SSAC
ICANN Security and Stability
Advisory Committee

17 October 2013

To: ICANN Board
From: The SSAC Chair
Via: The SSAC Liaison to the ICANN Board

The purpose of this letter is to bring you up-to-date on proposed changes to the membership of the Security and Stability Advisory Committee (SSAC) and to provide an explanation for the attached requests for Board actions. These changes are the result of the annual membership evaluation process instituted by the SSAC and completed by the SSAC Membership Committee in October 2013.

The SSAC Membership Committee considers new member candidates and makes its recommendations to the SSAC. It also evaluates SSAC members whose terms are ending with the calendar year. The Membership Committee is comprised of the SSAC Chair, the SSAC Vice Chair, the SSAC Board Liaison, and other SSAC member volunteers. This year the Membership Committee evaluated the following members whose terms are ending on 31 December 2013: Roy Arends, Jeffrey Bedser, Jeremy Hitchcock, Sarmad Hussain, Merike Kaeo, Warren Kumari, Matt Larson, Danny McPherson, Shinta Sato, and Vanda Scartezini. The SSAC agreed with the Membership Committee's recommendation to reappoint all of the members listed above except Jeremy Hitchcock and Vanda Scartezini, who decided not to seek reappointment at the end of their terms.

Thus, the SSAC respectfully requests that the ICANN Board should reappoint the above-mentioned members to three-year terms and to join the Committee in extending its thanks to Jeremy Hitchcock for his service to the SSAC and the Community. Note that the SSAC had alerted the Board to Ms. Scartezini's resignation previously and the Board passed a resolution thanking her for her service at its meeting on 24 October 2013. The biographical information and disclosures of interest for members for which the SSAC is requesting reappointment is attached for your reference.

The SSAC welcomes comments from the Board concerning these requests.

Patrik Fältström, SSAC Chair

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Patrik Fältström, SSAC Chair

Biographies and Statements of Interest of SSAC Members

Terms Ending 31 December 2013

Roy Arends

Roy Arends is Nominet UK's Head of Research, and an expert on DNS and DNSSEC. He co-authored the main DNSSEC standards in the IETF (RFC 4033, 4034, 4035, 5155) and is appointed by the IESG as an expert reviewer for the DNS RRTYPE Allocation Policy as defined in RFC6195. In the past, Roy was chair of CERT-NL at SURFnet, the dutch academic network and served on the board of directors DNS-OARC.

Statement of Interest: Nominet operates at the heart of e-commerce in the UK, running one of the world's largest Internet registries and managing over ten million domain names. Making the Internet a more trusted place for all is one of Nominet's main objectives.

Disclosure of Interest:

1. Please identify your current employer(s) and position(s): Nominet UK, Research Fellow.

2. Please identify the type(s) of work performed at #1 above: I am responsible for the Research agenda at Nominet.

3. Please list any financial or other material relationship beyond de minims stock ownership that you or your employer has with any individual, company, or other entity that to your knowledge has a financial or other material relationship with ICANN: Nominet UK is involved with 7 new gTLD applications.

4. Is your participation as an SSAC member the subject of any arrangements or agreements between you and any other group, constituency, or person(s)? Please answer "yes" or "no." If the answer is ³yes,² please describe the arrangements or agreements and the name of the group, constituency, or person(s): no.

Jeffrey Bedser

Jeffrey R. Bedser is co-founder and CEO of ICG, Inc – iThreat Solutions (formerly Internet Crimes Group). Under Mr. Bedser's leadership, ICG has set industry standards in developing responses to Internet threat communities and cybercrime.

Mr. Bedser has been a facilitator and speaker for ASIS International, INFRAGARD, HTCIA, The Conference Board, ICANN and the FBI Training Academy at Quantico.

Volunteer Activities

- ICANN – Member – Security and Stability Advisory Council 2007 –
- US Chamber of Commerce - National Security Task Force/Cybersecurity Working Group
- Cyber Threats Taskforce (ASIS International) Chairman 2000-2002
- Joint Council for Information Age Crime (JCIAC), Member, BoD 2002-2007.
- IACP - Ad hoc Committee on Computer Crime and Digital Evidence 2006 -
- Security Journal (Palgrave McMillan Ltd) - Editorial Board 2001 -
- Cyber Crime Summit 2001 (and 2002) - Program originator, facilitator and coordinator
- Scout Master – Boy Scout Troop 66, West Windsor New Jersey

Certification

- ASIS International board Certified Protection Professional (CPP)
- High Tech Crime Network Certified Computer Crime Investigator – CCCI (advanced)

Publications

- The Impact of the Internet on Security, Security Journal, 2007, 20, (55-56) Palgrave Macmillan Ltd 0955-1622/07
- Law and Order in a Networked World, Security Counsel, CSO Magazine, March 2003, CXO Media Inc.

Statement of Interest: Mr. Bedsers' company, ICG, Inc. has on occasion been retained by ICANN and ARIN for investigative and threat intelligence services.

Disclosure of Interest:

1. Please identify your current employer(s) and position(s): Employer: ICG, Inc - iThreat Solutions. Position: CEO

2. Please identify the type(s) of work performed at #1 above: I am the executive responsible for the overall performance and operations of the company We are privately held. Our services involve high level consultation, investigation and analysis of internet threat communities and such via large scale data collection and analysis. We perform functions for many market sectors including government.

3. Please list any financial or other material relationship beyond de minimus stock ownership that you or your employer has with any individual, company, or other entity that to your knowledge has a financial or other material relationship with ICANN: ICG has occasionally been retained by ICANN for threat consultation work.

4.   Is your participation as an SSAC member the subject of any arrangements or

agreements between you and any other group, constituency, or person(s)? Please answer "yes" or "no." If the answer is ³yes,² please describe the arrangements or agreements and the name of the group, constituency, or person(s): No.

Sarmad Hussain

Sarmad Hussain is a professor of Computer Science, specializing in local language computing and working in the Internationalized Domain Names (IDNs) as one of the focus areas of research. He contributed to IDNA 2008 protocol by organizing and compiling feedback on it from 10+ language communities across developing Asia for an equal variety of scripts through PAN Localization project (www.PANL10n.net), which was released as a detailed report: Feedback of PAN L10n project on IDNAbis for Languages of Developing Asia. He has been a founding member of Arabic Script IDN Working Group (ASIWG), a self-organizing group which has been working on developing IDN specifications for languages using Arabic script, and has also authored From Protocol to Production: Implementing the IDNs in 2009. He has led the IDN ccTLD program in Pakistan and has been the member of the IDN ccTLD committee formed by Ministry of IT, Govt. of Pakistan. He has worked with the ministry to develop a single language table encompassing the 66+ languages spoken in the country based on feedback from community and experts. The work has also included development of IDN registry test-bed, user-end application plug-ins for IDNs, IDN registration and resolution process, and policy formulation for the IDN ccTLD registry (some details at www.cle.org.pk/idn). He has also been a member of the IDN Implementation Committee, a member of Joint ccNSO-gNSO IDN Working Group (JIG) and the WHOIS Review Team at ICANN. Recently, he has been an active member of the IDN Variant Issues Program of ICANN, where he has been the coordinator of the Arabic Case Study Team, member of the Integrated Issues Report Team, member of the team which developed the Label Generation Ruleset process, and the lead author of the study on User Experience Implications of Active TLD Variants. He has extensively published in the areas of local language computing and has been awarded by Pakistan Academy of Sciences.

Disclosure of Interest:

1. Please identify your current employer(s) and position(s): Professor and Head, Center for Language Engineering, Al-Khawarizmi Institute of Computer Science, University of Engineering and Technology, Lahore, Pakistan.

2. Please identify the type(s) of work performed at #1 above: I have a full-time R&D position, focusing on text, speech and language processing. In addition to R&D, I am involved in teaching graduate courses and supervising graduate research. Most of the work is on Pakistani and other Asian languages. Details are available at www.cle.org.pk.

3. Please list any financial or other material relationship beyond *de minimus* stock ownership that you or your employer has with any individual, company, or other entity that to your knowledge has a financial or other material relationship with ICANN.: Member of DNS Stability Panel for Fast Track and new gTLD programs organized by Interisle. Worked with ICANN for developing the report on *Examining the User Experience Implications of Active Variant TLDs*.

4. Is your participation as an SSAC member the subject of any arrangements or agreements between you and any other group, constituency, or person(s)? Please answer "yes" or "no." If the answer is "yes," please describe the arrangements or agreements and the name of the group, constituency, or person(s): No.

Merike Kaeo

Merike Kaeo is the Founder and Chief Network Security Architect of Double Shot Security, a company started in 2000 that focuses on bridging the gap between security policy instantiation, practical architecture development and effective operational deployment. She currently serves on ICANN's Security and Stability Advisory Council, the FCC's Communications Security, Reliability and Interoperability Council's (CSRIC), and several other industry forums. Her international focus often makes Merike an informal liaison between varying technical and operational groups and she is a sought after resource at global conferences including NATO, TERENA, RSA, NANOG, PLNOG, RIPE, APRICOT and SANOG.

Merike has lead security focused strategies at numerous companies including ISC, T-Mobile, Comcast, and Boeing and has held advisory positions in a variety of security start-up companies. From 1993-2000 Merike was employed by Cisco Systems, Inc. where she instigated and lead the company's first security initiative in 1997. She also focused on technical issues relating to network and application performance, routing protocols and large-scale network design. She is the author of 'Designing Network Security', which was translated into 9 languages and is a reference book for many security accreditation programs.

Merike is a member of the IEEE and has been an active contributor in the IETF since 1992. She co-chaired the IP Performance Metrics (IPPM) working group from 2000–2003 and had actively contributed to numerous IETF working groups with a specific focus on operational sanity. She was named an IPv6 Forum Fellow in 2007 for her continued efforts to raise awareness of IPv6 related security paradigms. Merike received her BSEE from Rutgers University and her MSEE from The George Washington University.

Disclosure of Interest:

1. Please identify your current employer(s) and position(s): Security Evangelist, Internet Identity (IID).

2. Please identify the type(s) of work performed at #1 above: I contribute in industry outreach, technical workshops, technical standards development and global public policy development pertaining to infrastructure security issues.

3. Please list any financial or other material relationship beyond de minimus stock ownership that you or your employer has with any individual, company, or other entity that to your knowledge has a financial or other material relationship with ICANN: IID

provides security services both directly and through channels to several gTLD registries and registrars and has subcontracted to other organizations on various ICANN-directed research projects/studies. IID is also a reseller of domain registrations (largely its own and for security, sinkholing, and research) from numerous gTLD registrars.

4. Is your participation as an SSAC member the subject of any arrangements or agreements between you and any other group, constituency, or person(s)? Please answer "yes" or "no." If the answer is "yes," please describe the arrangements or agreements and the name of the group, constituency, or person(s): No.

Warren Kumari

Warren Kumari is a Senior Network Engineer/Senior Network Security Engineer with Google, and has been with the company since 2005. As a senior engineer, Warren is responsible for all aspects of keeping the Google production network both secure and operational as well as mentoring other members of his team. He also participates in Google's industry standards groups.

Warren has over 17 years of experience in the Internet industry, ranging from tiny start-up ISPs to large enterprises. Prior to Google, he was a Senior Network Engineer at AOL and before that he was Lead Network Engineer at Register.com (when the Shared Registry System first started).

With security concerns becoming more and more prevalent, Warren has chosen to be an active participant of the IETF, the ICANN Security and Stability Advisory Committee, and NANOG. These groups afford him the opportunity to contribute to the community in a vital way by supporting and advancing Internet standards and protocols.

Disclosure of Interest:

Please identify your current employer(s) and position(s): I am employed by Google Inc as a Senior Network Security Engineer, in the Internet Evangelism group.

Please identify the type(s) of work performed at #1 above: The Internet Evangelism Group's mission is to promote the spread of Internet, including through standards efforts. As such, I participate in multiple bodies, including the IETF, various network operators groups and ICANN SSAC, representing the interests of the Internet. While I was initially involved in Google's New gTLD applications, I have firewalled myself off from that group to minimize Conflicts of Interest, and have no day-to-day interaction with the New gTLD group.

Please list any financial or other material relationship beyond *de minimus* stock ownership that you or your employer has with any individual, company, or other entity that to your knowledge has a financial or other material relationship with ICANN: Google Inc. (an ICANN-accredited registrar and, via its wholly owned subsidiary Charleston Road Registry is an applicant for a number of top level domain names) pays my salary and provides me with other forms of compensation, including stock and stock

options. I have no immediate family members / significant others with relations to ICANN or ICANN activities.

Is your participation as an SSAC member the subject of any arrangements or agreements between you and any other group, constituency, or person(s)? Please answer "yes" or "no." If the answer is "yes," please describe the arrangements or agreements and the name of the group, constituency, or person(s): No.

Matt Larson

As Chief Architect, Matt will help lead technical innovation for Dyn and is charged with looking at the company's systems to ensure they are more scalable, more reliable and higher performing.

Prior to joining Dyn, Matt was the VP of Research at Verisign and Director of Verisign Labs where he worked for the past 13 years. Over that time, Matt used his skills as a DNS protocol and operations specialist in various roles. Most recently, he led the company's labs division where he was responsible for applied research, university partnerships and standards bodies and industry forum relations.

Matt began his professional career at HP where he worked until 1997 when he co-founded Acme Byte & Wire LLC, a private consulting and training company that specialized in DNS and Internet security and worked with Fortune 100 companies. Verisign bought Acme Byte & Wire in June 2000.

Matt lives in Bethesda, MD, with his wife, Sonja, his kids, Christian and Ilsa, and two pugs.

Accomplishments

- Co-host of the Ask Mr. DNS podcast with Cricket Liu
- Co-author of DNS on Windows Server 2003, DNS on Windows 2000, DNS on Windows NT (O'Reilly books)
- Member of ICANN's Security and Stability Advisory Committee (SSAC)
- Contributor to the Internet Engineering Task Force (IETF)
- Past chairman of the board of the DNS Operations, Analysis and Research Center (DNS-OARC)
- Past vice-chair of ICANN's Root Server System Advisory Committee (RSSAC)

Disclosure of Interest:

1. Please identify your current employer(s) and position(s): Chief Architect, Dyn, Inc.

2. Please identify the type(s) of work performed at #1 above: I help set technical direction for all products and services.

3. Please list any financial or other material relationship beyond de minimus stock ownership that you or your employer has with any individual, company, or other entity that to your knowledge has a financial or other material relationship with ICANN: Dyn is an ICANN-accredited registrar.

4. Is your participation as an SSAC member the subject of any arrangements or agreements between you and any other group, constituency, or person(s)? Please answer "yes" or "no." If the answer is "yes," please describe the arrangements or agreements and the name of the group, constituency, or person(s): No.

Danny McPherson

Danny McPherson is Chief Security Officer for Verisign where he is responsible for strategic direction, research and innovation in infrastructure, and information security. He currently serves on the Internet Architecture Board (IAB), ICANN's Security and Stability Advisory Council, the FCC's Communications Security, Reliability and Interoperability Council's (CSRIC), and several other industry forums. Previously, McPherson was CSO of Arbor Networks, and prior to that held technical leadership positions with Amber Networks, Qwest Communications, Genuity, MCI Communications, and the U.S. Army Signal Corps. He has been active within the Internet operations, security, research, and standards communities for nearly 20 years, and has authored a number of books and other publications related to these topics.

Disclosure of Interest:

1. Please identify your current employer(s) and position(s): VeriSign, Inc., Chief Security Officer.

2. Please identify the type(s) of work performed at #1 above: All aspects of information and infrastructure security, resiliency, cyber security, risk management, compliance and intelligence-driven security. Also engaged in Internet standards and research and development activities. For additional details please refer to my biography and statement of interest at http://www.icann.org/en/groups/ssac/biographies-03sep13-en.htm.

3. Please list any financial or other material relationship beyond de minimus stock ownership that you or your employer has with any individual, company, or other entity that to your knowledge has a financial or other material relationship with ICANN: Verisign is my sole employer. Verisign is a contracted party with ICANN. Verisign has applied for 14 new gTLDs and is contracted to provide back-end registry services to approximately 200 new gTLDs. More information about Verisign can be found in its public filings, available at verisigninc.com. No immediate family member and/or significant others have any financial or other interest in ICANN including any ICANN policy, program, process, or anything related to ICANN or the ICANN community. For additional details please refer to my biography and statement of interest athttp://www.icann.org/en/groups/ssac/biographies-03sep13-en.htm.

4. Is your participation as an SSAC member the subject of any arrangements or agreements between you and any other group, constituency, or person(s)? Please answer "yes" or "no." If the answer is "yes," please describe the arrangements or agreements and the name of the group, constituency, or person(s). No.

Statement of Interest:

I am a Vice President and the Chief Security Officer at VeriSign. VeriSign is the registry operator for the .com, .net and .name gTLDs and also provides backend registry services in support of Employ Media for the .jobs gTLD. VeriSign is also the registry operator for two ccTLDs, .cc and .tv.

As an employee who supports VeriSign's naming services business, I have access to Registry Sensitive information including information about registrars. With regard to both our gTLD and ccTLD registration services businesses as well as other VeriSign businesses, our customers and business associates have interests in various ICANN policy issues and may be members of other GNSO constituencies and/or supporting organizations.

In addition to registry agreements with ICANN for .com and .net, VeriSign also has obligations to the U.S. Department of Commerce through a cooperative agreement that was initiated in 1993 and has been amended many times since then. Those obligations include operating the A root server as well as interacting with the IANA functions operator to implement and publish root zone changes. I am also an appointed member of the Internet Architecture Board, which among many other things, has numerous interactions with the Internet Assigned Numbers Authority (IANA) functions operator. VeriSign (VRSN) is a publicly traded company. I own shares of VeriSign stock.

Shinta Sato

Shinta Sato is currently Group Leader, Technology Planning Office, at Japan Registry Services Co., Ltd. (JPRS) in Tokyo, Japan. In his current position, Mr. Sato has been involved in the following activities: 1) Implementation of IPv6, DNSSEC and Anycast technologies to JP DNS; 2) Operation and Administration of DNS, Whois and Registry Systems; 3) R&D, stability and security projects of Sentan Registry Services, an applicant of .NET TLD; and 4) Technology planning of JP DNS and Registry systems.

From January 2001 to June 2001, Mr. Sato was Group Leader, Technical Service Department, for Japan Registry Service Co., Ltd. (JPRS) on a temporary transfer from JPNIC. He was involved in system design and implementation of JP Registry System, JPRS office systems and JPRS network environment. In addition, Mr. Sato worked on the operation and administration of JPNIC and JPRS overall registry systems and networks.

From April 1999 to June 2001, Mr. Sato was Manager, System Administration Section, Technical Service Department at the Japan Network Information Center (JPNIC) where

he worked on the operation and administration of DNS, Whois, Registry Systems and Office systems, and the operation and administration of the JPNIC Network environment.

From March 2007 to March 2009 Mr. Sato was a ccNSO IANA WG member. Mr. Sato has been a member of the SSAC since November 2007.

Mr. Sato received his Bachelor of Engineering at the University of Tokyo in March 1994 and his Master of Engineering at the University of Tokyo in March 1996. From April 1996 to March 1999 he was a Doctorial student at the University of Tokyo.

Statement of Interests: (cc)TLD registry system, procedure; DNSSEC deployment; IDN deployment; Internationalized registry information; Overall DNS protocol / operation; Security consideration.

Disclosure of Interest:

1. Please identify your current employer(s) and position(s): Employer: Japan Registry Services Co., Ltd. Position: Group Leader, Technology Planning, Technology Planning Office.

2. Please identify the type(s) of work performed at #1 above. I work for planning of pre-operational technical designs and policies. Target system is DNS service, registry services and others related to
JPRS services.

3. Please list any financial or other material relationship beyond de minimus stock ownership that you or your employer has with any individual, company, or other entity that to your knowledge has a financial or other material relationship with ICANN: JPRS is ccTLD registry of .JP, with sponsorship agreement with and financial contribution to ICANN. JPRS is ICANN Accredited Registrar. JPRS applied for new gTLD.

4. Is your participation as an SSAC member the subject of any arrangements or agreements between you and any other group, constituency, or person(s)? Please answer "yes" or "no." If the answer is "yes," please describe the arrangements or agreements and the name of the group, constituency, or person(s): No.