**Source:** TSG SA WG2 (S2-023289)
**Title:** WID on End-to-end QoS – Phase 2: Policy based control of Diffserv Edge Functions
**Agenda Item:** 7.2.3

## Work Item Description

**Title**

End-to-end QoS – Phase 2: Policy based control of Diffserv Edge Functions

**1 3GPP Work Area**

|   |   |
|---|---|
|   | Radio Access |
| X | Core Network |
|   | Services |

**2 Linked work items**

*This work is linked to the following WIDs:*
*a) End-to-end QoS concepts and architecture (E2E-QoS – 2557 – R5)*
*b) Dynamic Policy control enhancements for end-to-end QoS (QoS1 - 32017)*
*c) Interoperability and Commonality between IP Multimedia Systems using different "IP connectivity networks"*

**3 Justification**

In Release 5, stage2 specifications (3GPP TS 23.207) have defined the use of policy-based control of Diffserv Edge function. During the stage 3 work several concerns have emerged around the details of this functionality. Eventually, due to the lack of time to complete stage 3 on time for Release 5, this functionality was removed from Release 5.

**4 Objective**

The objectives of this work item are to:
- Resolve the concerns and open items that have emerged around the dynamic Diffserv control function. Clarify and further elaborate on the requirements in 23.207 in order to allow Stage 3 work on policy-based contol of Diffserv Edge Functions to be completed.

- Identify any further enhancements which should be studied in order to improve the value of policy based control of Diffserv.

The proposed time plan is outlined below. It should be copied into, and maintained within, the 3GPP Work Plan.

**5 Service Aspects**

None identified.

**6 MMI-Aspects**

None identified.

**7        Charging Aspects**

Charging improvements have been suggested during Release 5 discussions as one item which would make policy-based control of Diffserv functions more useful to operators. It is expected that if such charging improvements are identified, they will be covered by their own work item.

**8        Security Aspects**

None identified.

**9        Impacts**

| Affects: | UICC | ME | AN | CN | Others |
|----------|------|----|----|----|--------|
| **Yes** |  | ? |  | X |  |
| **No** | X |  | X |  |  |
| **Don't know** |  |  |  |  |  |

**10            Expected Output and Time scale (to be updated at each plenary)**

| New specifications | | | | | | |
|---|---|---|---|---|---|---|
| Spec No. | Title | Prime rsp. WG | 2ndary rsp. WG(s) | Presented for information at plenary# | Approved at plenary# | Comments |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Affected existing specifications** | | | | | | |
| Spec No. | CR | Subject | | Approved at plenary# | Comments | |
| 23.207 |  | Clarifications of policy-based Diffserv requirements as required | | March 2003 |  | |
|  |  |  | |  |  | |
|  |  |  | |  |  | |
|  |  |  | |  |  | |
|  |  |  | |  |  | |

**11            Work item raporteurs**

Mark Watson (Nortel) – mwatson@nortelnetworks.com

**12            Work item leadership**

SA2

**13            Supporting Companies**

Nortel Networks, SK Telecom, AWS, T-mobile

**14            Classification of the WI (if known)**

|  | Feature (go to 14a) |
|---|---|
| x | Building Block (go to 14b) |
|  | Work Task (go to 14c) |

**14a    The WI is a Feature: List of building blocks under this feature**

**14b    The WI is a Building Block: parent Feature**

- QoS improvements (32016)

**14c    The WI is a Work Task: parent Building Block**