

**Title:** Proposed WID for a FS on Dynamic Policy control enhancements for end-to-end QoS

**Source:** SA2

**Agenda item:** 7.2.3

**For:** Approval

### Work Item Description

**Title:** Dynamic Policy control enhancements for end-to-end QoS - feasibility study

**1** **3GPP Work Area**

	Radio Access
X	Core Network
X	Services

**2** **Linked work items**

No rel6 linked work item identified so far.

**3** **Justification**

The service-based local policy control provides a way to manage the access network through dynamic policies over the Go interface.

The release 5 IMS work uses a policy control function (PCF) that is only applicable for IMS and tightly linked to the SIP session control. This does not enable a generic service policy to be applied to both IMS and non-IMS services.

Within Release 5 the PCF is shown as being a logical entity of the P-CSCF. This was agreed upon because some companies felt defining another standardized interface was not possible in release 5 for time-constraints. It was agreed that any consideration of standardising the interface between the PCF and application proxies (e.g. P-CSCF in the IM domain) would be pushed back to release 6.

Thus, the purpose of this work item is to start a feasibility study towards standardising the interface between the PCF and application proxies (e.g. P-CSCF in the IM domain).

This work item will study and investigate how the policy control used in for IMS can interact with the appropriate IMS and non-IMS application servers.

**4 Objective**

The objective of this work item is to investigate on the feasibility of the interface between the PCF and application proxies (e.g. P-CSCF in the IM domain):

- Enable general policy control over IP bearer resources and SIP services to evolve separately.
- Enable more flexibility in engineering and policy control of IP bearer resources.
- De-couple policy functions from IMS entities.

The feasibility study will determine the requirements and concepts involved in this work.

**5 Service Aspects**

Yes

**6 MMI-Aspects**

No

**7 Charging Aspects**

No

**8 Security Aspects**

Yes

**9 Impacts**

Affects :	USIM	ME	AN	CN	Others
Yes				X	
No	X	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
TR 23. XYZ	Technical Report on Dynamic Policy Control Enhancements for End-to-End QoS	SA2		SA#16	SA#17	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	

Existing SA2 specifications dealing with end-to-end QoS, general architecture and IMS, may be impacted.

CN3 Policy control specification work may be impacted. A new interface specification may need to be created.

**11 Work item raporteurs**

Claire Mousset, Nortel Networks

**12 Work item leadership**

SA2

**13 Supporting Companies**

Nortel Networks, AWS, BT, France Telecom, Hutchison 3G

**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 (to be created)

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