

## Roy Arends

I'd like to volunteer as a member of the DSSA WG.

- > 1) You should have knowledge or expertise of the objectives of the DSSA Working Group

I do. I used to be chair of a national CERT. I currently research various aspects of the DNS and all that depends on it, at Nominet UK.

- > 2) You should be prepared to actively participate in the activities of the working group on an ongoing and long-term basis.

I am.

- > 3) You should be prepared, if required, to sign a Formal Affirmation of Confidentiality and Non-Disclosure paper (see Annex B of Charter) and/or a Non-Disclosure Agreement. The WG might want to set up a sub-working group to access confidential or proprietary information. If you want to participate in such a sub-working group you will most likely be required to sign one or both of the aforementioned agreements in order to ensure access to and protection of confidential information.

I am.

- > If you are interested in joining this Working Group, we also need a Statement of Interest, containing following information:
  - >
  - > - Current vocation, employer and position

Head of Research, Nominet UK.

- > - Type of work performed

Initiated various projects: Visualization of threats in IPv4 address space, wrote IETF standards. Wrote DNSSEC software. Assisted in large scale incident management, etc.

- > - Identify any financial ownership or senior management/leadership interest in that are interested parties in DSSA related topics.

None outside my current vocation/employment.

- > - Identify any type of commercial or non-commercial interest in DSSA related topics. Are you representing other parties? Describe any arrangements/agreements between you and any other group, constituency or person(s) regarding your nomination/selection as a work team member.

I represent Nominet. I do not represent anything or anybody else. There are no arrangements.

- > - DSSA Working Group members are expected to demonstrate knowledge or
- > expertise aspects of the objectives of the DSSA Working Group. Please,
- > identify any knowledge, expertise or experience you have that would be
- > relevant to the work of the DSSA Working Group.

I used to be chair of a national CERT. I'm member of the IETF's DNS Directorate. I co-wrote all the core IETF standards on DNSSEC (4033/4034/4035/5155). I co-wrote NSEC3. I invented "Opt-Out" for DNSSEC. I started large software development that are now widely used (unbound & opendnssec). I held a seat on the board of directors for DNS-OARC until recently. I'm a member of SSAC. I actively participate in security related discussions and help mitigate and investigate actual attacks when they happen. I do this since 1996.

- > - Describe any tangible or intangible benefit that you receive from
- > participation in such processes, for example, if you are an academic or NGO
- > and use your position to advance your ability to participate, this should be
- > a part of the statement of interest, just as should employment by an
- > organisation that has an interest in DNSSA Working Group outcomes.

The idea to enhance the DNS system by understanding it better, improving it, identifying threats, mitigating those and as such improve the health of the entire ecosystem that resides on it is a direct benefit for the internet and to those that operate critical parts of it, such as my employer, Nominet.

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### **Sean Copeland, .vi**

Business Intelligent Processing Systems PLC - Isle of Man  
Managing Director  
1996 – Present  
50% owner

NIC.VI  
Technical Liason  
2003 - Present

Business Intelligent Processing Systems PLC - Isle of Man is involved with payment processing. We have previously been a level 1 certified payment processor when required for client purposes, and are currently going through FSA regulation for foreign exchange. From a commercial perspective, I have over a decade experience dealing with credit and debit transactions in a plurality of jurisdictions and what is involved in terms of legal, technical and operational terms. Part of that process involves a number of relationships with authentication and validation services, and I have personally been involved in the creation and implementation of metrics used in high risk merchant segments in the e-commerce space.

From a corporate perspective, I have relationships with Royal Bank of Scotland, World-pay, Aristotle, Authentify, Vital, MBS merchant services, Envoy, B-Verified, Global Collect. All of these companies are either directly or indirectly involved in payment processing and the validation of payment information.

My interest in terms of the DSSA is when, in the ccNSO meetings, a comment was made about PCI. Having been through the PCI process from the tier 1 financial institution, payment processor perspective, and having access to the fraud systems used by both the highest risk online merchants and the US military, I am aware of some of the shortfalls associated with the very well documented payments standards, and since I volunteer with a smaller country domain, I would like to be able to provide input to ensure that on one hand while data is maintained and confirmed, it is not done in a cost prohibitive manner, nor would I want to see a wholesale adoption of payment card standards when, in my opinion, elements are contrary to the operation of a TLD.

It goes without saying that I do have a vested interest in the integrity of the data. At this moment I cannot see a direct conflict of interest. This could change down the road if ICANN implemented a standardized API for data integrity.

In terms of securing the DNS, while I maintain a PCI compliant server facility, I am not in the business of providing PCI certification to third parties, though I do consult with companies to aid them through the certification process. I do have an understanding of denial of service attacks against large online merchants, and some of the more effective, and less effective products and services we have used in the past to mitigate such attacks.

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**Jay Daley, .nz**

I would like to volunteer. Answers below:

- > 1) You should have knowledge or expertise of the objectives of the DSSA
- > Working Group

I was part of the joint WG that drew up the charter.

- > 2) You should be prepared to actively participate in the activities of the
- > working group on an ongoing and long-term basis.

I am so prepared.

- > 3) You should be prepared, if required, to sign a Formal Affirmation of
- > Confidentiality and Non-Disclosure paper (see Annex B of Charter) and/or a
- > Non-Disclosure Agreement. The WG might want to set up a sub-working group to
- > access confidential or proprietary information. If you want to participate
- > in such a sub-working group you will most likely be be required to sign one
- > or both of the aforementioned agreements in order to ensure access to and
- > protection of confidential information.

I am so prepared.

- > - Current vocation, employer and position

Chief Executive, .nz Registry Services

- > - Type of work performed

Managing all aspects of a ccTLD registry.

- > - Identify any financial ownership or senior management/leadership
- > interest in that are interested parties in DSSA related topics.

I am an elected board director of the Registration Infrastructure Safety Group (RISG), a membership body comprising registries, registrars and security companies looking at how we might share our data to fight cyber crime and maintain the security and safety of the domain name industry.

I am an administrator of the NXDomains mailing list, a community initiative to enable the fast takedown of maliciously registered domain names.

- > - Identify any type of commercial or non-commercial interest in DSSA related
- > topics.

As above.

- > Are you representing other parties? Describe any
- > arrangements/agreements between you and any other group, constituency or
- > person(s) regarding your nomination/selection as a work team member.

I am solely representing the .nz ccTLD and have made no arrangements with any other party.

- > - DSSA Working Group members are expected to demonstrate knowledge or
- > expertise aspects of the objectives of the DSSA Working Group. Please,
- > identify any knowledge, expertise or experience you have that would be
- > relevant to the work of the DSSA Working Group.

I've been working in the DNS industry since 2002 in mainly a technical role. I was very active in the work to develop and promote NSEC3 to enable ccTLDs to sign their zones, I was a founder member of OARC recognising back then the need for greater data collection and analysis to help identify threats and I was a founder member of RISG aiming to bring together different players in the industry to share data comprehensively. More recently I've been advising NZ Police and a number of other countries' law enforcement agencies to help them understand TLD working practices and concerns and how best for LE to interact with the ICANN community.

As well as my knowledge and experience of this area, the expertise I bring is my analytical skills and willingness to put in the hard work needed to ensure the working group does a good job.

- > - Describe any tangible or intangible benefit that you receive from
- > participation in such processes, for example, if you are an academic or NGO
- > and use your position to advance your ability to participate, this should be
- > a part of the statement of interest, just as should employment by an
- > organisation that has an interest in DNSSA Working Group outcomes.

The intention of this working group is to enhance the security and stability of DNS and doing that will benefit the .nz TLD as it will all others.

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### **Chamara Disanayake, .lk**

This statement of interest is presented to the ccNSO council to convey my interest in joining the DNS Security and Stability Analysis Working Group (DSSA Working Group). I'm Chamara Disanayake, currently holding the post of the manager-engineering in LK Domain Registry (LKNIC), Sri Lanka, which is the authorized .lk ccTLD registry. It also authorizing the .lanka and .ilangai IDN ccTLDs as well. I'm also working as a visiting lecturer at the department of Computer Science & Engineering, University of Moratuwa conducting networking related lectures to the computer engineering undergraduates in level3 and level4.

I graduated from the University of Moratuwa in late 2002 with a BSc (Engineering) degree in computer science and engineering. Soon after the graduation, I joined the department for my postgraduate studies and in 2005 I completed my M.Sc (Research) in Computer Science. In 2005 I joined LK Domain Registry as a systems engineer and working for the same organization since then. I was appointed to my current position in 2008, having responsible of entire DNS and DNS Security, registration systems and LKNIC network infrastructure.

During my working period at LK Domain Registry, I involved in all DNS related implementations including DNS security features such as TSIG and DNSSEC. I was able to use the knowledge and the experience I gained by participating DNSSEC workshop conducted by AIT-Thailand in December 2006 and DNS Security workshops in APRICOT, Malaysia in Feb 2010 in implementing DNSSEC in ccTLDs of LKNIC. This implementation supported us to be the first among all the APTLD registries who signed the zone with DNSSEC and having DS recodes in the root zone. The LKNIC DNSSEC technical team under my leadership currently involving in several DNSSEC testings such as algorithm rollover etc. I shared my experience in DNS security field at several international meetings and workshops including recent APTLD meetings and SANOG17 (South Asian Network Operators Group) DNSSEC and Digital Forensics workshops as a speaker.

If I get an opportunity to join the DSSA working group, I would like to work in DNSSEC security implementation area as I would be able to use the knowledge and experience in this area. By having this opportunity, I will be able to expand my knowledge by involving DNS security related researches. It would help me to strengthen the DNS infrastructure and also to enrich engineering undergraduates with new technologies.

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### **Mark Elkins, .za**

In response to your call - I'd like to put my name forward. I have read the PDF (Draft charter) - and would be happy to sign its included disclaimer (ANNEX B: AFFIRMATION OF CONFIDENTIALITY AND NON—DISCLOSURE).

> 1) You should have knowledge or expertise of the objectives of the DSSA  
> Working Group

I understand the objectives of the working group

- > 2) You should be prepared to actively participate in the activities of the
- > working group on an ongoing and long-term basis.

I am prepared to be involved for the long term.

- > 3) You should be prepared, if required, to sign a a Formal Affirmation of
- > Confidentiality and Non-Disclosure paper (see Annex B of Charter) and/or a
- > Non-Disclosure Agreement. The WG might want to set up a sub-working group to
- > access confidential or proprietary information. If you want to participate
- > in such a sub-working group you will most likely be be required to sign one
- > or both of the aforementioned agreements in order to ensure access to and
- > protection of confidential information.

No problem.

- > If you are interested in joining this Working Group, we also need a
- > Statement of Interest, containing following information:
- >
- > - Current vocation, employer and position

Business owner - Posix Systems - a small ISP based in South Africa.  
(<http://posix.co.za>)

I am also the Technical Director of UniForum SA - the custodians of the CO.ZA Domain (Commercial South Africa), the largest zone in Africa.

(<http://www.coza.net.za>)

I am also a Board Member of AfriNIC.

- > - Type of work performed

Very involved in the DNS industry. As part of my involvement with the CO.ZA Registry, I teach DNS (Intro and Advanced) with Johan Ihren of Netnod/Autonomica (using his material) and have done so for a few years. I've personally written much of the code for my own ISP's systems - including DNSSEC features for my clients zones.

I wrote the CO.ZA system that is still in use today (after 15 years) - automating the registration of co.za domains. (My biggest shell script ;- ) (This is currently being re-written from scratch, full EPP, in Python, etc).

- > - Identify any financial ownership or senior management/leadership
- > interest in that are interested parties in DSSA related topics.

As Technical Director of UniForum SA and the Owner of an ISP, the stability and security of the DNS is part of my everyday work?

- > - Identify any type of commercial or non-commercial interest in DSSA related
- > topics. Are you representing other parties? Describe any
- > arrangements/agreements between you and any other group, constituency or
- > person(s) regarding your nomination/selection as a work team member.

This is a personal nomination. I simply have a love for the DNS (and the Internet in general). I do attend ICANN meetings - probably one a year and was present when Mr Beckstrom announced his desire for such a group.

- > - DSSA Working Group members are expected to demonstrate knowledge or
- > expertise aspects of the objectives of the DSSA Working Group. Please,
- > identify any knowledge, expertise or experience you have that would be
- > relevant to the work of the DSSA Working Group.

I have a reasonable working knowledge of DNS and formally teach DNS to others.

- > - Describe any tangible or intangible benefit that you receive from
- > participation in such processes, for example, if you are an academic or NGO
- > and use your position to advance your ability to participate, this should be
- > a part of the statement of interest, just as should employment by an
- > organisation that has an interest in DNSSA Working Group outcomes.

I'm not expecting to receive any personal benefits by volunteering to participate. Of course - positive peer recognition is always pleasant! Benefits will hopefully be a more stable and secure DNS environment for everyone.

I do know quite a few people who attend ICANN - mainly from the ccTLD community. I am probably better known by the African Community, where I generally participate in Internet related business.

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**Jaques Latour, .ca**

Please note my interest in becoming a member of the Joint DNS Security and Stability Analysis Working Group (DSSA WG). I have knowledge of, and expertise in, the objectives of the DSSA Working Group, and am prepared to actively participate in the activities of the Working Group on an ongoing and long-term basis. I am also prepared, if required, to sign a Formal Affirmation of Confidentiality and Non-Disclosure agreement. Please find below the information requested in the Call for Volunteers.

*1. Current vocation, employer and position*

I am an Information technology and security specialist with over 20 year experience. I am currently the Director of Information Technology at the Canadian Internet Registration Authority (CIRA). CIRA is the .CA ccTLD registry.

*Type of work performed:*

I am responsible for all aspect of the Information Technology systems, applications and security within CIRA's domain name registry, DNS and corporate infrastructure.

I'm a visionary, hands-on and goal-oriented IT senior executive with demonstrated experience in planning, developing and implementing leading edge IT solutions.

*2. Identify any financial ownership or senior management/leadership interest in that are interested parties in DSSA related topics.*

None

*3. Identify any type of commercial or non-commercial interest in DSSA related topics.*

*Are you representing other parties? Describe any arrangements/agreements*

*between you and any other group, constituency or person(s) regarding your nomination/selection as a work team member.*

I am not representing other parties, nor do I have commercial or non-commercial interested in DSSA related topics.

*4. DSSA Working Group members are expected to demonstrate knowledge or expertise aspects of the objectives of the DSSA Working Group. Please, identify any knowledge, expertise or experience you have that would be relevant to the work of the DSSA Working Group.*

I have significant experience developing and implementing operational security frameworks within IT service organizations. I have experience in implementing Computer Security Incident Response Team (CSIRT or CERT) for large IT security organizations.

I've also developed a CSIRT Registry Authority concept (<https://www.centr.org/main/5944-CTR/version/default/part/AttachmentData/data/CIRA%20CSIRT%20Registry%20Authority%20v1.3.pdf>) to address global security concerns (including DNS) and also CIRA's security concerns within the Canadian landscape. Positive feedback was received from the Canadian national CSIRT, government and enforcement agencies, from CERT.ORG, and various ccTLDs.

I understand the security operational pain points IT organizations currently face with handling security events internally and externally, and I understand the impacts on IT organization for practical solution implementation (i.e. can the proposed solutions practically be implemented by their security groups within the IT organization).

*5. Describe any tangible or intangible benefit that you receive from participation in such processes, for example, if you are an academic or NGO and use your position to advance your ability to participate, this should be a part of the statement of interest, just as should employment by an organisation that has an interest in DNSSA Working Group outcomes.*

CIRA, as the .CA registry, is very concerned with maintaining a stable and secure DNS. Therefore, while CIRA will not have any benefit from my participating in such a process, CIRA may benefit from any improvements or measures recommended by the DSSA WG.

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**Bill Manning, USC/ISI**

Bill Manning - USC/ISI - Root Server Operator

I manage the operations of one of the root servers and help set policy.

I participate in the Root Server System Advisory committee and was a joint author of the Root Scalability Study.

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**Takayasu Matsuura, .jp**

- Current vocation, employer and position

- System Manager, Administrator
- Japan Registry Services Co., Ltd. (JPRS)
- Leader of the system operation group

- Type of work performed

- Operations and administrations of DNS, Whois, Registry Systems, and overall JPRS office systems
- Architecture design of JP DNS and Registry systems implementations
- Involved in the implementation of IPv6, IP-Anycast, DNSSEC technologies in JP DNS and Registry Systems

- Identify any financial ownership or senior management/leadership interest in that are interested parties in DSSA related topics.

JPRS itself is a ccTLD registry of .JP, and is operating DNS by itself. Thus, JPRS is one of the interested parties in DSSA related topics.

- Identify any type of commercial or non-commercial interest in DSSA related topics. Are you representing other parties? Describe any arrangements/agreements between you and any other group, constituency or person(s) regarding your nomination/selection as a work team member.

No special relationship with other group, constituency or person(s) regarding the nomination as a DSSA member.

- DSSA Working Group members are expected to demonstrate knowledge or expertise aspects of the objectives of the DSSA Working Group. Please, identify any knowledge, expertise or experience you have that would be relevant to the work of the DSSA Working Group.

In ten years of experiences in JPRS, I have been heavily involved in the operation of large scale TLD registry systems and DNS. I've engaged in these systems from architecture design and configurations phase, and they have been up and running without any critical system failure.

- Describe any tangible or intangible benefit that you receive from participation in such processes, for example, if you are an academic or NGO and use your position to advance your ability to participate, this should be a part of the statement of interest, just as should employment by an organisation that has an interest in DNSSA Working Group outcomes.

The outcomes of the WG may include the issue list or the images of how the systems should be. Views of other members or case studies, knowledge of other systems will help us to ensure more security and stability of the whole global DNS including .JP.

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**Jörg Schweiger, .de**

Statement of Interest information:

Vocation: university degree and doctorate in computer science

Employer: Denic eG

Position: Member of the Executive Board

Type of work performed: CTO

Financial ownership or senior management/leadership in DSSA related topics: None

Commercial or non-commercial interest in DSSA related topics: Acquiring knowledge to the benefit of (cc)TLDs and .de in particular

Are you representing other parties: No

Describe any arrangements/agreements between you and any other group, constituency or person(s) regarding your selection as a work team member: None

DSSA Working Group members are expected to demonstrate knowledge or

Expertise: - technical) management of the world's largest ccTLD,  
- (former) chair of the incident response  
WG

Describe any tangible or intangible benefit: None

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**Sean Shen, .cn**

Director of CNNIC Labs

China Internet Network Information Center (CNNIC)

**Education:**

- Ph.D (Cryptography, Information Security), Purdue University, 2007
- Master (Electronics and Computer Engineering), Purdue University, 2005
- Bachelor(Applied Mathematics), University of Science and Technology of China, 2000

I have a background in network security including security protocols, algorithm, products and solutions. For years I have been working on and directing security research in and development in both telecommunication industry and ccTLD registry. I have also been active involved in standard promotions such as in IETF., especially in security area and internet area. I have published a RFC and many working group documents in security and internet area.

Currently I am directing the research labs of CNNIC, the “.CN” and “.中国/中国.”ccTLD registry, one of the members of ccNSO. I am in charge of research in DNS system security, Anti-Phishing, domain name reputation analysis and protocol analysis. Also I am responsible for domestic and international standard promotion, relationship and cooperation in both industry and academia.

I have been actively involved in or paying close attention to IDN, DNSSEC and other issues in ICANN. I have been regularly attending ICANN meetings or remote conferences for a long time, it is my pleasure to contribute to ICANN community and solve problems together with ICANN stakeholders.

Based on my strong technical background and strong interest in contributing to Internet community, I seek to be chosen as a member of DSSA WG, with the inclination not only to represent the ccTLDs, but also the larger interest in internet architecture especially DNS related. I am fully aware and ready to actively participate in the activities of the working group on an ongoing and long-term basis. I am also aware and ready for the confidential and non-disclosure responsibility and would like to join the sub-working group which requires such agreement.

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