
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 2.7.0
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". |
|---|

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|--|
| 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 V2.7.0 (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.

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Keywords

subscription management

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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

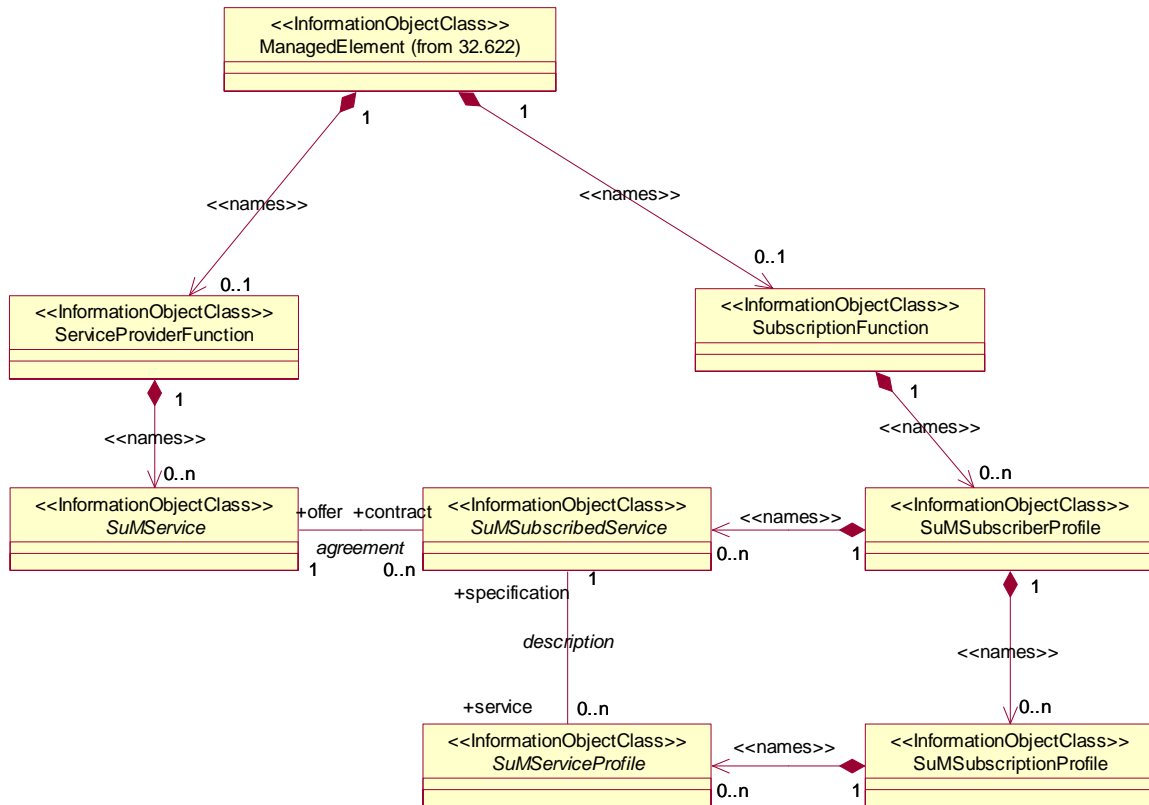
6.1 Imported information entities and local labels

| 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

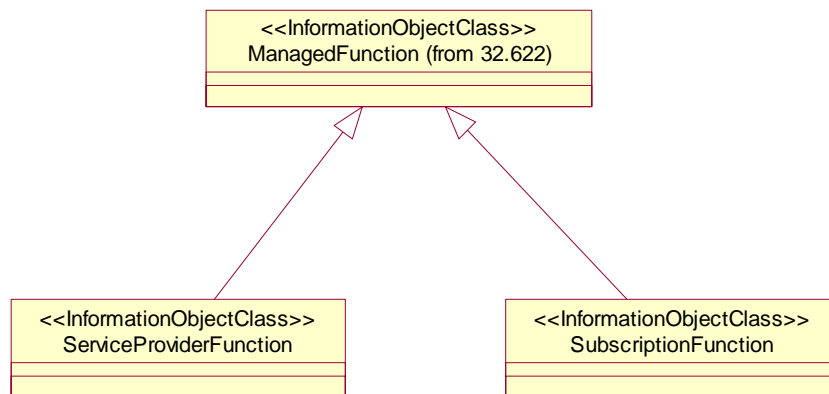


Figure 2a: SuM NRM Inheritance Hierarchy 1

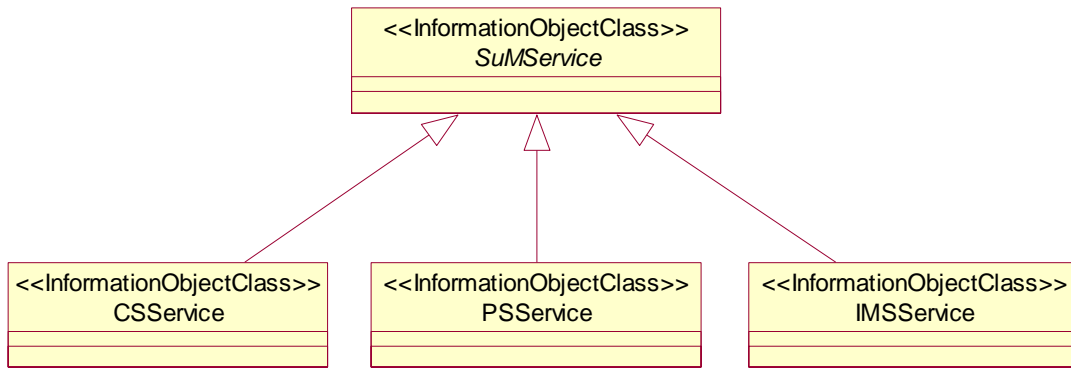


Figure 2b: SuM NRM Inheritance Hierarchy 2

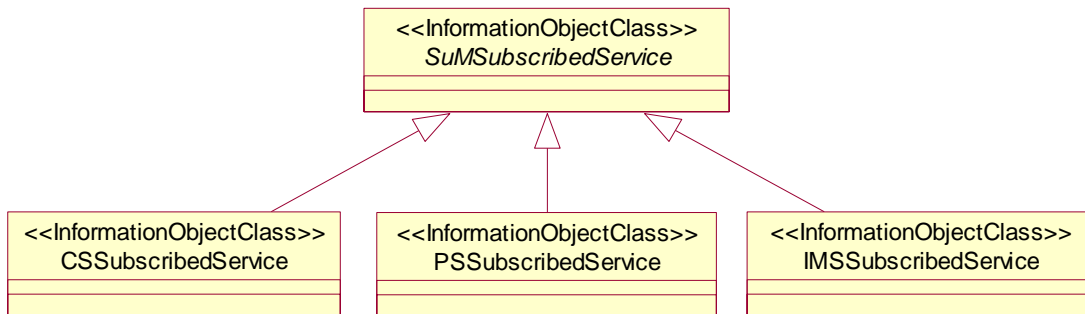


Figure 2c: SuM NRM Inheritance Hierarchy 3

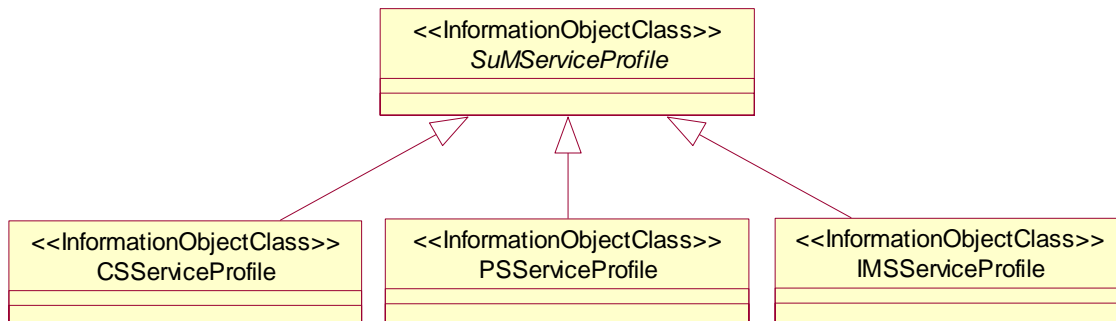


Figure 2d: SuM NRM Inheritance Hierarchy 4

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:

- This class represents a PS service (see 3GPP TS 23.008 [7]) provided by a service provider
- 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 |
| 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 |
| locationInformation/SubscriberStateInformation | + | 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 |

6.3.6.3 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:

- 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.
- 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:

- This class represents user's subscription profile of the services contracted by a subscriber.
- 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 | - |
| ssCSINegotiatedCAMELCapabilityHandling | + | 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:

accessRestrictionData
 ageIndicator
 barringOfIncomingCalls
 barringOfInvocationOfCallTransfer
 barringOfOutgoingCalls
 barringOfPremiumRateCalls
 barringOfRegistrationOfCallForwarding
 barringOfRoaming
 barringOfSupplementaryServiceManagement
 basicMSISDNIndicator
 bCAllocation
 bCAllocation
 broadcastCallInitiationAllowedList
 cSAllocationRetentionpriority
 dialledServiceCAMELSubscriptionInformationDCSI
 gMLCNumbers
 gsmSCFAddressforCSI
 iSTAlertTimer
 locationInformationSubscriberStateInformation
 lSAActiveModeIndicator
 lSAActiveModeSupportIndicator
 lSAIdentity
 lSAOnlyAccessIndicator
 lSAPreferentialAccess Indicator
 lSAPriority
 mCSINegotiatedCAMELCapabilityHandling
 mOLRList
 mOSMSCSIVLRNegotiatedCAMELCapabilityHandling
 mSISDNAlertIndicator
 mTSMSCSIVLRNegotiatedCAMELCapabilityHandling
 oCSINegotiatedCAMELCapabilityHandling

oDBinducedBarringData
operatorDeterminedBarringPLMNspecificData
originatingCAMELSubscriptionInformationOCSI
privacyExceptionList
rSZIlists
serviceTypes
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI
sCSINegotiatedCAMELCapabilityHandling
sSInvocationNotificationSSCSI
subscriptionRestriction
terminatingCAMELSubscriptionInformationTCSI
translationInformationFlagTIFCSI
uSSDCAMELSubscriptionInformationUCSI
uSSDGeneralCAMELServiceInformationUGCSI
vBSGroupMembershipList
vGCGroupMembershipList
vLROfferedCAMEL4CSIs
vLRSupportedCAMELPhases
vMSTerminatingCAMELSubscriptionInformationVTCSI
vPLMNIdentifier
vTCSINegotiatedCAMELCapabilityHandling

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:

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

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 'name+value' can be used as an RDN when naming an instance of the CSSubscribedService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance. | |
| pSSubscribedServiceId | An attribute whose 'name+value' can be used as an RDN when naming an instance of the PSSubscribedService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance. | |
| iMSSubscribedServiceId | An attribute whose 'name+value' can be used as an RDN when naming an instance of the IMSSubscribedService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance. | |
| suMSubscriptionProfileId | An attribute whose 'name+value' can be used as an RDN when naming an instance of the SuMSubscriptionProfile 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 ManagedFunction. | |
| agreementContract | Models the agreement relationship to a subscribed service. This attribute contains a list of the DN(s) of the related SuMSubscribedService instance(s). | |
| agreementOffer | Models the agreement relationship to a service. An attribute whose 'name+value' can be used as DN when referencing an instance of the SuMService object class. | |
| descriptionService | Models the description relationship to a service profile. This attribute contains a list of the DN(s) of the related SuMServiceProfile instance(s). | |
| descriptionSpecification | Models the description relationship to a subscribed service. An attribute whose 'name+value' can be used as DN when referencing an instance of the SuMSubscribedService 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 | |
| mAPErrrorOnTrace | 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 | |

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| 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 | |
| privateUserIdentity | 23.008 clause 3.1.1 | |
| publicIdentity | 23.008 clause 3.1.2 | |
| barringIndication | 23.008 clause 3.1.3 | |
| listofauthorizedvisitednetworkidentifiers | 23.008 clause 3.1.4 | |
| registrationStatus | 23.008 clause 3.2.1 | |
| sCSCFName | 23.008 clause 3.2.2 | |
| diameterClientAddressofSCSCF | 23.008 clause 3.2.3 | |
| serverCapabilities | 23.008 clause 3.4.1 | |
| subscribedMediaProfileIdentifier | 23.008 clause 3.5.1 | |
| initialFilterCriteria | 23.008 clause 3.5.2 | |
| applicationServerInformation | 23.008 clause 3.5.3 | |
| serviceIndication | 23.008 clause 3.5.4 | |
| primaryEventChargingFunctionName | 23.008 clause 3.7.1 | |
| secondaryEventChargingFunctionName | 23.008 clause 3.7.2 | |
| primaryChargingCollectionFunctionName | 23.008 clause 3.7.3 | |
| secondaryChargingCollectionFunctionName | 23.008 clause 3.7.4 | |
| gsmSCFAddressforIMCSI | 23.008 clause 3.8.4 | |
| iMSSFAddressforIMCSI | 23.008 clause 3.8.5 | |
| oIMCSI | 23.008 clause 3.8.1 | |
| vTIMCSI | 23.008 clause 3.8.2 | |
| dIMCS | 23.008 clause 3.8.3 | |

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-040830 | -- | -- | Submitted to TSG SA#26 for Approval | 2.7.0 | |
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