Figure 8.6.4.1.2.1-1: General procedure to support network status report between oneM2M and 3GPP network

Step-1: CRUD Request

AE can send CRUD Request to retrieve network status with providing Location Area, Duration, Threshold.

Step-2: CRUD Response

The IN-CSE sends a Response to the AE to acknowledge acceptance of the Request.

Step-3: Request for network status

The IN-CSE sends an Request message to the NSE including Location Area, Duration, Threshold. Duration indicates the time for which a continuous reporting is requested. The absence of Duration indicates a one-time reporting. The IN-CSE, based on operator policies, may chose a different Threshold value than the one indicated by the AE in step 1.
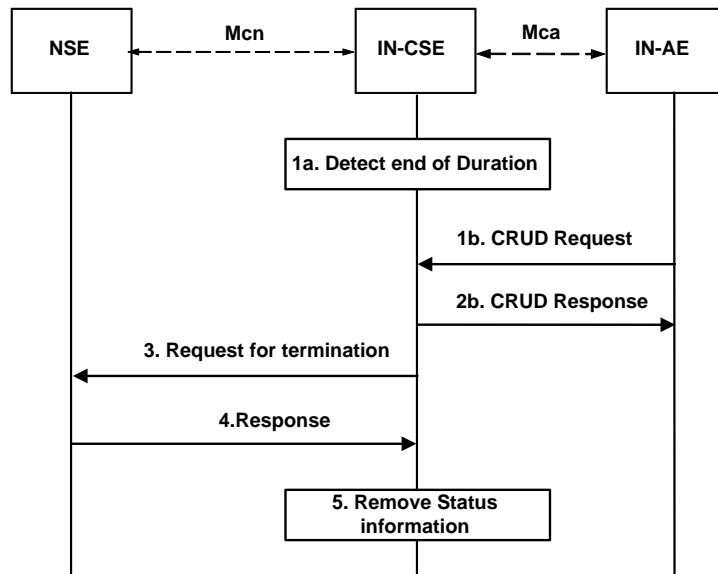
Step-4: Report network status

The NSE sends an one-time or continuous Report to the IN-CSE including depending on the operator configuration and current NSE knowledge, the congestion status for radio access network belonging to the Location Area requested by the IN-CSE.

8.6.4.1.2.2   Removal procedure for continuous reporting of network status

This procedure is used for termination of the continuous reporting of network status. It can be triggered by the AE at any time before the Duration is over. The IN-CSE will trigger this procedure when the Duration is over.
Figure 8.6.4.1.2.2-1 illustrates the procedure.

**Figure 8.6.4.1.2.2-1: General procedure to support network status report
between oneM2M and 3GPP network**

Step-1a: Detect end of duration

The IN-CSE detects that the requested Duration for an ongoing continuous reporting of network status is over.

Step-1b: CRUD Request

When the AE needs to terminate an ongoing continuous reporting of network status, the AE sends a Request message to the IN-CSE.

Step-2b: CRUD Response

If the AE requested to terminate an ongoing continuous reporting of network status in step 1b, the IN-CSE sends a Response message to the AE.

Step-3: Request for termination

The IN-CSE sends a Request message to the NSE to an ongoing continuous reporting of network status.

Step-4: Response

The NSE removes the related instructions and stops monitoring the radio access network belonging to the Location Area for a change in the congestion status. Afterwards, the Response is sent to the IN-CSE.

Step-5: Remove status information

The IN-CSE removes all network status information related to this continuous reporting.

History

Publication history		
V2.0.0	30-Aug-2016	Publication