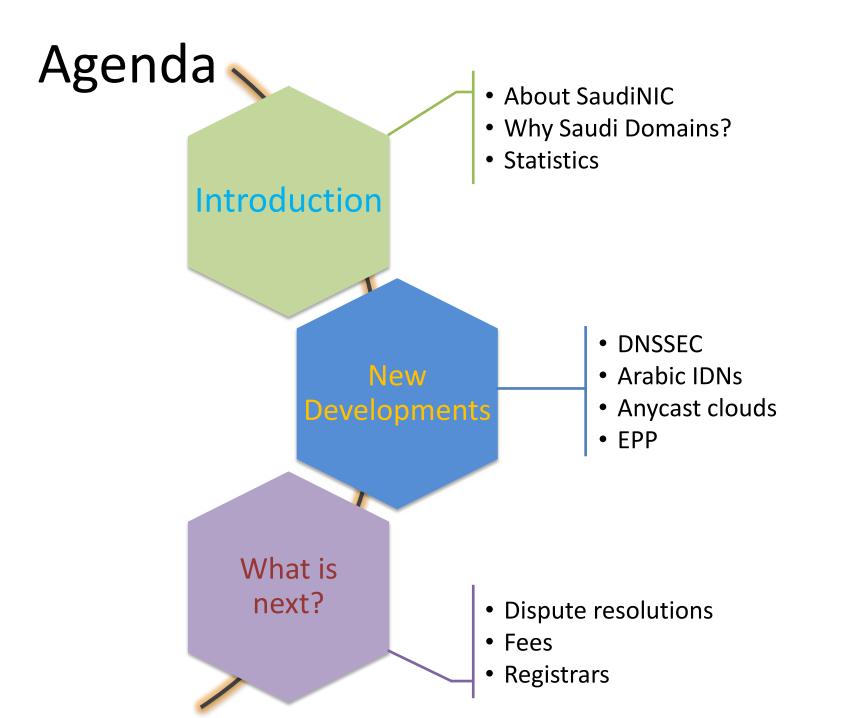
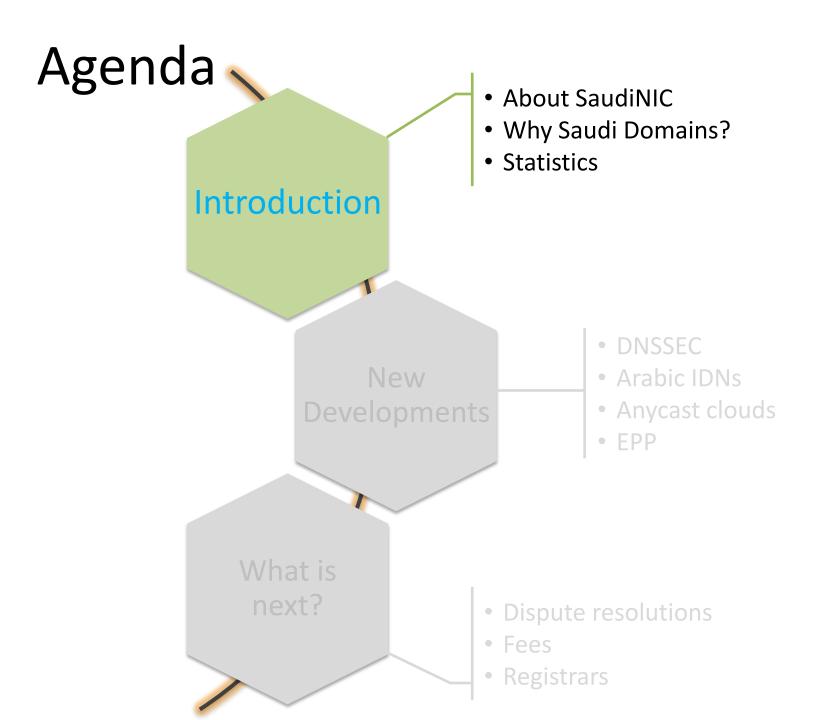




## SaudiNIC updates on (.السعودية The Saudi TLDs (.sa and

Raed Alfayez, SaudiNIC ICANN60, Abu Dhabi, Oct 2017





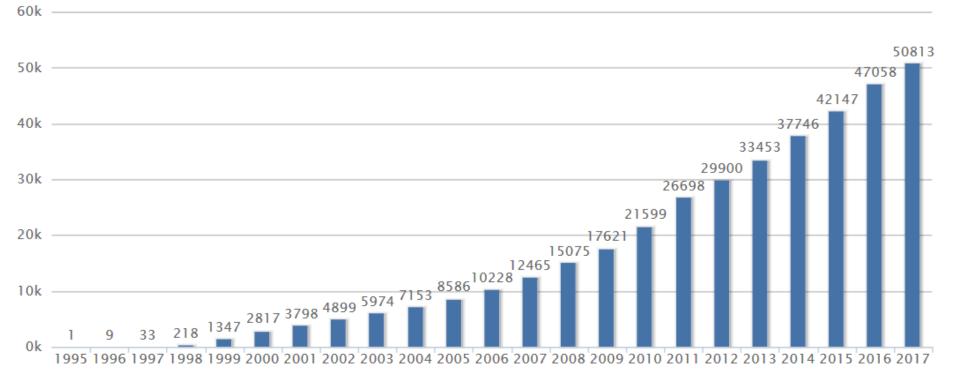
### Introduction About SaudiNIC

- Administering the domain name space under:
  - (.sa) since 1995
  - (السعودية.) since 2010.
- Operated by a semi-government organization:
  - CITC (Communication and Information Technology Commission)
- Coordinating with regional and international bodies in order to present the local community needs
- Leading the local and regional communities efforts towards supporting Arabic language in Domain Names since 2001 (more than 15 years of experience)

### Introduction Why Saudi Domains?

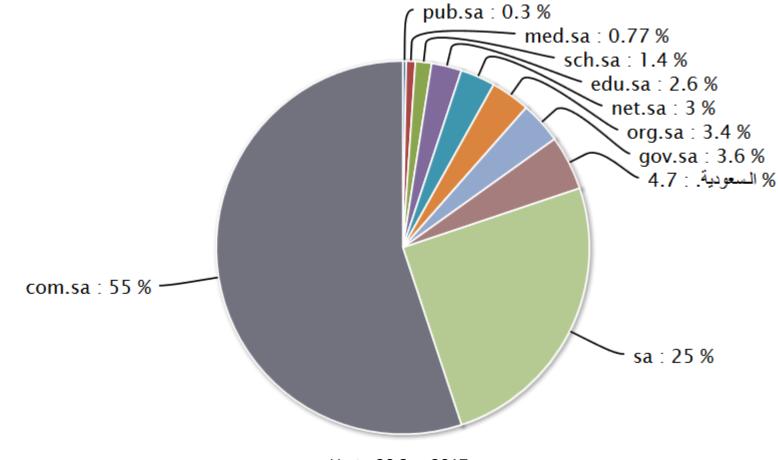
- The main trusted choice for our customers due to the verification of:
  - The registrant's identity
  - The relationship between the registrant and the domain
  - The local Admin (SMS)
- Make it durable:
  - Instant registration within 10 min (if match our policies)
  - No phishing
  - Its free

## Introduction Statistics # of registered domain names



Up to 30 Sep 2017

# Introduction Statistics 2LD/3LD Domain Names Distribution %



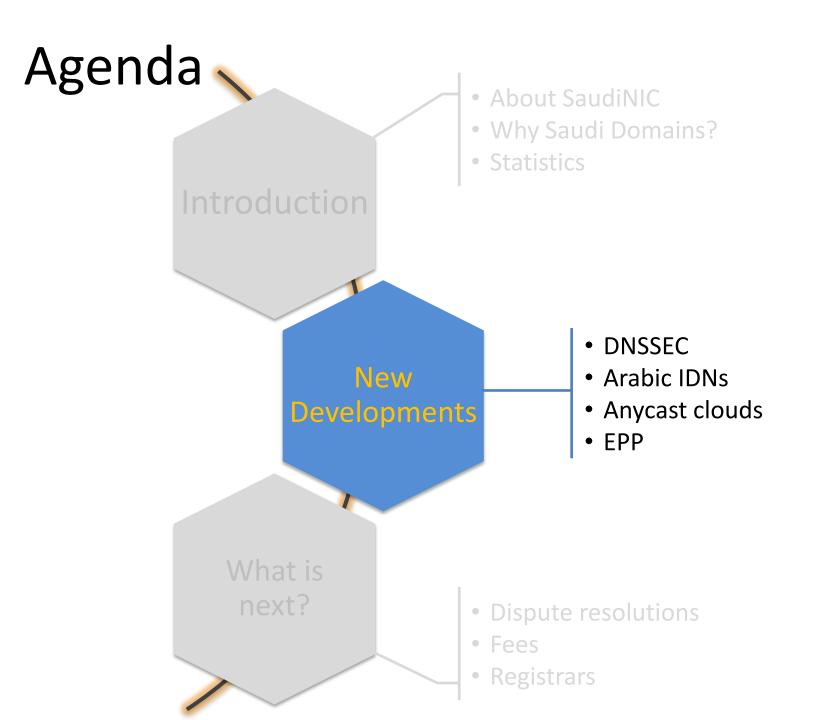
Up to 30 Sep 2017

## Introduction Statistics Arabic domain names



- 416 Variants
- within the Arabic language only (other languages are not yet available!)
- Average domain length 13
  - (min 2 , max 47)
- % of spelling mistakes = 9% Domains
- % of spelling mistakes = 78% Variants
- \*: Up to 30 Sep 2017

	# domains	occurrence
١	1787	4332
ي	1329	1944
-	934	1795
:0	772	1304
ای	659	757
٥	261	302
ĥ	186	194
e	87	87
ى	44	46
Ĩ	18	18

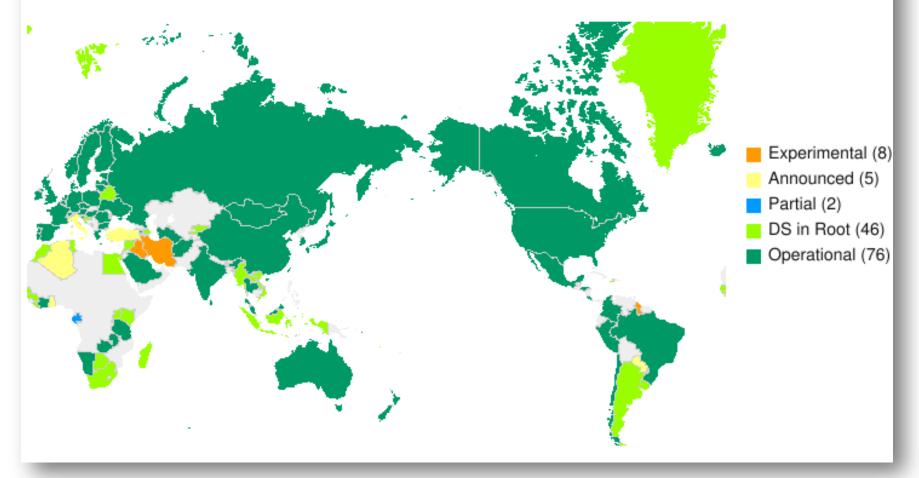




- The 1<sup>st</sup> Registry in the region to deploy and open DNSSEC for the registrants
  - Pilot under "السعودية." since 14 June 2016
  - Officially under ".sa" & "السعودية" since 22 June 2017
- Many awareness sessions:
  - 3 days training workshop (14-16 Oct 2015)
    - 25 participant
  - 2 days training workshop (7-8 May 2017)
    - 41 participant
  - 1 day public event (9 May 2017)
    - 120 participant



#### ccTLD DNSSEC Status on 2017-08-07



## evelopments DNSSEC Key generation Ceremony



Role International SM DSS SA WI	Description         Table         Description           SaudhViC Manager         SaudhViC Manager         SaudhViC Save           DRSSC Specialist         GUI         Gray           System Administrator         HSM         Harr           Witness 1.2         KSX         Key           25X         20m         Dis	olation Il Network Information Center Sical Dev Interface bases Security Module Signing Key e Signing Key e Signing Key gas Evident Bag
Title	Full Name	Signature
SM	Road Alfayez.	
DSS	Abdullah Alshammeri	A
SA	Agun Nestangian.	uto
wi	Abdulazie H. Al-Zoman	25-
wi	Nasser S. Althiyab	E
wl	Anos Assiri	
SM	Ibraheen Alteraily	261
wi	A1: Atshehri	Carle -
MI	Majed S. Alanan	Sult
NI	Fold S. Aleydi	tothe
NI	Hesham Al-Hammen	1 CADO
555	Solib algotimel	2+
55	Junal alshater	Ribert alshares
M	Sulaina Mirdad	1st



## DNSSEC Workshop and public events



## DNSSEC Workshop and public events



DNSSEC: A Global Platform for Innovation or.. I\* \$mell opportunity !



## New Arabic IDNs

- Published our Language table in IANA with the new XML format (RFC 7940)
  - <u>https://www.iana.org/domains/idn-tables/tables/xn--</u> mgberp4a5d4ar ar 2.xml
- Published "SaudiNIC's Best Practices in Supporting and Managing Arabic Domain Names"
  - <u>http://nic.sa/docs/SaudiNIC-BP-</u>
     <u>Supporting%20and%20Managing%20Arabic%20Domain%2</u>
     <u>0Names%20-%2020170815.pdf</u>
- Participate in the Task Force on Arabic Script IDNs(TF-AIDN) on these topics:
  - $2^{nd}$  level LGR for the Arabic script
  - Universal acceptance for Arabic domains

## Developments Arabic IDNs

#### - <lgr> - <meta>

<version>2</version>
<date>2016-06-05</date>
<language>ar</language>
<scope type="domain">xn--mgberp4a5d4ar</scope>
- <description type="text/plain">
This document provides the IDN (Internationalized Do

This document provides the IDN (Internationalized Domain Names) Language Table and guideline rules to be used for writing and registering Arabic Domain names the recommendations outlined in the RFC 5564: "Linguistic Guidelines for the Use of the Arabic Language in Internet Domains", that can be found in the following URL (azoman[at]citc.gov.sa), Saudi Network Information Center Raed Al-Fayez (rfayez[at]citc.gov.sa), Saudi Network Information Center Abdulrahman I. AL-Ghadir (aghad </description>

<validity-start>2014-12-07</validity-start> <validity-end>2020-12-07</validity-end> <unicode-version>6.3.0</unicode-version>

- <references>

<reference id="0">The Unicode Standard, Version 6.3.0</reference>

- <reference id="1">

RFC 5564: "Linguistic Guidelines for the Use of the Arabic Language in Internet Domains", http://tools.ietf.org/html/rfc5564

</reference>

- <reference id="2">

Guideline Rules for writing Arabic IDNs under the IDN ccTLD (السعوبة), http://nic.net.sa/docs/Guidelines\_for\_writing\_Arabic\_IDNs\_under\_the\_IDN\_ccTLD\_V1.2-en.pdf

</references>

</meta>

- <data>

<char cp="0621" ref="0 1 2"/>

- <char cp="0622" ref="0 1 2">

<var cp="0623" type="allocate" when="arabic-final-right-join" comment="Language variant"/>
<var cp="0623" type="allocate" when="arabic-isolated-right-join" comment="Language variant"/>
<var cp="0625" type="allocate" when="arabic-final-right-join" comment="Language variant"/>
<var cp="0625" type="allocate" when="arabic-isolated-right-join" comment="Language variant"/>
<var cp="0627" type="allocate" when="arabic-isolated-right-join" comment="Language variant"/>
<var cp="0617" type="block" when="arabic-isolated-right-join" comment="Language variant"/>
<var cp="0617" type="block" when="arabic-isolated-right-join" comment="Language variant"/>
<var cp="0627" type="block" when="arabic-isolated-right-join" comment="Language variant"/>
<var cp="0617" type="block" when="arabic-isolated-right-join" comment="Language variant"/>
<var cp="0627" type="block" when="arabic-isolated-right-join" comment="Typo variant"/>
<var cp="0677" type="block" when="arabic-isolated-right-join" comment="Typo variant"/></ar>





#### SaudiNIC's Best Practices

### Supporting and Managing Arabic Domain Names

#### August 2017, Ver. 1.0

The intention of this best practice document is to share SaudiNIC's experiences and practices in supporting and managing Arabic domain names.

## Developments Anycast Clouds

- Increasing the footprint for our secondary servers (Locally and globally):
  - 7 Secondary servers in 5 in Saudi Arabia (3 cities) and 2 outside Saudi Arabia
  - 200+ anycast servers with 2 different providers around the world
  - All have IPV4 & IPv6 & DNSsec

# New Anycast Clouds



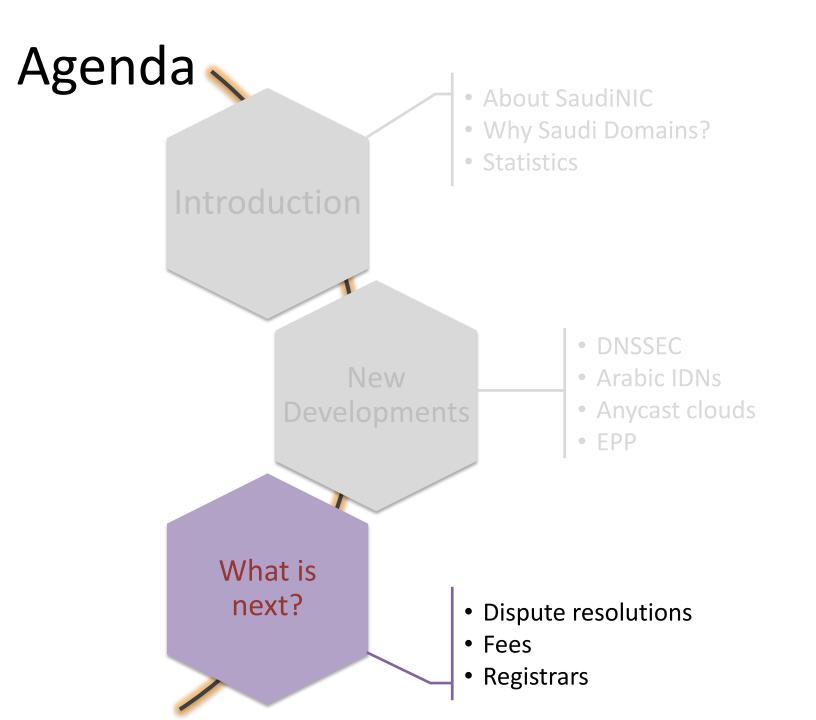
Saudi ccTLDs DNS servers around the world



- Developed an in-house EPP system:
  - Compatible with the EPP`s RFC
  - It is open source and developed by Saudi engineers
  - Each server can handle up to 100 trans/sec
  - Full support of Arabic Domains and its variants:
    - Master Key Algorithm & Variant Filters
    - Language tables in IANA`s new XML format
  - Easy to add new extensions and business needs
  - Dedicated web interface for Registry and Registrants
  - .. and many other features (e.g. DNSSEC)







# Developments — What is Next?

- Updating the regulations to allow SaudiNIC:
  - To have alternative dispute resolution process
  - To introduce fees
  - To accredit and license Registrars





للمزيد من المعلومات يمكنكم زيارة:

#### For more information you can visit:



المركز السعودي لمعلومات الشبكة Saudi Network Information Center

www.nic.sa

صيئة الاتصالات وتقنية المعلومات Communications and Information Technology Commission



هيئة-الاتصالات.السعودية

www.citc.gov.sa