

IEEE Intercloud Testbed Program Member Participation Agreement

The IEEE has embarked on creating technical standards (IEEE P2302) for “Cloud to Cloud” Interoperability. The concept of a cloud operated by one service provider or enterprise interoperating with a cloud operated by another is called “Intercloud.” The IEEE Intercloud Testbed Program, or just “IEEE Intercloud Testbed” for short, will create a global lab to prove and improve Intercloud technology and standards.

The IEEE Intercloud Testbed is an initiative of the IEEE Cloud Computing Initiative (CCI), operating as an activity of the IEEE Industry Connections program. **Participants become members of the IEEE Intercloud Testbed by executing this Member Participation Agreement and after approval by the IEEE Intercloud Testbed Executive Committee** according to defined policies and procedures, both as described below.

Members agree to the following principles of the IEEE Intercloud Testbed Program:

Organizational and Governance Topics

1. The IEEE Intercloud Testbed is governed by the IEEE Intercloud Testbed Executive Committee (EC), which includes CCI representatives and selected activity participants. The EC and the IEEE Intercloud Testbed activity is overseen by the Industry Connections Committee (ICCom) of the IEEE Standards Association (IEEE-SA) Standards Board (IEEE-SASB), with guidance from the IEEE Cloud Computing Standards Committee (CCSC).
2. Membership shall be entity-based (e.g., Corporation, Government Agency, Academic Institution, or Trade Association) for entities that have resources and expertise in the area of cloud computing and wish to work towards a demonstrable Intercloud capability. Membership requires the approval of a Simple Majority of the voting members of the EC.
3. There are no initial fees to become a Member in the IEEE Intercloud Testbed. After completion of the first year of the IEEE Intercloud Testbed activity, an entity is required to become an Advanced Corporate Member of IEEE-SA in order to become or remain a Member.
4. The EC provides the strategic direction for the activity, manages the growth of participation, and directs the development of all deliverables. The EC operates in accordance with a governance document called the “IEEE Intercloud Testbed Industry Connections Activity Policies and Procedures,” (P&P) as initiated by the IEEE-SA Industry Connections program. These P&P can be revised by the EC according to the voting procedures of the P&P.

5. Members agree to comply with the IEEE Intercloud Testbed Industry Connections Activity Policies and Procedures.
6. Members organize and attend regular meetings, including EC meetings and plenary meetings, to collaborate and plan all of the aspects of the IEEE Intercloud Testbed. There will be both regular meetings covering Regular Projects managed by Regular Project Committees. There will also be Ad-Hoc meetings for Ad-Hoc Projects managed by Ad-Hoc Project Committees. Meetings will be a combination of in-person, multi-media conferencing, and/or Internet collaboration tools (Wiki, etc).

Marketing and Public Facing Activity Topics

7. The EC will manage, and IEEE-SA Industry Connections will supply reasonable resources, to produce “fast-track” materials, such as proposals for standards, white papers, guides and position papers, and press releases.
8. Members shall not produce materials individually. This is in order to provide a managed and approved public communications plan and content set.
9. The IEEE Intercloud Testbed will have a public web site, and Members agree to allow use of their entity name and logo.

Technical Activity Topics

10. Members will experiment with cloud federation through their participation in the IEEE Intercloud Testbed. They will develop software for protocols, ontologies and various services, and they will connect clouds together, while exploring topology issues for scalability.
11. To provide an interconnected Intercloud Testbed lab for Members to use collectively, individual members will make available existing cloud implementations or construct a new cloud in a well-connected datacenter in a geography of their choice. As the topology is agreed, Members shall interconnect their infrastructures.
12. Members will apply reasonable efforts to join in engineering efforts to code, test, evaluate, re-engineer, and contribute to an open-source implementation for Reference Implementations of an IEEE Intercloud Root cloud, including messaging, trust, and semantic directory; an IEEE Intercloud Exchange cloud; and an operational multi-cloud IEEE Intercloud protocol suite. Members will work on adapting the protocols to the various cloud platforms and resource types in use in the IEEE Intercloud Testbed.
13. Members will then connect to these Reference Intercloud Root and Reference Intercloud Exchange clouds for the purposes of this IEEE Intercloud Testbed.
14. Members shall match the envisioned implementation of the IEEE P2302 Standards Working Group specification. That said, if changes are needed to that specification in order to correct

errors or to make it functional, Members will direct such inputs to the IEEE P2302 Standards Working Group.

- 15. Members will explore the overall interoperability and applicability of the NSF GENI Project, in particular the trust and governance mechanisms of the GENI-ABAC project.
- 16. Members will apply reasonable efforts to publish papers on their research and implementation experience to constituencies, in accordance with points 7 and 8 above.
- 17. Members agree that all Reference Implementations developed as part of the IEEE Intercloud Testbed activity will be made available via open source with Apache or BSD type licenses, possibly in conjunction with the OpenStack Foundation.

As an Authorized Representative of my Corporation, Government Agency, Academic Institution, or Trade Association (“Entity”), I represent that such Entity agrees with the terms of this IEEE Intercloud Testbed Program Member Participation Agreement, and is applying for Membership therein:

Signature	
Date	
Printed Name	
Phone Number	
Email	
Entity Name	
Entity Address	