

**Source:** TSG SA WG2  
**Title:** Updated WID for a FS on Dynamic Policy control enhancements for end-to-end QoS  
**Agenda Item:** 7.2.3

**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.~~

TBD	IMS Stage 2 enhancements	WG SA2	TBD		TBD
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**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~~ entities (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~~ entities (e.g. P-CSCF in the IM domain).

This work item ~~will study~~ studies and investigates how the policy control is used ~~in~~ for IMS ~~can~~ and interacts 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~~ entities (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~~ Yes

**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. <del>XYZ917</del>	<del>Technical Report on</del> Dynamic Policy Control Enhancements for End-to-End Quality of Service (QoS); Feasibility Study	SA2		<del>SA#16</del> SA#18 (12/02)	<del>SA#18</del> SA#19 (03/03)	
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, ~~BTO2~~, 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