New gTLD Program: Benchmarking of Registry Operations

February 2010

Executive Summary

An exercise to gather industry data on registry operations was undertaken as part of the ongoing implementation of the evaluation criteria and procedures for the New gTLD Program. This took the form of a study including analysis of public industry information and data collected through a survey of existing registry operators. The study was performed by KPMG on ICANN's behalf from June through September 2009, with the objective of identifying benchmarks based on registry financial and operational data, as a reference point for the review of new gTLD applications.

The survey was comprised of 7 gTLD and 6 ccTLD participants, representing 10 countries. While the survey was not designed to contain a statistically significant sample, it does represent a cross-section of operators in terms of size, outsourcing, business models, and time in operation.

Some of the findings include:

- Respondents overwhelmingly tended to favor open source database and server operating systems.
- The survey highlighted that the technical footprint is generally less difficult to correctly plan and project than estimating the size of the registry, which historically has proven to be more difficult for operators. This supports the current emphasis on continuity planning and registrant protection in the evaluation criteria.
- For the new gTLDs for which data was publicly available through the ICANN website, actual level
 of registrations has been significantly lower than original expectations. This indicates that the
 evaluation process should take into account the degree of thought and preparation evidenced in
 an application, and the flexibility of the applicant to increase or decrease deployment of
 resources to manage differences from projected targets, more so than the likelihood of
 achieving a planned size.
- The growth curve for all TLDs introduced since 2001 has varied significantly across both pace of growth and absolute growth. While recognizing that there is no typical growth pattern, there seems to be a strong correlation between their relative first month registration volumes and the ultimate peak volume for the most recently observed peak. This could indicate that the evaluation process should take into account the applicant's mitigation of up-front risk and the flexibility to meet cash needs in the start-up phases of operation.
- The majority of respondents indicated that they had greater levels of reserve funds today than upon commencement of operations, when 90% responded they had less than one year of capital expenses and operating costs held in reserve.
- Although there are a variety of viable operating models, large registries were able to convert
 their larger scale into a significant cost advantage over smaller registries. This was evident
 across multiple cost dimensions. As a result of the sharp contrast in cost effectiveness, survey

respondents appeared to cluster around two distinct operating models: large registries that tended to run their operations in-house, and small registries that outsourced significant portions of their operations. Many of the benchmarked data points collected showed significant contrast along these two operating models.

This study will be provided as a reference for the independent technical and financial evaluators as part of the onboarding process. The benchmark data is to be used as a common reference point rather than a scoring metric. For example, an application that deviated widely from the industry norm could indicate the need for additional inquiry to determine the soundness of the applicant's proposed approach; it would not necessarily result in failure of the application.

As an additional benefit, the information contained in this study is likely to be helpful to potential applicants in noting common trends and issues.

Background and Objectives

A key goal for the evaluation process is to establish criteria that are as objective and measurable as possible, in line with the GNSO's policy advice ("There must be a clear and pre-published application process using objective and measurable criteria."). In developing a robust evaluation process, ICANN continues to work through the challenge of creating criteria that are measurable, meaningful (i.e., indicative of the applicant's capabilities and not easily manipulated), and also flexible enough to facilitate a diverse applicant pool.

Particularly in the financial area, the criteria have required heavy reliance on the judgment of a "person with registry experience," tending to create a more subjective evaluation process offering less predictability for applicants and for the community in general.

This study was undertaken to contribute to the ongoing development of criteria and procedures for the evaluation process. The primary objective of the exercise was to identify benchmarks based on registry financial and operational data, as a common reference point relevant to the review of new gTLD applications.

Methodology

The study took place from June to September of 2009 and consisted of the following activities:

- Review of the existing Evaluation Criteria as included in the draft Applicant Guidebook, and
 identification of financial and operational metrics to be benchmarked through the survey. This
 included demographic, financial, technical, and operational data.
- Design of a questionnaire to address the metrics identified.
- Contact with a sample of existing gTLD and ccTLD operators to seek their input to development of the questionnaire and incorporation of this feedback.

- Execution of the survey among the existing gTLD and ccTLD registries willing to participate, and following up as appropriate.
- Analysis of previous gTLD applications and other publicly available data on registry operations.
- Summary and presentation of the findings. Areas covered in the report are:
 - Survey demographics
 - o Registry growth
 - Staffing models and costs
 - Outsourcing models and operating costs
 - o Technical and network architecture
 - o Reserves
 - Capital expenditures
 - o Continuity planning

Participation in the study was voluntary. All gTLD registry operators were approached regarding participation in the study, of which 7 participated. A random sample of 20 ccTLD registry operators was also approached regarding participation, of which 6 participated. A total of 13 registry operators provided data for the study.

The study was conducted entirely by KPMG as a third party on behalf of ICANN. KPMG presented data only on an aggregated basis, and individual registry data was not accessible by other participants, ICANN staff, or ICANN Board directors.

Demographics and sample size

It should be noted that the group of participants in this study represents a very small sample size (38% of all gTLDs, 3% of all ccTLDs, and approximately 5% of all TLDs). The gTLD space is unique in that the total population of 16 gTLDs is quite small overall. ccTLD registry data was incorporated to round out the sample and create a broader context for registry operations. The sample represents a cross-section of operators in terms of size, outsourcing, business models, and time in operation.

However, the study was not designed as a formal exercise founded on statistical reliability tests, and caution is due when extrapolating or drawing conclusions based on the data reported here.

Applicability

This study will be provided as a reference for the independent technical and financial evaluators as part of the onboarding process. The benchmark data is to be used as a common reference point rather than a scoring metric. There are no adjustments to scoring being made on the basis of this data.

One of the goals of the New gTLD Program is to encourage innovation and diversity in the gTLD space. Thus, there is no presumption that an application that does not conform to the "typical" model in a particular area would be rejected on that basis. Rather, this divergence would highlight a need for deeper inquiry into the rationale and circumstances specific to that application. The key task for ICANN is to ensure the approach proposed in the application does not harm the security or stability of the DNS,

and that the applicant demonstrates technical, operational, and financial capacity to operate the TLD. See ICANN's discussion of principles for evaluation criteria at http://icann.org/en/topics/newgtlds/draft-evaluation-criteria-clean-04oct09-en.pdf.

As an additional benefit, the information contained in this study is likely to be helpful to potential applicants in noting common trends and issues.

Participants

Participants were offered the option of maintaining their confidentiality or including their name and company description in the report. The following participants have chosen to disclose their involvement:

- Canadian Internet Registration Authority (CIRA) / Autorité canadienne pour les enregistrements Internet (ACEI)
- CZ.NIC, z.s.p.o



CZ.NIC, interest association of legal entities, was founded by leading providers of Internet services in 1998. The association currently has 66 members. The key activities of the association include operation of the domain name registry for the .CZ domain and the 0.2.4.e164.arpa (ENUM) domain, operation of the CZ top-level domain and public education in the area of domain names. The association is now intensively working on development of the ENUM system, extension and improvements of the domain administration system and support of new technologies and projects beneficial to the Internet infrastructure in the Czech Republic. CZ.NIC is a member of the EURid association, managing the European domain - EU, and other similarly oriented organizations (CENTR, ccNSO etc.).

Fundació puntCAT

Fundació puntCAT is a non for profit that has as foundational aim the development and promotion of information society in Catalan. It is the entity that promoted the bid for a top level domain for Catalan language and culture, and manages the Registry for that domain. .cat is the first and only domain for a language, and currently there are over 40.000 .cat domain names.

- Internet NZ
- **Internet Users Society Niue**
- Neustar



Neustar, Inc. (NYSE: NSR) provides market-leading and innovative services that enable trusted communication across networks, applications, and enterprises around the world. Neustar Domain Name Registry Services operates the global registry for .BIZ and .US; in addition, it provides back-end registry services for .CO, .TEL and .TRAVEL,

gateway services to country code top level domains, internationalized domain names (IDNs), and full registry services to new top level domains. Neustar's registry is connected to more than 250 domain name registrars worldwide. For more information, visit www.neustar.biz and www.neustarregistry.biz.

• Public Interest Registry

As one of the original domains, .ORG has been shaped by the global community as the place to express ideas, knowledge, and cause on the Internet. Whether individual with an idea to share, a small club organizing and motivating your members, or a large company conducting educational and marketing campaigns - the .ORG domain name communicates trust, credibility, and community interest.

Since January of 2003, the Public Interest Registry assumed responsibility for operating .ORG and maintaining the authoritative database of all .ORG domain names.

SIDN



SIDN. More than the company behind .nl

As the registry for .nl, the Netherlands' top level domain, SIDN is responsible for the registration and performance of more than 3.7 million .nl domain names and thus for the traceability of millions of websites and mailboxes. With a highly trained team of more than fifty people and global cutting-edge technology, we play a vital role in the Netherlands' e-business community. We are also closely involved in the development of influential new technologies, such as ENUM, which brings together the worlds of telephony and the internet.

ICANN gratefully acknowledges all study participants for their contributions to this report.

Benchmarking of Registry Operations



February 2010



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- Registry Growth
- Staffing Models and Costs
- Operating Costs
- Technical and Network Architecture
- Reserves
- Capital Expenditure
- Continuity Planning
- Other

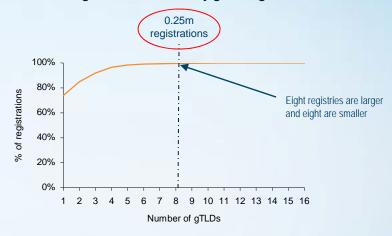


gTLD registry size and population

Median and average size of gTLDs in the market, in number of registrations



% of total registrations covered by gTLD registries in order of size ranking



Source: ICANN website

For purposes of the survey, "large" registries are defined as those that fall above the median, and "small" registries as those that fall below the median.



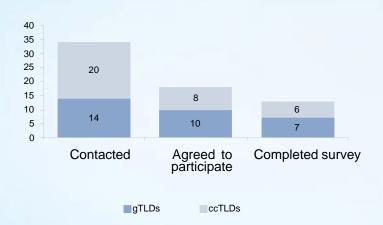
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Survey Demographics

Recruitment of Survey Respondents



Source: Survey respondents

DATA COLLECTION PROCESS

June 2009

• 14 gTLD and 20 randomly selected ccTLD operators were contacted with respect to their willingness to participate

July 2009

- · Initial draft of surveys were designed
- Surveys distributed to participants for them to comment on the questionnaire

August 2009

- Feedback on survey design was collected from participants and incorporated
- Surveys sent out for completion

September 2009

Survey responses collected from participants
 Data analyzed, interpreted and followed-up where necessary

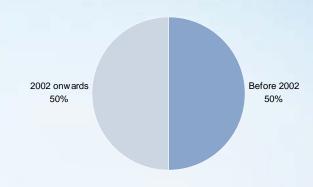


Survey Demographics (2)

Organizational type which best describes the entity, as percentage of respondents

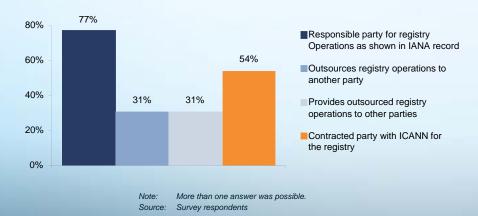


First year of registry operations, as percentage of respondents



Source: Survey respondents

Type of entity in terms of registry operations, as percentage of respondents

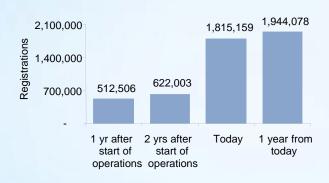


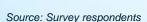


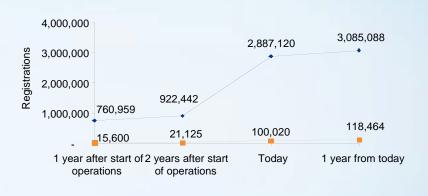
Survey Demographics (3)

Average size of registry, in number of registrations

Average size of registry, segmented by size of registry







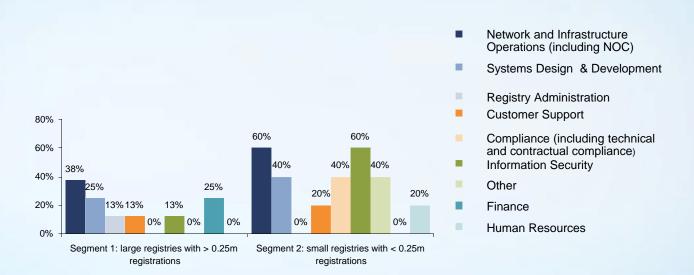
Segment 1: large registries with > 0.25m registrations

Segment 2: small registries with < 0.25m registrations</p>



Survey Demographics (4)

Percentage of respondents that outsourced the following activities, segmented by size of registry

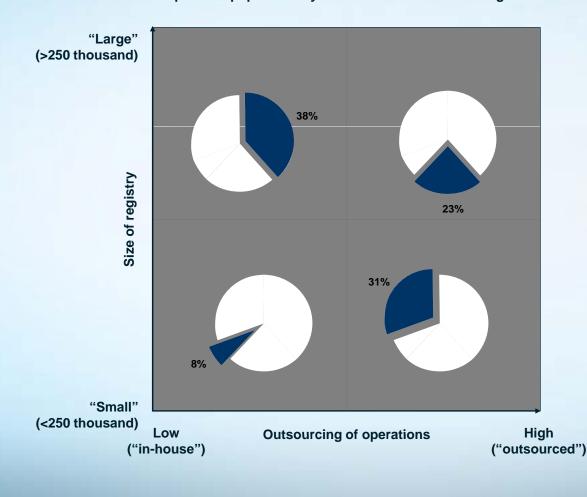


Note: More than one answer was possible. Source: Survey respondents



Survey Demographics (5)

Respondent population by size and level of outsourcing



Note: Respondents were categorized as "outsourced" if they indicated that they outsourced one or more of network and infrastructure, systems design and development, and/or registry administration.



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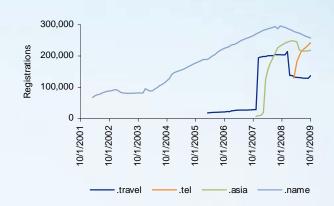


New gTLD Registry Growth

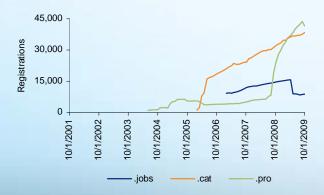
Volume of registrations: .mobi, .biz, .info



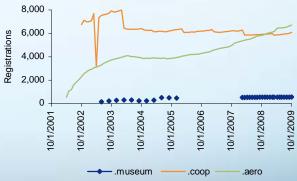
Volume of registrations: .travel, .tel, .asia, .name



Volume of registrations: .jobs, .cat, .pro



Volume of registrations: .museum, .coop, .aero



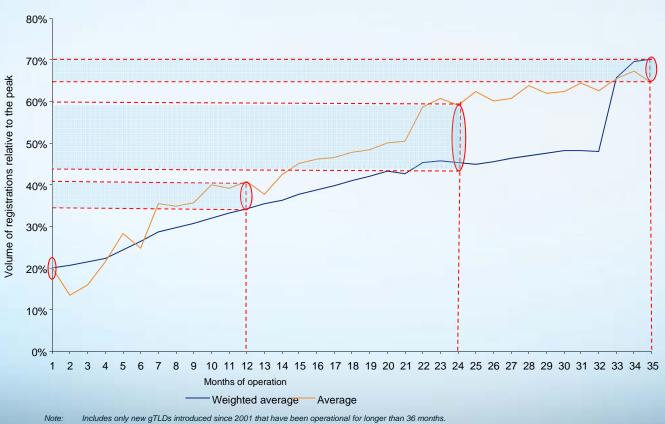
lote: Only includes gTLDs that commenced operations from 2001.

Source: ICANN website



Registry Growth (2)

Average volume of registrations for new gTLDs (introduced since 2001, over the first 36 months) relative to their most recently observed peak registration level





Registry Growth (3)

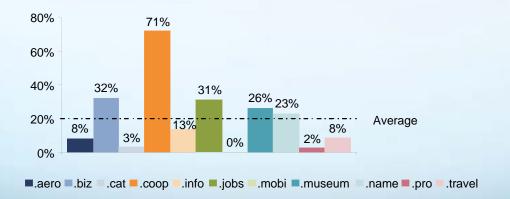
Correlation between first month and most recently observed peak registrations for gTLDs operating for more than 36 months that commenced operation after May 2001

	.aero	.biz	.cat	.соор	.info	.jobs	.mobi	museum	.name	.pro	.travel
Month 1	545	669,905	1,220	5,712	736,863	4,883	1,585	145	67,609	1,072	17,932
Most recently observed peak	6,707	2,086,460	38,410	7,992	5,311,015	15,741	964,115	554	296,428	43,719	214,719

$R^2 = 0.8$

Source: Registry data via ICANN website

Volume of month 1 registrations relative to most recently observed peak



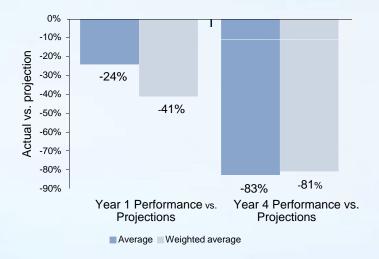
Source: ICANN website



Registry Growth (4)

Actual volumes vs. projected volumes – per publicly available data

Registration volumes of new gTLDs introduced since 2001 relative to their projections (as stated in their applications, where publicly available)



Note: As per source below, only includes 7 gTLDs where the projected volume of registrations was publicly available

Source: ICANN website, publicly available original gTLD applications, evaluator reports, Q&A notes.



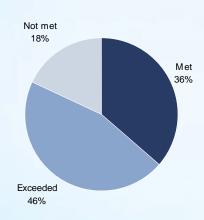
Registry Growth (5)

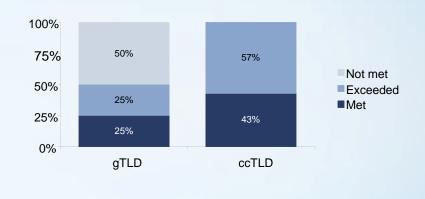
Actual volumes vs. projected volumes – per survey respondents

Performance against initial registry size and growth assumptions, as percentage of respondents

Performance against initial registry size and growth assumptions, segmented by type of TLD

Source: Survey respondents







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Staffing models

Average total headcount of registry, on a Full-Time Equivalent or "FTE" basis



Average total headcount of registry, segmented by level of outsourcing, on an "FTE" basis

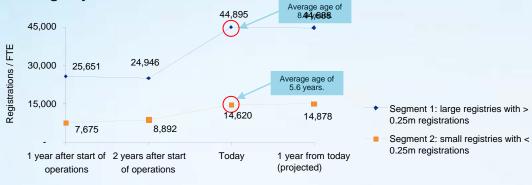


Source: Survey respondents



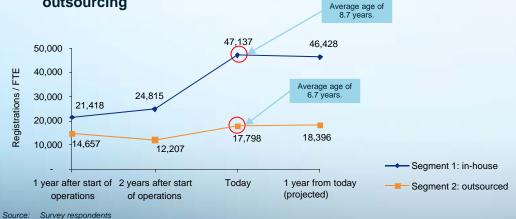
Staffing models (2)

Average number of registrations per FTE, segmented by size of registry



Source: Survey respondents

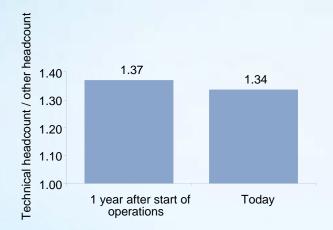
Average number of registrations per FTE, segmented by level of outsourcing



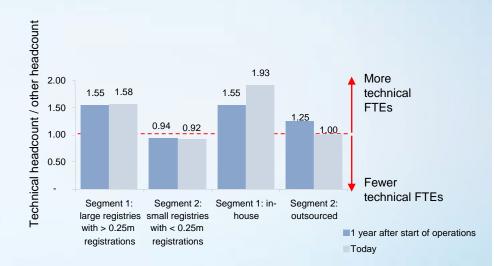


Staffing Models (3)

Average ratio of technical headcount relative to all other headcount



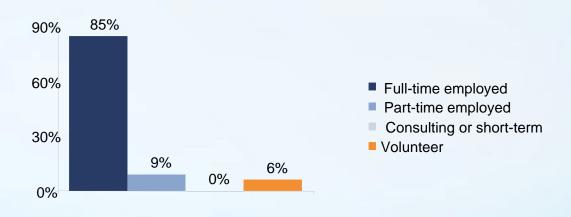
Average ratio of technical headcount relative to all other headcount, segmented by size of registry and by level of outsourcing





Staffing Models (4)

Type of staffing arrangement as of today, as average percentage of total FTEs



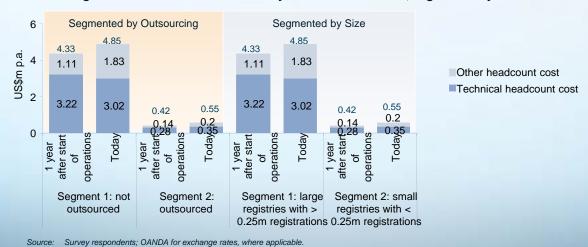


Staffing Models (5) – FTE costs

Estimated average annual cost of functions directly related to headcount



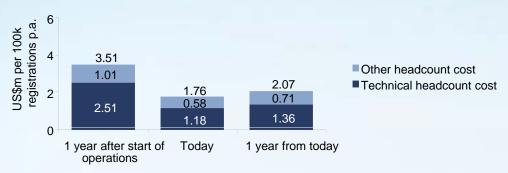
Estimated average annual cost of functions directly related to headcount, segmented by level of outsourcing and size of registry





Staffing Models (6) – FTE costs

Estimated average annual cost per 100k registrations of functions directly related to headcount



Source: Survey respondents; OANDA for exchange rates, where applicable.

Estimated average annual cost per 100k registrations of functions directly related to headcount, segmented by level of outsourcing and size of registry





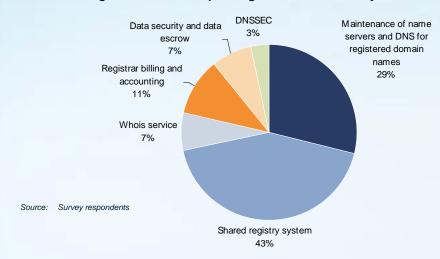
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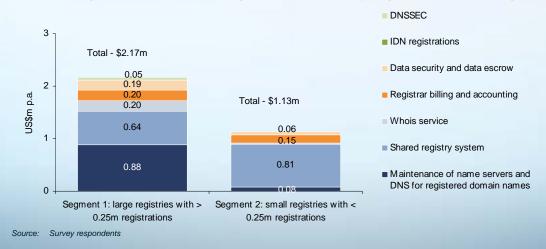


Operating Costs

Estimated average annual cost of operating activities as of today



Estimated average annual cost of operating activities as of today, segmented by size of registry





Operating Costs (2)

Estimated average annual cost per 100k registrations of operating activities as of today, segmented by size of registry



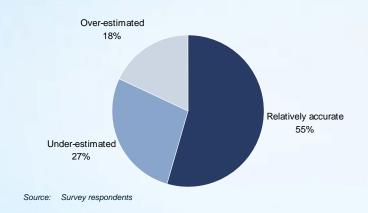
Note: Other Segment 1 categories are each less than \$10k per 100k registrations. Source: Survey respondents



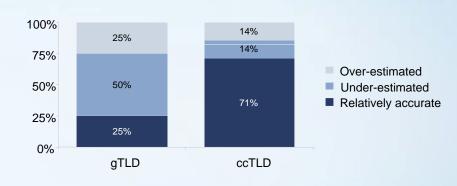
Operating Costs (3)

Actual costs vs. projected costs

Performance against initial cost projections for running the registry, as percentage of respondents



Performance against initial cost projections for running the registry, segmented by type of TLD





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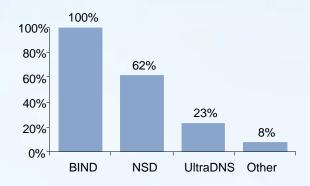
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Technical and Network Architecture

DNS Server Software

DNS server software used, as percentage of respondents



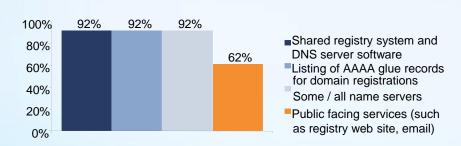
Note: More than one answer was possible. Source: Survey respondents



Technical and Network Architecture (2)

IPv6 support within key DNS infrastructure

Elements of DNS infrastructure that support IPv6, as percentage of respondents



Note: More than one answer was possible. Source: Survey respondents

If the DNS infrastructure (including server software and O/S) does not support IPv6, does the registry intend to support it within the next two years? $_{No}$

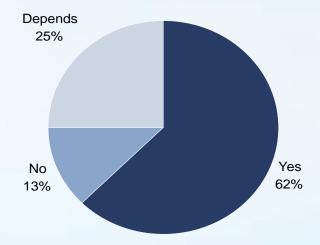


Note: Applicable to one respondent only.
Source: Survey respondents



Technical and Network Architecture (3) DNSSEC

If the registry does not support DNSSEC, does it intend to support it within the next two years?



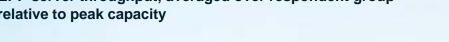
Note: Applicable to majority of respondents.

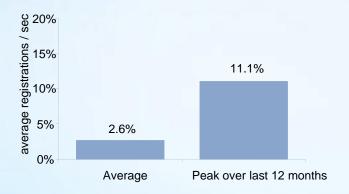


Technical and Network Architecture (4)

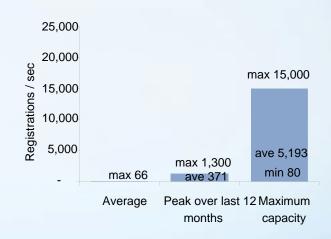
EPP server throughput

EPP server throughput, averaged over respondent group relative to peak capacity





Range in EPP server throughput, as provided by respondent group



Source: Survey respondents Source: Survey respondents



Technical and Network Architecture (5)

System Components

Average number of system components in use



Source: Survey respondents

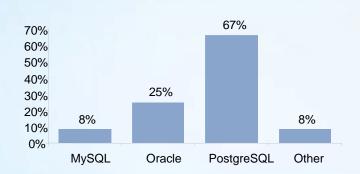
Average number of system components in use per 100k registrations, segmented by size of registry



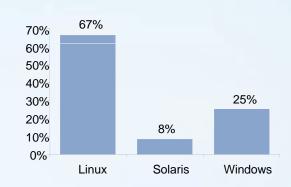
Technical and Network Architecture (6)

Database and Server Operating Systems

Database used, as percentage of respondents



Server operating system used, as a percentage of respondents

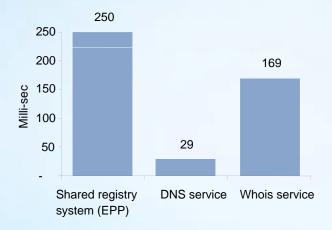


Note: More than one answer was possible; "Other" category is comprised of Sybase, and Red Hat. Source: Survey respondents

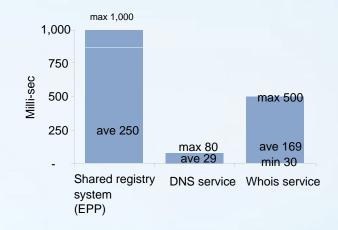
Technical and Network Architecture (7)

Response times

Average response time for the following registry services



Range in response time for the following registry services, as provided by respondent group



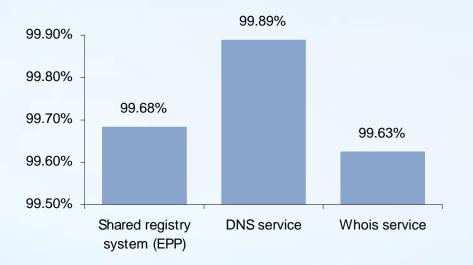
Source: Survey respondents



Technical and Network Architecture (8)

Uptime

Average percentage uptime for the past three months for the following registry services





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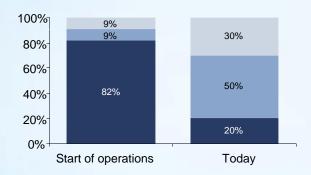
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- Capital Expenditure
- Continuity Planning

- Other

ICANN

Reserves

Level of cash reserve in place, relative to total annual capital expenditure and operating costs, as percentage of respondents



Percentage of survey respondents with:

- Greater than 3 years reserve
- Between 1 and 3 years reserve
- Less than 1 year reserve



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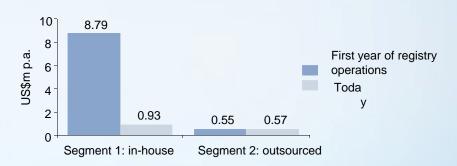


Capital Expenditure

Average annual level of capital expenditure, segmented by size of registry

Average annual level of capital expenditure, segmented by level of outsourcing





Source: Survey respondents Source: Survey respondents



Capital Expenditure (2)

Average annual level of capital expenditure per 100k registrations, segmented by level of outsourcing



Average annual level of capital expenditure per 100k registrations, segmented by size of registry





Contents

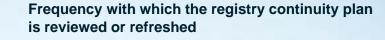
- Registry Population
- Survey Demographics
- Registry Growth
- Staffing Models and Costs
- Operating Costs
- Technical and Network Architecture
- Reserves
- Capital Expenditure
- Continuity Planning
 - An examination of survey participants' continuity planning and failover practices

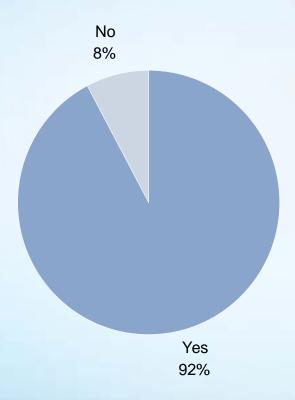
- Other

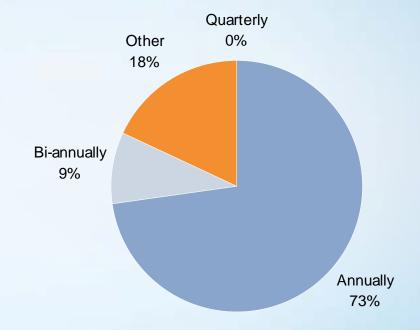


Continuity Planning and Failover Testing

Is a detailed registry continuity plan in place?



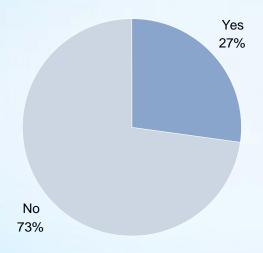




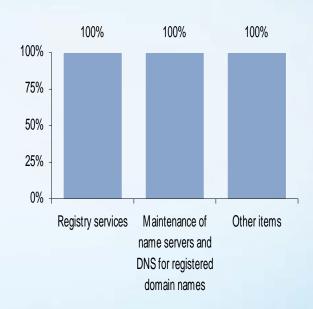
Source: Survey respondents

Continuity Planning and Failover Testing (2) (2)

Has a transition services provider been identified and contractually engaged?



Elements that are part of the arrangement with transition service providers, where they have been contracted, as percentage of respondents



Source: Survey respondents

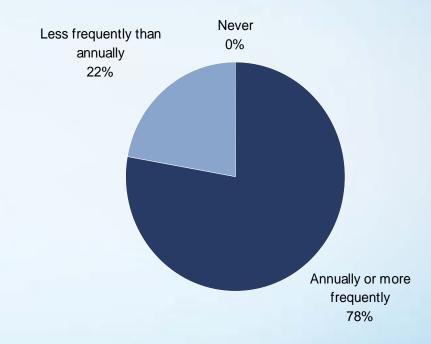
Note: Applicable to three respondents.

Continuity Planning and Failover Testing (3) (3)

Is a failover testing plan in place?

No 17% Yes 83%

Frequency with which the failover testing plan is regularly tested



Source: Survey respondents



Contents

- Registry Population
- Survey Demographics
- Registry Growth
- Staffing Models and Costs
- Operating Costs
- Technical and Network Architecture
- Reserves
- Capital Expenditure
- Continuity Planning
- Other
 - Other miscellaneous survey data collected from respondents



Renewals

Average daily number of renewals received

3,000 2,281 1,697 Renewals / day 2,000 821 1,000 436 1 yr after 2 yrs after Today 1 year from start of start of today (projected) operations operations

Average daily number of renewals received per 100k registrations

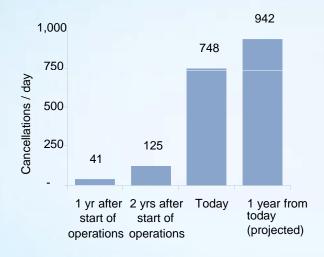




Deletions

Average daily number of cancellations / deletions received

Average daily number of cancellations / deletions received per 100k registrations



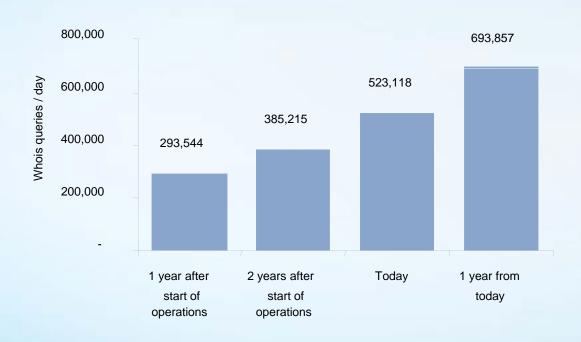


Source: Survey respondents



Whois queries

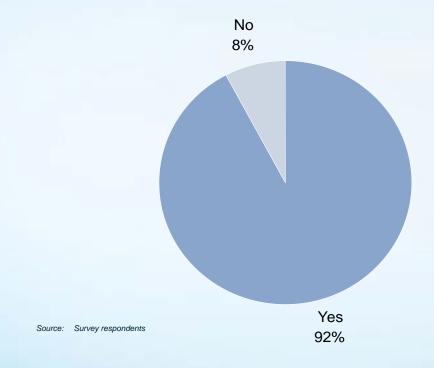
Average daily number of Whois queries received





Financial statements

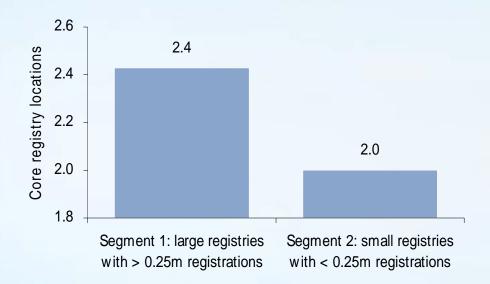
Are the registry's financial statements currently audited?





Core registry locations

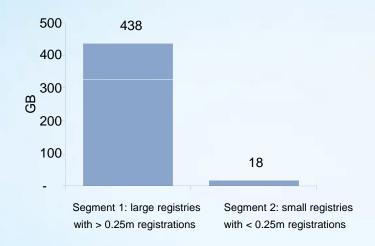
Average number of core registry locations, segmented by size of registry (includes primary and secondary sites, excludes name servers)



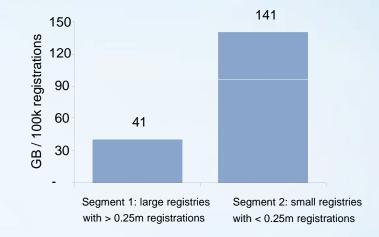


Size of core registry database

Average size of core registry databases, segmented by size of registry



Average size of core registry databases per 100k registrations, segmented by size of registry

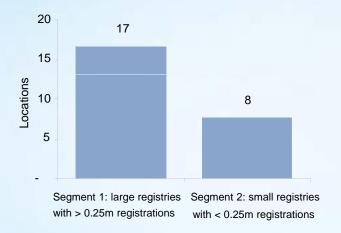


Source: Survey respondents



DNS server locations

Average number of separate locations for DNS servers, segmented by size of registry



Range in number of separate locations for DNS servers, segmented by size of registry



Source: Survey respondents

When opening the excel file please choose "Enable Macros" when prompted, in order to use the check boxes. If you have any questions please do not hecitate to contact Barak Ravid (tel: +1 415 963 5546, barakravid@kpmg.com) or Alexander Nouel (tel: +1 213 955 8309, anouel@kpmg.com). Organization Name Primary Contact Name Primary Contact Title Primary Contact Title Primary Contact Title Primary Contact Family Address Would you like to be acknowledged as a survey participant? (yes/mo) If yes, would you like to have your corporate logo incorporated into the published report? (yes/mo) If yes, wild you be separately sending a brief paragraph to include as a description of your services? (yes/mo) 1.A. What is the name of your entity? 2.A. Please check the organizational type which best describes your entity: Pott Pott (please provide any additional narrative you feel is appropriate to clarify your legal and organizational structure: 2.B. Please check the responses that match your activity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the responses that match your settivity (check as many as apply): I am the resp		REGISTRY O	PERATIONS - P	EER GROUP SUR	RVEY		
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Many thanks Contactation Name Privacy Contact Title Privacy Contact Titl		contact Barak Ravid (tel: +1 4	115 963 5548, barakra	avid@kpmg.com) or A	lexander Nouel (tel: +1 21	3 955 8309,	
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What is your total headcount number (on Full Tin	e Equivalent "FTE" basis) ?		
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As of 1 year after commencement of operations :		FTE's	
As of 2 years after commencement of operations:		FTE's	
Best-estimate as to 1 year from today :		FTE's	
Please provide any narrative you feel appropriate	to clarify / explain any parts of your o	organization, which you either specifically include	led or excluded in the above
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ease provide headcount number (on Full Time Eq e: Please consider that the total broken down in the			
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Customer Support		FTE's	
Compliance (including technical, and contract com	pliance):	FTE's	
Information Security : Other :		FTE's FTE's	
SUB-TOTAL TECHNICAL	0	FTE's	
Other Headcount			
Marketing (including PR & Communication)		FTE's	
Finance: Administrative:		FTE's FTE's	
HR:		FTE's	
General : Sales (if applicable)		FTE'S FTE'S	
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ase check the areas, if any, which are outsource	d :		
nical :		Other:	
etwork and Infrastructure Operations (including NOC)	Compliance (including technical, and contract compliance)	☐ Marketing (including PR & Communication)	☐ General
stems Design and Development	☐ Information Security	☐ Finance	Sales (if applicable)
egistry Administration	☐ Other	☐ Administrative	Other
ustomer Support		☐ HR	_
or the total headcount number listed in Question loyed, 3) Consultants/Other Short-term roles, 4) V		de an estimate as to % of FTE's who are 1) Full-	time Employed, 2) Part-time
% that are full-time employed :	%		
% that are part-time employed : % that are consulting/short-term :	<u>%</u> %		
% that are volunteer :	%		
% other :	<u>%</u>		
Total*:	0%		* Total should add to 100%
			rotal stitutu add to 100%

Currency Used					
		1 year after			
	Today	commencem ent of	1 year from today		
Technical Headcount		operations			
Network and Infrastructure Operations (including NOC) : Systems Design and Development :					
Registry Administration :					
Customer Support :					
Compliance (including technical, and contract compliance Information Security:	e):				
Other : SUB-TOTAL TECHNICAL	0	0	0		
Other Headcount					
Marketing (including PR & Communication) :					
Finance : Administrative :					
HR:					
General : Sales (if applicable)					
Other:					
SUB-TOTAL OTHER	0	0	0		
TOTAL	0	0	0		
each of the functions listed in Question 7, please pr	rovide your best c	urrent estimate as to w	hether you expect FTE's to	o increase, stay the same, or decrease or	ver
12 months :					
	Increase	Same	Decrease		
Technical Headcount					
Network and Infrastructure Operations (including NOC) :			무		
Systems Design and Development : Registry Administration :					
Customer Support :	H				
Compliance (including technical, and contract compliance					
Information Security:	e):				
Other:	ä				
SUB-TOTAL TECHNICAL	ä		ä		
Other Headcount					
Marketing (including PR & Communication):					
Finance:					
Administrative :					
HR:					
General:					
Sales (if applicable) :					
Other:					
SUB-TOTAL OTHER					
TOTAL					
nical					
th DNS Server Software do you use ? (i.e. software	which resolves a	nd nublishes DNS nam	os and ostablishos namo	corvers etc.) Please include the version	
i.e. BIND 9.x instead of just BIND) :		•	es and establishes hame :	servers etc., r lease include the version	
e.g. BIND, ANS, NSD, tinydns, PowerDNS, MS DNS	5, Simple DNS Plus	, Other			
se provide a brief narrative as to which software yo	ou use for managin	g vour registry platfor	n (used for zone file gene	eration and management)	
interest include extent and use of the following	ou ase for managing	ig your region y planton	ii (useu ioi zone ine gene	and management)	
Open source					
n-house development Synchrone or a-synchrone					1
Synchrone or a-synchrone Type of communication : EPP, XML, e-mail, web-interfa					
Synchrone or a-synchrone Type of communication : EPP, XML, e-mail, web-interfa One system for multiple TLD's or several instances for i	multiple TLD's	one billing address)			
Synchrone or a-synchrone Type of communication : EPP, XML, e-mail, web-interfa	multiple TLD's	one billing address)			
Synchrone or a-synchrone Type of communication : EPP, XML, e-mail, web-interfa One system for multiple TLD's or several instances for i	multiple TLD's	one billing address)			

C. Reserves			
15.A. Please provide a brief narrative to describe your policy objectives you typically meet those objectives :	for maintaining adequ	uate financial reserves (i.e., which measures do you consider) and whether	52, 54
15.B. When expressed relative to your total annual capital expenditure a	nd operating costs, d	lo you <u>currently</u> have cash reserve / funding in place equivalent to :	52, 54
Less than 1 years of capital expenditure and operating costs			
☐ Between 1-3 years of capital expenditure and operating costs			
☐ Greater than 3 years of capital expenditure and operating costs			
16. What cash reserve/funding did you have in place upon commenceme	ent of registry operati	ions ?	52, 54
Less than 1 years of capital expenditure and operating costs			
☐ Between 1-3 years of capital expenditure and operating costs			
☐ Greater than 3 years of capital expenditure and operating costs			
17. Please provide an estimate of the annual costs to operate the following	ing as of today (pleas	e state which currency you are using) :	54
Currency Used			
Maintenance of Name Servers and DNS for registered domain names :			
Shared Registry system :			
Whois Service :			
Registrar billing and accounting :			
Data security and data escrow :			
IDN Registrations (if applicable):			
DNSSEC (if applicable) :			
D. Network Architecture			
18. Please check whether the following elements of your DNS Infrastruc	ture support IPv6 and	provide a brief narrative, if appropriate, to clarify:	30,37
3	Supports IPv6 ?	Narrative :	
Shared Registry system and DNS Server Software (Bind Version 9.x etc support publication of IPv6 address records (AAAA):			
Listing of AAAA glue records for domain registrations supported :			
Some/ All name servers are accessible over IPv6 :			
Public facing services (such as registry web site, email) are accessible over IPv6 :			
19. If your DNS infrastructure (including server software and O/S) does in Please provide a brief narrative, if appropriate, to clarify:	not support IPv6, do y	ou intend to support it within the next 2 years ?	30,37
□ Yes □ No			
			İ

	support DNSSEC, do you intend to suppor brief narrative, if appropriate, to clarify :	t it within the next 2 years ?	
☐ Yes	□ No		
21. Please descri are covered in Qu		ncluding primary and secondary sites : (this question refers to the core registry locations only. Name Servers	30
	,		
22. What is your	EPP server throughput in terms of maximu	um domain name registrations/second ?	30
Average	:		
Peak ov	er the last 12 months :		
Maximu	m capacity :		
23. Please provid	e the number of the following system con	nponents in use, both as of today, and 1 year after the date of commencement of operations :	30
		1 year after	
		Today commencem ent of operations	
	Servers :		
	Routers :		
	Switches : Databases :		
E. Database Capa	abilities		
	se and Server OS do you use ?		31
	se and betver bo do you use :		31
Oracle/Solaris			
■ MySQL/Linux	Other (please provide detail) :		
25. Plages provis	e the size of your core registry databases	(in CP)	31
23. I lease provid	e the size of your core registry databases	(11 65).	31
F. Geographic Di	versity		
26. How many se	parate locations do you have for your DNS	S servers ?	32
		·	
G. Continuity			
	e a detailed registry continuity plan in plac	;e ?	42,43,44, 45
27.A. Do you hav	e a detailed registry continuity plan in plac	ce ?	42,43,44, 45
27.A. Do you hav □ Yes			
27.A. Do you hav		□ No	
27.A. Do you hav		□ No services provider been identified and contractually engaged ?	42,43,44, 45
27.A. Do you hav	onded "Yes" to Question 27.A, has a trans	□ No services provider been identified and contractually engaged ?	42,43,44, 45
Yes:	onded "Yes" to Question 27.A, has a trans	□ No Sition services provider been identified and contractually engaged ? □ No	42,43,44, 45 42,43,44, 45 42,43,44, 45

29. If you responded "Yes" to Question 27.B, please check whether the following elements are part of your arrangement with your transition services provider:	42,43,44, 45
Registry Services :	
Maintenance of name servers and DNS for registered domain names :	
· Other items :	
30.A. Do you have a failover testing plan in place ?	42,43,44, 45
□ Yes □ No	
30.B. If you responded "Yes" to Question 30.A., how regularly do you test it ?	42,43,44, 45
☐ Annually or more frequently	
Less frequently than annually	
□ Never	
H. Monitoring and Fault Escalation	
31. Please describe the tools currently used for monitoring critical registry operations and systems :	46
32. Please provide the current (past 3 months) % uptime for the following registry services :	46
Shared Registry System (EPP): %	
DNS Service : %	
Whois Service : %	
I. Registry Size and Operations	
Questions 33-37 need only be completed if you have not already previously made this information available to ICANN through regular reporting	
adesations 35-57 feed only be completed if you have not already previously made this information available to forthe through regular reporting	
33. On average, what volume of renewals (in actual number of renewals) do you receive on a daily basis ?	Multiple
(for this and remaining questions under this section, where more than one registry is operated, please provide for each registry)	
Registry 1 Name : Registry 2* Registry 3* Registry 4*	
Today:	
As of 1 year after commencement of operations :	
As of 2 years after commencement of operations :	
Best-estimate as to 1 year from today : * = if relevant	
" = if relevant	

34. On average, what volume of cancellations / deletions do y	ou receive on a dail	y basis ?				Multiple
Name :	Registry 1	Registry 2*	Registry 3*	Registry 4*		
Today:						
As of 1 year after commencement of operations :						
As of 2 years after commencement of operations :						
Best-estimate as to 1 year from today :					* = if relevant	
35. On average, what volume of Whois queries do you receive	on a daily basis ?				= II Televanii	Multiple
oo. On avoidge, what volume of thiological do you recent	_					manapio
Name :	Registry 1	Registry 2*	Registry 3*	Registry 4*		
Today:						
As of 1 year after commencement of operations :						
As of 2 years after commencement of operations :						
Best-estimate as to 1 year from today :					* = if relevant	
36. What is the average response time for the following regist	ry services ?					Multiple
Shared Registry System (EPP) :						
DNS Service :						
Whois Service :						
37. Please describe your pricing model (with respect to prices	s from new registrati	ions, renewals, cance	liations, and any volui	me discounts and prom	otions):	Multiple
Today :						
As of 1 year after commencement of operations :						
As of 2 years after commencement of operations :						
Best-estimate as to 1 year from today :						
J. Forecasting Performance						
38. Looking back at your initial registry size and growth assu	mptions (prior to act	tually commencing re	gistry operations), we	re the		50, 53
☐ Met ?						
☐ Exceeded ?						
□ Not met ?						
39. Please describe the key factors (or challenges), that you o	lid not anticipate, or	that proved erroneou	s when thinking abou	t actual registry growth	versus your planned	50, 53
growth :						
40. Looking back at your initial cost projections for running tl	ne registry (prior to	establishing the regis	try), were they			50, 53
Relatively accurate (in comparison to the actual size of registry) ?						
☐ Under-estimated ?						
☐ Over-estimated ?						

41. If costs were initially either under- or over-estimated, what were the main drivers of the incorrect forecast (e.g., not enough labor, over-estimated costs involved, did not anticipate marketing requirements, etc)?				
K. Financial N	Metrics			
42.A. Are you	ır financial statements currently audited ?	49, 51, 52		
☐ Yes	□ No			
	esponded "No" to Question 42.A., please describe what form of financials you produce, the frequency with which you produce them (e.g., monthly, annually level of detail involved:	49, 51, 52		
Frequency :	☐ Monthly			
	☐ Quarterly			
	☐ Annually			
43. What is yo	our <u>current</u> annual level of capital expenditure ? (please state which currency you are using)	51, 52		
Currency Use	ed ed			
Current Leve	l of Capital Expenditurs			
44. What was	your level of capital expenditure during the <u>first year</u> of registry operations ? (please state which currency you are using)	51, 52		
Currency Use	ed			
Current Leve	I of Capital Expenditurs			