Technical Specification Group Services and System Aspects
Meeting #19, Birmingham, UK, 17-20 March 2003

TSGS#19(03)0043

Source: **SA5 (Telecom Management)**

Title: **Rel-5 CR 32.101 (Telecommunication management; Principles and high level requirements) : Align QoS Terminology with SA2's 23.207 & CN3's 29.207**

Document for: **Approval**

Agenda Item: **7.5.3**

Doc-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Doc-2nd-Level	Workitem
SP-030043	32.101	021	-	Rel-5	**Align QoS Terminology with SA2's 23.207 & CN3's 29.207**	F	5.2.0	S5-032130	OAM-AR

3GPP TSG-SA5 (Telecom Management) **S5-032130**
Meeting #33, Phoenix, AZ, USA, 24-28 February 2003

CR-Form-v7

CHANGE REQUEST

⌘ **32.101** **CR** **021** ⌘ **rev** **-** ⌘ Current version: **5.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network **X** Core Network **X**

Title:	⌘	Align QoS Terminology with SA2's 23.207 & CN3's 29.207
Source:	⌘	S5
Work item code:	⌘	OAM-AR
Date:	⌘	28/02/2003
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	To align with TS 23.207 and 23.907 by replacing the term Policy Control Function (PCF) by the term Policy Decision Function (PDF) and to correct inaccurate statements regarding TS 23.207 and 23.907.
Summary of change:	⌘	Replace Policy Control Function (PCF) by Policy Decision Function (PDF) wherever the term was used. Correct inaccurate statements regarding TS 23.207 and 23.907
Consequences if not approved:	⌘	TS 32.101 will not be aligned with TS 23.207 and 23.907 in relation to Quality of Service Terminology.

Clauses affected:	⌘	3.2 Abbreviations, D.2.4 Policy Decision Point

	Y	N		
Other specs affected: ⌘		X	Other core specifications	⌘
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:

Change in Clause 3.2

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

API	Application Programming Interface
ASN.1	Abstract Syntax Notation One
ATM	Asynchronous Transfer Mode
B2B	Business to Business
B-ISDN	Broadband ISDN
BOOTP	Boot protocol
CLI	Command Line Interface
CMIP	Common Management Information Protocol
CMIP/GDMO	Common Management Information Protocol/Guidelines for the Definition of Managed Objects
COPS	Common Open Policy Service
COPS-PR	COPS Usage for Policy Provisioning
CORBA IIOP	Common Object Request Broker Architecture Internet Inter-ORB Protocol
CORBA	Common Object Request Broker Architecture
CORBA/IDL	Common Object Request Broker Architecture/Interface Definition Language
DCN	Data Communications Network
DECT	Digital Enhanced Cordless Telecommunications
DHCP	Dynamic Host Configuration Protocol
DNS	Directory Name Service
DSS1	Digital Subscriber System 1
EM	Element Manager
EMS	Element Management System
FFS	For Further Study
FTAM	File Transfer Access and Management
FTP	File Transfer Protocol
ftp	FTP
GDMO	Guidelines for the Definition of Managed Objects
GGSN	Gateway GPRS Support Node
Go interface	The interface between the GGSN and the Policy Decision Function (PDF)
GSM	Global System for Mobile communications
HLR	Home Location Register
HSS	Home Subscriber Server
IDL	Interface Definition Language
IETF	Internet Engineering Task Force
IIOP	Internet Inter-ORB Protocol
IN	Intelligent Network
INAP	Intelligent Network Application Part
IRP	Integration Reference Point
IS	Information Service
ISDN	Integrated Services Digital Network
LDAP	Lightweight Directory Access Protocol
LDUP	LDAP Duplication/Replication/Update Protocols
LLA	Logical Layered Architecture
MAP	Mobile Application Part
MExE	Mobile Execution Environment
MIB	Management Information Base
MMI	Man-Machine Interface
NM	Network Manager
NMS	Network Management System
NRM	Network Resource Model
OS	Operations System
OSI	Open Systems Interconnection

OSS	Operations Support System
PDCF	Policy Decision ~~Control~~ Function
PDH	Plesiochronous Digital Hierarchy
PDP	Policy Decision Point
PIB	Policy Information Base
PKI	Public Key Infrastructure
PSTN	Public Switched Telephone Network
QoS	Quality of Service
RNC	Radio Network Controller
RSVP	Resource ReserVation Protocol
SDH	Synchronous Digital Hierarchy
SLA	Service Level Agreement
SNMP	Simple Network Management Protocol (IETF)
SNMP/SMI	SNMP/Structure of Management Information
SOM	Service Operations Management
SS	Solution Set
SS7	Signalling System No. 7
TCP/IP	Transmission Control Protocol/ Internet Protocol
tftp	trivial ftp
TM	Telecom Management
TMF	TeleManagement Forum
TMN	Telecommunications Management Network (ITU-T)
TOM	Telecom Operations Map (TMF)
UML	Unified Modelling Language
UMTS	Universal Mobile Telecommunication System
UPT	Universal Personal Telecommunication
USIM	Universal Subscriber Identity Module
UTRA	Universal Terrestrial Radio Access
VHE	Virtual Home Environment

End of Change in Clause 3.2

Change in Clause Annex D.2.4

D.2.4 Policy Decision Point

~~The description given in this clause is taken from TS 23.207 (see D.4 QoS Management Reference [22]) and TS 29.207 (see D.4 QoS Management Reference [23]). If there are any inconsistencies then the definitions in 23.207 and 29.207 take precedence.~~

~~NOTE: The 3GPP Term Policy Control Function (PCF) used in 23.207 and 29.207 is equivalent to the IETF Term Policy Decision Point.~~

The Policy Decision Point is the point in the network at which policy decisions are made for the Policy Enforcement Points under its scope of control. Whereas the Policy Enforcement Point is a function within a network node, the Policy Decision Point is separate functional entity that may reside within a separate Policy Server, for example, on an application server. The Policy Decision Point will make decisions based on the policy information held within the Policy Repository.

The Policy Decision Point provides the following functions:

- Retrieval of Policy Information from the policy repository

- Evaluates the policy information retrieved and decides what actions needs to taken.
- Distributes policy data to the Policy Enforcement Points. This distribution can either be sent to the PEP by the Policy Decision Point or the Policy Decision Point can wait for the PEP to request the information.
- Translation from QoS policy schema employed by the policy servers to Policy Information Base (PIB) format employed by the Policy Enforcement Points.
- Optional real-time policy decision-making function.
- Local policy conflict detection

The optional real-time policy decision-making function may be required when dynamic policy decisions **must** be made in response to current network conditions.

NOTE: The 3GPP Term Policy Decision Function (PDF) used in 23.207 and 29.207 is equivalent to the IETF Term Policy Decision Point.

TS 23.207 describes the End-to-end Quality of Service (QoS) concept and architecture, and TS 29.207 describes Policy control over Go interface (see D.4 QoS Management Reference [22]) and TS 29.207 (see D.4 QoS Management Reference [23]). If there are any inconsistencies then the definitions in 23.207 and 29.207 take precedence.

End of Change in Annex D.2.4

Change in Clause Annex D.2.5

D.2.5 Policy Enforcement Point

~~The description given in this clause is taken from TS 23.207 (see D.4 QoS Management Reference [22]) and TS 29.207 (see D.4 QoS Management Reference [23]). If there are any inconsistencies then the definitions in 23.207 and 29.207 take precedence.~~

The Policy Enforcement Point is a function that is part of a Network Element that **must** implement the policies defined by the policy administration system(s).

The Policy Enforcement Point provides the following functions:

- Storage of policy-related data locally.
- Execution of policies as network conditions dictate.
- Support for the Differentiated Services QoS mechanism (diffserv).

On initialization, the Policy Enforcement Point will contact its parent Policy Decision Point and request download of any policy data that it requires for operation. Note that information such as the address of the parent Policy Decision Point function **must** be provisioned in the Policy Enforcement Point MIB as part of normal network provisioning.

TS 23.207 describes the End-to-end Quality of Service (QoS) concept and architecture, and TS 29.207 describes Policy control over Go interface (see D.4 QoS Management Reference [22]) and TS 29.207 (see D.4 QoS Management Reference [23]). If there are any inconsistencies then the definitions in 23.207 and 29.207 take precedence.

End of Change in Annex D.2.5
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