

## **Initiative Reviews**

Enabling Access Initiative  
InterNetWorks Initiative  
Trust and Identity Initiative

Karen Rose  
Leslie Daigle  
Lucy Lynch

# **Enabling Access Initiative**

## **Presented by: Karen Rose**

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#### **Introduction**

The 2008-2010 Enabling Access Initiative focuses on enabling to addressing the fundamental impediments to Internet growth and usability. It is comprised of three programmatic areas:

1. Policy, Regulation, and the Access Environment,
2. Technical Capacity Building, and
3. Underserved Communities.

Since the board's approval of the budget, ISOC staff have been implementing projects and activities in support of the Enabling Access Initiative goals, as well as developing work plans for new activities that aim to address the multifaceted and interrelated challenges to improving Internet growth and take-up.

#### **1 - Policy, Regulation, and the Access Environment**

**Goal:** To develop a list of "access priorities" through information gathering on local and regional impediments to access, and related policy education needs in lesser developed countries.

Policy and regulatory issues related to Internet access are broad and complex. Staff is undertaking several "mapping" activities to determine access priority issues, policy maker priorities, and points of leverage to enhance ISOC effectiveness and engagement in this space. These include:

Surveying ISOC Chapters and Organisational Members on local and regional policy and regulatory impediments to Internet growth and take-up in developing countries. ISOC Chapters and Organisational Members have a wealth of information and first-hand experience on impediments to greater Internet access in their areas. In addition, what local actors see as significant policy and regulatory impediments may be different to what is currently on national, regional, and international policy agendas for a variety of reasons. A survey, which will be sent to all Chapters and Org. Members, is in development to assess these challenges from a local perspective. The information will be used to create more targeted policymaker education materials, compare local concerns to international activities, identify issues that ISOC should raise and advance in various forums, and assist Chapters in their local policy activities.

Development of a "Policy Roadmap" to gain insight into policy agendas. Led by the Public Policy team, policy and decision makers at a regional and international level will be surveyed and interviewed in order to collect views on key Internet enablers and barriers. The "Roadmap" exercise is anticipated to cover a broad range of objectives and issues (including concerns of decision makers in developed countries and their views on advanced technology issues) but will also contain an access component.

Mapping the international access agenda. Led by Bill Graham, ISOC is developing a map of what issues related to "enabling access" are currently on the agendas of international organisations and forums and how they are being approached. This information will be used to identify points of leverage and priority areas for participating in international access discussions.

**Goal:** To position ISOC as a valued resource for pertinent information on access issues and basics of the Internet, particularly as it relates to policy and decision-maker education.

ISOC staff is working on a series of “educational” papers related to access issues and technical fundamentals of the Internet. Currently in the works are papers on the elements of Internet infrastructure, IXPs, IP and routing for “non-experts,” and multilingual issues. We will use the results of the Chapter and Org. Member survey to identify additional areas of need in relation to access.

**Goal:** Encourage adoption of internet friendly public policies, with a view to facilitate the decrease/elimination of regulatory impediments in developing countries.

The Public Policy team is working to develop a “score card” tool to benchmark Internet policies and Internet development globally. The Team has started to list existing Internet Benchmarking initiatives. It has met with the ITU and will meet soon with the OECD in March to compare approaches and explore partnership possibilities. The second stage will consist in identifying possible new combinations of existing data in order to produce a new and exclusive indicator of the “Internet’s development”. The third step will roll-out the concrete implementation of the project (data collection, analysis of the information, disseminate the results). Partnering with a well-recognized organization (e.g. OECD, ITU, Eurostat) will help leverage this project in the future.

The Public Policy team is also in the process of reshaping the current INET towards a more high level policy oriented meeting. The team has worked with each regional bureau (LAC, South and SE Asia & Africa) in order to assess the best way possible to shape regional INET’s according to the local Internet-related challenges. We have also started to identify the best way to lead a regional discussion in Europe. The team and the regional bureaus have explored partnership opportunities in order to attract a broader audience (more policy-makers) and high-level political influencers. Policy and the regional bureaus have set-up a follow-up and coordination process to ensure that these events are prepared in time and rolled out by the end of Q3.

In addition, the Education team and African bureau are developing a compelling agenda for an engaging and informative African INET day, which will be held in conjunction with AfNOG and AfriNIC in Rabat, Morocco in June. The session will focus on cross-border interconnection issues and local traffic exchange. Michuki Mwangi has been assisting ISOC on a part-time short term contract to organise the INET day agenda and help with technical capacity building projects in Africa.

**Goal:** Encourage decision makers to apply ISOC values when addressing internet development issues.

In order to ensure local experts will be able to participate in international capacity building programs, the Public Policy team is continuing the “ambassadors” program with a view to bringing ISOC ambassadors to IGF India. With the regional bureaus, the team has started to elaborate a more detailed engagement plan. This will include clear tasks for ISOC Ambassadors (participating in roundtables, disseminating ISOC key messages, report formally on the IGF experience, etc.) Later in the year, ISOC will launch the call for interest, evaluate the applications with the regional bureaus and associated experts, communicate the results and prepare the ambassadors for the IGF in India.

## **2 - Technical Capacity Building**

ISOC currently has a position open for a Senior Education Manager position that will focus on the development and delivery of technical training and capacity building programs.

Applications are currently being reviewed and we hope to have the position filled by April.

**Goal:** To train 850 network operators in the next 12 months (either directly or through partnerships) on internetworking technical, operational or business skills.

ISOC is progressing on several fronts in this area. Firstly, we are working to grow, rationalize and better quantify the training value of our partnerships with various regional and local network operators groups and others. As part of this work, we are developing a set of reporting requirements for our technical training partnerships and sponsorships which will allow ISOC to better gauge the level of training and reach of current programs. Secondly, the Education team and the African Bureau are working on a plan to conduct “Track 0” trainings at the national level in Africa in conjunction with AfNOG. Furthermore, the education team is planning two hands-on ccTLD workshops that will cover more “advanced” operational topics in depth, including security issues.

**Goal:** To identify new opportunities for technical education

ISOC is currently investigating several new opportunities for technical education, including the development of a wireless networking training curriculum in conjunction with various partners (including NSRC), incubating national-level network operators groups, and opportunities for women’s IT training in Africa, among others. The addition of a new staff resource in the education department will help move various “good ideas” to a more formal execution and planning stage.

**Goal:** To improve the provision of technical and training information available to network operators in the developing world.

ISOC is currently working with NSRC to revise and improve the Workshop Resource Centre (<http://ws.edu.isoc.org>), making it an easier to use tool for IT students, the contributors of materials to the WRC site, and training organisers. A relaunch of the revised WRC site is planned for Q3.

**Goal:** To conduct and continuously improve the ISOC Fellowship to the IETF.

Eight individuals will be attending IETF 71 as part of the ISOC Fellowship to the IETF program. A new selection round for IETF 72 and 73 will be launched in April. In addition, we will be launching a “Returning Fellows” program starting at IETF 72, which will allow highly engaged and motivated fellowship alumni to return to the IETF for an additional meeting. In mid-February, ISOC announced Intel as a new corporate sponsor of the program. We are currently creating informational materials on the program for prospective fellows as well as prospective sponsors. Further, in January we issued a Fellowship “Year in Review” report which will be produced annually to highlight the achievements of this important program.

## **3 - Underserved Communities**

The “Underserved Communities” program focus on particular challenges to Internet access that may not be addressed by general capacity building, more traditional regulatory reforms, and market factors. This includes, for example communities using non-Latin language scripts, disabled communities and geographically remote and dispersed communities.

ISOC is currently scoping opportunities to add measurable value in the multilingual space. In addition, ISOC has engaged Arnoud van Wijk on a part-time contract to help coordinate projects related to the use of the Internet by disabled persons. Arnoud, who is hearing impaired, has been an active participant in the IETF, where he has co-authored or contributed to various Internet Drafts and RFCs related to the Real-Time Text standard. He has also been active in the policy, corporate, and non-profit world on ICT disabilities issues. Arnoud will be working to highlight and extend the work of our Chapters in the areas of disabilities access, advance the business case for disabilities technologies, educate policymakers on disabilities issues and advance trials and implementation of the IETF Real-Time Text standard.

### **Other Activities**

The IETF Journal continues to be a well received publication. Many individuals are now approaching ISOC to contribute articles to the Journal. ISOC will be developing contributor guidelines for the Journal and reviewing the publication layout, editorial, and production process with a view towards further enhancing the publication.

## **InterNetWorks Initiative**

**Prepared by: Leslie Daigle**

**March 2008**

### **Introduction**

The InterNetWorks initiative focuses on the continued operation of the global Internet, taking the holistic approach to identify issues and opportunities in technology development and deployment for open networking.

ISOC's purposes in this initiative are to identify and help elaborate such cross-boundary network issues; to promote their resolution through open dialog and collaboration of involved entities, in appropriate fora; and to promote and validate the open collaborative Internet development model.

Recent efforts have focused on building out relationships and establishing channels for discussion of general policy matters threatening the openness of the Internet. Also, work is being done to work the technical and policy challenges facing the continued success of the globally addressed Internet: deployment of IPv6.

These are all ongoing activities.

### **Common and Open Internet Program**

The "Common and Open Internet Program" identifies limiters to the common and open Internet model and supporting work to move beyond those limitations. A "limiter" is anything that impedes the natural evolution of Internet operation under the model of a common and open Internet – whether it is a technology or policy that is reaching the end of its usefulness, or new uses or challenges for the Internet as a whole.

ISOC's Strategic Global Engagement is leading the effort to establish a long-term relationship with the OECD. To lay the groundwork for that goal, and with strong support from the Public Policy department, a cross-ISOC effort is underway to contribute to the preparations of the upcoming OECD ministerial (Seoul, June 2008).

The Public Policy department is also developing ISOC advocacy positions on key regulatory issues with a view to protect the end-to-end nature of the Internet within the legal/regulatory environment at regional level. It has started scrutinizing the recently launched EU telecoms reform. The Public Policy department is in the process of coordinating the informal experts' group on two EU key topics for ISOC: Non discriminatory access (aka "Network neutrality") and Addressing, naming and numbering. It has started to elaborate an ISOC position and to defend it through different channels via-a-vis European policy-makers (EU Commission, EU Parliament). ISOC continues to monitor the EU reform process and will soon request the participation of ISOC EU chapters (through the ECC) to help provide ISOC positions to key national government representatives. We also anticipate to contribute to ITU's working groups related to ISOC's UCI project.

### **Global Addressing Program**

The "Global Addressing" program identifies and works to resolve challenges to global Internet addressing (e.g., IPv4 address pool exhaustion, issues in deploying IPv6). ISOC's neutral position and relationships across organizations makes it a natural place to facilitate

communications, contribute to and coordinate the efforts of the standards, operational and RIR communities and facilitate the expression of requirements.

The Standards & Technology and Public Policy departments have been working to develop material data on the state of IPv6 deployment and readiness, as IPv6 deployment is the current best known path to continued global addressing. The target is to position ISOC as a key contributor to the discussion around IPv6 take up, awareness building and education.

The Standards & Technology department is coordinating the upcoming “IPv4 outage” event at the IETF71 meeting. ISOC staff have been engaged in some of the other “IPv6 events” that have happened at recent networking meetings (e.g., NANOG42, in February), and we are collecting data about specific issues that crop up with these different network experiments. Some successes have been noted, as well. Full data will be available at public wiki sites, and the outcomes will inform choices for next steps for ISOC activities.

The Public Policy department project work is underway, developing timelines and initial structure and questions for the survey/engagement with the Organization membership. The aim is to leverage the Organizational membership experience with transitioning to v6. This will then highlight challenges, opportunities and successes. Next steps will involve identifying a select number of key IPv6 experts from membership organizations that will help further refine the survey, etc. The survey should be released end Q1.

Also, in this area, the Public Policy team, Strategic Global Engagement and Standards & Technology department all made substantive contributions to ISOC’s input to the OECD’s paper on the economic aspects of IPv6. The OECD’s paper will be released imminently and will provide a useful overview of the state of play in IPv6 implementation.

### **Security and Stability Program**

The relatively small “Security and Stability Program” aims to support development and deployment of key technologies for ensuring a stable and secure Internet.

Recent work here has been in support of initial work on the Trust & Identity major strategic initiative.

# **Major Strategic Initiative: Trust and Identity**

**Presented by: Lucy Lynch**

**March 2008**

## **Introduction**

The Internet Society has embarked on a process which will enable us to become a primary advocate for Trust and Identity, establishing our presence, interest, and credibility in the Trust and Identity arena. Initial activities for 2008-2010 are designed to:

- Map the space, achieve internal alignment and publish position papers
- Engage new audiences and broaden our sphere of influence
- Integrate new communities and build bridges connecting research, standardization, development, and deployment.

The activities envisioned include a series of cooperatively developed publications that will provide both our map and provide opportunities for outreach. Follow-on projects include special tools and audience engagement.

## **Baseline Studies**

Goal's in 2008 include publication of baseline Identity and Research studies. The resulting publications and the relationship developed in 2008 will inform the Current Model Study which should deliver in mid-2009. The partnerships forged for the first two studies will be folded into the team reviewing the Current Model.

- Identity: Managing Trust Relationships
- Network Architecture and Trust: Emerging Research
- Operationalizing Trust: Strengthening the Current Internet Model

## **Leveraging our Stakeholder relationships**

### **The Consultative Process**

The baseline studies offer an excellent opportunity to reach out to both our current partners and members and to engage new audiences through a structured process of research, internal alignment, outreach to additional experts, incorporation of comments and review, final review and publication.

Each study will iterate through a process that includes achieving internal alignment on the research plan, expert participation (via work-groups and round-tables) in the drafting process, and review and comment by multiple audiences. The published document should advocate the values and technologies the Internet Society will advocate as a "best path" forward. The document should also acknowledge the full range of input and concerns uncovered in the consultative process.

## **Tools, Case Studies, and Test Implementations**

Project deliverables for 2008 include development of an open sourced ISOC Identity Audit, at least one Internet2 hosted DKIM workshop, and a published report on security considerations for emerging Identity technologies such as OpenID.

Technical achievements will include a stand alone ID audit tool (ISOC branded) and field deployment of DKIM on the Internet 2 network.

## **Funding support**

Activities planned in 2008-2010 will include a specific focus on soliciting long term partnerships with organizations with a major stake in Trust and Identity. These relationships may result in additional organizational memberships or in co-funding opportunities for major projects.