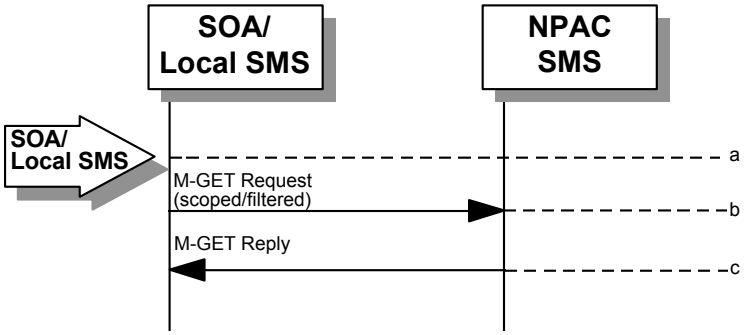
### 1.1.1 SubscriptionVersion Query (6.5.6)

This scenario shows subscriptionVersion query from service provider systems to the NPAC SMS.




a. Action is taken by either a service provider SOA or Local SMS for retrieving one or more versions of a subscription.

b. The service provider SOA or Local SMS issues a scoped filtered M-GET from the lnpSubscriptions object to retrieve a specific version for a subscription version TN or can request all subscription versions. However, the service provider SOA is limited by a scope and filter in their search capabilities. The filter will currently support all the attributes on the subscriptionVersionNPAC.

c. The NPAC SMS replies with the requested subscriptionVersion data if the requested number of records is less than or equal to "Max SubscriberQuery" specified in the NPAC SMS. Otherwise a complexityLimitation error will be returned.

0The query return data includes:

subscriptionTN
subscriptionLRN
subscriptionNewCurrentSP
subscriptionOldSP
subscriptionNewSP-DueDate
subscriptionNewSP-CreationTimeStamp
subscriptionOldSP-DueDate
subscriptionOldSP-Authorization
subscriptionOldSP-AuthorizationTimeStamp
subscriptionActivationTimeStamp
subscriptionBroadcastTimeStamp
subscriptionConflictTimeStamp
subscriptionCustomerDisconnectDate
subscriptionDisconnectCompleteTimeStamp
subscriptionEffectiveReleaseDate
subscriptionVersionStatus
subscriptionCLASS-DPC
subscriptionCLASS-SSN
subscriptionLIDB-DPC
subscriptionLIDB-SSN
subscriptionCNAM-DPC
subscriptionCNAM-SSN
subscriptionISVM-DPC
subscriptionISVM-SSN

subscriptionEndUserLocationValue
subscriptionEndUserLocationType
subscriptionBillingId
subscriptionLNPType
subscriptionPreCancellationStatus
subscriptionCancellationTimeStamp
subscriptionOldTimeStamp
subscriptionModifiedTimeStamp
subscriptionCreationTimeStamp
subscriptionOldSP-CancellationTimeStamp
subscriptionNewSP-CancellationTimeStamp
subscriptionOldSP-ConflictResolutionTimeStamp
subscriptionNewSP-ConflictResolutionTimeStamp
subscriptionPortingToOriginal-SPSwitch
subscriptionFailedSP-List
subscriptionDownloadReason

1Subscription Versions with and LNP Type of POOL will be returned if they match the query selection criteria.

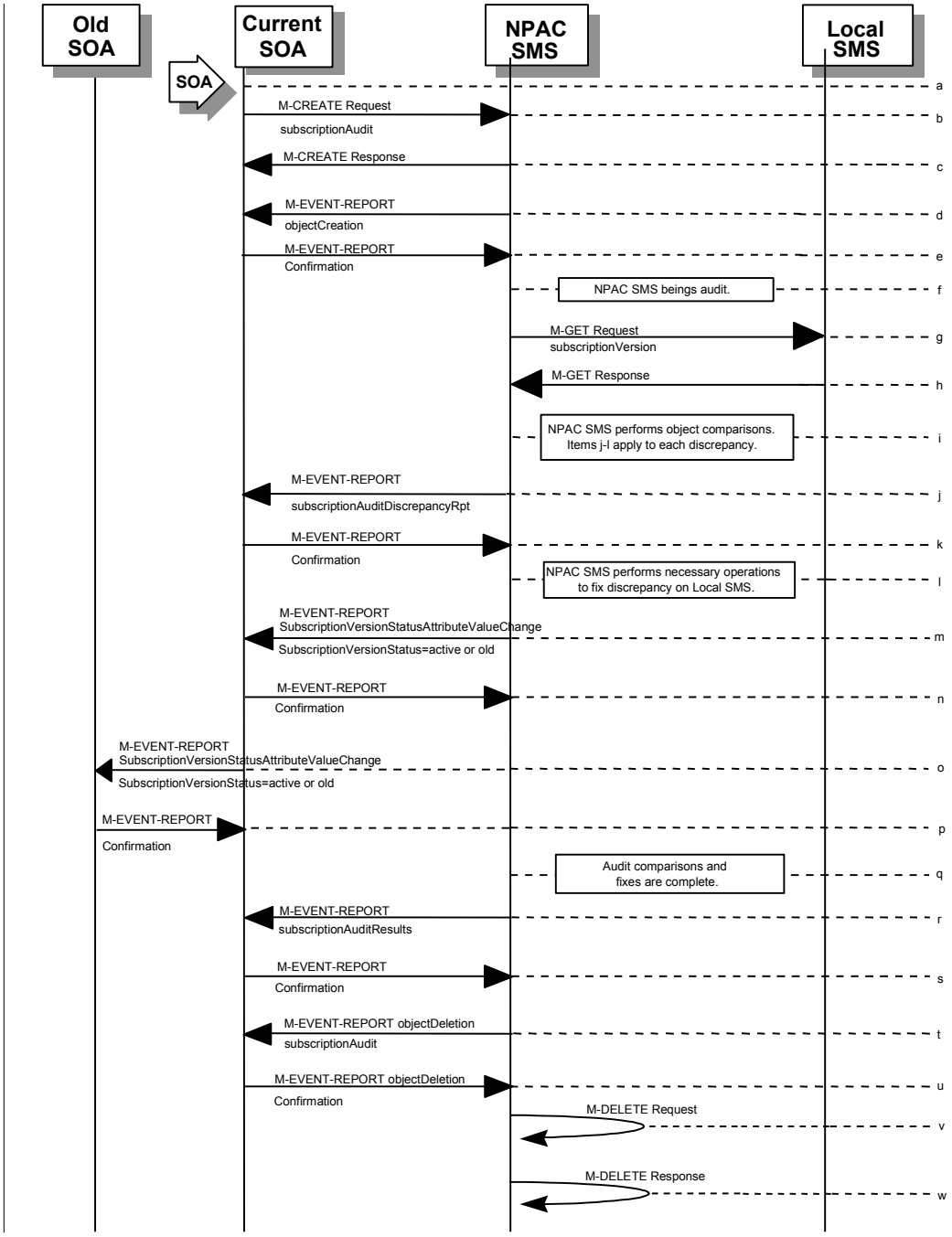
2

**1.2**

## 1.1 Audit Scenarios (6.2)

### 1.2.1 1.1.1 SOA Initiated Audit (6.2.1)

In this scenario, the SOA initiates an audit to the NPAC SMS due to suspected subscription version discrepancies.




d. Action is taken by SOA personnel to start an audit due to suspected network discrepancies.

e. The SOA sends a M-CREATE request to the NPAC SMS, requesting an audit. The SOA must specify the following attributes in the request:

**subscriptionAuditName** - English audit name
**subscriptionAuditRequestingSP** - the service provider requesting the audit
**subscriptionAuditServiceProvIdRange** - which service provider or all service providers for audit
**subscriptionAuditTN-Range** - TNs to be audited

3If these attributes are not specified, then the create will fail with a missingAttributesValue error. The SOA may also specify the following attributes in the request:

**subscriptionAuditAttributeList** - subscription version attributes to be audited
**subscriptionAuditTN-ActivationRange** - time range of activation for subscription versions to be audited

4The subscriptionAuditId and the subscriptionAuditStatus will be determined by the NPAC SMS. If any values are deemed invalid, an invalidArgumentValue error will be returned. **NOTE**: The subscriptionAuditTN-Range will be limited based on the maximum range size specified in the NPAC SMS. If the limit specified is exceeded, the create request will fail with an invalidAttributeValue error.

c. Once the NPAC SMS creates the audit request object, it sends an M-CREATE response back to the SOA that initiated the request.

d. NPAC SMS sends M-EVENT-REPORT to the service provider SOA for the subscriptionAudit creation.

e. The service provider SOA confirms the M-EVENT-REPORT.

f. NPAC SMS begins audit.

g. NPAC SMS issues a scoped and filtered M-GET for the subscription versions in the audit, to all LSMS's accepting downloads for the NPA-NXX of the subscription version.

h. Local SMS returns M-GET query data.

i. NPAC SMS performs the necessary comparisons of each subscription version object.

j. If a discrepancy is found, NPAC SMS issues a subscriptionAuditDiscrepancyRpt M-EVENT-REPORT.

k. Service provider SOA confirms the M-EVENT-REPORT.

l. If a discrepancy is found, NPAC SMS issues the necessary operation to the Local SMS to correct the discrepancy (M-CREATE, M-DELETE, or M-SET).

m. If any corrections were issued to any Local SMSs, the NPAC SMS will send M-EVENT-REPORT to the service provider SOA of the subscriptionVersionStatus change and a list of failed Local SMSs (minus any recently updated Local SMSs that no longer contains a discrepancy). Notifications for subscription versions with LNP Type of POOL will be suppressed.

n. The service provider SOA confirms the M-EVENT-REPORT.

o. If any corrections were issued to any Local SMSs, the NPAC SMS will send M-EVENT-REPORT to the old service provider SOA of the subscriptionVersionStatus change and a list of failed Local SMSs (minus any recently updated Local SMSs that no longer contains a discrepancy). Notifications for subscription versions with LNP Type of POOL will be suppressed.

p. The old service provider SOA confirms the M-EVENT-REPORT.

q. NPAC SMS has completed the audit comparisons and corrections.

r. NPAC SMS issues the subscriptionAuditResults M-EVENT-REPORT to the service provider SOA.

s. The Service provider SOA confirms the M-EVENT-REPORT.

t. The NPAC SMS then sends an objectDeletion M-EVENT-REPORT to the SOA for the subscriptionAudit object.

u. The service provider SOA confirms the M-EVENT-REPORT.

v. The NPAC SMS issues a local M-DELETE request for the subscriptionAudit object to/from the NPAC SMS. This will attempt to delete the subscriptionAudit object on the NPAC SMS.

w. The M-DELETE response is received on the NPAC SMS indicating whether the subscriptionAudit object was deleted successfully.

**1.3 1.2**

**Miscellaneous (6.7)**

1.3.1 1.2.1 Sequencing of Events on Initialization/Resynchronization of Local SMS (6.7.1)

If the resynchronization flag is TRUE upon association establishment, the NPAC SMS will hold updates to the Local SMS until the flag is turned off. At that time all updates issued since the association establishment will be sent.

If any of the requests in this scenario fail, the Local SMS must correct the problem - retry the action instead of continuing.

No diagram changed.

f. Local SMS establishes association with resynchronization flag on.

g. Local SMS sends M-ACTION to start network data download. The Local SMS specifies the start time.

h. NPAC SMS responds to M-ACTION with updates.

i. Local SMS sends M-ACTION to start subscription data download. The Local SMS specifies the start time.

j. NPAC SMS responds to M-ACTION with subscription version updates.

k. Local SMS sends M-ACTION to set resynchronization flag off.

l. NPAC SMS replies with data updates since association establishment.

m. If any corrections were issued to the resyncing Local SMS, the NPAC SMS will send M-EVENT-REPORT to the service provider SOA of the subscriptionVersionStatus change and a list of failed Local SMSs (minus the resyncing Local SMS that no longer contains a discrepancy). Notifications for subscription versions with LNP Type of POOL will be suppressed.

n.

o. The service provider SOA confirms the M-EVENT-REPORT.

p. If any corrections were issued to the resyncing Local SMS, the NPAC SMS will send M-EVENT-REPORT to the old service provider SOA of the subscriptionVersionStatus change and a list of failed Local SMSs (minus the resyncing Local SMS that no longer contains a discrepancy). Notifications for subscription versions with LNP Type of POOL will be suppressed.

q. The old service provider SOA confirms the M-EVENT-REPORT.

r. Normal processing resumes.

s.

t.

u.