
Source: SA5 (Telecom Management)
Title: Rel-6 TS 32.172 Subscription Management (SuM) Network Resource Model (NRM) IRP Information Service
Document for: Approval
Agenda Item: 7.5.3

Presentation of Specification to TSG SA

Presentation to: TSG SA Meeting #26
Document for presentation: TS 32.172, Version 2.6.0
Presented for: Approval

Abstract of document:

This TS defines the Network Resources Model (NRM) Information Service for the Subscription Management Resources Integration Reference Point (IRP).

Work is done against the WID contained in SP-040763 was SP-020448 (Work Item ID: SuM).

This is a member of a TS-family currently consisting of:

3GPP TS 32.171: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements".

3GPP TS 32.172: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)".
--

3GPP TS 32.175: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions".

Changes since last presentation to TSG Meeting #25:

- Trace parameters have been made optional and read-only.
- Diagrams have been aligned with 3GPP TS 32.151.
- Temporary HSS Subscriber Data are only allocated in the user's Service Profile(s).
- Alignment to TS 23.008 for permanent, conditional and temporary subscriber data.
- Alignment to TS 23.008 for grouping into service specific Service Profiles.
- Assignment of the attributes directly to the SuM Object Classes.

Outstanding Issues:

- Supplementary services are not yet covered in the specification.
- The modelling of object classes for service specific parameters may be refined.

Contentious Issues: None.

3GPP TS 32.172 V2.0.0 (2004-12)

Technical Specification

**3rd Generation Partnership Project;
Technical Specification Group Services and System Aspects;
Telecommunication management;
Subscription Management (SuM) Network Resource Model
(NRM) Integration Reference Point (IRP):
Information Service (IS)
(Release 6)**



The present document has been developed within the 3rd Generation Partnership Project (3GPPTM) and may be further elaborated for the purposes of 3GPP.

The present document has not been subject to any approval process by the 3GPP Organizational Partners and shall not be implemented. This Specification is provided for future development work within 3GPP only. The Organizational Partners accept no liability for any use of this Specification. Specifications and reports for implementation of the 3GPPTM system should be obtained via the 3GPP Organizational Partners' Publications Offices.

Keywords

subscription management

3GPP

Postal address

3GPP support office address

650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet

<http://www.3gpp.org>

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© 2004, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TTA, TTC).
All rights reserved.

Contents

Foreword.....	5
Introduction	5
1 Scope	6
2 References	6
3 Definitions and abbreviations.....	6
3.1 Definitions.....	6
3.2 Abbreviations	6
4 Compliance rules.....	7
5 Modelling approach.....	7
6 Information Object Classes	7
6.1 Imported information entities and local labels	7
6.2 Class diagram	7
6.2.1 Attributes and relationships	7
6.2.2 Inheritance	8
6.3 Information Object Class definitions	9
6.3.1 SuMService	9
6.3.1.1 Definition	9
6.3.1.2 Attributes.....	10
6.3.2 CSService.....	10
6.3.2.1 Definition	10
6.3.2.2 Attributes.....	11
6.3.2.3 Attribute constraints	11
6.3.3 PSService.....	12
6.3.3.1 Definition	12
6.3.3.2 Attributes.....	12
6.3.3.3 Attribute constraints	12
6.3.4 IMSService	13
6.3.4.1 Definition	13
6.3.4.2 Attributes.....	13
6.3.4.3 Attribute constraints	13
6.3.5 SuMSubscribedService.....	13
6.3.5.1 Definition	13
6.3.5.2 Attributes.....	13
6.3.6 CSSubscribedService	14
6.3.6.1 Definition	14
6.3.6.2 Attributes.....	15
6.3.6.3 Attribute constraints	15
6.3.7 PSSubscribedService	16
6.3.7.1 Definition	16
6.3.7.2 Attributes.....	16
6.3.7.3 Attribute constraints	16
6.3.8 IMSSubscribedService.....	17
6.3.8.1 Definition	17
6.3.8.2 Attributes.....	17
6.3.8.3 Attribute constraints	17
6.3.9 SuMSubscriberProfile.....	17
6.3.9.1 Definition	17
6.3.9.2 Attributes.....	18
6.3.10 SuMSubscriptionProfile.....	18
6.3.10.1 Definition	18
6.3.10.2 Attributes.....	18

6.3.10.3	Attribute constraints	18
6.3.11	SuMServiceProfile.....	18
6.3.11.1	Definition	18
6.3.11.2	Attributes.....	18
6.3.12	CSServiceProfile	19
6.3.12.1	Definition	19
6.3.12.2	Attributes.....	20
6.3.12.3	Attribute constraints	21
6.3.13	PSServiceProfile	22
6.3.13.1	Definition	22
6.3.13.2	Attributes.....	23
6.3.13.3	Attribute constraints	24
6.3.14	IMSServiceProfile.....	24
6.3.14.1	Definition	24
6.3.14.2	Attributes.....	25
6.3.14.3	Attribute constraints	25
6.3.15	ServiceProviderFunction	25
6.3.15.1	Definition	25
6.3.15.2	Attributes.....	25
6.3.16	SubscriptionFunction.....	25
6.3.16.1	Definition	25
6.3.16.2	Attributes.....	26
6.4	Information relationship definitions	26
6.4.1	Agreement.....	26
6.4.1.1	Definition	26
6.4.1.2	Roles	26
6.4.1.3	Constraints	26
6.4.2	Description.....	26
6.4.2.1	Definition	26
6.4.2.2	Roles	26
6.4.2.3	Constraints	26
6.5	Information attribute definitions.....	27
6.5.1	Definitions and legal values.....	27
Annex A (informative):	Change history	31

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x the first digit:

- 1 presented to TSG for information;
- 2 presented to TSG for approval;
- 3 or greater indicates TSG approved document under change control.

y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The interface Itf-N, defined in 3GPP TS 32.102 [2], is built up by a number of Integration Reference Points (IRPs) and a related Name Convention, which realise the functional capabilities over this interface. The basic structure of the IRPs is defined in 3GPP TS 32.101 [1] and 3GPP TS 32.102 [2].

The present document is part of a TS-family covering the 3rd Generation Partnership Project: Technical Specification Group Services and System Aspects; Telecommunication management, as identified below:

- | | |
|-------------------|---|
| TS 32.140: | "Subscription Management (SuM) requirements". |
| TS 32.141: | "Subscription Management (SuM) architecture". |
| TS 32.171: | "Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements". |
| TS 32.172: | "Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)". |
| TS 32.175: | "Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions". |

1 Scope

The present document defines the Network Resources Model (NRM) for the SuM IRP.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".

[2] 3GPP TS 32.102: "Telecommunication management; Architecture".

[3] 3GPP TS 32.140: "Telecommunication management; Subscription Management (SuM) Requirements".

[4] 3GPP TS 32.141: "Telecommunication management; Subscription Management (SuM) Architecture."

[5] 3GPP TS 32.171: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements".

[6] 3GPP TS 32.622: "Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)".

[7] 3GPP TS 23.008: "Organization of subscriber data".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply. For terms and definitions not found here, please refer to 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], 3GPP TS 32.140 [3] and TS 32.141 [4].

Subscription Profile: see 3GPP TS 32.140 [3].

Subscription Profile Component: see 3GPP TS 32.140 [3].

Subscription Profile Component Definition: specifies a Subscription Profile Component.

Subscriber Profile: see 3GPP TS 32.140 [3].

3.2 Abbreviations

For the purposes of the present document the following and the abbreviations in 32.101 [1], 32.102 [2], 32.140 [3] and 32.141 [4] apply.

EM	Element Manager
IOC	Information Object Class
IRP	Integration Reference Point
MOC	Managed Object Class
NE	Network Element
SuM	Subscription Management

4 Compliance rules

The following defines the meaning of Mandatory and Optional IOC attributes and associations between IOCs, in Solution Sets to the IRP defined by the present document.

Solution Sets to the SuM IRP:

- The IRPManager shall support all Mandatory attributes/associations. The IRPManager shall be prepared to receive information related to Mandatory as well as Optional attributes/associations without failure; however the IRPManager does not have to support handling of the Optional attributes/associations.
- The IRPAgent shall support all Mandatory attributes/associations. It may support Optional attributes/associations.

An IRPAgent that incorporates vendor-specific extensions shall support normal communication with a 3GPP SA5-compliant IRPManager with respect to all Mandatory and Optional Managed Object Classes (MOCs), attributes, associations, operations, parameters and notifications without requiring the IRPManager to have any knowledge of the extensions.

5 Modelling approach

The modelling approach adopted and used in this IRP is described in 3GPP TS 32.622 [6].

6 Information Object Classes

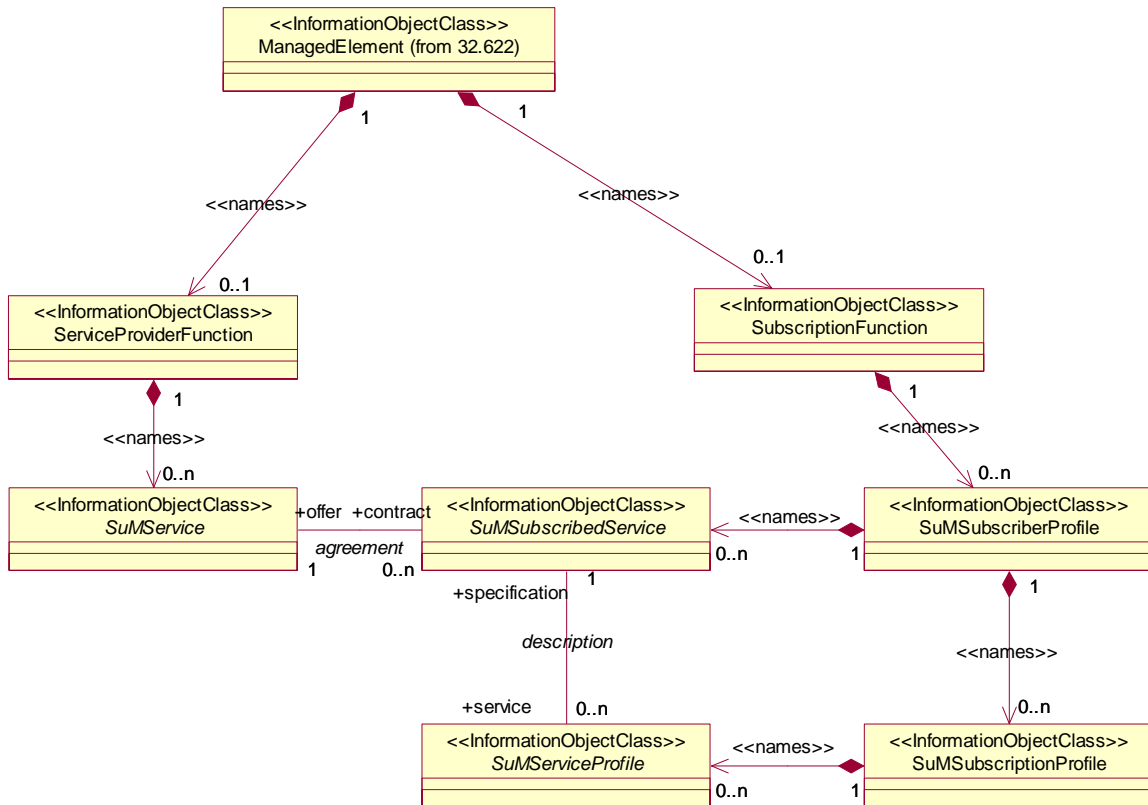
6.1 Imported information entities and local labels

Label reference	Local label
32.622 [6], information object class, ManagedFunction	ManagedFunction
32.622 [6], information object class, ManagedElement	ManagedElement

6.2 Class diagram

6.2.1 Attributes and relationships

This clause depicts the set of IOCs that encapsulate information relevant for this service. This sub-clause provides the overview of all information object classes in UML. Subsequent clauses provide more detailed specification of various aspects of these Information Object Classes (IOCs).



NOTE: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.

Figure 1: SuM NRM Containment/Naming and Association diagram

6.2.2 Inheritance

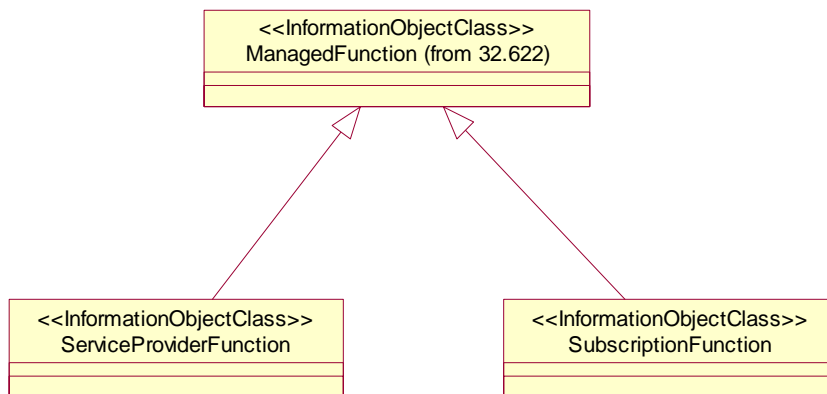


Figure 2a: SuM NRM Inheritance Hierarchy 1

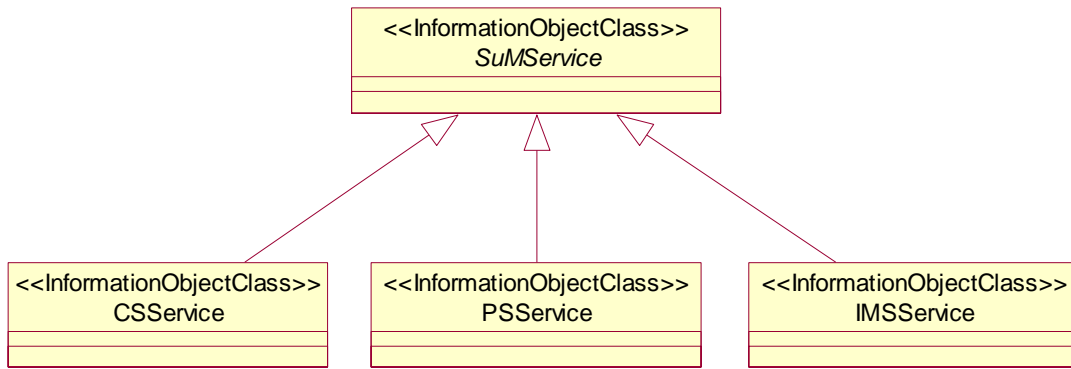


Figure 2b: SuM NRM Inheritance Hierarchy 2

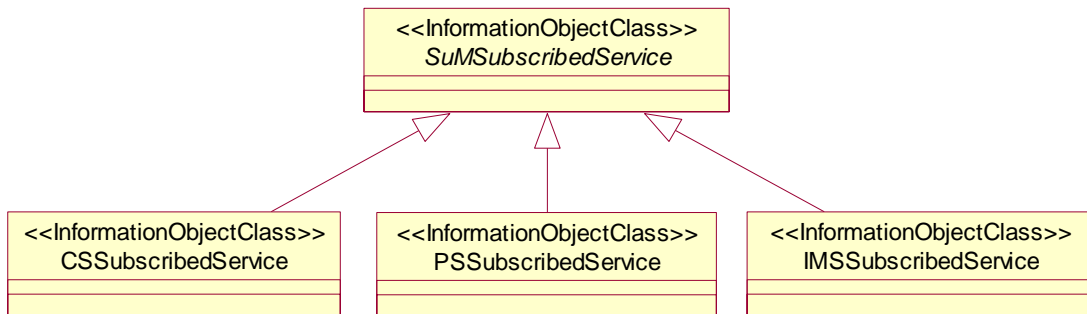


Figure 2c: SuM NRM Inheritance Hierarchy 3

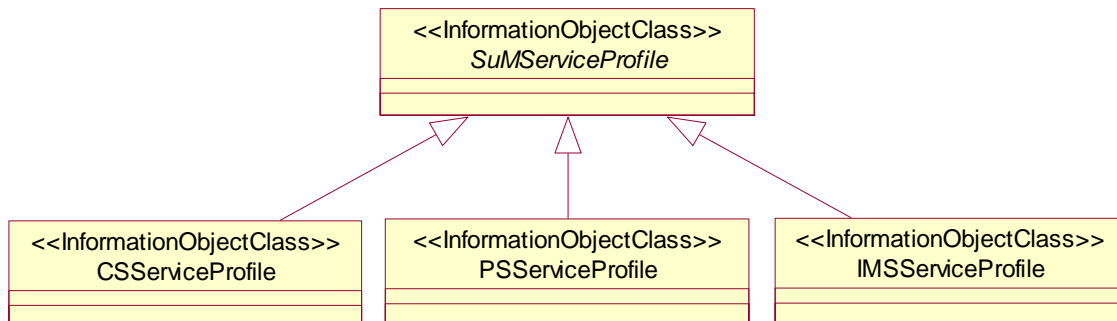


Figure 2d: SuM NRM Inheritance Hierarchy 4

6.3 Information Object Class definitions

6.3.1 SuMService

6.3.1.1 Definition

This is an abstract IOC provided for sub-classing only. It provides attribute(s) that are common to Services IOCs.

6.3.1.2 Attributes

Attributes of SuMService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
agreement-contract	+	M	M	O

6.3.2 CSService

6.3.2.1 Definition

In this management context:

- a) This class represents a CS service (see 3GPP TS 23.008 [7]) provided by a service provider
- b) This class contains the valid parameters that define the CS service from subscription point of view.

6.3.2.2 Attributes

Attributes of CSService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cSServiceId	+	M	M	-
networkAccessMode	+	M	M	M
basicMSISDNIndicator	+	O	M	M
mSISDNAlertIndicator	+	O	M	M
subscriptionRestriction	+	O	M	M
rSZIlists	+	O	M	M
lSAIdentity	+	O	M	M
lSAPriority	+	O	M	M
lSAPreferentialAccessIndicator	+	O	M	M
lSAActiveModeSupportIndicator	+	O	M	M
lSAOnlyAccessIndicator	+	O	M	M
lSAActiveModeIndicator	+	O	M	M
vPLMNIIdentifier	+	O	M	M
accessRestrictionData	+	O	M	M
privacyExceptionList	+	O	M	M
gMLCNumbers	+	O	M	M
mOLRLList	+	O	M	M
serviceTypes	+	O	M	M
mobileStationCategory	+	M	M	M
lMUIIdentifier	+	M	M	M
subscriptionRestriction	+	M	M	M
subscriberStatus	+	M	M	M
gsmSCFAddresslistForODB	+	M	M	M
provisionOfBearerService	+	M	M	M
provisionOfTeleservice	+	M	M	M
bCAllocation	+	O	M	M
barringOfOutgoingCalls	+	O	M	M
barringOfIncomingCalls	+	O	M	M
barringOfRoaming	+	O	M	M
barringOfPremiumRateCalls	+	O	M	M
barringOfSupplementaryServiceManagement	+	O	M	M
barringOfRegistrationOfCallForwarding	+	O	M	M
barringOfInvocationOfCallTransfer	+	O	M	M
operatorDeterminedBarringPLMNsSpecificData	+	O	M	M
vGCSGroupMembershipList	+	O	M	M
vBSGroupMembershipList	+	O	M	M
broadcastCallInitiationAllowedList	+	O	M	M
originatingCAMELSubscriptionInformationOCSEI	+	O	M	M
terminatingCAMELSubscriptionInformationTCSEI	+	O	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSSEI	+	O	M	M
locationInformationSubscriberStateInformation	+	O	M	M
uSSDCAMELSubscriptionInformationUCSEI	+	O	M	M
sSInvocationNotificationSSCSSEI	+	O	M	M
translationInformationFlagTIFCSSEI	+	O	M	M
dialledServiceCAMELSubscriptionInformationDCSEI	+	O	M	M
uSSDGeneralCAMELServiceInformationUGCSSEI	+	O	M	M
shortMessageServiceCAMELSubscriptionInformationMOSMSCSEI	+	O	M	M
shortMessageServiceCAMELSubscriptionInformationMTSMSCSEI	+	O	M	M
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	O	M	M
gsmSCFAddressforCSSEI	+	O	M	M
iSTAlertTimer	+	O	M	M
cSAllocationRetentionpriority	+	O	M	M

6.3.2.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

6.3.3 PSService

6.3.3.1 Definition

In this management context:

- a) This class represents a PS service (see 3GPP TS 23.008 [7]) provided by a service provider
- b) This class contains the valid parameters that define the PS service from subscription point of view.

6.3.3.2 Attributes

Attributes of PSService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pSServiceId	+	M	M	-
networkAccessMode	+	M	M	M
basicMSISDNIndicator	+	O	M	M
mSISDNAlertIndicator	+	O	M	M
subscriptionRestriction	+	O	M	M
rSZIlists	+	O	M	M
lSAIdentity	+	O	M	M
lSAPriority	+	O	M	M
lSAPreferentialAccessIndicator	+	O	M	M
lSAActiveModeSupportIndicator	+	O	M	M
lSAOnlyAccessIndicator	+	O	M	M
lSAActiveModeIndicator	+	O	M	M
vPLMNIIdentifier	+	O	M	M
accessRestrictionData	+	O	M	M
privacyExceptionList	+	O	M	M
gMLCNumbers	+	O	M	M
mOLRList	+	O	M	M
serviceTypes	+	O	M	M
gGSNNumber	+	O	M	M
provisionofTeleservice	+	O	M	M
transferofSMoption	+	M	M	M
barringofPacketOrientedServices	+	O	M	M
pDPType	+	O	M	M
pDPAddress	+	O	M	M
accessPointName	+	O	M	M
vPLMNAddressAllowed	+	O	M	M
qualityofServiceSubscribed	+	O	M	M
pDPContextChargingCharacteristics	+	O	M	M
gPRSCAMELSubscriptionInformationGPRSCSI	+	O	M	M
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	O	M	M
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	O	M	M
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	O	M	M
mTSMCSISGSNNegotiatedCAMELCapabilityHandling	+	O	M	M
mobilityManagementforGPRSeventnotificationMGCSI	+	O	M	M
mGCSINegotiatedCAMELCapabilityHandling	+	O	M	M
gsmSCFAddressforCSI	+	O	M	M
subscribedChargingCharacteristics	+	O	M	M

6.3.3.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

6.3.4 IMSService

6.3.4.1 Definition

In this management context:

- a) This class represents a IMS service (see 3GPP TS 23.008 [7]) provided by a service provider
- b) This class contains the valid parameters that define the ims service from subscription point of view.

6.3.4.2 Attributes

Attributes of IMSService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
imSServiceId	+	M	M	-
barringIndication	+	M	M	M
listofauthorizedvisitednetworkidentifiers	+	M	M	M
registrationStatus	+	M	M	M
sCSCFName	+	M	M	M
serverCapabilities	+	O	M	M
subscribedMediaProfileIdentifier	+	O	M	M
initialFilterCriteria	+	O	M	M
applicationServerInformation	+	O	M	M
serviceIndication	+	M	M	M
primaryEventChargingFunctionName	+	O	M	M
secondaryEventChargingFunctionName	+	O	M	M
primaryChargingCollectionFunctionName	+	M	M	M
secondaryChargingCollectionFunctionName	+	O	M	M
gsmSCFaddressforIMCSI	+	O	M	M
oIMCSI	+	O	M	M
vTIMCSI	+	O	M	M
dIMCS	+	O	M	M

6.3.4.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

6.3.5 SuMSubscribedService

6.3.5.1 Definition

This is an abstract IOC provided for sub-classing only. It provides attribute(s) that are common to Subscribed Services IOCs.

6.3.5.2 Attributes

Attributes of SuMSubscribedService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
description-service	+	M	M	O
agreement-offer	+	M	M	O

6.3.6 CSSubscribedService

6.3.6.1 Definition

In this management context:

- a) This class represents subscription to a CS service (see 3GPP TS 23.008 [7]) for a subscriber. The entire set of CS subscribed services owned by a subscriber constitutes the subscriber's Subscribed Services Profile for CS services.
- b) This class contains the agreed (between the Subscriber and the Service Provider) parameter settings for a CS service that a Subscriber subscribes to.

6.3.6.2 Attributes

Attributes of CSSubscribedService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cSSubscribedServiceId	+	M	M	-
networkAccessMode	+	M	M	M
basicMSISDNIndicator	+	O	M	M
mSISDNAlertIndicator	+	O	M	M
subscriptionRestriction	+	O	M	M
rSZIlists	+	O	M	M
lSAIdentity	+	O	M	M
lSAPriority	+	O	M	M
lSAPreferentialAccessIndicator	+	O	M	M
lSAActiveModeSupportIndicator	+	O	M	M
lSAOnlyAccessIndicator	+	O	M	M
lSAActiveModeIndicator	+	O	M	M
vPLMNIdentifier	+	O	M	M
accessRestrictionData	+	O	M	M
privacyExceptionList	+	O	M	M
gMLCNumbers	+	O	M	M
mOLRLList	+	O	M	M
serviceTypes	+	O	M	M
mobileStationCategory	+	M	M	M
lMUIIdentifier	+	M	M	M
subscriptionRestriction	+	M	M	M
subscriberStatus	+	M	M	M
gsmSCFAddresslistForODB	+	M	M	M
provisionOfBearerService	+	M	M	M
provisionOfTeleservice	+	M	M	M
bCAllocation	+	O	M	M
barringOfOutgoingCalls	+	O	M	M
barringOfIncomingCalls	+	O	M	M
barringOfRoaming	+	O	M	M
barringOfPremiumRateCalls	+	O	M	M
barringOfSupplementaryServiceManagement	+	O	M	M
barringOfRegistrationOfCallForwarding	+	O	M	M
barringOfInvocationOfCallTransfer	+	O	M	M
operatorDeterminedBarringPLMNspecificData	+	O	M	M
vGCSGroupMembershipList	+	O	M	M
vBSGroupMembershipList	+	O	M	M
broadcastCallInitiationAllowedList	+	O	M	M
originatingCAMELSubscriptionInformationOCSEI	+	O	M	M
terminatingCAMELSubscriptionInformationTCSEI	+	O	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSSEI	+	O	M	M
locationInformation/SubscriberStateInformation	+	O	M	M
uSSDCAMELSubscriptionInformationUCSEI	+	O	M	M
sSInvocationNotificationSSSEI	+	O	M	M
translationInformationFlagTIFCSSEI	+	O	M	M
dialledServiceCAMELSubscriptionInformationDCSEI	+	O	M	M
uSSDGeneralCAMELServiceInformationUGCSSEI	+	O	M	M
shortMessageServiceCAMELSubscriptionInformationMOSMSCSEI	+	O	M	M
shortMessageServiceCAMELSubscriptionInformationMTSMSCSEI	+	O	M	M
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	O	M	M
gsmSCFAddressforCSSEI	+	O	M	M
iSTAlertTimer	+	O	M	M
cSAllocationRetentionpriority	+	O	M	M

6.3.6.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

6.3.7 PSubscribedService

6.3.7.1 Definition

In this management context:

- a) This class represents subscription to a PS service (see 3GPP TS 23.008 [7]) for a subscriber. The entire set of PS subscribed services owned by a subscriber constitutes the subscriber's Subscribed Services Profile for PS services.
- b) This class contains the agreed (between the Subscriber and the Service Provider) parameter settings for a PS service that a Subscriber subscribes to.

6.3.7.2 Attributes

Attributes of PSubscribedService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pSubscribedServiceId	+	M	M	-
networkAccessMode	+	M	M	M
basicMSISDNIndicator	+	O	M	M
mSISDNAlertIndicator	+	O	M	M
subscriptionRestriction	+	O	M	M
rSIZIlists	+	O	M	M
lSAIdentity	+	O	M	M
lSAPriority	+	O	M	M
lSAPreferentialAccessIndicator	+	O	M	M
lSAActiveModeSupportIndicator	+	O	M	M
lSAOnlyAccessIndicator	+	O	M	M
lSAActiveModeIndicator	+	O	M	M
vPLMNIdentifier	+	O	M	M
accessRestrictionData	+	O	M	M
privacyExceptionList	+	O	M	M
gMLCNumbers	+	O	M	M
mOLRList	+	O	M	M
serviceTypes	+	O	M	M
gGSNNumber	+	O	M	M
provisionofTeleservice	+	O	M	M
transferofSMoption	+	M	M	M
barringofPacketOrientedServices	+	O	M	M
pDPType	+	O	M	M
pDPAddress	+	O	M	M
accessPointName	+	O	M	M
vPLMNAddressAllowed	+	O	M	M
qualityofServiceSubscribed	+	O	M	M
pDPContextChargingCharacteristics	+	O	M	M
gPRSCAMELSubscriptionInformationGPRSCSI	+	O	M	M
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	O	M	M
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	O	M	M
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	O	M	M
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	O	M	M
mobilityManagementforGPRSeventnotificationMGCSI	+	O	M	M
mGCSINegotiatedCAMELCapabilityHandling	+	O	M	M
gsmSCFAddressforCSI	+	O	M	M
subscribedChargingCharacteristics	+	O	M	M

6.3.7.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

6.3.8 IMSSubscribedService

6.3.8.1 Definition

In this management context:

- a) This class represents subscription to an ims (see 3GPP TS 23.008 [7]) service for a subscriber. The entire set of ims subscribed services owned by a subscriber constitutes the subscriber's Subscribed Services Profile for PS services.
- b) This class contains the agreed (between the Subscriber and the Service Provider) parameter settings for an ims service that a Subscriber subscribes to.

6.3.8.2 Attributes

Attributes of IMSSubscribedService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
imSSubscribedServiceId	+	M	M	-
barringIndication	+	M	M	M
listofauthorizedvisitednetworkidentifiers	+	M	M	M
registrationStatus	+	M	M	M
sCSCFName	+	M	M	M
serverCapabilities	+	O	M	M
subscribedMediaProfileIdentifier	+	O	M	M
initialFilterCriteria	+	O	M	M
applicationServerInformation	+	O	M	M
serviceIndication	+	M	M	M
primaryEventChargingFunctionName	+	O	M	M
secondaryEventChargingFunctionName	+	O	M	M
primaryChargingCollectionFunctionName	+	M	M	M
secondaryChargingCollectionFunctionName	+	O	M	M
gsmSCFaddressforIMCSI	+	O	M	M
oIMCSI	+	O	M	M
vTIMCSI	+	O	M	M
dIMCS	+	O	M	M

6.3.8.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

6.3.9 SuMSubscriberProfile

6.3.9.1 Definition

In this management context:

- a) This class represents the Subscriber Profile.
- b) This class contains the Subscribed Services for a subscriber
- c) This class contains the users for a subscriber.

6.3.9.2 Attributes

Attributes of SuSubscriberProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
suSubscriberProfileId	+	M	M	-
suSubscriberProfileInfo	+	M	M	O

6.3.10 SuSubscriptionProfile

6.3.10.1 Definition

In this management context:

- a) This class represents user's subscription profile of the services contracted by a subscriber.
- b) This class contains Service Profiles for the services contracted by a subscriber and assigned to a user.

6.3.10.2 Attributes

Attributes of SuSubscriptionProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
suSubscriptionProfileId	+	M	M	-
iMSI	+	M	M	M
mSISDN	+	M	M	M
multinumberingMSISDNs	+	M	M	M
iMEISV	+	O	M	-
privateUserIdentity	+	M	M	M
publicIdentity	+	M	M	M

6.3.10.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

6.3.11 SuServiceProfile

6.3.11.1 Definition

This is an abstract IOC provided for sub-classing only. It provides attribute(s) that are common to Service Profiles IOCs.

6.3.11.2 Attributes

Attributes of SuServiceProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
description-specification	+	M	M	O

6.3.12 CSServiceProfile

6.3.12.1 Definition

In this management context:

- a) This class represents for a subscribed CS service (see 3GPP TS 23.008 [7]) the service preferences and settings chosen for a user.

6.3.12.2 Attributes

Attributes of CSServiceProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cSServiceProfileId	+	M	M	O
networkAccessMode	+	M	M	M
basicMSISDNIndicator	+	O	M	M
mSISDNAlertIndicator	+	O	M	M
vLRNumber	+	M	M	-
mSCNumber	+	M	M	-
subscriptionRestriction	+	O	M	M
rSZIlists	+	O	M	M
mSCAreaRestrictedFlag	+	M	M	-
oDBinducedBarringData	+	O	M	-
roamingRestrictionDueToUnsupportedFeature	+	M	M	-
lSAIdentity	+	O	M	M
lSAPriority	+	O	M	M
lSAPreferentialAccess Indicator	+	O	M	M
lSAActiveModeSupportIndicator	+	O	M	M
lSAOnlyAccessIndicator	+	O	M	M
lSAActiveModeIndicator	+	O	M	M
vPLMNIdentifier	+	O	M	M
accessRestrictionData	+	O	M	M
privacyExceptionList	+	O	M	M
gMLCNumbers	+	O	M	M
mOLRList	+	O	M	M
serviceTypes	+	O	M	M
ageIndicator	+	O	M	-
lMSI	+	M	M	-
mobileStationCategory	+	M	M	M
lMUIdentifier	+	M	M	M
mSCNumber	+	M	M	-
subscriptionRestriction	+	M	M	M
mSCAreaRestrictedFlag	+	M	M	-
oDBinducedBarringData	+	M	M	-
roamingRestrictionDueToUnsupportedFeature	+	M	M	-
mNRR	+	M	M	-
subscriberStatus	+	M	M	M
notificationToCSEFlagForODB	+	M	M	-
gsmSCAddresslistForODB	+	M	M	M
messagesWaitingData	+	M	M	-
mobileStationNotReachableFlag	+	M	M	-
memoryCapacityExceededFlag	+	M	M	-
traceReference	+	O	M	-
traceType	+	O	M	-
operationsSystemsIdentity	+	O	M	-
hLRTraceType	+	O	M	-
mAPErrrorOnTrace	+	O	M	-
traceActivatedInVLR	+	O	M	-
provisionOfBearerService	+	M	M	M
provisionOfTeleservice	+	M	M	M
bCAllocation	+	O	M	M
checkSSIndicator	+	M	M	-
mSPurgedForNonGPRSFlag	+	M	M	-
barringOfOutgoingCalls	+	O	M	M
barringOfIncomingCalls	+	O	M	M
barringOfRoaming	+	O	M	M
barringOfPremiumRateCalls	+	O	M	M
barringOfSupplementaryServiceManagement	+	O	M	M
barringOfRegistrationOfCallForwarding	+	O	M	M
barringOfInvocationOfCallTransfer	+	O	M	M
operatorDeterminedBarringPLMNspecificData	+	O	M	M

vGCSGroupMembershipList	+	O	M	M
vBSGroupMembershipList	+	O	M	M
broadcastCallInitiationAllowedList	+	O	M	M
originatingCAMELSubscriptionInformationOCSI	+	O	M	M
terminatingCAMELSubscriptionInformationTCSI	+	O	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSI	+	O	M	M
locationInformationSubscriberStateInformation	+	O	M	M
uSSDCAMELSubscriptionInformationUCSI	+	O	M	M
sSInvocationNotificationSSCSI	+	O	M	M
translationInformationFlagTIFCSI	+	O	M	M
dialledServiceCAMELSubscriptionInformationDCSI	+	O	M	M
uSSDGeneralCAMELServiceInformationUGCSI	+	O	M	M
oCSINegotiatedCAMELCapabilityHandling	+	O	M	-
sSSCINegotiatedCAMELCapabilityHandling	+	O	M	-
vtCSINegotiatedCAMELCapabilityHandling	+	O	M	-
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	O	M	M
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	O	M	M
mOSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	O	M	-
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	O	M	M
mCSINegotiatedCAMELCapabilityHandling	+	O	M	-
vLRSupportedCAMELPhases	+	O	M	-
gsmSCFAddressforCSI	+	O	M	M
vLROfferedCAMEL4CSIs	+	O	M	-
iSTAlertTimer	+	O	M	M
cSAllocationRetentionpriority	+	O	M	M

6.3.12.3 Attribute constraints

The optional attributes:

basicMSISDNIndicator
 mSISDNAlertIndicator
 subscriptionRestriction
 bAllocation
 rSZIlists
 oDBinducedBarringData
 lSAIdentity
 lSAPriority
 lSAPreferentialAccess Indicator
 lSAActiveModeSupportIndicator
 lSAOnlyAccessIndicator
 lSAActiveModeIndicator
 vPLMNIdentifier
 accessRestrictionData
 privacyExceptionList
 gMLCNumbers
 mOLRList
 serviceTypes
 ageIndicator
 bAllocation
 barringOfOutgoingCalls
 barringOfIncomingCalls
 barringOfRoaming
 barringOfPremiumRateCalls
 barringOfSupplementaryServiceManagement
 barringOfRegistrationOfCallForwarding
 barringOfInvocationOfCallTransfer
 operatorDeterminedBarringPLMNspecificData
 vGCSGroupMembershipList
 vBSGroupMembershipList
 broadcastCallInitiationAllowedList

originatingCAMELSubscriptionInformationOC
terminatingCAMELSubscriptionInformationTC
vMSCTerminatingCAMELSubscriptionInformationVT
locationInformationSubscriberStateInformation
uSSDCAMELSubscriptionInformationUC
sSInvocationNotificationSSCSI
translationInformationFlagTIFCSI
dialledServiceCAMELSubscriptionInformationDC
uSSDGeneralCAMELServiceInformationUGCSI
oCSINegotiatedCAMELCapabilityHandling
sCSINegotiatedCAMELCapabilityHandling
vTCSINegotiatedCAMELCapabilityHandling
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI
mOSMSCSIVLRNegotiatedCAMELCapabilityHandling
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling
mCSINegotiatedCAMELCapabilityHandling
vLRSupportedCAMELPhases
gsmSCFaddressforCSI
vLROfferedCAMEL4CSIs
iSTAlertTimer
cSAllocationRetentionpriority

shall be supported for the following criteria: the NE supports the parameter (See TS 23.008 [7]).

6.3.13 PSServiceProfile

6.3.13.1 Definition

In this management context:

- a) This class represents for a subscribed PS service (see 3GPP TS 23.008 [7]) the service preferences and settings chosen for a user.

6.3.13.2 Attributes

Attributes of PSServiceProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pSServiceProfileId	+	M	M	O
networkAccessMode	+	M	M	M
basicMSISDNIndicator	+	O	M	M
mSISDNAlertIndicator	+	O	M	M
vLRNumber	+	M	M	-
mSCNumber	+	M	M	-
subscriptionRestriction	+	O	M	M
rSZIlists	+	O	M	M
mSCAreaRestrictedFlag	+	M	M	-
oDBinducedBarringData	+	O	M	-
roamingRestrictionDueToUnsupportedFeature	+	M	M	-
lSAIdentity	+	O	M	M
lSAPriority	+	O	M	M
lSAPreferentialAccessIndicator	+	O	M	M
lSAActiveModeSupportIndicator	+	O	M	M
lSAOnlyAccessIndicator	+	O	M	M
lSAActiveModeIndicator	+	O	M	M
vPLMNIIdentifier	+	O	M	M
accessRestrictionData	+	O	M	M
privacyExceptionList	+	O	M	M
gMLCNumbers	+	O	M	M
mOLRList	+	O	M	M
serviceTypes	+	O	M	M
ageIndicator	+	O	M	-
sGSNNumber	+	M	M	-
gGSNNumber	+	O	M	M
sGSNarearestrictedflag	+	M	M	-
roamingRestrictedintheSGSNduetounsupportedfeature	+	M	M	-
mNRG	+	M	M	-
traceActivatedinSGSN	+	O	M	-
provisionofTeleservice	+	O	M	M
transferofSMoption	+	M	M	M
mSpurgedforGPRSflag	+	M	M	-
barringofPacketOrientedServices	+	O	M	M
pDPType	+	O	M	M
pDPAddress	+	O	M	M
accessPointName	+	O	M	M
vPLMNAddressAllowed	+	O	M	M
gGSNlist	+	M	M	-
qualityofServiceSubscribed	+	O	M	M
pDPContextIdentifier	+	O	M	-
pDPContextChargingCharacteristics	+	O	M	M
gPRSCAMELSubscriptionInformationGPRSCSI	+	O	M	M
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	O	M	M
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	O	M	M
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	O	M	M
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	O	M	M
mobilityManagementforGPRSeventnotificationMGCSI	+	O	M	M
mGCSINegotiatedCAMELCapabilityHandling	+	O	M	M
gPRSCSINegotiatedCAMELCapabilityHandling	+	O	M	-
sGSNSupportedCAMELPhases	+	O	M	-
sGSNOfferedCAMEL4CSIs	+	O	M	-
gsmSCFaddressforCSI	+	O	M	M
subscribedChargingCharacteristics	+	O	M	M

6.3.13.3 Attribute constraints

The optional attributes:

basicMSISDNIndicator
mSISDNAlertIndicator
subscriptionRestriction
rSZIlists
oDBinducedBarringData
lSAIdentity
lSAPriority
lSAPreferentialAccessIndicator
lSAActiveModeSupportIndicator
lSAOnlyAccessIndicator
lSAActiveModeIndicator
vPLMNIdentifier
accessRestrictionData
privacyExceptionList
gMLCNumbers
mOLRList
serviceTypes
ageIndicator
gGSNNumber
provisionofTeleservice
barringofPacketOrientedServices
pDPType
pDPAddress
accessPointName
vPLMNAddressAllowed
qualityofServiceSubscribed
pDPContextIdentifier
pDPContextChargingCharacteristics
gPRSCAMELSubscriptionInformationGPRSCSI
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling
mobilityManagementforGPRSeventnotificationMGCSI
mGCSINegotiatedCAMELCapabilityHandling
gPRSCSINegotiatedCAMELCapabilityHandling
sGSNSupportedCAMELPhases
sGSNOfferedCAMEL4CSIs
gsmSCFaddressforCSI
subscribedChargingCharacteristics

shall be supported for the following criteria: the NE supports the parameter (See TS 23.008 [7]).

6.3.14 IMSServiceProfile

6.3.14.1 Definition

In this management context:

- a) This class represents for a subscribed ims (see 3GPP TS 23.008 [7]) service the service preferences and settings chosen for a user.

6.3.14.2 Attributes

Attributes of IMSServiceProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
iMSServiceProfileId	+	M	M	O
barringIndication	+	M	M	M
listofauthorizedvisitednetworkidentifiers	+	M	M	M
registrationStatus	+	M	M	M
sCSCFName	+	M	M	M
diameterClientAddressofSCSCF	+	M	M	-
serverCapabilities	+	O	M	M
subscribedMediaProfileIdentifier	+	O	M	M
initialFilterCriteria	+	O	M	M
applicationServerInformation	+	O	M	M
serviceIndication	+	M	M	M
primaryEventChargingFunctionName	+	O	M	M
secondaryEventChargingFunctionName	+	O	M	M
primaryChargingCollectionFunctionName	+	M	M	M
secondaryChargingCollectionFunctionName	+	O	M	M
gsmSCFaddressforIMCSI	+	O	M	M
iMSSFaddressforIMCSI	+	O	M	-
oIMCSI	+	O	M	M
vIMCSI	+	O	M	M
dIMCS	+	O	M	M

6.3.14.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

6.3.15 ServiceProviderFunction

6.3.15.1 Definition

In this management context:

- This class represents service provider functionality.
- All managed elements related with providing services have this functionality.
- It carries references to all services to be provided.
- It inherits from ManagedFunction (defined in 32.622 [6]).

6.3.15.2 Attributes

Attributes of ServiceProviderFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
serviceProviderFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.16 SubscriptionFunction

6.3.16.1 Definition

In this management context:

- a) This class represents subscription functionality.
- b) All managed elements related with the subscription of services have this functionality.
- c) It carries references to all subscription profile data.
- d) It carries references to all Subscriber data
- e) It inherits from ManagedFunction (defined in 32.622 [6]).

6.3.16.2 Attributes

Attributes of SubscriptionFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
subscriptionFunctionId	+	M	M	-
userLabel	+	M	M	M

6.4 Information relationship definitions

6.4.1 Agreement

6.4.1.1 Definition

This represents the agreement relationship between SuMService and SuMSubscribedService.

6.4.1.2 Roles

Name	Definition
contract	The SuMSubscribedService represents an agreed contract for a SuMService.
offer	The SuMService represents an offer of an agreement to a SuMSubscribedService.

6.4.1.3 Constraints

-

6.4.2 Description

6.4.2.1 Definition

This represents the content relationship between SuMSubscriptionProfile and SuMServiceProfile.

6.4.2.2 Roles

Name	Definition
specification	SuMSubscribedService acts as the specification for the description of SuMServiceProfile.
service	SuMServiceProfile acts as the service specified in the description.

6.4.2.3 Constraints

-

6.5 Information attribute definitions

6.5.1 Definitions and legal values

The following table defines the attributes that are present in several IOCs of the present document.

Table 6.5.1: Attributes

Attribute Name	Definition	Legal Values
iMSServiceId	An attribute whose #name+value# can be used as an RDN when naming an instance of the IMSService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
cSServiceId	An attribute whose #name+value# can be used as an RDN when naming an instance of the CSService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
pSServiceId	An attribute whose #name+value# can be used as an RDN when naming an instance of the PSService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
cSServiceProfileId	An attribute whose #name+value# can be used as an RDN when naming an instance of the CSServiceProfile object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
pSServiceProfileId	An attribute whose #name+value# can be used as an RDN when naming an instance of the PSServiceProfile object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iMSServiceProfileId	An attribute whose #name+value# can be used as an RDN when naming an instance of the IMSServiceProfile object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	

cSSubscribedServiceId	An attribute whose <code>#name+value#</code> can be used as an RDN when naming an instance of the <code>CSSubscribedService</code> object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
pSSubscribedServiceId	An attribute whose <code>#name+value#</code> can be used as an RDN when naming an instance of the <code>PSSubscribedService</code> object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iMSSubscribedServiceId	An attribute whose <code>#name+value#</code> can be used as an RDN when naming an instance of the <code>IMSSubscribedService</code> object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
suMSubscriptionProfileId	An attribute whose <code>#name+value#</code> can be used as an RDN when naming an instance of the <code>SuMSubscriptionProfile</code> object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
userLabel	A user-friendly (and user assigned) name of the associated object. Inherited from <code>ManagedFunction</code> .	
agreementContract	Models the agreement relationship to a subscribed service. This attribute contains a list of the DN(s) of the related <code>SuMSubscribedService</code> instance(s).	
agreementOffer	Models the agreement relationship to a service. An attribute whose <code>#name+value#</code> can be used as DN when referencing an instance of the <code>SuMService</code> object class.	
descriptionService	Models the description relationship to a service profile. This attribute contains a list of the DN(s) of the related <code>SuMServiceProfile</code> instance(s).	
descriptionSpecification	Models the description relationship to a subscribed service. An attribute whose <code>#name+value#</code> can be used as DN when referencing an instance of the <code>SuMSubscribedService</code> object class.	
iMSI	23.008 clause 2.1.1.1	
networkAccessMode	23.008 clause 2.1.1.2	
mSISDN	23.008 clause 2.1.2	
multinumberingMSISDNs	23.008 clause 2.1.3	
basicMSISDNIndicator	23.008 clause 2.1.3.1	
mSISDNAlertIndicator	23.008 clause 2.1.3.2	
lMSI	23.008 clause 2.1.8	

mobileStationCategory	23.008 clause 2.2.1	
lMUIdentifier	23.008 clause 2.2.2	
iMEISV	23.008 clause 2.2.3	
subscriptionRestriction	23.008 clause 2.4.10	
rSZilists	23.008 clause 2.4.11.1	
mSCAreaRestrictedFlag	23.008 clause 2.4.12	
sGSNarearestrictedflag	23.008 clause 2.4.14	
oDBinducedBarringData	23.008 clause 2.4.15.1	
roamingRestrictionDueToUnsupportedFeature	23.008 clause 2.4.15.2	
roamingRestrictedintheSGSNduetounsupportedfeature	23.008 clause 2.4.15.3	
lSAIdentity	23.008 clause 2.4.17.1	
lSAPriority	23.008 clause 2.4.17.2	
lSAPreferentialAccessIndicator	23.008 clause 2.4.17.2A	
lSAActiveModeSupportIndicator	23.008 clause 2.4.17.2B	
lSAOnlyAccessIndicator	23.008 clause 2.4.17.3	
lSAActiveModeIndicator	23.008 clause 2.4.17.4	
vPLMNIdentifier	23.008 clause 2.4.17.5	
accessRestrictionData	23.008 clause 2.4.18	
vLRNumber	23.008 clause 2.4.5	
mSCNumber	23.008 clause 2.4.6	
sGSNNumber	23.008 clause 2.4.8.1	
gGSNNumber	23.008 clause 2.4.8.2	
provisionOfBearerService	23.008 clause 2.5.1	
provisionOfTeleservice	23.008 clause 2.5.2	
bCAllocation	23.008 clause 2.5.3	
transferofSMoption	23.008 clause 2.5.4	
mNRG	23.008 clause 2.7.2	
checkSSIndicator	23.008 clause 2.7.4.4	
mSPurgedForNonGPRSFlag	23.008 clause 2.7.5	
mSpurgedforGPRSflag	23.008 clause 2.7.6	
subscriberStatus	23.008 clause 2.8.1	
barringOfOutgoingCalls	23.008 clause 2.8.2.1	
barringOfIncomingCalls	23.008 clause 2.8.2.2	
barringOfRoaming	23.008 clause 2.8.2.3	
barringOfPremiumRateCalls	23.008 clause 2.8.2.4	
barringOfSupplementaryServiceManagement	23.008 clause 2.8.2.5	
barringOfRegistrationOfCallForwarding	23.008 clause 2.8.2.6	
barringOfInvocationOfCallTransfer	23.008 clause 2.8.2.7	
barringofPacketOrientedServices	23.008 clause 2.8.2.8	
operatorDeterminedBarringPLMNspecificData	23.008 clause 2.8.3	
notificationToCSEFlagForODB	23.008 clause 2.8.4	
gsmSCAddresslistForODB	23.008 clause 2.8.5	
messagesWaitingData	23.008 clause 2.10.1	
mobileStationNotReachableFlag	23.008 clause 2.10.2	
memoryCapacityExceededFlag	23.008 clause 2.10.3	
traceReference	23.008 clause 2.11.1	
traceType	23.008 clause 2.11.2	
operationsSystemsIdentity	23.008 clause 2.11.3	
hLRTraceType	23.008 clause 2.11.4	
mAPErrorOnTrace	23.008 clause 2.11.5	
traceActivatedInVLR	23.008 clause 2.11.6	
traceActivatedinSGSN	23.008 clause 2.11.7	
vGCSGroupMembershipList	23.008 clause 2.12.1	
vBSGroupMembershipList	23.008 clause 2.12.2	
broadcastCallInitiationAllowedList	23.008 clause 2.12.2.1	
pDPType	23.008 clause 2.13.1	
gGSNlist	23.008 clause 2.13.11	
qualityofServiceSubscribed	23.008 clause 2.13.12	
pDPAddress	23.008 clause 2.13.2	
pDPContextIdentifier	23.008 clause 2.13.24	
pDPContextChargingCharacteristics	23.008 clause 2.13.25	
accessPointName	23.008 clause 2.13.6	
vPLMNAddressAllowed	23.008 clause 2.13.8	
originatingCAMELSubscriptionInformationOCST	23.008 clause 2.14.1.1/3.1	

gPRSCAMELSubscriptionInformationGPRSCSI	23.008 clause 2.14.1.10/2.14.4.4	
dialledServiceCAMELSubscriptionInformationDCSI	23.008 clause 2.14.1.11/3.7	
mobilityManagementforGPRSeventnotificationMGCSI	23.008 clause 2.14.1.12/2.14.4.4	
terminatingCAMELSubscriptionInformationTCSI	23.008 clause 2.14.1.2	
vMSCTerminatingCAMELSubscriptionInformationVTCSI	23.008 clause 2.14.1.2/3.2	
locationInformationSubscriberStateInformation	23.008 clause 2.14.1.3	
uSSDCAMELSubscriptionInformationUCSI	23.008 clause 2.14.1.4	
sSInvocationNotificationSSCSI	23.008 clause 2.14.1.5/3.2	
translationInformationFlagTIFCSI	23.008 clause 2.14.1.6/3.6	
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	23.008 clause 2.14.1.8/2.14.3.5	
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	23.008 clause 2.14.1.8/2.14.4.1	
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	23.008 clause 2.14.1.9/2.14.3.6	
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	23.008 clause 2.14.1.9/2.14.4.2.	
gPRSCSINegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
mCSINegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
mGCSINegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
mOSMSCSIVLRNegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
oCSINegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
sSCSINegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
vTCSINegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
SGSNOfferedCAMEL4CSIs	23.008 clause 2.14.2.2A	
vLROfferedCAMEL4CSIs	23.008 clause 2.14.2.2A	
sGSNSupportedCAMELPhases	23.008 clause 2.14.2.3	
vLRSupportedCAMELPhases	23.008 clause 2.14.2.3	
gsmSCFaddressforCSI	23.008 clause 2.14.2.4	
uSSDGeneralCAMELServiceInformationUGCSI	23.008 clause 2.14.2.4	
iSTAlertTimer	23.008 clause 2.15.1	
privacyExceptionList	23.008 clause 2.16.1.1	
gMLCNumbers	23.008 clause 2.16.1.2	
mOLRList	23.008 clause 2.16.1.3	
serviceTypes	23.008 clause 2.16.1.4	
ageIndicator	23.008 clause 2.17.1	
cSAllocationRetentionpriority	23.008 clause 2.18.1	
subscribedChargingCharacteristics	23.008 clause 2.19.1	

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Dec 2003	S_22	SP-030617	--	--	Submitted to TSG SA#22 for Information	1.0.0	
Sep 2004	S_25	SP-040546	--	--	Submitted to TSG SA#25 for Approval	2.0.0	
Dec 2004	S_26	SP-040765	--	--	Submitted to TSG SA#26 for Approval	2.6.0	