

In order to more thoroughly exercise the cryptographic portions of KRSIGNER and to test the validity of the output SKRs for the normal and fallback scenarios through January 2018, I did the following:

1. Wrote scripts to generate KSRs matching the most recent QA\_KSRs provided by Verisign replacing ZSK material with my own. This was done in order to be able to perform subsequent signing of skeleton root zonefiles and hence verify that the DNSKEY RRsets corresponding to the SKRs are correct and cryptographically validate in a zonefile.
2. Generated two test root KSKs (Kk7amd2, Klb5qhn) inside a smart card HSM to correspond to current and new root KSK.
3. Ran the current instance of KRSIGNER using these KSKs, my Verisign parallel KSRs, and various keyschedule.json files specifying how to use the KSKs for each phase of the rollover.
4. Wrote some C-code (decodeskr) to parse the various resultant SKRs into DNSKEY RRsets.
5. Created skeleton root zone files incorporating these DNSKEY RRsets and ran BIND dnssec-signzone in verify mode. Since the RRSIG signature times are all in the future, I made minor modifications to dnssec-signzone code to not compare signatures to current time.

The annotated results are below. In summary, it appears that even for the two (2) KSK revoke signature case, the industry standard for DNSSEC implementation, BIND, verified and “retained” the output of our KRSIGNER instance.

I hope this helps provide some comfort for the next Key Ceremony (end of April 2017) proceedings as well as Verisign's introduction of the resultant SKR/DNSKEY RRSet.

decodeskr converts SKRs to DNSKEY RRsets and generates this table summarizing the SKRs

input skr following agreed naming convention phase-from\_to\_phase-to

```
*** /home/lamb/github/ksrs/c_to_c/skr-root-2017-q3-2-c_to_c.xml ***
Starting: decodeskr /home/lamb/github/ksrs/c_to_c/skr-root-2017-q3-2-c_to_c.xml (at Tue Apr
18 21:17:34 2017 PST)
# Inception Expiration ZSK Tags KSK Tag (CKA_LABEL)
1 2017-07-01T00:00:00 2017-07-22T00:00:00 51570,09795 41135 (Kk7amd2) /S
2 2017-07-11T00:00:00 2017-08-01T00:00:00 09795 41135 (Kk7amd2) /S
3 2017-07-21T00:00:00 2017-08-11T00:00:00 09795 41135 (Kk7amd2) /S
4 2017-07-31T00:00:00 2017-08-21T00:00:00 09795 41135 (Kk7amd2) /S
5 2017-08-10T00:00:00 2017-08-31T00:00:00 09795 41135 (Kk7amd2) /S
6 2017-08-20T00:00:00 2017-09-10T00:00:00 09795 41135 (Kk7amd2) /S
7 2017-08-30T00:00:00 2017-09-20T00:00:00 09795 41135 (Kk7amd2) /S
8 2017-09-09T00:00:00 2017-09-30T00:00:00 09795 41135 (Kk7amd2) /S
9 2017-09-19T00:00:00 2017-10-10T00:00:00 35040,09795 41135 (Kk7amd2) /S
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fb0b2962078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fb0b2962148 .
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
```

Echo of command that is about to be executed. “zonefile” is the skeleton root zone file with DNSKEY RRSet from SKR

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                  ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
```

dnssec-signzone "retains" a previously signed RRSet only if the keys inside the RRSet validate

Do this 9 times for each slot in each SKR

```
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f8833145078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f8833145148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
```

```
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f6281530078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f6281530148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
```

```
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fb40a91a078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fb40a91a148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f4daeb7c078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f4daeb7c148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:    signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:    signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone:    rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fde4808d078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fde4808d148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:    signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:    signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone:    rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f5967369078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f5967369148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:    signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:    signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone:    rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f727d3aa078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f727d3aa148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe71f1d8078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe71f1d8148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                  ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
*** /home/lamb/github/ksrs/c_to_c/skr-root-2017-q4-3-c_to_c.xml ***
Starting: decodeskr /home/lamb/github/ksrs/c_to_c/skr-root-2017-q4-3-c_to_c.xml (at Tue Apr
18 21:17:35 2017 PST)
#  Inception          Expiration          ZSK Tags          KSK Tag (CKA_LABEL)
1  2017-10-01T00:00:00 2017-10-22T00:00:00 35040,09795      41135 (Kk7amd2) /S
2  2017-10-11T00:00:00 2017-11-01T00:00:00 35040             41135 (Kk7amd2) /S
3  2017-10-21T00:00:00 2017-11-11T00:00:00 35040             41135 (Kk7amd2) /S
4  2017-10-31T00:00:00 2017-11-21T00:00:00 35040             41135 (Kk7amd2) /S
5  2017-11-10T00:00:00 2017-12-01T00:00:00 35040             41135 (Kk7amd2) /S
6  2017-11-20T00:00:00 2017-12-11T00:00:00 35040             41135 (Kk7amd2) /S
7  2017-11-30T00:00:00 2017-12-21T00:00:00 35040             41135 (Kk7amd2) /S
8  2017-12-10T00:00:00 2017-12-31T00:00:00 35040             41135 (Kk7amd2) /S
9  2017-12-20T00:00:00 2018-01-10T00:00:00 35040,57909      41135 (Kk7amd2) /S
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7ff290836078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7ff290836148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
```

Start of another  
SKR verification

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                  ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f54a9ae7078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f54a9ae7148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f39d7492078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f39d7492148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fc0d1587078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fc0d1587148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7efbf843a078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7efbf843a148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f3e6b3fb078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f3e6b3fb148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fb715b9b078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fb715b9b148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f4288ddd078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f4288ddd148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:     rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f2de5e1b078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f2de5e1b148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:     rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
*** /home/lamb/github/ksrs/d_to_c/skr-root-2017-q3-1-d_to_c.xml ***
Starting: decodeskr /home/lamb/github/ksrs/d_to_c/skr-root-2017-q3-1-d_to_c.xml (at Tue Apr
18 21:17:36 2017 PST)
# Inception          Expiration          ZSK Tags          KSK Tag (CKA_LABEL)
1 2017-07-01T00:00:00 2017-07-22T00:00:00 51570,09795      41135 (Kk7amd2) /S
2 2017-07-11T00:00:00 2017-08-01T00:00:00 09795            41135 (Kk7amd2) /S
3 2017-07-21T00:00:00 2017-08-11T00:00:00 09795            41135 (Kk7amd2) /S
4 2017-07-31T00:00:00 2017-08-21T00:00:00 09795            41135 (Kk7amd2) /S
5 2017-08-10T00:00:00 2017-08-31T00:00:00 09795            41135 (Kk7amd2) /S
6 2017-08-20T00:00:00 2017-09-10T00:00:00 09795            41135 (Kk7amd2) /S
7 2017-08-30T00:00:00 2017-09-20T00:00:00 09795            41135 (Kk7amd2) /S
8 2017-09-09T00:00:00 2017-09-30T00:00:00 09795            41135 (Kk7amd2) /S
9 2017-09-19T00:00:00 2017-10-10T00:00:00 35040,09795      41135 (Kk7amd2) /S
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f6916f93078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f6916f93148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
```

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```
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f06c2110078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f06c2110148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fac6b4a8078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fac6b4a8148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe90308f078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe90308f148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
```



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```
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fa2fa667078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fa2fa667148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe51048e078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe51048e148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f7aea790078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f7aea790148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```

dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f6562ba4078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f6562ba4148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f2a20398078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f2a20398148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed

```

\*\*\* /home/lamb/github/ksrs/c\_to\_d/skr-root-2017-q3-0-c\_to\_d.xml \*\*\*

Starting: decodeskr /home/lamb/github/ksrs/c\_to\_d/skr-root-2017-q3-0-c\_to\_d.xml (at Tue Apr 18 21:17:37 2017 PST)

#	Inception	Expiration	ZSK Tags	KSK Tag (CKA_LABEL)
1	2017-07-01T00:00:00	2017-07-22T00:00:00	51570,09795	41135 (Kk7amd2) /S
2	2017-07-11T00:00:00	2017-08-01T00:00:00	09795	45356 (K1b5qhn) /P, 41135 (Kk7amd2) /S
3	2017-07-21T00:00:00	2017-08-11T00:00:00	09795	45356 (K1b5qhn) /P, 41135 (Kk7amd2) /S
4	2017-07-31T00:00:00	2017-08-21T00:00:00	09795	45356 (K1b5qhn) /P, 41135 (Kk7amd2) /S
5	2017-08-10T00:00:00	2017-08-31T00:00:00	09795	45356 (K1b5qhn) /P, 41135 (Kk7amd2) /S
6	2017-08-20T00:00:00	2017-09-10T00:00:00	09795	45356 (K1b5qhn) /P, 41135 (Kk7amd2) /S
7	2017-08-30T00:00:00	2017-09-20T00:00:00	09795	45356 (K1b5qhn) /P, 41135 (Kk7amd2) /S
8	2017-09-09T00:00:00	2017-09-30T00:00:00	09795	45356 (K1b5qhn) /P, 41135 (Kk7amd2) /S
9	2017-09-19T00:00:00	2017-10-10T00:00:00	35040,09795	45356 (K1b5qhn) /P, 41135 (Kk7amd2) /S

sign and  
publish

publish  
only

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f0121fb8078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f0121fb8148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe427511078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe427511148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7efd61285078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7efd61285148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe6174f7078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe6174f7148 .
```

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```
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f42bdcc7078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f42bdcc7148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fd91b37a078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fd91b37a148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f07cb93d078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f07cb93d148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f8bf349f078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f8bf349f148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+09795
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f7bfd76e078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f7bfd76e148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/9795
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
```

\*\*\* /home/lamb/github/ksrs/d\_to\_d/skr-root-2017-q4-2-d\_to\_d.xml \*\*\*

Starting: decodeskr /home/lamb/github/ksrs/d\_to\_d/skr-root-2017-q4-2-d\_to\_d.xml (at Tue Apr 18 21:17:38 2017 PST)

#	Inception	Expiration	ZSK Tags	KSK Tag (CKA_LABEL)
1	2017-10-01T00:00:00	2017-10-22T00:00:00	35040,09795	45356(K1b5qhn)/P,41135(Kk7amd2)/S
2	2017-10-11T00:00:00	2017-11-01T00:00:00	35040	45356(K1b5qhn)/P,41135(Kk7amd2)/S
3	2017-10-21T00:00:00	2017-11-11T00:00:00	35040	45356(K1b5qhn)/P,41135(Kk7amd2)/S
4	2017-10-31T00:00:00	2017-11-21T00:00:00	35040	45356(K1b5qhn)/P,41135(Kk7amd2)/S
5	2017-11-10T00:00:00	2017-12-01T00:00:00	35040	45356(K1b5qhn)/P,41135(Kk7amd2)/S

## 18 April 2017 Rick's KSR-SKR-root Tests

```
6 2017-11-20T00:00:00 2017-12-11T00:00:00 35040 45356(K1b5qhn)/P,41135(Kk7amd2)/S
7 2017-11-30T00:00:00 2017-12-21T00:00:00 35040 45356(K1b5qhn)/P,41135(Kk7amd2)/S
8 2017-12-10T00:00:00 2017-12-31T00:00:00 35040 45356(K1b5qhn)/P,41135(Kk7amd2)/S
9 2017-12-20T00:00:00 2018-01-10T00:00:00 35040,57909 45356(K1b5qhn)/P,41135(Kk7amd2)/S
   dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f5fc3ccf078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f5fc3ccf148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
   dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fae84698078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fae84698148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
   dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fd6285c1078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fd6285c1148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fa6a2b14078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fa6a2b14148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f887854a078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f887854a148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7ff23f509078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7ff23f509148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f3bcfcb9078 .
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f3bcfcb9148 .
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fc92d1da078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fc92d1da148 .
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7ff71bf79078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7ff71bf79148 .
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
zonefile.signed
*** /home/lamb/github/ksrs/d_to_d/skr-root-2018-q1-3-d_to_d.xml ***
Starting: decodeskr /home/lamb/github/ksrs/d_to_d/skr-root-2018-q1-3-d_to_d.xml (at Tue Apr
18 21:17:39 2017 PST)
# Inception           Expiration           ZSK Tags           KSK Tag (CKA_LABEL)
1 2018-01-01T00:00:00 2018-01-22T00:00:00 35040,57909       45356(K1b5qhn)/P,41135(Kk7amd2)/S
```



## 18 April 2017 Rick's KSR-SKR-root Tests

```
2 2018-01-11T00:00:00 2018-02-01T00:00:00 57909 45356(K1b5qhn)/P,41135(Kk7amd2)/S
3 2018-01-21T00:00:00 2018-02-11T00:00:00 57909 45356(K1b5qhn)/P,41135(Kk7amd2)/S
4 2018-01-31T00:00:00 2018-02-21T00:00:00 57909 45356(K1b5qhn)/P,41135(Kk7amd2)/S
5 2018-02-10T00:00:00 2018-03-03T00:00:00 57909 45356(K1b5qhn)/P,41135(Kk7amd2)/S
6 2018-02-20T00:00:00 2018-03-13T00:00:00 57909 45356(K1b5qhn)/P,41135(Kk7amd2)/S
7 2018-03-02T00:00:00 2018-03-23T00:00:00 57909 45356(K1b5qhn)/P,41135(Kk7amd2)/S
8 2018-03-12T00:00:00 2018-04-02T00:00:00 57909 45356(K1b5qhn)/P,41135(Kk7amd2)/S
9 2018-03-22T00:00:00 2018-04-12T00:00:00 57909,08565 45356(K1b5qhn)/P,41135(Kk7amd2)/S
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f85533ba078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f85533ba148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f4d5e43a078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f4d5e43a148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fcd7bd98078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fcd7bd98148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
```

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```
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fbf25464078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fbf25464148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f7b36a79078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f7b36a79148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fa7d7ada078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fa7d7ada148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
```

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```
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f19128e4078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f19128e4148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fce208aa078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fce208aa148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f7eb0b76078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f7eb0b76148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
*** /home/lamb/github/ksrs/d_to_e/skr-root-2017-q4-0-d_to_e.xml ***
```

Key Roll  
HoHum

Starting: decodeskr /home/lamb/github/ksrs/d\_to\_e/skr-root-2017-q4-0-d\_to\_e.xml (at Tue Apr 18 21:17:40 2017 PST)

#	Inception	Expiration	ZSK Tags	KSK Tag (CKA_LABEL)
1	2017-10-01T00:00:00	2017-10-22T00:00:00	35040,09795	45356 (K1b5qhn) /P,41135 (Kk7amd2) /S
2	2017-10-11T00:00:00	2017-11-01T00:00:00	35040	45356 (K1b5qhn) /S,41135 (Kk7amd2) /P
3	2017-10-21T00:00:00	2017-11-11T00:00:00	35040	45356 (K1b5qhn) /S,41135 (Kk7amd2) /P
4	2017-10-31T00:00:00	2017-11-21T00:00:00	35040	45356 (K1b5qhn) /S,41135 (Kk7amd2) /P
5	2017-11-10T00:00:00	2017-12-01T00:00:00	35040	45356 (K1b5qhn) /S,41135 (Kk7amd2) /P
6	2017-11-20T00:00:00	2017-12-11T00:00:00	35040	45356 (K1b5qhn) /S,41135 (Kk7amd2) /P
7	2017-11-30T00:00:00	2017-12-21T00:00:00	35040	45356 (K1b5qhn) /S,41135 (Kk7amd2) /P
8	2017-12-10T00:00:00	2017-12-31T00:00:00	35040	45356 (K1b5qhn) /S,41135 (Kk7amd2) /P
9	2017-12-20T00:00:00	2018-01-10T00:00:00	35040,57909	45356 (K1b5qhn) /S,41135 (Kk7amd2) /P

```

dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fda40b50078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fda40b50148 .
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                   ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
zonefile.signed

```

```

dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f081be65078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f081be65148 .
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                   ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
zonefile.signed

```

```

dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f9f911de078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f9f911de148 .
dnssec-signzone: debug 1: calling free_rbtddb(.)
dnssec-signzone: debug 1: done free_rbtddb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040

```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe29650f078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe29650f148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f46ab26f078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f46ab26f148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f5b02d4e078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f5b02d4e148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7efe20816078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7efe20816148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:     rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f16ec069078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f16ec069148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:     rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f6315701078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f6315701148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:     signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:     rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
*** /home/lamb/github/ksrs/e_to_d/skr-root-2017-q4-1-e_to_d.xml ***
Starting: decodeskr /home/lamb/github/ksrs/e_to_d/skr-root-2017-q4-1-e_to_d.xml (at Tue Apr
18 21:17:40 2017 PST)
# Inception           Expiration           ZSK Tags             KSK Tag (CKA_LABEL)
1 2017-10-01T00:00:00 2017-10-22T00:00:00 35040,09795         45356(K1b5qhn)/P,41135(Kk7amd2)/S
2 2017-10-11T00:00:00 2017-11-01T00:00:00 35040               45356(K1b5qhn)/P,41135(Kk7amd2)/S
3 2017-10-21T00:00:00 2017-11-11T00:00:00 35040               45356(K1b5qhn)/P,41135(Kk7amd2)/S
4 2017-10-31T00:00:00 2017-11-21T00:00:00 35040               45356(K1b5qhn)/P,41135(Kk7amd2)/S
5 2017-11-10T00:00:00 2017-12-01T00:00:00 35040               45356(K1b5qhn)/P,41135(Kk7amd2)/S
6 2017-11-20T00:00:00 2017-12-11T00:00:00 35040               45356(K1b5qhn)/P,41135(Kk7amd2)/S
7 2017-11-30T00:00:00 2017-12-21T00:00:00 35040               45356(K1b5qhn)/P,41135(Kk7amd2)/S
8 2017-12-10T00:00:00 2017-12-31T00:00:00 35040               45356(K1b5qhn)/P,41135(Kk7amd2)/S
9 2017-12-20T00:00:00 2018-01-10T00:00:00 35040,57909         45356(K1b5qhn)/P,41135(Kk7amd2)/S
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f4992005078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f4992005148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe7f0617078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fe7f0617148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f47fab34078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f47fab34148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7efc05861078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7efc05861148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fde5d44f078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fde5d44f148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fae5247c078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fae5247c148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
```



## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f05102bf078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f05102bf148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fbd32845078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fbd32845148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+35040
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f500d7e4078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f500d7e4148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/35040
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41135 retained
```

## 18 April 2017 Rick's KSR-SKR-root Tests

Verifying the zone using the following algorithms: RSASHA256.

Zone fully signed:

Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked

ZSKs: 1 active, 1 present, 0 revoked

dnssec-signzone: debug 1: calling free\_rbtodb(.)

dnssec-signzone: debug 1: done free\_rbtodb(.)

zonefile.signed

\*\*\* /home/lamb/github/ksrs/e\_to\_e/skr-root-2018-q1-2-e\_to\_e.xml \*\*\*

Starting: decodeskr /home/lamb/github/ksrs/e\_to\_e/skr-root-2018-q1-2-e\_to\_e.xml (at Tue Apr 18 21:17:41 2017 PST)

#	Inception	Expiration	ZSK Tags	KSK Tag (CKA_LABEL)
1	2018-01-01T00:00:00	2018-01-22T00:00:00	35040,57909	45356(K1b5qhn)/S,41135(Kk7amd2)/P
2	2018-01-11T00:00:00	2018-02-01T00:00:00	57909	45356(K1b5qhn)/S,41135(Kk7amd2)/P
3	2018-01-21T00:00:00	2018-02-11T00:00:00	57909	45356(K1b5qhn)/S,41135(Kk7amd2)/P
4	2018-01-31T00:00:00	2018-02-21T00:00:00	57909	45356(K1b5qhn)/S,41135(Kk7amd2)/P
5	2018-02-10T00:00:00	2018-03-03T00:00:00	57909	45356(K1b5qhn)/S,41135(Kk7amd2)/P
6	2018-02-20T00:00:00	2018-03-13T00:00:00	57909	45356(K1b5qhn)/S,41135(Kk7amd2)/P
7	2018-03-02T00:00:00	2018-03-23T00:00:00	57909	45356(K1b5qhn)/S,41135(Kk7amd2)/P
8	2018-03-12T00:00:00	2018-04-02T00:00:00	57909	45356(K1b5qhn)/S,41135(Kk7amd2)/P
9	2018-03-22T00:00:00	2018-04-12T00:00:00	57909,08565	45356(K1b5qhn)/S,41135(Kk7amd2)/P

dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA\_KSRs/K.+008+57909

dnssec-signzone: debug 1: decrement\_reference: delete from rbt: 0x7f44fba7c078 .

dnssec-signzone: debug 1: decrement\_reference: delete from rbt: 0x7f44fba7c148 .

dnssec-signzone: debug 1: calling free\_rbtodb(.)

dnssec-signzone: debug 1: done free\_rbtodb(.)

dnssec-signzone: no existing signatures for ./NSEC

dnssec-signzone: ./NSEC:

dnssec-signzone: signing with dnskey ./RSASHA256/57909

dnssec-signzone: no existing signatures for ./SOA

dnssec-signzone: ./SOA:

dnssec-signzone: signing with dnskey ./RSASHA256/57909

dnssec-signzone: ./DNSKEY:

dnssec-signzone: rrsig by ./RSASHA256/45356 retained

Verifying the zone using the following algorithms: RSASHA256.

Zone fully signed:

Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked

ZSKs: 1 active, 1 present, 0 revoked

dnssec-signzone: debug 1: calling free\_rbtodb(.)

dnssec-signzone: debug 1: done free\_rbtodb(.)

zonefile.signed

dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA\_KSRs/K.+008+57909

dnssec-signzone: debug 1: decrement\_reference: delete from rbt: 0x7f44f86ca078 .

dnssec-signzone: debug 1: decrement\_reference: delete from rbt: 0x7f44f86ca148 .

dnssec-signzone: debug 1: calling free\_rbtodb(.)

dnssec-signzone: debug 1: done free\_rbtodb(.)

dnssec-signzone: no existing signatures for ./NSEC

dnssec-signzone: ./NSEC:

dnssec-signzone: signing with dnskey ./RSASHA256/57909

dnssec-signzone: no existing signatures for ./SOA

dnssec-signzone: ./SOA:

dnssec-signzone: signing with dnskey ./RSASHA256/57909

dnssec-signzone: ./DNSKEY:

dnssec-signzone: rrsig by ./RSASHA256/45356 retained

Verifying the zone using the following algorithms: RSASHA256.

Zone fully signed:

Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked

ZSKs: 1 active, 0 present, 0 revoked

dnssec-signzone: debug 1: calling free\_rbtodb(.)

dnssec-signzone: debug 1: done free\_rbtodb(.)

zonefile.signed

dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA\_KSRs/K.+008+57909

dnssec-signzone: debug 1: decrement\_reference: delete from rbt: 0x7f88de93c078 .

dnssec-signzone: debug 1: decrement\_reference: delete from rbt: 0x7f88de93c148 .

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7face7dc0078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7face7dc0148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f8cd5ad4078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f8cd5ad4148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7ff614555078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7ff614555148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fdeed7ad078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fdeed7ad148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fed2da97078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fed2da97148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f0a5c6ba078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f0a5c6ba148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
*** /home/lamb/github/ksrs/e_to_f/skr-root-2018-q1-0-e_to_f.xml ***
Starting: decodeskr /home/lamb/github/ksrs/e_to_f/skr-root-2018-q1-0-e_to_f.xml (at Tue Apr
18 21:17:42 2017 PST)
# Inception      Expiration      ZSK Tags      KSK Tag(CKA_LABEL)
1 2018-01-01T00:00:00 2018-01-22T00:00:00 35040,57909 45356(Klb5qhn)/S,41135(Kk7amd2)/P
2 2018-01-11T00:00:00 2018-02-01T00:00:00 57909 41263(Kk7amd2)/RS,45356(Klb5qhn)/S
3 2018-01-21T00:00:00 2018-02-11T00:00:00 57909 41263(Kk7amd2)/RS,45356(Klb5qhn)/S
4 2018-01-31T00:00:00 2018-02-21T00:00:00 57909 41263(Kk7amd2)/RS,45356(Klb5qhn)/S
5 2018-02-10T00:00:00 2018-03-03T00:00:00 57909 41263(Kk7amd2)/RS,45356(Klb5qhn)/S
6 2018-02-20T00:00:00 2018-03-13T00:00:00 57909 41263(Kk7amd2)/RS,45356(Klb5qhn)/S
7 2018-03-02T00:00:00 2018-03-23T00:00:00 57909 41263(Kk7amd2)/RS,45356(Klb5qhn)/S
8 2018-03-12T00:00:00 2018-04-02T00:00:00 57909 41263(Kk7amd2)/RS,45356(Klb5qhn)/S
9 2018-03-22T00:00:00 2018-04-12T00:00:00 57909,08565 45356(Klb5qhn)/S
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fb7d4898078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fb7d4898148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 1 stand-by, 0 revoked
                    ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f0f996a1078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f0f996a1148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/41263 retained
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 1 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
```

Revoke,  
Publish,  
Sign

Double KSK  
signature verified  
and retained

## 18 April 2017 Rick's KSR-SKR-root Tests

```
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fc1072ef078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fc1072ef148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41263 retained
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 1 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f18e3d80078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f18e3d80148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41263 retained
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 1 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f0de6750078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f0de6750148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41263 retained
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 1 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f291e0ed078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f291e0ed148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41263 retained
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 1 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f88b3dec078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f88b3dec148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41263 retained
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 1 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f26eec7c078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f26eec7c148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/41263 retained
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 1 revoked
                  ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
```

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```
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f07c9b54078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f07c9b54148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
*** /home/lamb/github/ksrs/f_to_g/skr-root-2018-q1-1-f_to_g.xml ***
Starting: decodeskr /home/lamb/github/ksrs/f_to_g/skr-root-2018-q1-1-f_to_g.xml (at Tue Apr
18 21:17:43 2017 PST)
#   Inception           Expiration           ZSK Tags             KSK Tag (CKA_LABEL)
1   2018-01-01T00:00:00 2018-01-22T00:00:00 35040,57909         45356(K1b5qhn)/S
2   2018-01-11T00:00:00 2018-02-01T00:00:00 57909                45356(K1b5qhn)/S
3   2018-01-21T00:00:00 2018-02-11T00:00:00 57909                45356(K1b5qhn)/S
4   2018-01-31T00:00:00 2018-02-21T00:00:00 57909                45356(K1b5qhn)/S
5   2018-02-10T00:00:00 2018-03-03T00:00:00 57909                45356(K1b5qhn)/S
6   2018-02-20T00:00:00 2018-03-13T00:00:00 57909                45356(K1b5qhn)/S
7   2018-03-02T00:00:00 2018-03-23T00:00:00 57909                45356(K1b5qhn)/S
8   2018-03-12T00:00:00 2018-04-02T00:00:00 57909                45356(K1b5qhn)/S
9   2018-03-22T00:00:00 2018-04-12T00:00:00 57909,08565         45356(K1b5qhn)/S
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f777d81a078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f777d81a148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f2dc0d98078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f2dc0d98148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
```



## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                   ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f40ab63a078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f40ab63a148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                   ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f006ae45078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f006ae45148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:   rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                   ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
  dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fac97d86078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fac97d86148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:   signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f9da9e3c078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f9da9e3c148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f700bdfb078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f700bdfb148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fa39fba4078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7fa39fba4148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone: signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone: rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
```

## 18 April 2017 Rick's KSR-SKR-root Tests

```
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                    ZSKs: 1 active, 0 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
    dnssec-signzone -v 3 -x -o . zonefile /home/lamb/github/ksrs/int/QA_KSRs/K.+008+57909
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f63e2890078 .
dnssec-signzone: debug 1: decrement_reference: delete from rbt: 0x7f63e2890148 .
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
dnssec-signzone: no existing signatures for ./NSEC
dnssec-signzone: ./NSEC:
dnssec-signzone:    signing with dnskey ./RSASHA256/57909
dnssec-signzone: no existing signatures for ./SOA
dnssec-signzone: ./SOA:
dnssec-signzone:    signing with dnskey ./RSASHA256/57909
dnssec-signzone: ./DNSKEY:
dnssec-signzone:    rrsig by ./RSASHA256/45356 retained
Verifying the zone using the following algorithms: RSASHA256.
Zone fully signed:
Algorithm: RSASHA256: KSKs: 1 active, 0 stand-by, 0 revoked
                    ZSKs: 1 active, 1 present, 0 revoked
dnssec-signzone: debug 1: calling free_rbtodb(.)
dnssec-signzone: debug 1: done free_rbtodb(.)
zonefile.signed
```