KEY
(ksk)

SIG(KEY)

KEY
(zsk)
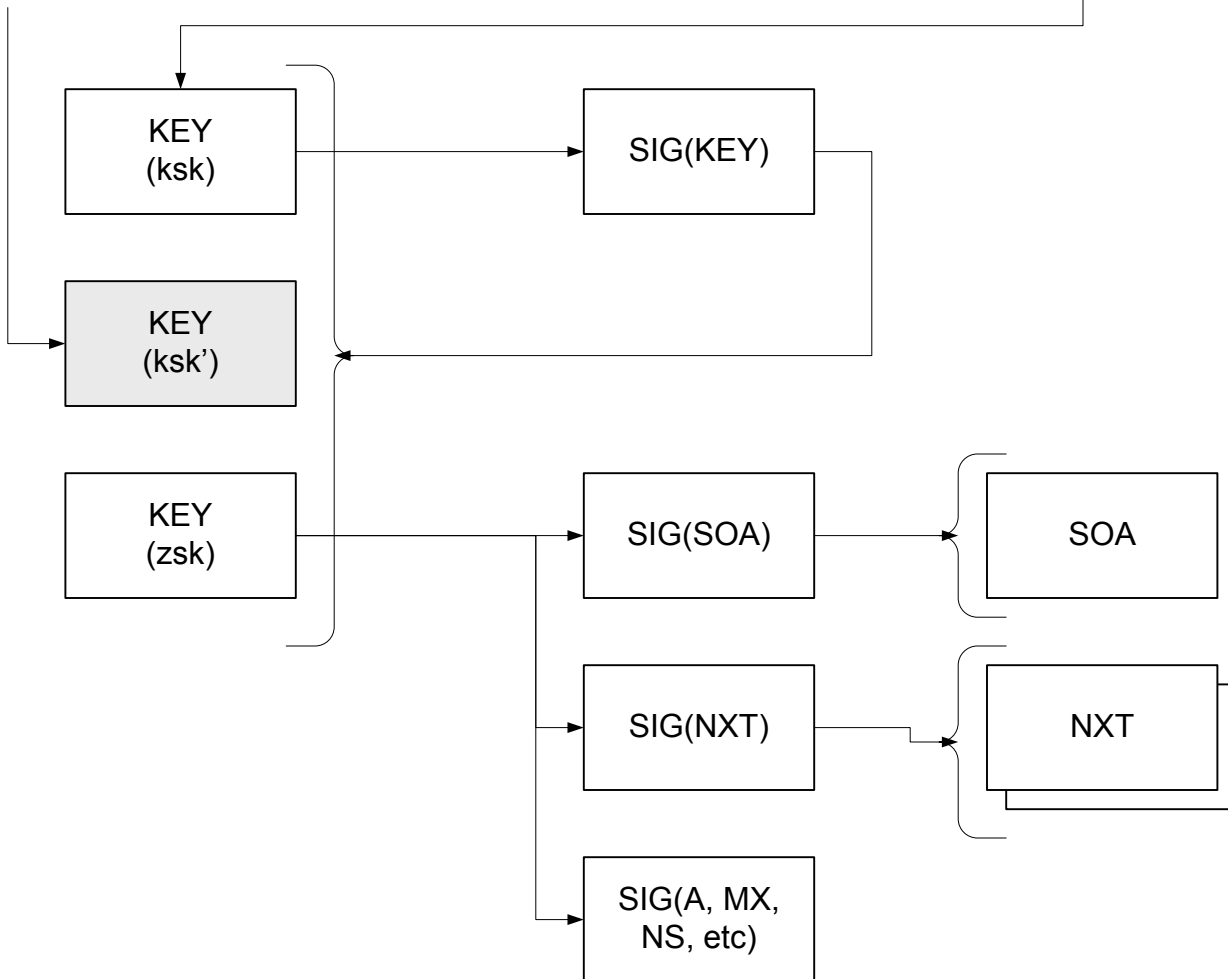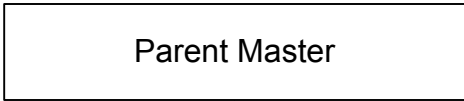
SIG(NXT)

NXT

SIG(DS)

DS

SIG(A, MX,
NS, etc)

Add a new Key
Signing Key to the
Child Domain. Re-
Sign the KEY RRSet
with the old KSK

KEY
(ksk)

SIG(KEY)

KEY
(ksk')

KEY
(zsk)

SIG(SOA)

SOA

SIG(NXT)

NXT

SIG(A, MX,
NS, etc)

```
┌─────────────────────────────────────────┐
│                                         │
│             Parent Master               │
│                                         │
└─────────────────────────────────────────┘
                    ▲
                    │
                    │
                    │
        NOTIFY (T_KEY), (SIG(0 ksk), KEY(ksk),
                    KEY(ksk'))

    Child sends a NOTIFY to the Parent Master which
    is authenticated (via (SIG(0) under the old KSK)
    which contains a type code T_KEY, and contains
    an additional (authoritative?) information section
    which includes KEY records for both the old and
                    new KSKs.

      This PARENT domain MAY, if policy allows,
   immediately create a new signed DS RRSet which
     covers ALL of the provided KEYs.  It MAY also
     wait to create the new DS RRSet until manual
        intervention by the zone operator.

                    │
                    │
                    │
┌─────────────────────────────────────────┐
│                                         │
│             Child Master                │
│                                         │
└─────────────────────────────────────────┘
```
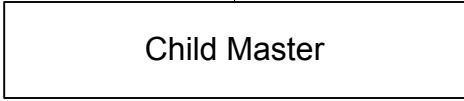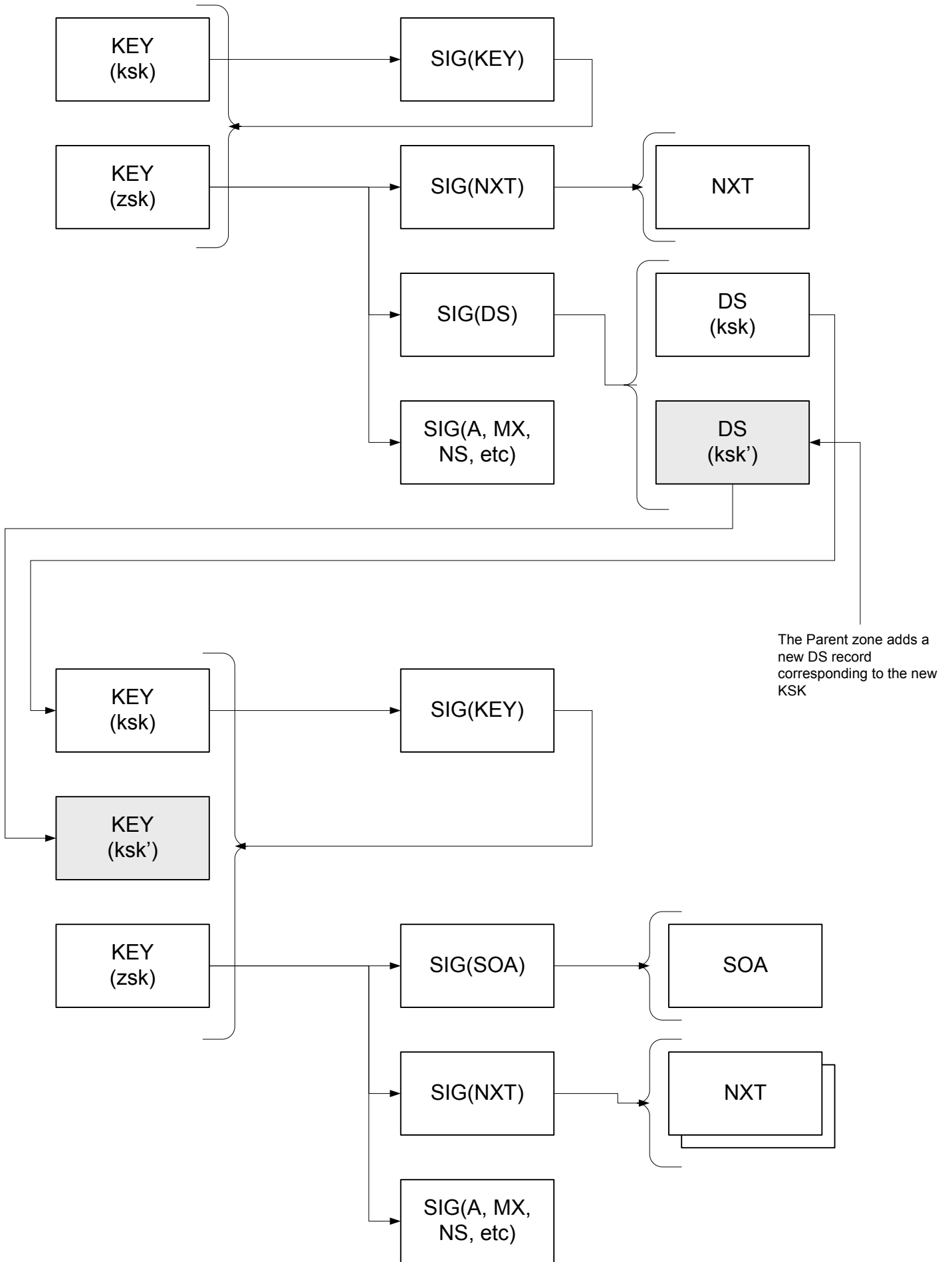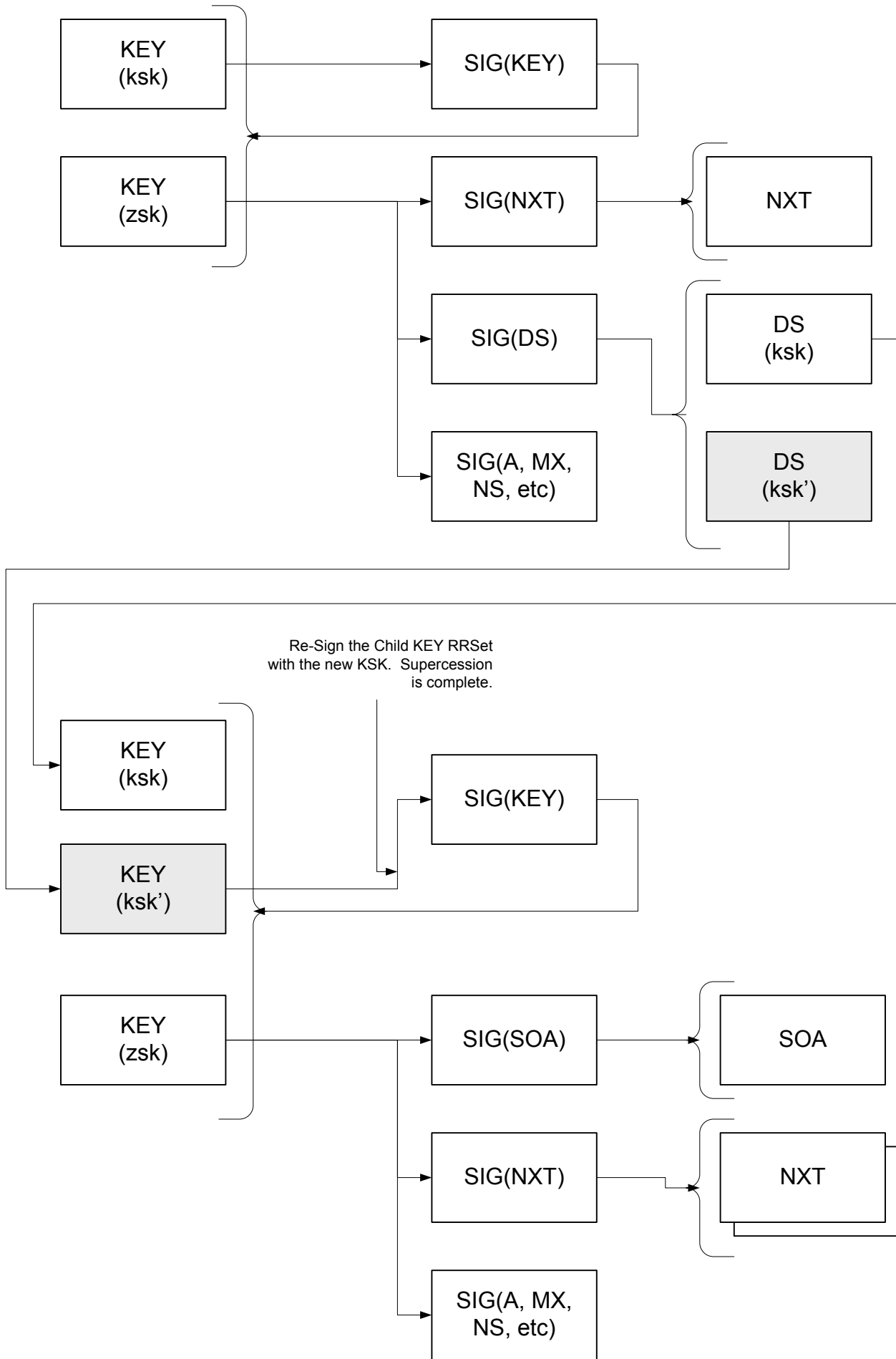
KEY (ksk)

SIG(KEY)

KEY (zsk)

SIG(NXT)

NXT

SIG(DS)

DS (ksk)

SIG(A, MX, NS, etc)

DS (ksk')

The Parent zone adds a new DS record corresponding to the new KSK

KEY (ksk)

SIG(KEY)

KEY (ksk')

KEY (zsk)

SIG(SOA)

SOA

SIG(NXT)

NXT

SIG(A, MX, NS, etc)

KEY
(ksk)

SIG(KEY)

KEY
(zsk)

SIG(NXT)

NXT

SIG(DS)

DS
(ksk)

SIG(A, MX,
NS, etc)

DS
(ksk')

Re-Sign the Child KEY RRSet
with the new KSK. Supercession
is complete.

KEY
(ksk)

SIG(KEY)

KEY
(ksk')

KEY
(zsk)

SIG(SOA)

SOA

SIG(NXT)

NXT

SIG(A, MX,
NS, etc)
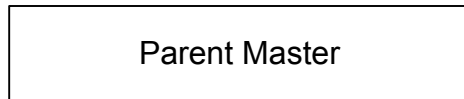
```
┌─────────────────────────────────┐
│                                 │
│         Parent Master           │
│                                 │
└─────────────────────────────────┘
                 ▲
                 │
                 │
    NOTIFY (T_KEY), (SIG(0 ksk'), KEY(ksk'))

   Child sends a NOTIFY to the Parent Master which
    is authenticated (via (SIG(0) under the new KSK)
    which contains a type code T_KEY, and contains
   an additional (authoritative?) information section
    which includes only the new KEY record for the
                       KSK.

      This PARENT domain MAY, if policy allows,
  immediately create a new signed DS RRSet which
     covers the provided KEY.  It MAY also wait to
        create the new DS RRSet until manual
           intervention by the zone operator.

     Simply put, this message describes the active
  KEY RRSet for the child zone and has the same
     format and processing rules as the Phase IIa
                     message.

                 │
                 │
┌─────────────────────────────────┐
│                                 │
│          Child Master           │
│                                 │
└─────────────────────────────────┘
```

KEY
(ksk)

SIG(KEY)

KEY
(zsk)

SIG(NXT)

NXT

SIG(DS)

DS
(ksk)

SIG(A, MX,
NS, etc)

DS
(ksk')

The old Parent DS and
Child KEY records may
be removed at any
time.

KEY
(ksk)

SIG(KEY)

If the NOTIFY method
is used, the old KSK
should be removed
before sending the
NOTIFY, and the old
DS should be removed
upon receipt

KEY
(ksk')

KEY
(zsk)

SIG(SOA)

SOA

SIG(NXT)

NXT

SIG(A, MX,
NS, etc)