2.2 Check or Correct Versi

2.4 Key-Tags Tables

Data about esults of the di

3.2 Key-Signing Key (KSK) Generation

3.2

Zone	**ZSK**				**KSK**				**Exp**
	Tag	Size	Creat	S	Tag	Size	Creat	S	
zone.name					ksktag	1024	date		

Leave the status field (S) empty f [illegible]

3.4.4 W it for Old Zone D t to Expire from C che

Wait .4 $W

```
$
```

3.4.7

3.4.1 Dispose of the Old Zone Key

Delete the old ZSK's *.private* and *.key* files.

3.5 KSK Roll-Over

This section gives the steps necessa y fo the double-signatu e scheme fo ■S■ oll-ove . The alte native, the p e-publish method, is used fo olling ove ZS■s. Double signatu es fo eco ds signed by the ZS■ can inc ease the size of the zone many times. The p e-publish scheme, although equiing mo e steps fo the oll-ove , does not suffe f om this p oblem. The size a gument does not apply du ing ■S■ oll-ove since the D■S■EY RRset is the only eco d doubly signed by the ■S■.

3. .1 ■n ure th t ■ufficient Time h ■l p ed ■ince the L t Roll-Over

The time between oll-ove s has to be at least twice the maximum zone TTL pe iod. This is the la gest TTL in the enti e zone file multiplied by two.

3. .2 ener te Ne KSK

GK

;; ne

key that is marked as the Current key (C) in the key-tag table. Both Current KSK and the Published KSK must be simultaneously included in the *dnssec-signzone*

4 ormal Operation for Child Zone

This section desc ibes those no mal DNSSEC ope ations which a e Pevant f child zones. These ope ations a e:

- Signing a Zone that Has No Delegations
- C eating a Signed De egationni a Child Zone

```
                                      2          21    ; Inc ease cu   ent value by 1.
                                                      ; This value may be diffe ent
                                                      ; in you  zone file.
                ...
     )
    ...
    ;; k k
    $INCLUD■ “
```

4.1.7 Record

```
        ;;ANSWER SECTION

        zone.name      3600    INS       ...
 ...
$
```

5.1 Signing a Zone that Has Delegations

A zone needs to be re-signed when any change is made to it.

```
2         21    ; Inc ease cu  ent value by 1.
               ; This value may be diffe ent
               ; in you  zone
```

.1 KSK Roll-Over — KSK Compromise

The eme gency p ocedu es desc ibed fo key oll-ove use the ationale that injection of valid but false data

.2 ZSK Rol l

; in you zone file.

...

)

...

;; ksk

$INCLUDE “/path/to/Kzone.name.+005+ksktag.key”

;; cu zsk

$INCLUDE “/path/to/Kzone.name.+005+zsktag-cu .key”

~~;; pub z k~~

~~**$INCLUDE “/p th/to/Kzone .+ +z kt p-pub.key”**~~

;;

S

.1 KSK Roll-Over — Client Action During KSK

A.1.4 Current ZSK Roll Over

□ Ensu e that Sufficient Time has Elapsed Since the Last Roll-Ove

□ Sign Zone with the ZSK and ublished ZSK

□ Reload the Zone

□ Wait fo Old Zone Data to Expi e from Resolver Caches VU U VU UV VUVW UVUV

W Reload the Zone

□ S r

A.3 Normal Operat