# Board Resolution 2017.06.24.19 Implementation Recommendations for SSAC Advice Documents SAC062, SAC063, SAC064, SAC065, SAC070, and SAC073 (08 June 2017)

Advice Item	Description	ICANN Organization Statement of	ICANN Organization Implementation	Background on Issue	Proposed Solution
		Understanding	Recommendation		
SAC062: SSAC Advisory Concerning the Mitigation of	ICANN should work with the wider Internet community, including at least the IAB and the IETF, to	SAC062 Recommendation 1 did not go through this phase of the Board Advice	Implementation is recommended and in progress.	Problem: Domain name strings with documented evidence of broad and significant private usage should be	The Office of the CTO Research group will continue its work (already in progress), including providing data and analysis to
Name Collision Risk (Recommendation 1)	identify (1) what strings are appropriate to reserve for private namespace use and (2) what type of	pilot process.		considered for permanent reservation for internal use to reduce security and stability issues, as well as to provide a	the community, the IAB, and the IETF DNSOP (DNS Operations) Working Group, to inform discussions relating to the
7 Nov 2013	private namespace use is appropriate (i.e., at the TLD level only or at any additional lower level).			stable namespace for parties using other strings to migrate to if they do not use fully-qualified domain names (FQDNs).	process of reserving "special use" names. These special-use domain names correspond to the "strings [] appropriate to reserve for private namespace use" in the recommendation
				Board Resolution (21 Nov 2013): The ICANN Board passed a resolution that "directs ICANN's President and CEO to have the advice provided in SAC062 evaluated" (see	from SAC062 that is the focus of this document.
				https://www.icann.org/resources/boar d-material/resolutions-2013-11-21- en#2.d).	

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
SAC063: SSAC	ICANN staff should lead, coordinate,	This recommendation is	Implementation is	Problem: DNSSEC validators will be	The Office of the CTO (OCTO) Research
Advisory on DNSSEC	or otherwise encourage the creation	understood to mean ICANN	recommended and in	affected by the root KSK rollover	group will continue its work, already in
Key Rollover in the	of a collaborative, representative	organization should arrange	progress.	project. ICANN should understand how	progress as part of the root KSK rollover
Root Zone	testbed for the purpose of analyzing	for a resolver testbed to be		specific validators behave so that any	project implementation, to set up a
(Recommendation 2)	behaviors of various validating	created that will allow for		anomalous behavior can be reported to	resolver testbed to study the behavior of
	resolver implementations, their	the analysis of validating		the software's authors. Understanding	DNSSEC validator behavior under various
7 Nov 2013	versions, and their network	resolvers in a variety of		validator behavior will also allow root	operational conditions. In order to make
	environments (e.g., middle boxes)	network environments and		server traffic to be analyzed for signs of	the testbed open for collaborative use,
	that may affect or be affected by a	that the testbed should be		distress immediately after the actual	additional resources will be necessary and
	root KSK rollover, such that	open for collaborative		rollover event.	the testbed would need to be migrated
	potential problem areas can be	use. The ICANN			from the OCTO lab to the Information
	identified, communicated, and	organization further		Board Resolution (21 Nov 2013): "In	Technology (IT) department for
	addressed.	understands the goal of this		the instances where ICANN	production use. IT, working with OCTO,
		particular testbed is to		recommends that the advice be	will need to provide cost estimates.
		identify potential problem		accepted, the Board directs ICANN's	
		areas associated with		President and CEO to have the	
		validating resolvers handling		feasibility and costs of implementing	
		the keyroll such that those		the advice evaluated, and to provide an	
		problems can be		implementation plan with timelines	
		communicated to those		and high-level milestones for review by	
		responsible for addressing		the Board, no later than 120 days from	
		those problems.		the adoption of this resolution" (see	
				https://www.icann.org/resources/boar	
				d-material/resolutions-2013-11-21-	
				<u>en#2.e</u> ).	

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
SAC063: SSAC	ICANN staff should lead, coordinate,	The ICANN organization	Implementation is	Problem: The root zone KSK has never	The Office of the CTO (OCTO) Research
Advisory on DNSSEC	or otherwise encourage the	understands	recommended and in	been rolled (changed) before, so it will	group and IANA staff have planned and
Key Rollover in the	collection of as much information as	recommendation 5 of	progress.	be a major undertaking with significant	are now implementing the project to roll
Root Zone	possible about the impact of a KSK	SAC063 to indicate staff		opportunity for disruption. SSAC wants	the root zone's KSK. The project plan
(Recommendation 5)	rollover to provide input to planning	should collect as much		ICANN organization and the larger	already includes steps to monitor the
	for future rollovers.	information as possible		community to learn as much as	effects of the rollover. The OCTO
7 Nov 2013		about the impact of the KSK		possible from the undertaking to	Research group is already collecting traffic
		rollover so that data can be		improve the process when the KSK is	to multiple root name servers and will
		analyzed by DNS experts		rolled again in the future.	continue to do so through the duration of
		and made available to the			the project. OCTO Research is also
		community to facilitate		Board Resolution (21 Nov 2013): "In	gathering and analyzing other relevant
		planning for future		the instances where ICANN	data, such as RSSAC002 statistics reported
		rollovers.		recommends that the advice be	by most root operators. Portions of data
				accepted, the Board directs ICANN's	collected will be made available.
		This recommendation is		President and CEO to have the	
		understood to mean that		feasibility and costs of implementing	The OCTO Research and Public Technical
		data about the events		the advice evaluated, and to provide an	Identifier (PTI) staff anticipate writing a
		surrounding the roll of the		implementation plan with timelines	report at the conclusion of the project
		trust anchor must be		and high-level milestones for review by	documenting experiences, including
		collected and should be		the Board, no later than 120 days from	observations regarding the impact of the
		archived to facilitate		the adoption of this resolution" (see	rollover, to aid in planning future
		planning for future		https://www.icann.org/resources/boar	rollovers.
		rollovers.		d-material/resolutions-2013-11-21-	
				<u>en#2.e</u> ).	

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
SAC064: SSAC	The SSAC recommends ICANN staff	Our understanding of	While it is certainly	Problem: DNS clients, called stub	The ICANN organization will work with the
Advisory on DNS	to work with the DNS community	SAC064 R-2 is that the SSAC	possible to write an	resolvers, typically implement a "search	DNS community and the IETF to develop
"Search List"	and the IETF to encourage the	recommends that ICANN	Internet-Draft	list", which is a list of domains that are	an Internet Draft that encourages
Processing	standardization of search list	organization work with the	encouraging the	appended to a user's input of a partial	standardization of searchless process
(Recommendation 2)	processing behavior. Such an effort	DNS community and the	standardization of	domain name to form a fully qualified	behavior. Costs for this solution would
	should begin with ICANN staff	IETF to encourage the	search list processing,	domain name. Improper search list	include significant interaction with the
13 Feb 2014	submitting an Internet-Draft to the	standardization of search list	it is not clear that the	behavior can cause excessive queries	IETF and DNS community as well as
	IETF, and advocating for its	processing behavior,	existence of such a	for non-existent names. When these	additional staff resources to pursue this
	standardization within the IETF	beginning with the	document would	non-existent names are in non-existent	standardization.
	process. The effort should update	submission of an Internet-	necessarily make a	TLDs, the queries end up at the root	
	RFC 1535 and other applicable RFCs	Draft to the IETF and	significant impact on	servers. Queries for these non-existent	
	to address the Findings and	advocating for its	client behavior any	TLDs could eventually conflict or	
	Recommendations in this document.	standardization within the	time soon, if ever.	"collide" with a potential new gTLD.	
		IETF process. Updates to	Resources in Office of	SSAC reasons that by improving search	
		RFC 1535 and other RFCs	the CTO (OCTO)	list behavior, the number of queries for	
		related to this topic should	Research to undertake	non-existent TLDs can be reduced, and	
		be included within the	IETF work such as	thus the potential for name collisions	
		Internet-Draft.	writing Internet-Drafts	also reduced.	
			are limited. It is		
			recommended that the	17 Nov 2014 Board Resolution (17 Nov	
			OCTO Research team	2014): "In the instances where ICANN	
			be given the discretion	recommends that the advice be	
			to discuss the	accepted, the Board directs ICANN's	
			feasibility and impact	President and CEO to have the	
			of the suggested	feasibility and costs of implementing	
			document, and	the advice evaluated, and to provide an	
			prioritize writing it	implementation plan with timelines	
			against the other work	and high-level milestones for review by	
			on its research agenda.	the Board, no later than 120 days from	
				the adoption of this resolution" (see	
				https://www.icann.org/resources/boar	
				d-material/resolutions-2014-11-17-	
				<u>en#1.c</u> ).	

SAC064: SSAC
Advisory on DNS
"Search List"
Processing
(Recommendation 3)

13 Feb 2014

In the context of mitigating name collisions, ICANN should consider the following steps to address search list processing behavior.

- a. Commission additional research studies to further understand the cause of invalid queries to the root zone and the significance of search list processing as a contributor to those queries.
- b. Communicate to system administrators that search list behaviors currently implemented in some operating systems will cause collision with names provisioned under the newly delegated top-level domains. Such communication should complement the current ICANN effort in this area with findings and recommendations from this report.

Our understanding of SAC064 R-3 is that the SSAC recommends that in the context of mitigating name collisions, ICANN should consider the following steps

to address search list

processing behavior:

a. ICANN should consider whether to commission additional studies to further understand the cause of invalid queries to the root zone and the significance of search list processing as a contributor to those queries.

b. ICANN should

communicate to system administrators that search list behaviors currently implemented in some operating systems will cause collision with names delegated as new gTLDs from the 2012 application round for the New gTLD Program.

Implementation is recommended.

resolvers, typically implement a "search list", which is a list of domains that are appended to a user's input of a partial domain name to form a fully qualified domain name. Improper search list behavior can cause excessive queries for non-existent names. When these non-existent names are in non-existent TLDs, the gueries end up at the root servers. Queries for these non-existent TLDs could eventually conflict or "collide" with a potential new gTLD. SSAC suggests a study to determine the causes of gueries for non-existent domains to the root zone and. specifically, to understand the extent to which search list processing contributes to those gueries. We do know that some existing search list behavior contributes to name collisions, and SSAC suggests that ICANN publicize this behavior and its impact of new gTLDs from the 2012 application round to system administrators.

Problem: DNS clients, called stub

Board Resolution (17 Nov 2014): "In the instances where ICANN recommends that the advice be accepted, the Board directs ICANN's President and CEO to have the feasibility and costs of implementing the advice evaluated, and to provide an implementation plan with timelines and high-level milestones for review by the Board, no later than 120 days from the adoption of this resolution" (see

There are two parts to the advice and a separate recommendation is provided for addressing each:

- a) The issue of analyzing the causes of queries for non-existent TLDs to the root has been referred to the Office of the CTO (OCTO) Research team for further study and to determine the appropriate next steps with the suggested study.
- b) ICANN undertook a communications effort to publicize searchless behaviors currently implemented in some operating systems that could cause collision with names delegated as new gTLDs from the 2012 application round for the New gTLD Program. No further action with regard to this portion of the advice is warranted.

The Communications department and OCTO would need to work together to develop a plan. Costs associated with the technical portion of this plan would need to be developed by OCTO. Additional resources may be needed to facilitate this project.

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
				https://www.icann.org/resources/boar	
				d-material/resolutions-2014-11-17-	
				<u>en#1.c</u> ).	

		Board	Resolution 2017.06.24.19	)	
SAC065: SSAC	ICANN should help facilitate an	Our understanding of	Implementation is	Problem: DDoS attacks using DNS	Upon the creation of an Internet-wide
Advisory on DDoS	Internet-wide community effort to	SAC065 R-1 is that ICANN	recommended.	infrastructure can use open resolvers	community effort, ICANN anticipates
Attacks Leveraging	reduce the number of open	should help to facilitate an		and spoofed source addresses. These	providing measurement and outreach
DNS Infrastructure	resolvers and networks that allow	Internet-wide community		attacks would be harder to implement	support and allocating appropriate staffing
(Recommendation 1)	network spoofing.	effort to reduce the number		if the number of open resolvers was	and funding.
		of open resolvers and		reduced and if more ISPs implemented	
18 Feb 2014	This effort should involve	networks that allow		BCP38 (which would prevent customers	
	measurement efforts and outreach	network spoofing. This		of those ISPs to launch attacks using	
	and cooperation in relevant	initiative, which should		spoofed source addresses). This	
	technical fora involving network	involve measurement		resolution encourages ICANN to help	
	operators worldwide, but will not	efforts and outreach, should		reduce the number of open resolvers	
	have an operational component.	be supported by ICANN with		and increase the number of ISPs	
	ICANN should support this effort	appropriate staffing and		implementing BCP38.	
	with adequate staffing and funding.	funding to promote the			
	Such a program should cover at	recommendations made in		Board Resolution (17 Nov 2014): "In	
	least the following topics:	SAC065 Recommendations		the instances where ICANN	
		2-5.		recommends that the advice be	
	a. Collect, create, and organize			accepted, the Board directs ICANN's	
	material that will assist in the			President and CEO to have the	
	implementation of			feasibility and costs of implementing	
	recommendations 2-5 below.			the advice evaluated, and to provide an	
	This would include:			implementation plan with timelines	
	i. On an annual basis, publish			and high-level milestones for review by	
	and widely disseminate a			the Board, no later than 120 days from	
	report on the number and			the adoption of this resolution" (see	
	extent of open recursive			https://www.icann.org/resources/boar	
	DNS servers.			d-material/resolutions-2014-11-17-	
	ii. On an annual basis, publish			<u>en#1.c</u> ).	
	and widely disseminate a				
	report on the extent of				
	networks that allow				
	network spoofing.				
	iii. Create and maintain an				
	information portal with links				
	to educational material, to				
	be complemented by ICANN				
	staff and community				

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
	subject-matter expert				
	contributions.				
	iv. Inform how certain products				
	(e.g., CPE devices) can play a				
	significant role in DNS				
	amplification attacks.				
	v. Publish a regular (at least				
	annual) advisory/report on				
	the state-of-the art-				
	mechanisms to identify or				
	otherwise prevent				
	amplification and reflection				
	attacks, and ensure that				
	such an advisory/report is				
	widely disseminated in the				
	Internet community.				
	vi. Provide an annual report on				
	the work accomplished.				
	b. Coordinate with the Internet				
	community to popularize and				
	support recommendations 2-5				
	below. This coordination should				
	include exploration of whether				
	operational requirements				
	regarding open resolvers and				
	the prevention of network				
	spoofing can be incorporated				
	into regulatory compliance				
	frameworks and certification				
	regimes.				

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
SAC070: Advisory on	To close the knowledge gap	This recommendation is	Further Community	Problem: In an effort to identify DNS	The Office of the CTO will consult with the
the Use of Static TLD	between registries and popular PSL	understood to mean that	consultation is needed	names that are in public namespace	Mozilla Foundation and the larger ICANN
/ Suffix Lists	maintainers, ICANN and the Mozilla	ICANN, in concert with the	before the ICANN	but have been delegated by the	community as to the desirability of
(Recommendation 3)	Foundation should collaboratively	Mozilla Foundation, prepare	organization can make	registry to be administered by a	educational materials on the Mozilla PSL.
	create informational material that	educational materials on the	a recommendation on	different entity, such as gov.uk, co.za,	
28 May 2015	can be given to TLD registry	Mozilla PSL covering the	implementation.	etc. Being able to accurately track the	If desirable, then the Office of the CTO
	operators about the Mozilla PSL.	meaning of the resource		boundary of these spaces could be	would have to consider prioritization into
		and the impact of the		important for security, privacy and	its project load, cost, and other factors.
		resource.		usability. A Public Suffix List (PSL) is a	
				file that lists all (or some) of the known	
				public suffixes.	
				Board Resolution (25 June 2015): "In	
				instances where it is recommended	
				that the SSAC advice be accepted, the	
				Board directs the President and CEO, or	
				his designee(s), to evaluate the	
				feasibility and cost of implementing the	
				advice, and provide an implementation	
				plan with timelines and high-level	
				milestones for review by the Board, no	
				later than 120 days from the adoption	
				of this resolution [] The Board	
				encourages registries, registrars, the	
				Universal Acceptance Initiative, and	
				other entities such as the IETF, to	
				consider the recommendations in	
				SAC070 and work collaboratively to	
				improve the situation with the growing	
				use of Public Suffix Lists" (see	
				https://www.icann.org/resources/boar	
				d-material/resolutions-2015-06-25-	
				<u>en#1.c</u> ).	

SAC070: Advisory on the Use of Static TLD / Suffix Lists (Recommendation 4a)

28 May 2015

The Internet community should standardize the current approach to PSLs. Specifically: Recommendation 4a: ICANN, as part of its initiatives on universal acceptance, should encourage the software development community (including the open source community) to develop and distribute programming and operating system libraries implementing robust (i.e. authenticated, timely, secure, accountable) distribution mechanisms for PSLs. These libraries should be written across all common platforms and operating systems in a way as to ensure consistent and standard interpretation of a given PSL across all platforms.

The ICANN organization understands SAC070 R-4a to mean that ICANN should request that the UASG encourage the development of software resources enabling or enhancing the effective use of the Mozilla PSL. with attention towards software developers. As part of this initiative, ICANN should provide funding for this initiative and monitor whether the UASG's effort is successful. ICANN notes that more specific description of this audience (beyond merely including open source) would further the ability to evaluate the effectiveness of the promotion effort.

Implementation is addressed in <u>UASG007</u>, which recommends that TLDs are validated, where necessary, from authoritative tables.

Problem: Software that processes domain names, such web browsers, sometimes needs to know whether a domain name ends in a "public suffix", i.e., a domain typically open for registration, such as .com or .co.uk. "Public suffix lists" (PSLs), most notably the one maintained by Mozilla, attempt to list all such public suffix domains. Software uses this list for various purposes, such as quickly validating a TLD without requiring a DNS query, highlighting the public portion of a domain name in a browser's address bar, or determining if one domain is able to set a cookie for another (which is not allowed if the domains are unrelated, which is the case if they are peers under the same public suffix). There is no standard mechanism for software developers to process the Mozilla PSL, which SSAC asserts makes it less likely that the Mozilla PSL be used correctly and effectively.

Board Resolution (25 June 2015): "In instances where it is recommended that the SSAC advice be accepted, the Board directs the President and CEO, or his designee(s), to evaluate the feasibility and cost of implementing the advice, and provide an implementation plan with timelines and high-level milestones for review by the Board, no later than 120 days from the adoption of this resolution [...] The Board encourages registries, registrars, the

The Universal Acceptance Steering Group, in their comprehensive Introduction to Universal Acceptance (UASG007), already recommends that TLDs are validated, where necessary, from authoritative tables including

http://www.internic.net/domain/root.zon e and http://data.iana.org/TLD/tlds-alphaby-domain.txt. In this same section of the document the UASG also references SAC070.

The UASG does not recommend the use of the Mozilla PSL because the UASG does not have confidence that the Mozilla PSL is authoritative. Should it become authoritative the UASG will consider including the Mozilla PSL as a source for validation.

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
				Universal Acceptance Initiative, and	
				other entities such as the IETF, to	
				consider the recommendations in	
				SAC070 and work collaboratively to	
				improve the situation with the growing	
				use of Public Suffix Lists."	
				https://www.icann.org/resources/boar	
				d-material/resolutions-2015-06-25-	
				<u>en#1.c</u>	

SAC070: Advisory on	IANA should host a PSL containing	The ICANN organization	Resolution 2017.06.24.19	Problem: Software that processes	Community consultation should observe
			Further Community	•	,
the Use of Static TLD	information about the domains	understands	consultation is needed	domain names, such web browsers,	that the Mozilla PSL is already the most
/ Suffix Lists	within the registries with which	recommendation 5 of	before the ICANN	sometimes needs to know whether a	widely used PSL and it's not clear that
(Recommendation 5)	IANA has direct communication.	SAC070 as directing IANA	organization can make	domain name ends in a "public suffix",	there is benefit in creating a separate PSL
2014 2045	Such a PSL would be authoritative	staff to host an authoritative	a recommendation on	i.e., a domain typically open for	maintained by ICANN focused on TLDs.
28 May 2015	for those domains. Such a list should	PSL containing information	implementation.	registration, such as .com or .co.uk.	However, ICANN could still potentially
	include, at a minimum, all TLDs in	about the domains within		"Public suffix lists" (PSLs), most notably	assist in maintaining the Mozilla PSL, since
	the IANA root zone.	the registries with which		the one maintained by Mozilla, attempt	it is fundamentally a registry, which is an
		IANA has direct		to list all such public suffix domains.	area of expertise for ICANN. ICANN will
		communication. This list		Software uses this list for various	ask the web browser development
		should at least include all		purposes, such as quickly validating a	community if ICANN should assist Mozilla
		TLDs in the root zone. This		TLD without requiring a DNS query,	with or assume responsibility for
		recommendation appears to		highlighting the public portion of a	maintaining the Mozilla PSL. ICANN should
		suggest an action for IANA		domain name in a browser's address	abide by the consensus of this community
		that is usually the result of		bar, or determining if one domain is	if no assistance is desired.
		direction from the IETF, that		able to set a cookie for another (which	
		is, something like a protocol		is not allowed if the domains are	
		registry established for a		unrelated, which is the case if they are	
		specific purpose. This also		peers under the same public suffix).	
		seems to recommend the		ICANN is in a position to create a public	
		transfer of responsibility of		suffix list that could represent an	
		the Mozilla-run PSL to IANA,		authoritative list of TLDs and	
		which seems like an action		potentially subdomains of those TLDs	
		that is best requested		that are known to be public suffixes.	
		through Mozilla as the			
		current responsible party. If		Board Resolution (25 June 2015): "In	
		Mozilla wanted to transition		instances where it is recommended	
		the PSL maintenance,		that the SSAC advice be accepted, the	
		operating such a registry		Board directs the President and CEO, or	
		would represent a new role		his designee(s), to evaluate the	
		for IANA.		feasibility and cost of implementing the	
				advice, and provide an implementation	
				plan with timelines and high-level	
				milestones for review by the Board, no	
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later than 120 days from the adoption

of this resolution [...] The Board encourages registries, registrars, the

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
				Universal Acceptance Initiative, and	
				other entities such as the IETF, to	
				consider the recommendations in	
				SAC070 and work collaboratively to	
				improve the situation with the growing	
				use of Public Suffix Lists" (see	
				https://www.icann.org/resources/boar	
				d-material/resolutions-2015-06-25-	
				<u>en#1.c)</u> .	

			1 Kesolution 2017.00.24.13		
SAC070: Advisory on		organization	Implementation is	Problem: Software that processes	The UASG, in their comprehensive
the Use of Static TLD	understand		addressed in <u>UASG007</u> ,	domain names sometimes needs to	Introduction to Universal Acceptance
/ Suffix Lists	recommen	dation 6 of	which recommends	know whether a domain name ends in	( <u>UASG007</u> ), already recommends that
(Recommendation 6)		encouraging	that TLDs are validated,	a "public suffix", i.e., a domain typically	TLDs are validated, where necessary, from
	those parti	es working on	where necessary, from	open for registration, such as .com or	authoritative tables including
28 May 2015	universal a	cceptance such as	authoritative tables.	.co.uk. "Public suffix lists" (PSLs), most	http://www.internic.net/domain/root.zon
	the UASG t	o explicitly		notably the one maintained by Mozilla,	e and http://data.iana.org/TLD/tlds-alpha-
	include the	use of a PSL and		attempt to list all such public suffix	by-domain.txt. In this same section of the
	actions rela	ted to a PSL as		domains. To encourage the correct and	document the UASG also references
	part of the	r work.		effective use of PSLs, the SSAC has	SAC070.
				requested that ICANN encourage	
				parties working on universal	The UASG does not recommend the use of
				acceptance to explicitly include the use	the Mozilla PSL because the UASG does
				of a PSL as part of their work.	not have confidence that the Mozilla PSL is
					authoritative. Should it become
				Board Resolution (25 June 2015): "In	authoritative the UASG will consider
				instances where it is recommended	including the Mozilla PSL as a source for
				that the SSAC advice be accepted, the	validation.
				Board directs the President and CEO, or	
				his designee(s), to evaluate the	
				feasibility and cost of implementing the	
				advice, and provide an implementation	
				plan with timelines and high-level	
				milestones for review by the Board, no	
				later than 120 days from the adoption	
				of this resolution [] The Board	
				encourages registries, registrars, the	
				Universal Acceptance Initiative, and	
				other entities such as the IETF, to	
				consider the recommendations in	
				SAC070 and work collaboratively to	
				improve the situation with the growing	
				use of Public Suffix Lists" (see	
				https://www.icann.org/resources/boar	
				d-material/resolutions-2015-06-25-	
				<u>en#1.c</u> ).	

Advice Item	Description	ICANN Organization	ICANN Organization	Background on Issue	Proposed Solution
		Statement of	Implementation		
		Understanding	Recommendation		
SAC073: SSAC	In this Advisory the Security and	SAC073 duplicates the	Implementation of	Problem: SSAC would like a report	Office of the CTO Research and Public
Comments on Root	Stability Advisory Committee (SSAC)	advice sent by the SSAC in	proposed solution(s) is	indicating how its advice in SAC063	Technical Identifiers (PTI) are jointly
Zone Key Signing Key	addresses the following topics:	SAC063. There is one	recommended.	regarding the root KSK rollover project	responsible for planning and executing the
Rollover Plan	<ul> <li>Terminology and definitions</li> </ul>	distinct recommendation in		has been followed or, if not, why not.	root KSK rollover project and a report as
	relating to DNSSEC key	SAC073, which is as follows:			requested in SAC73. They have been
5 Oct 2015	rollover in the root zone;	To help the			tasked with writing the report requests in
	<ul> <li>Key management in the root</li> </ul>	broader community to have			SAC073 that describes how the
	zone;	a higher level of confidence			recommendations in SAC063 related to
	<ul> <li>Motivations for root zone</li> </ul>	in the anticipated success of			this project were addressed.
	KSK rollover;	this planned activity, and for			
	<ul> <li>Risks associated with root</li> </ul>	ICANN Board to discharge its			
	zone KSK rollover;	responsibilities with respect			
	<ul> <li>Available mechanisms for</li> </ul>	to recommendations from			
	root zone KSK rollover;	the SSAC, the SSAC would			
	<ul> <li>Quantifying the risk of failed</li> </ul>	like to see the final report			
	trust anchor update; and	respond directly to each of			
	<ul> <li>DNS response size</li> </ul>	the recommendations in			
	considerations.	SAC 063, and note in each			
		case how			
		the recommendation has			
		been appropriately			
		addressed in the proposed			
		design, or in those cases			
		where the recommendation			
		is not specifically addressed,			
		the rationale for this design			
		decision.			