Implementation Report on the Security, Stability and Resiliency of the DNS Review Team Recommendations

	The following tables show the current Key:				
status of implementation for the 28 SSR Review Team recommendations adopted by the ICANN Board, as aligned with		Complete	٧	or	
		In Progress	0	or	
ICANN	l's four manager	nent delivery areas	In Planning	◊	or
	cal Year 2014.	•			
Report	Recommendations	Implementation			
As of 1	8 March 2014				
	Topic	Summary of Implementation	activities		Milestones & Due Dates
	SSR Review Team Recommendations				
1	Affirmation of Purpose	ICANN should publish a single	, clear and consistent	t	V Public comment was taken on a draft statement
	– ICANN's Remit,	statement of its SSR remit and			between May-Sept 2012.
	Mission	mission.			V The draft statement was <u>revised on 4 Oct 2012</u> .
					V An updated version was published in the FY 14 SSR Framework, and this statement has been incorporated
					into other ICANN documentation.
2	Affirmation of Purpose	ICANN's definition and impler	mentation of its SSR		√ The updated role and remit statement will be
	– ICANN's Remit,	remit and limited technical m			reviewed with the next SSR RT in 2015. As this
	Mission	reviewed in order to maintain			recommendation has a recurring component, it will
		feedback from the Communit	у.		never be complete. ICANN continues to refine the scope of its SSR activities. The new structure of the
					Identifier System Security, Stability and Resiliency
					Team (ISSSR, previously the ICANN Security team)
					demonstrates that ICANN is continuing to review its
				_	SSR remit and scope.
3	Internationalization – Terminology and	Once ICANN issues a consensuits SSR remit and limited technical)†	o The Security team has worked across the organization to use consistent terminology and
	Relationships	should utilize consistent term			descriptions related to ICANN's SSR role and remit in
		descriptions of this statement			ICANN's materials. Because of the on-going nature of
					using consistent terminology and descriptions, this
					work will never be fully complete.
4	Internationalization – Terminology and	ICANN should document and nature of the SSR relationship	•		o The <u>Strategy Panel on ICANN's Role in the Internet</u> <u>Governance Ecosystem</u> also recommended mapping
	Relationships	ICANN Community in order to		al	ICANN's security and technical relationships. The new
	Trenderen simps	point for understanding the ir			Security, Stability and Resiliency of the DNS Review
		between organizations.			Team (SSR) is developing documentation related to
	1	IOANNI I II I	f.;; ccc		ICANN's SSR relationships.
5	Internationalization –	ICANN should use the definition			o The ISSSR team is working with ICANN's Global
	Terminology and Relationships	relationships to maintain effer arrangements and to demons	~		Stakeholder Engagement team to maintain and enhance effective working arrangements and
		relationships are utilized to ac			relationships. The ISSSR team has established
			- 0-4		relationships with law enforcement & the operational
					security community worldwide, and has provided past
					training in the Czech Republic, France, Netherlands,
					UK, US, among others. Reporting on ICANN's progress toward SSR-related key performance indicators and
					key success factors will complete this

key success factors will complete this

recommendation.

6	Multistakeholder Model Evolution	#6 - ICANN should publish a document clearly outlining the roles and responsibilities for both the SSAC and RSSAC in order to clearly delineate the activities of the two groups.	For tracking this has been divided into 6A [SSAC] and 6B [RSSAC]: v 6A - Roles and Responsibilities of SSAC are defined in SSAC's Operating Procedures. SSAC's Operational Procedures are located at on ICANN's website. v6B - Roles and Responsibilities for RSSAC are in development, following the end of public comment on proposed amendments to the ICANN Bylaws on the purpose of RSSAC.
7	Operations Excellence - Objectives	ICANN should build on its current SSR Framework by establishing a clear set of objectives and prioritizing its initiatives and activities in accordance with these objectives.	O Staff used the management delivery structure to align ICANN's objectives and initiatives with the annual SSR Framework, and support the development of the FY 14 budget, operating plan and next ICANN Strategic Plan. With the creation of the new ISSSR department, priorities are being realigned with the creation of the FY 15 budget, operating plan and the 2016-2020 Strategic Plan.
8	Operations Excellence - Objectives	ICANN should continue to refine its Strategic Plan objectives, particularly the goal of maintaining and driving DNS availability. Clear alignment of Framework & Strategic Plan.	o In line with the 2016-2020 Strategic Plan, ICANN's Strategic Plan objectives have been refined related to SSR. The 2016-2020 Strategic Plan will describe this in more detail [see the Strategic Planning webportal for information].
9	Operations Excellence – Standards and Compliance	ICANN should assess certification options with commonly accepted international standards (e.g. ITIL, ISO and SAS-70) for its operational responsibilities. ICANN should publish a clear roadmap towards certification.	v ICANN's implementation of DNSSEC in the root has achieved SysTrust certification. v ICANN recently hired a Chief Information and Innovation Officer. o A roadmap on certification options falls under the remit of the CIIO. This will be explored further in the remainder of FY 14 and into FY 15.
10	Operation Excellence – Standards and Compliance	ICANN should continue its efforts to step up contract compliance enforcement and provide adequate resources for this function. ICANN also should develop and implement a more structured process for monitoring compliance issues and investigations.	V This recommendation is being led by ICANN's Compliance team and through implementation of the recommendations from the WHOIS Review Team. Staff believes this recommendation is largely complete, while efforts to step up Compliance enforcement continue.
11	Operation Excellence – new generic TLDs and IDNs	ICANN should finalize and implement measures of success for new gTLDs and IDN fast track that expressly relate to its SSR-related program objectives, including measurements for the effectiveness of mechanisms to mitigate domain name abuse.	o Staff is exploring the full implications of this Recommendation. Security team expects this will involve community-staff collaboration for full implementation. o As this relates to the Competition, Consumer Trust and Consumer Choice Review and measurements for both new gTLDs and IDN ccTLDs delegated via the IDN ccTLD Fast Track, there will be engagement with stakeholders from across the community. The focus of this recommendation is mechanisms related to mitigating domain name abuse. Staff is supporting efforts in Advisory Committees and community on abuse metrics.
12	Multistakeholder Model Evolution	ICANN should work with the Community to identify SSR-related best practices and support the implementation of such practices through contracts, agreements and MOUs and other mechanisms.	o ICANN staff previously wrote to the SO-AC Chairs for input. Some Supporting Organizations (ccNSO) currently publish SSR-related information for their members. o The Security team has worked with the APWG Internet Policy Committee to publish recommendations for web application protection, has engaged in development of resources for security awareness (through SANS Securethehuman.org

			activities and with NCA Stop.Think.Connect).
			o The <u>revised new gTLD registry agreement</u> contains
			additional language on best practices.
13	Multistakeholder Model Evolution	ICANN should encourage all Supporting Organizations to develop and publish SSR-related best practices for their members.	o This recommendation will involve community-staff collaboration through the ASO, ccNSO and GNSO on appropriate best practices related to the unique identifiers in their respective roles.
			o The Internet Society's Deploy360 Best Current Operational Practices (BCOP) effort provides a good example for the collection and publication of SSR-
			related best practices. Some of the regional engagement strategies are also looking at SSR activities (see Latin American & Caribbean Regional Engagement Strategy).
14	Internationalization – Outreach and Engagement.	ICANN should ensure that its SSR-related outreach activities continuously evolve to remain relevant, timely and appropriate.	o Outreach activities have been expanded and will be reviewed annually. The Security team provides both a service function to ICANN's Global Stakeholder Engagement team as subject matter experts, and a community function in outreach and engagement in SSR matters. This is an on-going obligation.
15	Operations Excellence – Risk Management and Threat Mitigation	ICANN should act as a facilitator in the responsible disclosure and dissemination of DNS security threats and mitigation techniques.	V ICANN published a Coordinated Vulnerability <u>Disclosure document</u> . This recommendation has been completed but staff notes that because facilitation of responsible disclosure is an on-going obligation the work in this area is ongoing. √ Staff collaborates with operators and trusted security community entities on DNS security threats and mitigation techniques. This is related to Recommendation 28.
16	Internationalization – Outreach and Engagement.	ICANN should continue its outreach efforts to expand Community participation and input into the SSR Framework development process. ICANN also should establish a process for obtaining more systematic input from other ecosystem participants.	o Outreach activities and processes have been expanded and will be reviewed annually. The Security team's ongoing work with security communities such as APWG, MAAWG has resulted in participation by members of those communities in SSAC. Through engagement with ICLN and CCI, the Security team emphasizes the value of multistakeholder approaches to cybersecurity issues. The recommendation is considered complete in FY 14 but there is an on-going aspect to ensure outreach efforts continue. o This is related to Recommendations 4, 5 and 14. o The Security team supports a variety of capability building initiatives at the request of stakeholders, such as DNSSEC training, ccTLD attack and contingency response training, law enforcement training, outreach at Network Operator Group meetings such as CaribNOG, MENOG, among others.
17	Operations Excellence – Transparency	ICANN should establish a more structured internal process for showing how activities and initiatives relate to specific strategic goals, objectives and priorities in the SSR Framework.	o ICANN staff has used the internal process for the creation and publication of key success factors and key performance indicators to show how ICANN's SSR activities and initiatives relate to goals, objectives and priorities. Further information on this will be described in the 2016-2020 Strategic Plan and the FY 15 SSR Framework, which is to be published in April 2014.
18	Affirmation of Purpose – ICANN's Remit, Mission	ICANN should conduct an annual operational review of its progress in implementing the SSR Framework and include this assessment as a component of the following year's SSR Framework.	V Implemented as part of the FY 13 & FY 14 SSR Frameworks and will be repeated annually. The previous status of SSR RT implementation was published in Appendix C of the ATRT2 Report

19	Operations Excellence	ICANN should establish a process that allows the	o The publication of the annual SSR Framework
19	– Risk Management	Community to track the implementation of the SSR	includes a status update on the previous fiscal year
	and Threat Mitigation	Framework. Information should be provided with	Framework. MylCANN also contains project reporting,
	dia ilicat wildgation	enough clarity that the Community can track	and will be updated to better reflect SSR portfolios and
		ICANN's execution of its SSR responsibilities.	work.
20	Operations Excellence	ICANN should increase the transparency of	o The publication of ICANN Financial data through
	- Transparency	information about organization and budget related	MylCANN and its At Task project management system
	Transparency	to implementing the SSR Framework and performing	provide more transparency for the community on
		SSR-related functions.	ICANN's SSR-related work. As more information is
			made available in FY14 and into FY 15 this
			recommendation will be completed.
21	Operations Excellence	The publication of key success factors and key	o The publication of key success factors and key
	- Structure	performance indicators to ICANN's SSR portfolios	performance indicators to ICANN's SSR portfolios will
	Jei astar c	will complete the implementation of this	complete the implementation of this recommendation.
		recommendation.	complete the implementation of this recommendation.
22	Operation Excellence	ICANN should publish, monitor and update	This is related to Recommendation 21 (budget and)
22	– new generic TLDs	documentation on the organization and budget	organization decisions) as well as to the development
	and IDNs	resources needed to manage SSR issues in	of monitoring with the introduction of new gTLDs.
	מוועו וטואט		Information on ICANN budgeting and resourcing has
		conjunction with introduction of new gTLDs.	
			increased through Quarterly Financial reporting and through the publication of data through MylCANN.
22	Multistakohaldar	ICANIN must provide appropriate recourses for CCP	o Staff is conducting an inventory [23A] of activity in
23	Multistakeholder	ICANN must provide appropriate resources for SSR-	, , , , , , , , , , , , , , , , , , , ,
	Model Innovation	related Working Groups and Advisory Committees,	the existing SSR-related working groups and Advisory
		consistent with the demands placed upon them.	Committees (SSAC and RSSAC).
		ICANN also must ensure decisions reached by	o This will be followed by a description or
		Working Groups and Advisory Committees are	documentation of the budget process for SO/AC input
		reached in an objective manner that is free from	[23B].
		external or internal pressure.	o 23C will describe a standard operating process step
			to show that SO/AC/Working Group decisions are
24	Affirmation of Dumana	ICANIN movest along the define the about a males and	reached in an objective manner.
24	Affirmation of Purpose	ICANN must clearly define the charter, roles and	V Previously Implemented with <u>updated Security team</u>
	– ICANN's Remit,	responsibilities of the Chief Security Office Team.	page on 4 October 2012 and publication of the FY 13
	Mission		SSR Framework. The FY 15 SSR Framework will be
			published in April 2014 describing the new ISSSR
25	Onematicas Free House	ICANINI abasuld mut into place procedurismos for	team, roles and responsibilities.
25	Operations Excellence	ICANN should put into place mechanisms for	o This is tied to the delivery of a Risk Management
	– Risk Management	identifying both near and longer-term risks and	Framework under Recommendation 26. ICANN
	and Threat Mitigation	strategic factors in its Risk Management Framework.	published a DNS Risk Management Framework and
			has begun a DNS Risk Assessment. Further
]			information about the DNS Risk Assessment will be
			presented at the ICANN meeting in Singapore. ICANN
			has also published a Report on Mitigating Risk of
26	Operations Franklands	ICANIN should prioritize the time to accomplation of	Name Collisions.
26	Operations Excellence	ICANN should prioritize the timely completion of a	o ICANN has retained Westlake Governance to assist
	- Risk Management	Risk Management Framework.	with its DNS Risk Management Framework project.
	and Threat Mitigation		Westlake completed the DNS Risk Management
			Framework (presented at the ICANN Buenos Aires
			meeting) and has initiated the Risk Assessment phase.
			More information will be available on this work at the
	<u> </u>		ICANN Singapore meeting.
27	Operations Excellence	ICANN's Risk Management Framework should be	o The Risk Management Framework will be aligned
	– Risk Management	comprehensive within the scope of its SSR remit and	with ICANN's activities in support of its technical
	and Threat Mitigation	limited missions	mission and the community. This will be
	i		comprehensive in that scope, and will be
			1
			accomplished with the delivery of the Framework
			1

28	Operations Excellence	ICANN should continue to actively engage in threat	√ This recommendation supports a continuation of
	 Risk Management 	detection and mitigation, and participate in efforts	ICANN efforts, including root zone monitoring, threat
	and Threat Mitigation	to distribute threat and incident information.	detection and mitigation related to ICANN's DNS
			Operations and to DNS threats and incidents in
			general. While execution of these activities fulfills this
			recommendation, staff notes that the work in this
			area is ongoing.