Source:	**TSG CN WG3**
Title:	**WID for Gq interface specification for Dynamic Policy control enhancements**
Agenda item:	**9.19**
Document for:	**APPROVAL**

3GPP TSG-CN WG3 Meeting #28   **Tdoc N3-030427**
San Diego, USA, 19th-23rd May 2003

Work Item Description

Title: **Gq interface specification for Dynamic Policy control enhancements – stage-3**

1   3GPP Work Area

	Radio Access
X	Core Network
X	Services

2   Linked work items

SA2:   Dynamic Policy control enhancements for end-to-end QoS – feasibility study
SA2:   Gq interface specification for Dynamic Policy control enhancements – stage-2

3   Justification

The service-based local policy control provides a way to manage the access network through dynamic policies. The IMS uses a policy decision function (PDF) that is a logical entity of the P-CSCF, applicable only for IMS and tightly linked to the SIP session control.

In order to enable a generic service policy to be applied to both IMS and non-IMS services, TSG-SA WG2 has studied the possibility of standardizing the interface between the PDF and application entities (e.g. P-CSCF in the IM domain), known as the Gq interface, for release 6 within their work items "Dynamic Policy control enhancements for end-to-end QoS – feasibility study" (refer to TR 23.917) and are defining the relevant architecture and requirements within their work item "Gq interface specification for Dynamic Policy control enhancements – stage-2" (refer to TS 23.207).

The purpose of this work item is to specify the Gq interface in detail.

4   Objective

The objective of this work item is to produce a technical specification (TS) that defines the Gq interface on a stage-3 level, based on the requirements defined for the Rel-6 TS 23.207 by SA2 within their work item "Gq interface specification for Dynamic Policy control enhancements – stage-2".

5   Service Aspects

Yes, the new architecture defined by SA2 enables new service aspects being defined in SA1.

6   MMI-Aspects

No

7   Charging Aspects

Yes, Gq enables charging correlation for services other than IMS.

8   Security Aspects

Yes, the Gq interface is specified to reside also between different domains or networks, hence relevant security implications need to be specified.

9   Impacts

Affects:	UICC	UE	AN	CN	Others
Yes			X		
No	X		X		
Don't know		X			

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
TS 29.xxx	Policy control over Gq interface	CN3		CN#22 (12/03)	CN#23 (03/04)	A new TS for the interface between AF/P-CSCF and PDF.
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
29.208		End-to-end Quality of Service (QoS) signalling flows		CN#23 (03/04)		The TS shall be updated to cover the Gq interface.
29.207		Policy control over Go interface		CN#23 (03/04)		The separation of PDF from P-CSCF may have an impact on TS 29.207.
24.228		Signalling flows for the IP multimedia call control based on SIP and SDP; Stage 3		CN#23 (03/04)		The separation of PDF from P-CSCF may have an impact on TS 24.228.

11   **Work item rapporteurs**

    Anna Sillanpää, Nokia

12   **Work item leadership**

    CN3

13   **Supporting Companies**

    Nokia, Nortel, Siemens, Orange

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

	Feature (go to 14a)
	Building Block (go to 14b)
X	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

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

   32017 FS on Dynamic Policy control enhancements for end-to-end QoS