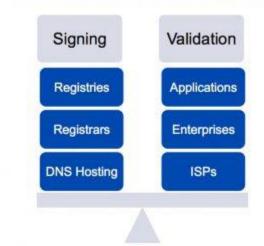






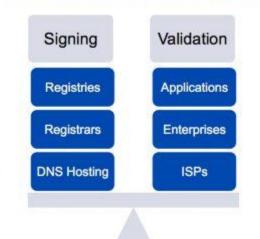
- □ Signing your domain is "signed" by the organization operating the name servers for the domain. This could be a
 - "DNS hosting" provider,
 - a "web hosting provider",
 - a registrar (who offers DNS hosting),
 - your own DNS "authoritative servers"
 - or someone else you have operating the name servers on your behalf.





DNSSECValidation

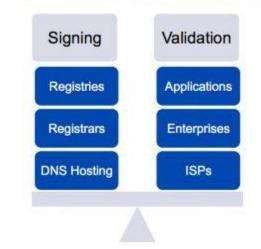
- Validation With DNSSEC, that DNS resolver will also validate the cryptographic signatures to ensure that the DNS information was not modified in transit.
 - At the DNS resolvers provided to you by your
 Internet Service Provider (ISP)
 - □ At the edge of your local network in a firewall or "home WiFi router"
 - DNS resolver on your local computer either included as part of the operating system or installed by you (ex. DNSSEC-Trigger)







- Validation With DNSSEC, that DNS resolver will also validate the cryptographic signatures to ensure that the DNS information was not modified in transit.
 - Directly within an application on your computer such as a web browser, instant messaging client or mail server or client.
 - At public DNS resolvers such as those operated by Google's Public DNS





State of DNSSEC Deployment in ccTLDs

DNSSEC Status

ccTLD DNSSEC Status on 2022-11-28



Experimental - Internal experimentation announced or observed Announced - Public commitment to deploy Partial - Zone is signed but not in operation (no DS in root)

DS in Root - Zone is signed and its DS has been published

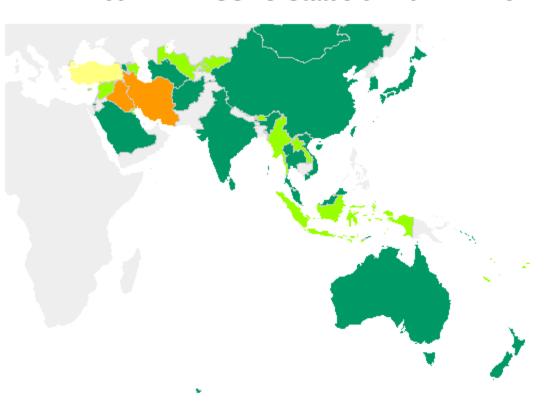
Operational - Accepting signed delegations and DS in root.



State of DNSSEC Deployment in ccTLDs

DNSSEC Status

AP ccTLD DNSSEC Status on 2022-11-28



Experimental (4)

Announced (1)

Partial (0)

DS in Root (22)

Operational (26)

DS Automation (0)

Experimental - Internal experimentation announced or observed Announced - Public commitment to deploy Partial - Zone is signed but not in operation (no DS in root)

DS in Root - Zone is signed and its DS has been published

Operational - Accepting signed delegations and DS in root.



DNSSEC: Validation

State of DNSSEC Validation

Code	Subregion	DN33EC Validates	Faitiai validates	Samples	weight	weighted	Samples		64
XV	Western Asia, Asia	46.72%	11.04%	643,004	0.87		559,451		
СС	Country		DNSSEC Validates	Partial V	/alidates	Samples	Weight	Weighted Samples	
SA	Saudi Arabia, Western Asia, Asia		95.60%		4.01%	104,298	0.84	87,638	
AM	Armenia, Western Asia, Asia		70.32%		16.81%	4,397	1.43	6,297	
IQ	Iraq, Western Asia, Asia		69.24%		19.29%	56,730	1.64	93,000	
AZ	Azerbaijan, Western Asia, Asia		63.89%		10.78%	12,825	1.71	21,869	
CY	Cyprus, Western Asia, Asia		57.59%		9.87%	6,091	0.47	2,877	
IL	Israel, Western Asia, Asia		42.41%		12.21%	44,472	0.44	19,739	
SY	Syrian Arab Republic, Western Asia, Asia		39.58%		13.55%	3,418	5.26	17,965	
PS	State of Palestine, Western Asia, Asia		31.65%		15.76%	7,854	1.26	9,876	
KW	Kuwait, Western Asia, Asia		31.35%		3.52%	19,887	0.7	13,995	
TR	Turkey, Western Asia, Asia		28.05%		9.79%	209,138	0.81	169,911	
GE	Georgia, Western Asia, Asia		25.67%		21.56%	17,853	0.41	7,372	
YE	Yemen, Western Asia, Asia		24.28%		14.43%	5,951	3.96	23,581	
BH	Bahrain, Western Asia, Asia		22.09%		4.36%	7,936	0.56	4,452	
LB	Lebanon, Western Asia, Asia		16.99%		10.60%	34,103	0.44	14,968	
ΑE	United Arab Emirates, Western Asia, Asia		11.59%		3.80%	45,707	0.58	26,434	

10.58%

8.73%

3.20%

47.34%

2.60%

1.57%

15,878

20.410

26,056

0.48

0.58

0.77

7,600

11,782

20,088

DNSSEC Validates Partial Validates Samples Weight Weighted Samples

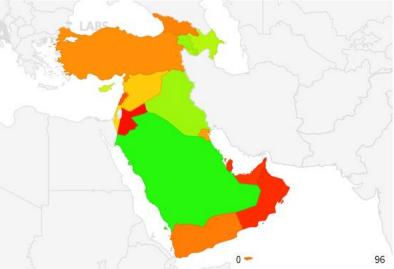
Code

SubRegion

QA Qatar, Western Asia, Asia

OM Oman, Western Asia, Asia

JO Jordan, Western Asia, Asia



Source: APNIC Labs:

https://stats.labs.apnic.net/dnssec/XV



