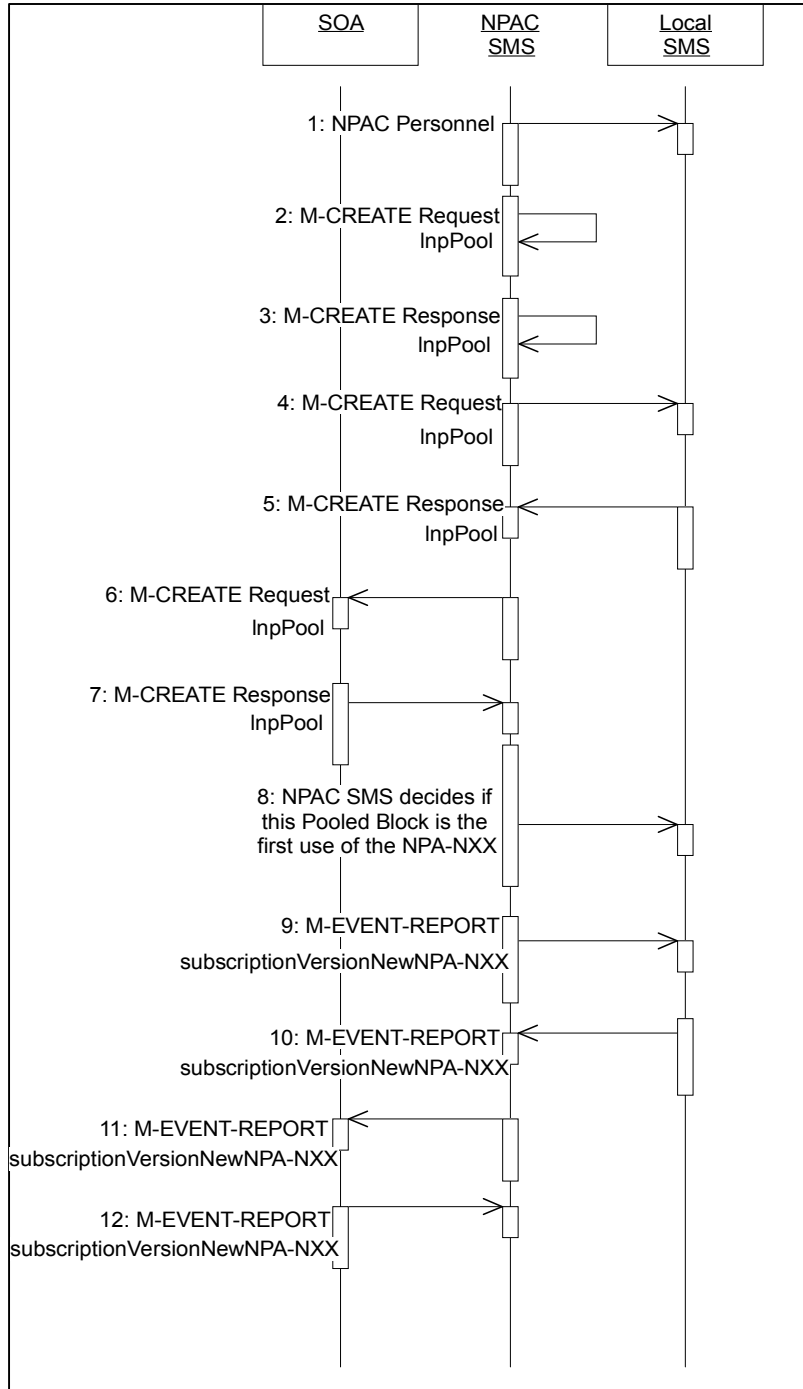# Number Pooling, Block Holder Information, IIS Flows

1. Create Block Holder Information
2. Modify Block Holder Information
3. Delete Block Holder Information
4. Query by SOA of Block Holder Information
5. Query by Local SMS of Block Holder Information

1.1.1    Number Pooling Block Holder Information Scenarios

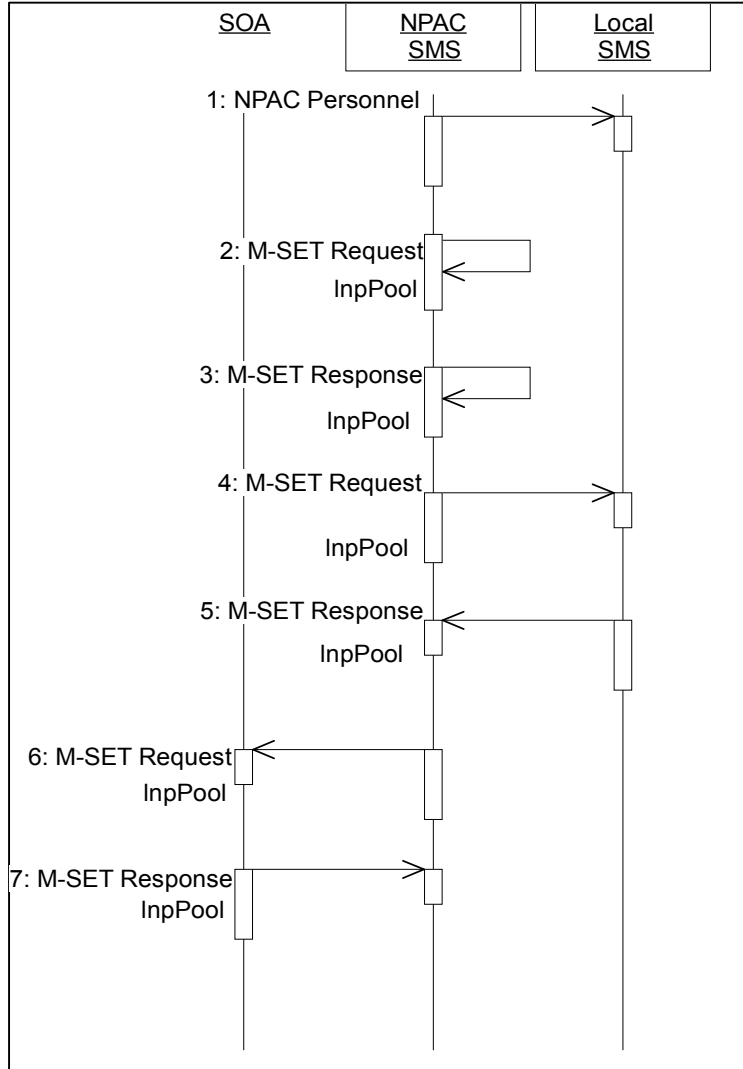1.1.1.1    Block Holder Information Creation by the NPAC

In this scenario, the NPAC SMS creates Number Pooling Block Holder information for a new pooled block.

| SOA | NPAC SMS | Local SMS |
|-----|----------|-----------|

1: NPAC Personnel

2: M-CREATE Request InpPool

3: M-CREATE Response InpPool

4: M-CREATE Request InpPool

5: M-CREATE Response InpPool

6: M-CREATE Request InpPool

7: M-CREATE Response InpPool

8: NPAC SMS decides if this Pooled Block is the first use of the NPA-NXX

9: M-EVENT-REPORT subscriptionVersionNewNPA-NXX

10: M-EVENT-REPORT subscriptionVersionNewNPA-NXX

11: M-EVENT-REPORT subscriptionVersionNewNPA-NXX

12: M-EVENT-REPORT subscriptionVersionNewNPA-NXX

a. Action is taken by the NPAC personnel to create a new pooled block in the Number Pooling Block Holder information table.

b. The NPAC SMS sends an M-CREATE request to itself in order to create a local lnpPool object.

c. The NPAC SMS receives the M-CREATE response indicating whether the lnpPool object was created successfully.

d. If the lnpPool object was created, the NPAC SMS sends an M-CREATE request to all Local SMS(s) for the lnpPool object.

e. The Local SMS(s) responds by sending an M-CREATE response indicating whether the lnpPool object was created successfully.

f. If the lnpPool object was created, the NPAC SMS sends an M-CREATE request to the SOA for the lnpPool object.

g. The SOA responds by sending an M-CREATE response indicating whether the lnpPool object was created successfully.

h. NPAC SMS decides if this Pooled Block is the first use of the NPA-NXX.

i. If this is the first use of the NPA-NXX, the NPAC SMS sends the subscriptionVersionNewNPA-NXX M-EVENT-REPORT to inform the accepting Local SMS(s).

j. The Local SMS(s) confirm the M-EVENT-REPORT.

k. If this is the first use of the NPA-NXX, the NPAC SMS sends the subscriptionVersionNewNPA-NXX M-EVENT-REPORT to inform the SOA.

l. The SOA confirms the M-EVENT-REPORT.

1.1.1.2    Block Holder Information Modification by the NPAC

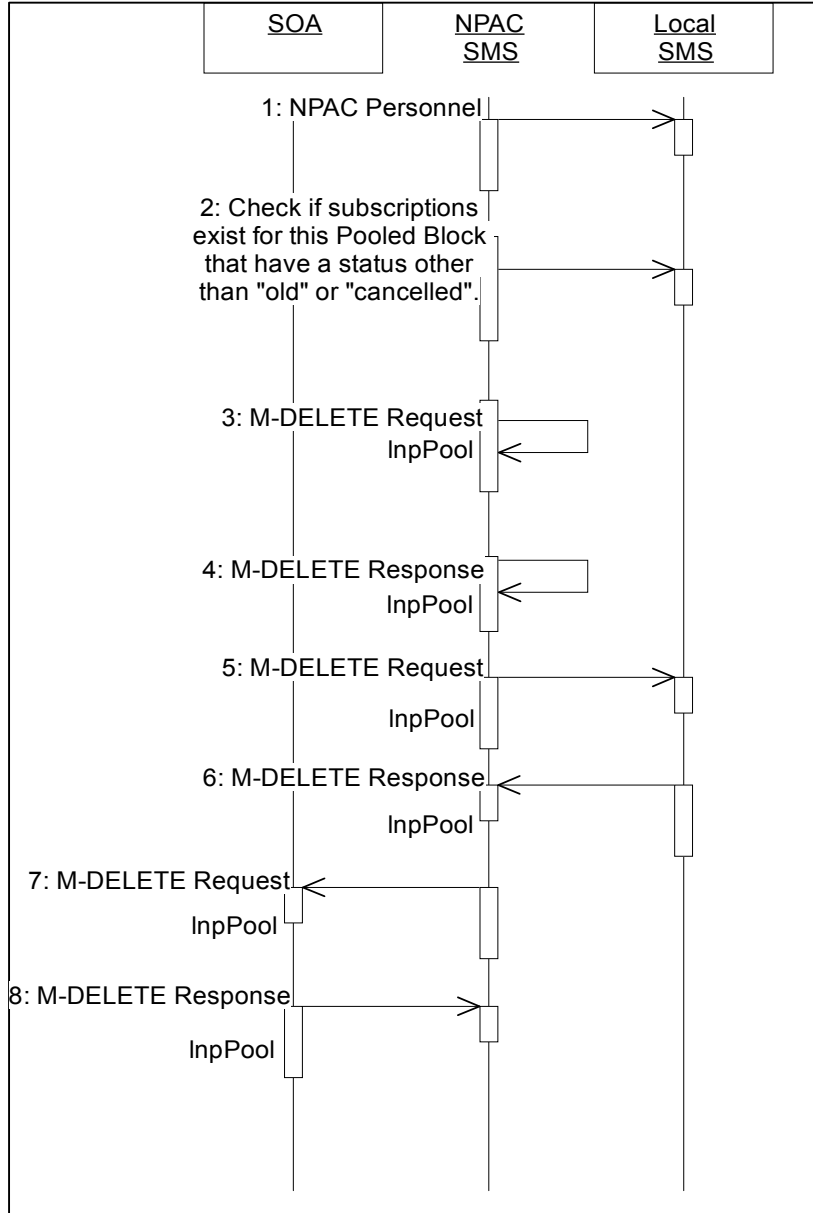In this scenario, the NPAC SMS modifies Number Pooling Block Holder information for a pooled block.



m.  Action is taken by the NPAC personnel to modify a pooled block in the Number Pooling Block Holder information table.

n.  The NPAC SMS sends an M-SET request to itself requesting that an lnpPool object be modified.

o.  The NPAC SMS receives the M-SET response indicating whether the lnpPool object was modified successfully.

p.  If the lnpPool object was modified, the NPAC SMS sends an M-SET request to all Local SMS(s) for the lnpPool object.

q.  The Local SMS(s) respond by sending an M-SET response indicating whether the lnpPool object was modified successfully.

r.  If the lnpPool object was modified, the NPAC SMS sends an M-SET request to the SOA for the lnpPool object.

s.  The SOA responds by sending an M-SET response indicating whether the lnpPool object was modified successfully.

## 1.1.1.3 Block Holder Information Deletion by the NPAC

In this scenario, the NPAC SMS deletes Number Pooling Block Holder information for a pooled block.

| | SOA | NPAC SMS | Local SMS |
|---|---|---|---|

1: NPAC Personnel

2: Check if subscriptions exist for this Pooled Block that have a status other than "old" or "cancelled".

3: M-DELETE Request
InpPool

4: M-DELETE Response
InpPool

5: M-DELETE Request
InpPool

6: M-DELETE Response
InpPool
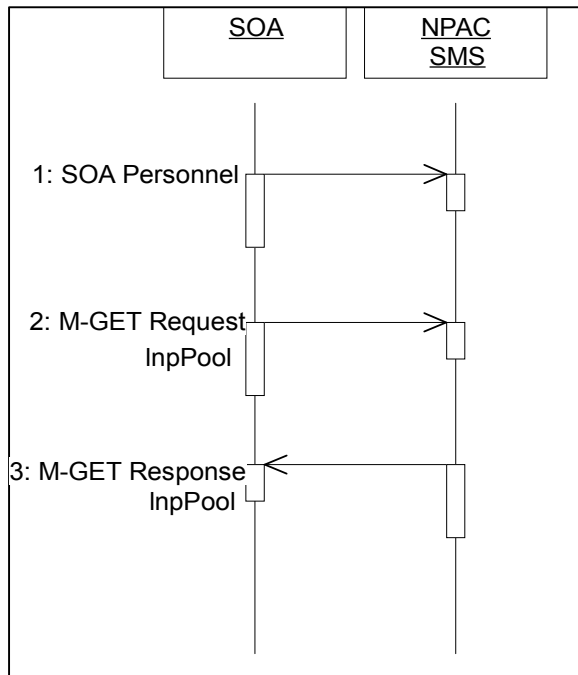
7: M-DELETE Request
InpPool

8: M-DELETE Response
InpPool

t. Action is taken by the NPAC SMS personnel to delete a pooled block in the Number Pooling Block Holder information table.

u. Check the subscription database to see if subscriptions exist with this Pooled Number Block that have a status other than "old" or "canceled." If so, terminate processing at this point.

v.  The NPAC SMS sends an M-DELETE request to itself in order to delete the local lnpPool object.

w.  The NPAC SMS receives the M-DELETE response indicating whether the lnpPool object was deleted successfully.

x.  If the lnpPool object was deleted, the NPAC SMS sends an M-DELETE request to all Local SMS(s) for the lnpPool object.

y.  The Local SMS(s) responds by sending an M-DELETE response indicating whether the lnpPool object was deleted successfully.

z.  If the lnpPool object was deleted, the NPAC SMS sends an M-DELETE request to the SOA for the lnpPool object.

aa. The SOA responds by sending an M-DELETE response indicating whether the lnpPool object was deleted successfully.
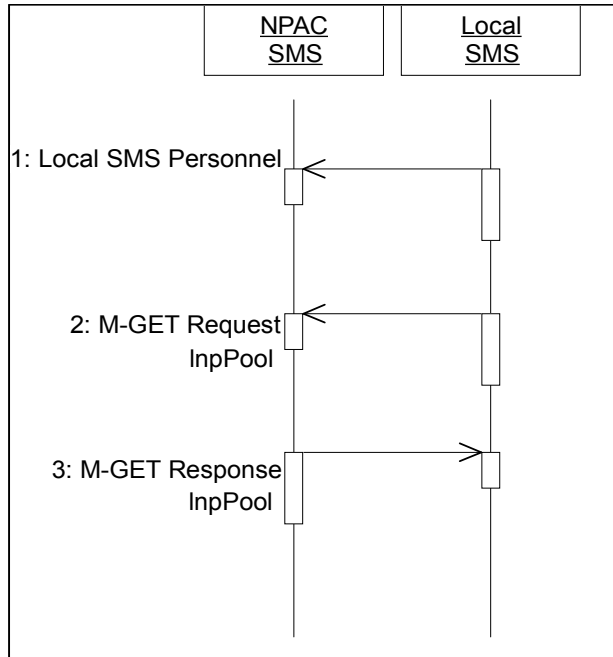
bb.

1.1.1.4     Block Holder Information Query by the SOA

In this scenario, the SOA queries Block Holder data.

```
                    ┌──────────────┬──────────────┐
                    │     SOA      │    NPAC      │
                    │              │    SMS       │
                    └──────┬───────┴──────┬───────┘
                           │              │
  1: SOA Personnel ┌───────┼──────────────►──┐
                   │       │              │  │
                   └───────┤              └──┘
                           │              │
  2: M-GET Request ┌───────┼──────────────►──┐
       lnpPool     │       │              │  │
                   └───────┤              └──┘
                           │              │
  3: M-GET Response┌───────◄──────────────┤  ┐
       lnpPool     └───────┤              │  │
                           │              └──┘
                           │              │
```

cc.   Action is taken by SOA personnel to query Block Holder information.

dd.   The SOA sends an M-GET request to the NPAC SMS for the lnpPool object.

ee.   The NPAC SMS responds by sending an M-GET response containing the data back to the SOA.

1.1.1.5    Block Holder Information Query by the Local SMS

In this scenario, the Local SMS queries Block Holder data.

```
              ┌──────────┬──────────┐
              │  NPAC    │  Local   │
              │  SMS     │   SMS    │
              └────┬─────┴────┬─────┘
                   │          │
1: Local SMS Personnel  ◄─────┤
                  ┌┴┐        ┌┴┐
                  └┬┘        └┬┘
                   │          │
    2: M-GET Request ◄────────┤
              lnpPool┌┴┐      ┌┴┐
                  └┬┘        └┬┘
                   │          │
   3: M-GET Response ────────►│
              lnpPool┌┴┐      ┌┴┐
                  └┬┘        └┬┘
                   │          │
```

ff.    Action is taken by Local SMS personnel to query Block Holder
        information.

gg.    The Local SMS sends an M-GET request to the NPAC SMS for the
        lnpPool object.

hh.    The NPAC SMS responds by sending an M-GET response
        containing the data back to the Local SMS.