

UnSigned to Signed Transition Checklist

Abbreviations

RO = Relinquishing DNS Operator

AO= Acquiring DNS Operator

ADMIN= Zone Administrator

AO sets up SIGNER (KSK,ZSK)KSK (NS)ZSK (*)ZSK

Step	Activity	Initial	Time
1	ADMIN sends request to AO to configure, manage, and serve SIGNED zone. RO and AO cooperate in zone database access/transfer (e.g. enable AXFR.NOTIFIES etc See [1] for details).		
2	AO generates KSK and ZSKs, DS record, and signed DNSKEY RRsets at a key ceremony.		
3	AO combines above DNSKEY RRsets and ZSK to create signed zone on a SIGNER and tests.		

Switch Public servers to serve Signed Zone

Step	Activity	Initial	Time
4	AO configures SIGNER to allow transfer and provide notification to public nameservers.[1]		
5	Public nameservers are reconfigured to draw zone from SIGNER. [1]		
6	AO updates the SOA Serial past the current published zone value, SIGNER re-signs the zone triggering publication on public nameservers.		

Wait for caches to update

Step	Activity	Initial	Time
7	AO and RO wait for any caching and propagation delays for zone (at least two times maximum TTL for the zone) and tests.		

ADMIN sends add DS request to IANA root=DS

Step	Activity	Initial	Time
8	ADMIN sends a request to IANA to add AO DS (DS2) to current zone RO DS (DS1) root entry. Note: this may return an error. Request IANA to proceed anyway.		

Wait for processing and caches to update

Step	Activity	Initial	Time
9	AO and RO wait until the changes appear in the root plus any caching and propagation delays for current zone and root zone followed by tests.		

Transition complete

Step	Activity	Initial	Time
10	Transition of operations from RO to AO is now complete.		

Notes:

[1] Please refer to PCH TLD Administrator's Anycast Configuration Checklist for details and guidance.

Summary:

In Cache: (NS) (*)

AO generates KSK, DS and ZSK

AO generates signed DNSKEY RRsets in KC (KSK,ZSK)KSK

Configures SIGNER to generate signed zone (KSK,ZSK)KSK (NS)ZSK (*)ZSK SOA++

Switch public servers to draw from SIGNER

Wait for caches to update and tests

In Cache: (KSK,ZSK)KSK (NS)ZSK (*)ZSK

ADMIN sends add DS request to IANA

Wait for processing and caches to update and tests

In Cache: DS (KSK,ZSK)KSK (NS)ZSK (*)ZSK

Transition complete