
Kevin Clauson	kaclauson@lipscomb.edu		Lipscomb
Cameron Davidson	cbdavidson@mail.lipscomb.edu		Lipscomb
Josh Robinson	josh@youbase.io		Youbase

Neha Nerula	narula@media.mit.edu		MIT Media Labs
Wilbert Adams	Wilbert.Adams@huawei.com		Huawei
Udit Sharma	uditsharma@in.ibm.com		IBM
Trent McConaghy	trent@bigchaindb.com		Big Chain DB
Chelsea Palmer	ms.chelsea.palmer@gmail.com		
Morgen Peck*	morgenpeck@yahoo.com		journalist
Tim Holborn*	timothy.holborn@gmail.com		
Heather Vescent*	heathervescent@gmail.com		
Lola Awoniyi-Oteri*	lolawon@gmail.com		YP
Vanessa Bracamonte*	vbracamonte@nii.ac.jp		
Mark Staples*	Mark.Staples@data61.csiro.au		Data61
George Samman*	george.samman@gmail.com		
James Horton*	james@datanomics.com.au		
Manu Sporny*	msporny@digitalbazaar.com		
Melvin Carvalho*	melvincarvalho@gmail.com		
Katina Michael*	katina@uow.edu.au		
Amir Vahid*	vahid.av@gmail.com		PwC
Muneeb Ali*	muneeb@blockstack.com		
	*Invited to be engaged in initiative		