

Launching IDN ccTLD

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Agenda



Pre-IDN ccTLD Fast Track String evaluation and delegation

Technical and Logistical Preparation

Are we Done? What is Next?







About SaudiNIC





About SaudiNIC



- SaudiNIC is a non-profit unit that is operated by Communication and Information Technology Commission (CITC) which is a semigovernmental entity.
- SaudiNIC administers the Saudi ccTLDs:
 - .sa since 1995.
 - The new IDN ccTLD (السعودية.)
- Leading the local community efforts towards supporting Arabic language in DNS
 - Chairing both Steering and Technical Committees of the ADNPP







Pre-IDN ccTLD Fast Track





Pre-IDN ccTLD Fast Track Readiness



In 28 Oct 2008, our response to ICANN survey regarding participation on the IDN ccTLD FT:

We are ready from day one.

Questions for Each Territory

Please read the page titled "Important Background Information" before completing this questionnaire

Respondent's Name: Abdulaziz H. Al-Zoman						
Title: Director of SaudiNIC						
Organization/Affiliation: Communication and	Information Technology Commission					
Mailing Address: P. O. Box 75606 Rivadh 11588, Saudi Arabia						
Phone: +96612639233	Fax: +96612639228					
Email Address: azoman@citc.gov.sa						
1. Is your territory interested in obtaining an I process?	DN ccTLD during the fast-track					
☑ Yes ☐ No						
2. Do you know what the IDN ccTLD domain name(s) is/are likely to be?						
☑ Yes ☐ No						
If yes, please specify the IDN ccTLD domai and in English.	n name(s) in your official language					
String: السعودية. Language: Arabic	Script: Arabic					
Unicode: u+0627 u+0644 u+0633 u+0639	u+0648 u+062F u+064A u+0629					
Puny code: xn-mgberp4a5d4ar	English Translation: .saudia					
3. If no, what official language(s) and script(s) would be used?					
Language:	Script:					
Language:	Script:					
Language:	Script:					
Could you estimate the timeframe within which your territory is likely to have concluded its preparation and be ready to participate in the fast-track process? Use half year time blocks as a rough estimate.)						
We are ready from day one!						
Please check this box if you do not wish this information to be published on ICANN's website.						



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Pre-IDN ccTLD Fast Track What has been done?

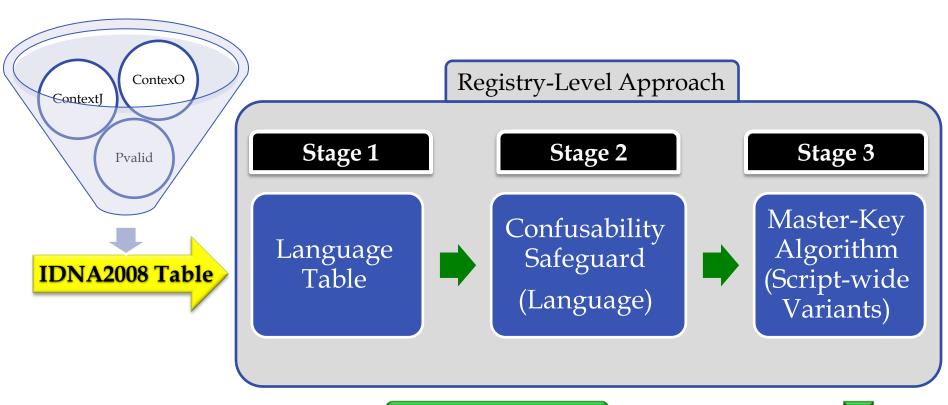


- Led and helped building Pan-Arab cooperation
 - Arab Team for Domain Names and Internet Affairs (Under the Arab League)
 - Arabic Domain Name Pilot Project (2005-2009)
- Resolved most language linguistic issues
- Built local technical capabilities (~ 10 years)
 - Lead the local and regional technical ADN development
 - Chairing both Steering and Technical Committees of the ADNPP
 - Gained experience and knowledge of using Arabic domain names
 - Built the local awareness about Arabic domain names.
 - Developed some tools required for Arabic domain names and DNS.
 - Developed a technical solution addressing Arabic Script Variants
 - Developed some guideline policies.
- Shared all the above with the Internet community.









A master-key code

It gives the registrant the control (to register or block) on the valid list of variants domain names.





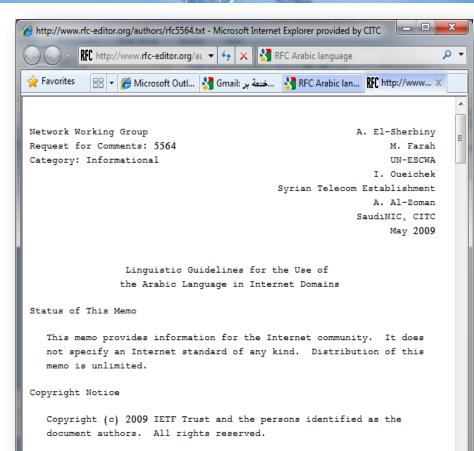




Stage 1

Defining Language Table

- We led and helped publishing a reference document that lists all supported code points that will be used in Arabic domain names.
- FRC 5564: Linguistic Guidelines for the Use of the Arabic Language in Internet Domains
 - Letters: From (أ) to (چ)
 - Numbers: (0) to (9) & (0) to (9)
 - Others: Hyphen (-) & Dot(.)
- This will help in solving the following issues:
 - Valid Unicode Codepoints
 - Non-spacing Marks
 - Combining Marks
 - ZWNJ/ZWJ



www.rfc-editor.org/authors/rfc5564.txt







Stage 2 Confusability Safeguard

- Provide a phishing protection layer (Emlaa Key Algorithm) to handle issues like:

احمد & أحمد

- Similarities between Letter HEH (•) and Number Five (5):

بریده & بریده

- Similarities between Letter ALEF(1) and Number one (1)

رائد & رائد

- Digit mixing

10مؤتمر 20 مؤتمر 2010







Stage 3 Handling Scriptwide Variants

- SaudiNIC developed an algorithm (Master Key Algorithm) that can be used at the registry level.
- It will safely allow users to register a domain name using the allowed characters (from the language table) and at the same time protect the possible variants in other languages (Arabic, Farsi, Urdu ..etc)
- Transparent to end users







String Evaluation and Delegation





String Evaluation and Delegation



16 Nov 2009

ICANN opened IDN ccTLD FT Process



16 Nov 2009

Applying to fast track process



20 Jan 2010

ICANN
Approved the
String



6 May 2010

IANA added xn--mgberp4a5d4ar to the root servers



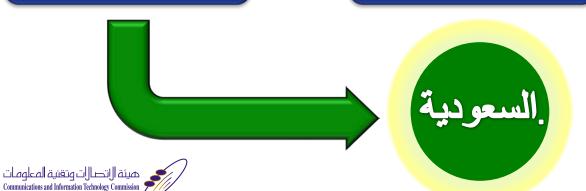
22 Apr 2010

IANA
Approved the
Delegation



24 Jan 2010

Applying for delegation





String Evaluation and Delegation Notes and Comments



- In general the string evolution process was straight forward process, while the delegation process was a surprise to us.
 - It might be worth to integrate them together (at least for the paper work .. and more coordination between ICANN & IANA become visible)
- The communication experience during the delegation process was not as expected:
 - no updates unless we ask (many times).
 - most responses look like that they are machine generated emails.
 - delegation was done by surprise ... "Hey your delegation was done yesterday "







Technical and Logistical Preparation





Technical and Logistical Preparation Policy Development Process



 Drafting and approval of registration regulations followed SaudiNIC PDP

킬	Issue Identification	Prioritization	Initial Report	Public Consultation	Recommendat ions	Final Report	Final Approval
CITC	Identify						Approve
Board	issues			_			policy
CITC-	Identify	Direct		Approve	Review	Endorse	
MC	issues	prioritization		consultation	draft policy	final	
				process	report and	policy	
					provide	report	
					input	and	
						request	
						Board	
- 41				_		approval	
SaudiNIC	Prepare the	Prioritize	Prepare	Prepare	Prepare	Prepare	Implement
	list of issues	issues	an initial	consultation	draft policy	final	approved
	and their		report/	documents	report	policy	policies
	scope		study	and reports		report	
Stake-	Identify			Submit			
holders	issues			comments			
Public	Identify			Submit			
<u></u>	issues			comments			

Co

Technical and Logistical Preparation Published Regulations and Guidelines



IDN ccTLD (السعودية.) Version 1.0 Saturday 25/04/1431 H (10/04/2010)

- The terms and expressions defined in the Telecommunication Act and in its Bylaw shall have the same meaning in this regulation. In addition, the terms and expressions set out in this regulation shall have the following meanings assigned to each of them: Saud/NFCC Saudi Network information Center at CITC is the registration authority for the Saud/NFCC Saudi Network information Center at CITC is the registration authority for the Center of the Cent
- Registration Services: Services provided by SaudiNIC related to the registration of a domain name, including but not limited to registration, modification, renewal, suspension, deletion or transfer of a domain name.
- Service Request: An online form, available on the SaudiNIC's website, used to request Registration Services. This includes actions taken by a Registrant on a password-protected
- Registrant: A natural person or a legal entity that requested, or will request, directly or through a third party registration services, including the current holder of a domain name
- Administrative Contact: A natural person, based in Saudi Arabia, who is designated by the Registrant in the Service Request. The Administrative Contact shall be authorized to represent the registrant at SaudiNC and CITC for matters related to all domain names issues, including requesting and obtaining registration services, responding to domain name objections, and coordinating any financial matters. The Registrant must provide and maintain a valid and complete Administrative Contact's information, including a correct, valid and functional e-mail address. the Registrant in the Service Request. The Administrative Contact shall be authorized to

- is always the first level from the left; or السعودية), where (مرقع السعودية) is always the first level from the left; or

kegulation for Opening Arabic Domain Name Registration ".السعودية" under the IDN ccTLD. Version 2.0 Saturday 25/04/1431 H (10/04/2010)

Definitions

Regulation for Arabic Domain Name Registration under the IDN CILD ((1994)) shall have the same meaning in this regulation. In addition, the terms and expressions set out in this regulation shall have the following meanings assigned to them:

- This Regulation: This Regulation that regulate the opening of the Arabic Domain registration under the IDN حراله المعالية المعالية .".".
- · SaudiNIC: Saudi Network Information Center at CITC is the registration authority for the Saudi ccTLDs. SaudiNIC is responsible for providing Registration Services for the Saudi ccTLDs. as well as formulating and implementing policies procedures with regard to the Saudi ccTLDs and managing and operating their registries.
- Sunrise Phase: The period extending from 10:00 AM on Monday the 17th of Jumada'II 1431 H (31th of May 2010 G), to 10:00 AM on Monday the 30th of Rajab 1431 H (12th July 2010 G), during which SaudiNIC shall accept applications for registration of Arabic domain names from
- Landrush Phase: The phase when SaudiNIC shall begin accepting applications for registration
 of Arabic domain names from members of the general public. The Landrush phase starts from
 10:00 AM on Monday the 18th Shawwal 1431 H (27th September 2010 G).
- . Qualified registrant: An entity or individual who has a registered trade name or mark with authorities and organizations
- ADNR: The Arabic Domain Name Regulation under the IDN ccTLD (السوبية) , which

Saudi Domain Names Objection Rules and Procedures Version 2.0 Saturday 25/04/1431 H (10/04/2010)

Definitions

The terms and expressions defined in the Telecommunication Act, its bylaws and the Regulations for Saudi Domain Name Registration shall have the same meaning in this document. In addition, the words and expressions set hereunder in this document shall have the meanings assigned

- This Document: this Saudi Domain Names Objection Rules and Procedures, including any
 future approved amendments or additions.
- SaudiNIC: Saudi Network Information Center at CITC is the registration authority for the Saudi ccTLDs SaudiNIC is responsible for providing Registration Services for the Saudi ccTLDs, as well as formulating and implementing policies procedures with regard to the Saud ccTLDs and managing and operating their registries
- Decision: any decision issued by SaudiNIC related to the registration services
- . Saudi domains names: domain names registered under the Saudi ccTLDs, and managed by
- . Objecting parties: include both the objector and defendant (each of which is referred to as

2 The Scope of this Document

2/1 This document sets the rules and procedures governs the objections on Saudi domain name. CITC jurisdiction to implement this Document is limited to the objections in connection

Main Registration Regulation

Regulation for Registration

Objection Rules and Procedures

Procedures Governing Reserved Names **Under Saudi Domain Names** Version 1.0 Date 10/5/1431 H (24/4/2010)

1 Scope of procedures

This document establishes procedures for creating a list of reserved names under Saudi domain names, and a mechanism for managing this list.

2 Definitions

The terms and expressions defined in the Telecommunication Act, its bylaws and the Regulations for Saudi Domain Name Registration shall have the same meaning in this document. In addition, the words and expressions set hereunder in this document shall have the meanings assigned below:

- Domain name: a word or phrase used to access Internet services, rather than the numerical address. . Reserved name: a word or phrase that is prohibited to be used in Saudi domain names, according to the
- criteria set in these procedures. . The List: a list of reserved names prepared under these procedures

3 List of Reserved names

- SaudiNIC establish the List that includes reserved names in the following categories:
- Geographical: such as names of cities, governorates, regions and countries.

 Absolute numbers and letters: This includes any one letter or any group of 5 digits or less.
- Confusing: words or terms that include critical text such as وزارة, ministry), (يعودي, Saudi), or (bank,
- Religious: It includes names of religions and sects, sacred places, names and attributes of Allah and the names of the prophets and apostles
- Inappropriate: It includes words and terms that present an attack on the religion, homeland, or of persons or they offend public decency

Opening ADN

واعد إرشادية لصياغة أسماء النطاقات العربية

ضمن النطاق العربي

(١٤ السعودية)

الإصندار ١٠٠ (تاريخ ٢٠١/٥/٢٠هـ المواطق ١٥/٥/١٠م)

تعنى هذه الوثيقة يتحديد الرموز السهوم استخدامها عند تسجيل أسهاء نطاقات عربية ضهن النطاق العلوي العربي السعودي (.السعودية). أيضا تضع هذه الوثيقة جملة من الإرشادات والقواعد تساعد على كتابة أسماء النطاقات العربية بشكل صحيح أخذين في الاعتبار المواضيع التي تمس اللغة أو الحرف العربي، يكون للمصطلحات والتعابير المعرفة في الائحة تسجيل أسماء النطاقات العربية نفس المعنى المحدد لها في تلك اللائحة عند استخدامها هنا في هذه الوثيقة وبالخصوص

اسم قطاق: يطلق على أي من الصيفتين القياسيتين أو كلاهما المستخدمة لتمثيل أسماء النطاقات باللغة العربية طبقا للمواصفات القياسية الدولية الخاصة بأسماء النطاقات المدولة

الصيغة الأولى باللغة العربية: وهي عبارة عن اسم مكون من مقطعين عربيين مف

Guideline for writing ADNs Criteria to Demonstrate Reasonable Relationship between a Domain Name and a Registrant

Version 1.0 Date 05/20/1431 AH 04/05/2010

1. Applying the text of paragraph (7/3) of the regulation of domain name registration in Saudi Arabia, which requires that the domain name should have some reasonable relationship to the Registrant. This document shows some criteria to demonstrate this relationship, without prejudice to the terms and conditions mentioned in the registration regulations.

2. Criteria identified in this document are guidelines that are made available to help the registrant to select a domain name to be registered. They are not binding on SaudiNIC, and they do not give the Registrant any rights to preserve the domain name or infringement on the rights of others.

1: The label should be an exact match of the registrant's name An "exact match" is where the label of a requested domain name matches one or more of the words comprising the name used by the registrant to establish their eligibility. The words must be used in the same order as they appear in the name. Furthermore, it should represent the name without confusion. It should not match a full nam of other entity or a generic word

Criteria to Demonstrate Reasonable Relationship between a Domain Name and a Registrant



Technical and Logistical Preparation Technical



- Rebuilt (in-house) the registration system to support
 - Arabic IDN
 - IPv6
- Increased Connection BW and installed new servers
- Implemented Anycast and IPv6 on our DNS servers
- •

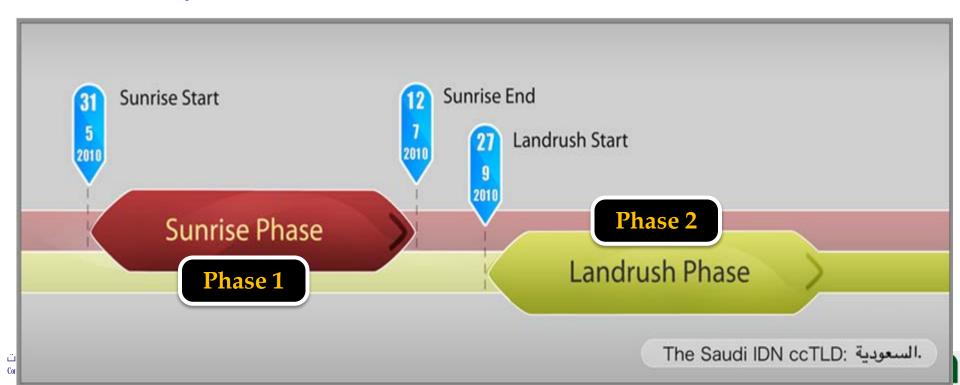




Technical and Logistical Preparation Opening Registration Plan



- We announced our Registration Plan (2 phases)on
 - 15 April 2010
- We launched Saudi Arabic domain names on
 - 6 May 2010





Are we Done? ... What is Next?





IDN is NOT Accomplished If TLD variants are not SUPPORTED







There is a need to enable TLD Variants Delegating IDN variants to our clients can not happen without getting the TLD variants.











IDN Support in Applications



- TLD variants are a must-have!
- IDN support in any users applications:
 - email, chat, search engines, ...
- User friendly applications:
 - Display the (U-Label) to the user (NO A-label display)
 - Handel Right to Left correctly ... better readability of the address bar
 - Recognize IDN (U-Label) as a hyperlink
 - Transparent to the user (discouraging the A-label display)
 - Converting "spaces" to Dashes









شكرا

U+0634 U+06A9 U+0631 U+0627

U+0634 U+0643 U+0631 U+0627

G35B G44M G32F G22I



