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*Technical Specification*

**Digital cellular telecommunications system (Phase 2+) (GSM);  
Universal Mobile Telecommunications System (UMTS);  
Telecommunication Management;  
Configuration Management;  
Core network resources IRP: CMIP solution set  
(3GPP TS 32.634 version 4.1.0 Release 4)**

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**GSM**®  
GLOBAL SYSTEM FOR  
MOBILE COMMUNICATIONS

**3GPP**

**ETSI** 

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## Foreword

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## Foreword

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## Introduction

Configuration Management (CM), in general, provides the operator with the ability to assure correct and effective operation of the 3G network as it evolves. CM actions have the objective to control and monitor the actual configuration on the Network Elements (NEs) and Network Resources (NRs), and they may be initiated by the operator or by functions in the Operations Systems (OSs) or NEs.

Due to the growing number of specifications to model new services and Resource Models for Configuration Management (CM), as well as the expected growth in size of each of them from 3GPP Release 4 onwards, a new structure of the specifications is already needed in Release 4. This structure is needed for several reasons, but mainly to enable more independent development and release for each part, as well as a simpler document identification and version handling. Another benefit would be that it becomes easier for bodies outside 3GPP, such as the ITU-T, to refer to telecom management specifications from 3GPP. The new structure of the specifications does not lose any information or functionality supported by the Release 1999. The restructuring also includes defining new IRPs for the Network Resource Models (Generic, Core Network and UTRAN NRM).

Finally, the Name convention for Managed Objects (in Release 1999: 32.106-8) has been moved to a separate number series used for specifications common between several management areas (e.g. CM, FM, PM).

The following table shows an overview of the mapping between the old Release 1999 and new Release 4 CM specification structure.

Table: Mapping between Release '99 and the new Rel-4 specifications

| R99 Old no. | Old (R99) specification title                                      | Rel-4 New no. | New (Rel-4) specification title   |
|-------------|--|---------------|---|
| 32.106-1    | 3G Configuration Management: Concept and Requirements              | 32.600        | <b>3G Configuration Management: Concept and High-level Requirements</b> |
| 32.106-1    | <Notification IRP requirements from 32.106-1 and 32.106-2>         | 32.301        | <b>Notification IRP: Requirements</b>                                   |
| 32.106-2    | Notification IRP: IS   | 32.302        | Notification IRP: Information Service                                   |
| 32.106-3    | Notification IRP: CORBA SS   | 32.303        | Notification IRP: CORBA SS  |
| 32.106-4    | Notification IRP: CMIP SS  | 32.304        | Notification IRP: CMIP SS   |
| 32.106-8    | Name convention for Managed Objects                                | 32.300        | <b>Name Convention for Managed Objects</b>                              |
| 32.106-1    | <Basic CM IRP IS requirements from 32.106-1 and 32.106-5>          | 32.601        | <b>Basic CM IRP: Requirements</b>                                       |
| 32.106-5    | Basic CM IRP IM (Intro & IS part)                                  | 32.602        | Basic CM IRP: Information Service                                       |
| 32.106-6    | Basic CM IRP CORBA SS (IS related part)                            | 32.603        | Basic CM IRP: CORBA SS  |
| 32.106-7    | Basic CM IRP CMIP SS (IS related part)                             | 32.604        | Basic CM IRP: CMIP SS   |
| 32.106-8    | Name convention for Managed Objects                                | 32.300        | <b>Name Convention for Managed Objects</b>                              |
| -           | -  | 32.611        | <b>Bulk CM IRP: Requirements</b>  |
| -           | -  | 32.612        | Bulk CM IRP: Information Service  |
| -           | -  | 32.613        | Bulk CM IRP: CORBA SS   |
| -           | -  | 32.614        | Bulk CM IRP: CMIP SS  |
|             |  | 32.615        | Bulk CM IRP: XML file format definition                                 |
| 32.106-1    | <Basic CM IRP Generic NRM requirements from 32.106-1 and 32.106-5> | 32.621        | <b>Generic Network Resources IRP: Requirements</b>                      |
| 32.106-5    | Basic CM IRP IM (Generic NRM part)                                 | 32.622        | Generic Network Resources IRP: NRM                                      |
| 32.106-6    | Basic CM IRP CORBA SS (Generic NRM related part)                   | 32.623        | Generic Network Resources IRP: CORBA SS                                 |
| 32.106-7    | Basic CM IRP CMIP SS (Generic NRM related part)                    | 32.624        | Generic Network Resources IRP: CMIP SS                                  |
| 32.106-1    | <Basic CM IRP CN NRM requirements from 32.106-1 and 32.106-5>      | 32.631        | <b>Core Network Resources IRP: Requirements</b>                         |
| 32.106-5    | Basic CM IRP IM (CN NRM part)                                      | 32.632        | Core Network Resources IRP: NRM   |
| 32.106-6    | Basic CM IRP CORBA SS (CN NRM related part)                        | 32.633        | Core Network Resources IRP: CORBA SS                                    |
| 32.106-7    | Basic CM IRP CMIP SS (CN NRM related part)                         | 32.634        | <b>Core Network Resources IRP: CMIP SS</b>                              |
| 32.106-1    | <Basic CM IRP UTRAN NRM requirements from 32.106-1 and 32.106-5>   | 32.641        | <b>UTRAN Network Resources IRP: Requirements</b>                        |
| 32.106-5    | Basic CM IRP IM (UTRAN NRM part)                                   | 32.642        | UTRAN Network Resources IRP: NRM  |
| 32.106-6    | Basic CM IRP CORBA SS (UTRAN NRM related part)                     | 32.643        | UTRAN Network Resources IRP: CORBA SS                                   |
| 32.106-7    | Basic CM IRP CMIP SS (UTRAN NRM related part)                      | 32.644        | UTRAN Network Resources IRP: CMIP SS                                    |
|             |  | 32.651        | <b>GERAN Network Resources IRP: Requirements</b>                        |
|             |  | 32.652        | GERAN Network Resources IRP: NRM  |
|             |  | 32.653        | GERAN Network Resources IRP: CORBA SS                                   |
|             |  | 32.654        | GERAN Network Resources IRP: CMIP SS                                    |

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# 1 Scope

The present document specifies the Common Management Information Protocol (CMIP) Solution Set (SS) for the CN Network Resource Integration Reference Point (IRP): Network Resource Model defined in 3GPP TS 32.632. In detail:

- Clause 4 contains an introduction to some concepts that are the base for some specific aspects of the CMIP interfaces.
- Clause 5 contains the GDMO definitions for the Alarm Management over the CMIP interfaces
- Clause 6 contains the ASN.1 definitions supporting the GDMO definitions provided in clause 5.

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# 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: "3G Telecom Management principles and high level requirements".
- [2] 3GPP TS 32.102: "3G Telecom Management architecture".
- [3] 3GPP TS 32.304: "Telecommunication Management; Notification Management; Part 4: Notification Integration Reference Point; CMIP Solution Set".
- [4] 3GPP TS 32.632: "Telecommunication Management; Configuration Management: CN Network Resource Integration Reference Point: Network Resource Model".
- [5] ITU-T Recommendation X.710 (1991): "Common Management Information Service Definition for CCITT Applications".
- [6] ITU-T Recommendation X.721 (02/92): "Information Technology - Open Systems Interconnection – Structure of Management Information: Definition of Management Information".
- [7] ITU-T Recommendation X.730 (01/92): "Information Technology - Open Systems Interconnection – Systems Management: Object Management Function".
- [8] ITU-T Recommendation X.733 (02/92): "Information Technology - Open Systems Interconnection - Alarm Reporting Function".
- [9] ITU-T Recommendation M.3100 (07/95): "Maintenance Telecommunications Management Network – Generic Network Information Model".

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# 3 Definitions, symbols and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 32.600 and 3GPP TS 32.632 apply.



## 3.2 Abbreviations

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

|       |   |
|-------|---|
| CMIP  | Common Management Information Protocol                          |
| DN    | Distinguished Name  |
| GDMO  | Guidelines for the Definition of Managed Objects                |
| IDL   | Interface Definition Language                                   |
| IEC   | International Electro-technical Commission                      |
| ISO   | International Standards Organization                            |
| ITU-T | International Telecommunication Union, Telecommunication Sector |
| MIB   | Management Information Base                                     |
| MIM   | Management Information Model                                    |
| MIT   | Management Information Tree (or Naming Tree)                    |
| MOC   | Managed Object Class  |
| MOI   | Managed Object Instance   |
| NE    | Network Element   |
| NR    | Network Resource  |
| NRM   | Network Resource Model  |
| TMN   | Telecommunications Management Network                           |
| UTRAN | UMTS Terrestrial Radio Access Network                           |

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## 4 Basic aspects

### 4.1 Explanation

A technology independent CN network resource model is defined in 3GPP TS 32.632 for 3G networks. This document provides an implementation of this CN network resource model by using CMIP technology.

### 4.2 Mapping

The semantic of the CN Network Resource Model is defined in 3GPP TS 32.632. The specification of the information object classes defined there is independent of any implementation technology and protocol.

This subclause maps these technology and protocol independent definitions onto the equivalencies of the CMIP Solution Set of the UTRAN Network Resource IRP.

#### 4.2.1 Mapping of MOCs

Table 2 maps the information object classes defined in the CN Network Resource Model onto the equivalent MOCs of the CMIP Solution Set.

Table 1: Mapping of MOCs

| Managed Objects of the CN NR IRP NRM | MOCs of this CMIP SS |
|--------------------------------------|----------------------|
| AucFunction                          | aucFunction          |
| BgFunction                           | bgFunction           |
| EirFunction                          | eirFunction          |
| GgsnFunction                         | ggsnFunction         |
| GmscFunction                         | gmscFunction         |
| HlrFunction                          | hlrFunction          |
| MscFunction                          | mscFunction          |
| SgsnFunction                         | sgsnFunction         |
| SmsGmscFunction                      | smsGmscFunction      |
| SmslwmscFunction                     | smslwmscFunction     |
| VlrFunction                          | vlrFunction          |
| SmlcFunction                         | smlcFunction         |
| GmlcFunction                         | gmlcFunction         |
| ScfFunction                          | scfFunction          |
| SrfFunction                          | srfFunction          |
| CbcFunction                          | cbcFunction          |
| CqfFunction                          | cqfFunction          |
| MgwFunction                          | mgwFunction          |
| GmscFunction                         | gmscFunction         |
| IwfFunction                          | iwfFunction          |
| MnpSrfFunction                       | mnpSrfFunction       |
| NpdbFunction                         | npdbFunction         |
| RSgwFunction                         | rSgwFunction         |
| SsfFunction                          | ssfFunction          |
| BsFunction                           | bsFunction           |

## 4.2.2 Mapping of Attributes

Table 2: Mapping of Attributes

| Attribute defined in 3GPP TS 32.632 | Attribute defined in this CMIP SS |
|-------------------------------------|-----------------------------------|
| UserLabel                           | userLabel (ITU-T M.3100 1995)     |
| aucFunctionId                       | aucFunctionId                     |
| bgFunctionId                        | bgFunctionId                      |
| eirFunctionId                       | eirFunctionId                     |
| ggsnFunctionId                      | ggsnFunctionId                    |
| gmscFunctionId                      | gmscFunctionId                    |
| hlrFunctionId                       | hlrFunctionId                     |
| mscFunctionId                       | mscFunctionId                     |
| vlrFunctionId                       | vlrFunctionId                     |
| sgsnFunctionId                      | sgsnFunctionId                    |
| smsGmscFunctionId                   | smsGmscFunctionId                 |
| smslwmscFunctionId                  | smslwmscFunctionId                |
| smlcFunctionId                      | smlcFunctionId                    |
| gmlcFunctionId                      | gmlcFunctionId                    |
| scfFunctionId                       | scfFunctionId                     |
| srfFunctionId                       | srfFunctionId                     |
| cbcFunctionId                       | cbcFunctionId                     |
| cqfFunctionId                       | cqfFunctionId                     |
| mgwFunctionId                       | mgwFunctionId                     |
| gmscFunctionId                      | gmscFunctionId                    |
| iwfFunctionId                       | iwfFunctionId                     |
| mnpSrfFunctionId                    | mnpSrfFunctionId                  |
| npdbFunctionId                      | npdbFunctionId                    |
| rSgwFunctionId                      | rSgwFunctionId                    |
| ssfFunctionId                       | ssfFunctionId                     |
| bsFunctionId                        | bsFunctionId                      |

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## 5 GDMO Definitions

### 5.1 Managed Object Classes

#### 5.1.1 smlcFunction

**smlcFunction** MANAGED OBJECT CLASS

DERIVED FROM “3GPP TS 32.624 Release 4”: managedFunction;

CHARACTERIZED BY

smlcFunctionBasicPackage PACKAGE

BEHAVIOUR **smlcFunctionBasicPackageBehaviour**;

ATTRIBUTES

smlcFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 1};

**smlcFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents SMLC functionality. For more information about the SMLC, see 3GPP TS 23.002";

#### 5.1.2 gmlcFunction

**gmlcFunction** MANAGED OBJECT CLASS

DERIVED FROM “3GPP TS 32.624 Release 4”: managedFunction;

CHARACTERIZED BY

gmlcFunctionBasicPackage PACKAGE

BEHAVIOUR **gmlcFunctionBasicPackageBehaviour**;

ATTRIBUTES

gmlcFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 2};

**gmlcFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents GMLC functionality. For more information about the GMLC, see 3GPP TS 23.002";

#### 5.1.3 scfFunction

**scfFunction** MANAGED OBJECT CLASS

DERIVED FROM “3GPP TS 32.624 Release 4”: managedFunction;

CHARACTERIZED BY

scfFunctionBasicPackage PACKAGE

BEHAVIOUR **scfFunctionBasicPackageBehaviour**;

ATTRIBUTES

scfFunctionId GET;;;  
REGISTERED AS {ts32-634ObjectClass 3};

#### **scfFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents SCF functionality. For more information about the SCF, see 3GPP TS 23.002";

### 5.1.4 srfFunction

#### **srfFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

scfFunctionBasicPackage PACKAGE

BEHAVIOUR **srfFunctionBasicPackageBehaviour**;

ATTRIBUTES

srfFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 4};

#### **srfFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents SRF functionality. For more information about the SRF, see 3GPP TS 23.002";

### 5.1.5 cbcFunction

#### **cbcFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

cbcFunctionBasicPackage PACKAGE

BEHAVIOUR **cbcFunctionBasicPackageBehaviour**;

ATTRIBUTES

cbcFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 5};

#### **cbcFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents SBC functionality. For more information about the SBC, see 3GPP TS 23.002";

### 5.1.6 cgfFunction

#### **cgfFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

cgfFunctionBasicPackage PACKAGE

**BEHAVIOUR cgfFunctionBasicPackageBehaviour;**  
**ATTRIBUTES**

cgfFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 6};

**cgfFunctionBasicPackageBehaviour BEHAVIOUR**

DEFINED AS

" This Managed Object Class represents CGF functionality. For more information about the CGF, see 3GPP TS 23.002";

## 5.1.7 mgwFunction

**mgwFunction MANAGED OBJECT CLASS**

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

mgwFunctionBasicPackage PACKAGE

**BEHAVIOUR mgwFunctionBasicPackageBehaviour;**

**ATTRIBUTES**

mgwFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 7};

**mgwFunctionBasicPackageBehaviour BEHAVIOUR**

DEFINED AS

" This Managed Object Class represents MGW functionality. For more information about the MGW, see 3GPP TS 23.002";

## 5.1.8 gmscFunction

**gmscFunction MANAGED OBJECT CLASS**

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

gmscFunctionBasicPackage PACKAGE

**BEHAVIOUR gmscFunctionBasicPackageBehaviour;**

**ATTRIBUTES**

gmscFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 8};

**gmscFunctionBasicPackageBehaviour BEHAVIOUR**

DEFINED AS

" This Managed Object Class represents gmsc functionality. For more information about the gmsc, see 3GPP TS 23.002";

## 5.1.9 iwfFunction

**iwfFunction MANAGED OBJECT CLASS**

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

## CHARACTERIZED BY

iwfFunctionBasicPackage PACKAGE

BEHAVIOUR **iwfFunctionBasicPackageBehaviour;**

ATTRIBUTES

iwfFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 9};

**iwfFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents IWF functionality. For more information about the IWF, see 3GPP TS 23.002";

## 5.1.10 mnpSrfFunction

**mnpSrfFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

mnpSrfFunctionBasicPackage PACKAGE

BEHAVIOUR **mnpSrfFunctionBasicPackageBehaviour;**

ATTRIBUTES

mnpSrfFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 10};

**mnpSrfFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents MNPSRF functionality. For more information about the MNPSRF, see 3GPP TS 23.002";

## 5.1.11 npdbFunction

**npdbFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

npdbFunctionBasicPackage PACKAGE

BEHAVIOUR **npdbFunctionBasicPackageBehaviour;**

ATTRIBUTES

npdbFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 11};

**npdbFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents NPDB functionality. For more information about the NPDB, see 3GPP TS 23.002";

## 5.1.12 rSgwFunction

### **rSgwFunction** MANAGED OBJECT CLASS

DERIVED FROM “3GPP TS 32.624 Release 4”: managedFunction;

CHARACTERIZED BY

rSgwFunctionBasicPackage PACKAGE

BEHAVIOUR **rSgwFunctionBasicPackageBehaviour**;

ATTRIBUTES

rSgwFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 12};

### **rSgwFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents R-SGW functionality. For more information about the R-SGW, see 3GPP TS 23.002";

## 5.1.13 ssfFunction

### **ssfFunction** MANAGED OBJECT CLASS

DERIVED FROM “3GPP TS 32.624 Release 4”: managedFunction;

CHARACTERIZED BY

ssfFunctionBasicPackage PACKAGE

BEHAVIOUR **ssfFunctionBasicPackageBehaviour**;

ATTRIBUTES

ssfFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 13};

### **ssfFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents SSF functionality. For more information about the SSF, see 3GPP TS 23.002";

## 5.1.14 bsFunction

### **bsFunction** MANAGED OBJECT CLASS

DERIVED FROM “3GPP TS 32.624 Release 4”: managedFunction;

CHARACTERIZED BY

bsFunctionBasicPackage PACKAGE

BEHAVIOUR **bsFunctionBasicPackageBehaviour**;

ATTRIBUTES

bsFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 14};

### **bsFunctionBasicPackageBehaviour** BEHAVIOUR

DEFINED AS

" This Managed Object Class represents BS functionality. For more information about the BS, see 3GPP TS 23.002";

### 5.1.15 aucFunction

#### **aucFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

aucFunctionBasicPackage PACKAGE

BEHAVIOUR aucFunctionBasicPackageBehaviour;

ATTRIBUTES

aucFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 15};

aucFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"An instance of MOC represents the logical function of an AUC";

### 5.1.16 bgFunction

#### **bgFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

bgFunctionBasicPackage PACKAGE

BEHAVIOUR

bgFunctionBasicPackageBehaviour;

ATTRIBUTES

bgFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 16};

bgFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"An instance of MOC represents the logical function of an BG";

### 5.1.17 eirFunction

#### **eirFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

eirFunctionBasicPackage PACKAGE

BEHAVIOUR

eirFunctionBasicPackageBehaviour;

ATTRIBUTES



eirFunctionId GET;;;  
REGISTERED AS {ts32-634ObjectClass 17};

eirFunctionBasicPackageBehaviour BEHAVIOUR  
DEFINED AS  
"An instance of MOC represents the logical function of an EIR";

### 5.1.18 ggsnFunction

**ggsnFunction** MANAGED OBJECT CLASS  
DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;  
CHARACTERIZED BY  
ggsnFunctionBasicPackage PACKAGE  
BEHAVIOUR  
ggsnFunctionBasicPackageBehaviour;  
ATTRIBUTES  
ggsnFunctionId GET;;;  
REGISTERED AS {ts32-634ObjectClass 18};

ggsnFunctionBasicPackageBehaviour BEHAVIOUR  
DEFINED AS  
"An instance of MOC represents the logical function of an GGSN";

### 5.1.19 hlrFunction

**hlrFunction** MANAGED OBJECT CLASS  
DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;  
CHARACTERIZED BY  
hlrFunctionBasicPackage PACKAGE  
BEHAVIOUR  
hlrFunctionBasicPackageBehaviour;  
ATTRIBUTES  
hlrFunctionId GET;;;  
REGISTERED AS {ts32-634ObjectClass 19};

hlrFunctionBasicPackageBehaviour BEHAVIOUR  
DEFINED AS  
"An instance of MOC represents the logical function of a HLR";

### 5.1.20 mscFunction

**mscFunction** MANAGED OBJECT CLASS  
DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;  
CHARACTERIZED BY  
mscFunctionBasicPackage PACKAGE

**BEHAVIOUR**

mscFunctionBasicPackageBehaviour;

**ATTRIBUTES**

mscFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 21};

mscFunctionBasicPackageBehaviour BEHAVIOUR

**DEFINED AS**

"An instance of MOC represents the logical function of a MSC";;

### 5.1.21 sgsnFunction

**sgsnFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

**CHARACTERIZED BY**

sgsnFunctionBasicPackage PACKAGE

**BEHAVIOUR**

sgsnFunctionBasicPackageBehaviour;

**ATTRIBUTES**

sgsnFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 22};

sgsnFunctionBasicPackageBehaviour BEHAVIOUR

**DEFINED AS**

"An instance of MOC represents the logical function of an SGSN";;

### 5.1.22 smsGmscFunction

**smsGmscFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

**CHARACTERIZED BY**

smsGmscFunctionBasicPackage PACKAGE

**BEHAVIOUR**

smsGmscFunctionBasicPackageBehaviour;

**ATTRIBUTES**

smsGmscFunctionId GET;;;

REGISTERED AS {ts32-634ObjectClass 23};

smsGmscFunctionBasicPackageBehaviour BEHAVIOUR

**DEFINED AS**

"An instance of MOC represents the logical function of an smsGMSC";;

### 5.1.23 smsIwmscFunction

**smsIwmscFunction** MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;  
CHARACTERIZED BY  
smsIwmscFunctionBasicPackage PACKAGE  
BEHAVIOUR  
smsIwmscFunctionBasicPackageBehaviour;  
ATTRIBUTES  
smsIwmscFunctionId GET;;;  
REGISTERED AS {ts32-634ObjectClass 24};

smsIwmscFunctionBasicPackageBehaviour BEHAVIOUR  
DEFINED AS  
"An instance of MOC represents the logical function of an smsIWMSC";;

### 5.1.24 vlrFunction

**vlrFunction** MANAGED OBJECT CLASS  
DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;  
CHARACTERIZED BY  
vlrFunctionBasicPackage PACKAGE  
BEHAVIOUR  
vlrFunctionBasicPackageBehaviour;  
ATTRIBUTES  
vlrFunctionId GET;;;  
REGISTERED AS {ts32-634ObjectClass 25};

vlrFunctionBasicPackageBehaviour BEHAVIOUR  
DEFINED AS  
"An instance of MOC represents the logical function of a VLR";;

## 5.2 Attributes

### 5.2.1 smlcFunctionId

**smlcFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR EQUALITY;  
BEHAVIOUR

smlcFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 1};

**smlcFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a smlcFunction instance.";

### 5.2.2 gmlcFunctionId

**gmlcFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR EQUALITY;  
BEHAVIOUR

gmlcFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 2};

**gmlcFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a gmlcFunction instance.";

### 5.2.3 scfFunctionId

**scfFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR EQUALITY;  
BEHAVIOUR

scfFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 3};

**scfFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a scfFunction instance.";

### 5.2.4 srfFunctionId

**srfFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR EQUALITY;

**BEHAVIOUR**

srfFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 4};

**srfFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a srfFunction instance.";

**5.2.5 cbcFunctionId****cbcFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

**BEHAVIOUR**

cbcFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 5};

**cbcFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a cbcFunction instance.";

**5.2.6 cgfFunctionId****cgfFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

**BEHAVIOUR**

cgfFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 6};

**cgfFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a cgfFunction instance.";

**5.2.7 mgwFunctionId****mgwFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

**BEHAVIOUR**

mgwFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 7};

**mgwFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a mgwFunction instance.";

## 5.2.8 gmscFunctionId

### **gmscFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

gmscFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 8};

### **gmscFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a gmscFunction instance.";

## 5.2.9 iwfFunctionId

### **iwfFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

iwfFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 9};

### **iwfFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a iwfFunction instance.";

## 5.2.10 mnpSrfFunctionId

### **mnpSrfFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

mnpSrfFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 10};

### **mnpSrfFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a mnpSrfFunction instance.";

## 5.2.11 npdbFunctionId

### **npdbFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

npdbFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 11};

**npdbFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a npdbFunction instance.”;

**5.2.12 rSgwFunctionId****rSgwFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

rSgwFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 12};

**rSgwFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a rSgwFunction instance.”;

**5.2.13 ssfFunctionId****ssfFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

ssfFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 13};

**ssfFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a ssfFunction instance.”;

**5.2.14 bsFunctionId****bsFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

bsFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 14};

**bsFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a bsFunction instance.”;

## 5.2.15 aucFunctionId

### **aucFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

aucFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 15};

### **aucFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a aucFunction instance.";

## 5.2.16 bgFunctionId

### **bgFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

bgFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 16};

### **bgFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a bgFunction instance.";

## 5.2.17 eirFunctionId

### **eirFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

eirFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 17};

### **eirFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a eirFunction instance.";

## 5.2.18 ggsnFunctionId

### **ggsnFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;



MATCHES FOR EQUALITY;  
BEHAVIOUR  
    ggsnFunctionIdBehaviour;  
REGISTERED AS {ts32-634Attribute 18};

**ggsnFunctionIdBehaviour** BEHAVIOUR  
DEFINED AS  
    " This attribute identifies a ggsnFunction instance.";

### 5.2.19 gmscFunctionId

**gmscFunctionId** ATTRIBUTE  
WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR EQUALITY;  
BEHAVIOUR  
    gmscFunctionIdBehaviour;  
REGISTERED AS {ts32-634Attribute 19};

**gmscFunctionIdBehaviour** BEHAVIOUR  
DEFINED AS  
    " This attribute identifies a gmscFunction instance.";

### 5.2.20 hlrFunctionId

**hlrFunctionId** ATTRIBUTE  
WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR EQUALITY;  
BEHAVIOUR  
    hlrFunctionIdBehaviour;  
REGISTERED AS {ts32-634Attribute 20};

**hlrFunctionIdBehaviour** BEHAVIOUR  
DEFINED AS  
    " This attribute identifies a hlrFunction instance.";

### 5.2.21 mscFunctionId

**mscFunctionId** ATTRIBUTE  
WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR EQUALITY;  
BEHAVIOUR  
    mscFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 21};

**mscFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a mscFunction instance.”;

## 5.2.22 vlrFunctionId

**vlrFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

vlrFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 22};

**vlrFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a vlrFunction instance.”;

## 5.2.23 sgsnFunctionId

**sgsnFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

sgsnFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 23};

**sgsnFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a sgsnFunction instance.”;

## 5.2.24 smsGsmcFunctionId

**smsGsmcFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

smsGsmcFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 24};

**smsGsmcFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a smsGmscFunction instance.";

## 5.2.25 smsIwmscFunctionId

**smsIwmscFunctionId** ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-634TypeModule.GeneralObjectId;

MATCHES FOR EQUALITY;

BEHAVIOUR

    smsIwmscFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 25};

**smsIwmscFunctionIdBehaviour** BEHAVIOUR

DEFINED AS

" This attribute identifies a smsIwmscFunction instance.";

## 5.3 Name Binding

### 5.3.1 smlcFunction - managedElement

**smlcFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS smlcFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": WITH ATTRIBUTE smlcFunctionId;

BEHAVIOUR

    smlcFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 1};

**smlcFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a smlcFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.2 gmlcFunction - managedElement

**gmlcFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS gmlcFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": WITH ATTRIBUTE gmlcFunctionId;

BEHAVIOUR

    gmlcFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 2};

#### **gmlcFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a gmlcFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.3 scfFunction - managedElement

#### **scfFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS scfFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;

WITH ATTRIBUTE scfFunctionId;

BEHAVIOUR

scfFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 3};

#### **scfFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a scfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.4 srfFunction - managedElement

#### **srfFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS srfFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": WITH ATTRIBUTE srfFunctionId;

BEHAVIOUR

srfFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 4};

#### **srfFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a srfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.5 cbcFunction - managedElement

#### **cbcFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS `cbcFunction`;  
NAMED BY SUPERIOR OBJECT CLASS “3GPP TS 32.624 Release 4”: WITH ATTRIBUTE  
`cbcFunctionId`;  
BEHAVIOUR  
    `cbcFunction-managedElementBehaviour`;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 5};

#### **cbcFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a `managedElement` contains and controls a `cbcFunction`. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.6 `cgfFunction` - `managedElement`

#### **cgfFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS `cgfFunction`;  
NAMED BY SUPERIOR OBJECT CLASS “3GPP TS 32.624 Release 4”: WITH ATTRIBUTE  
`cgfFunctionId`;  
BEHAVIOUR  
    `cgfFunction-managedElementBehaviour`;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 6};

#### **cgfFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a `managedElement` contains and controls a `cgfFunction`. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.7 `mgwFunction` - `managedElement`

#### **mgwFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS `mgwFunction`;  
NAMED BY SUPERIOR OBJECT CLASS “3GPP TS 32.624 Release 4”: WITH ATTRIBUTE  
`mgwFunctionId`;  
BEHAVIOUR  
    `mgwFunction-managedElementBehaviour`;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 7};

#### **mgwFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a `managedElement` contains and

controls a mgwFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.8 gmscFunction - managedElement

#### **gmscFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS gmscFunction;  
 NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": WITH ATTRIBUTE gmscFunctionId;  
 BEHAVIOUR  
 gmscFunction-managedElementBehaviour;  
 CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
 DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
 REGISTERED AS {ts32-634NameBinding 8};

#### **gmscFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a gmscFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.9 iwffFunction - managedElement

#### **iwffFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS iwffFunction;  
 NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": WITH ATTRIBUTE iwffFunctionId;  
 BEHAVIOUR  
 iwffFunction-managedElementBehaviour;  
 CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
 DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
 REGISTERED AS {ts32-634NameBinding 9};

#### **iwffFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a iwffFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.10 mnpSrfFunction - managedElement

#### **mnpSrfFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS mnpSrfFunction;  
 NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": WITH ATTRIBUTE mnpSrfFunctionId;  
 BEHAVIOUR  
 mnpSrfFunction-managedElementBehaviour;  
 CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
 DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 10};

#### **mnpSrfFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a mnpSrfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.11 npdbFunction - managedElement

#### **npdbFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS npdbFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": WITH ATTRIBUTE npdbFunctionId;

BEHAVIOUR

npdbFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 11};

#### **npdbFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a npdbFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.12 rSgwFunction - managedElement

#### **rSgwFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS rSgwFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": WITH ATTRIBUTE rSgwFunctionId;

BEHAVIOUR

rSgwFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 12};

#### **rSgwFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a rSgwFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.13 ssfFunction - managedElement

#### **ssfFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS ssfFunction;

NAMED BY SUPERIOR OBJECT CLASS “3GPP TS 32.624 Release 4”: WITH ATTRIBUTE  
ssfFunctionId;  
BEHAVIOUR  
    ssfFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 13};

#### **ssfFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a ssfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.14 bsFunction - managedElement

#### **bsFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS bsFunction;  
NAMED BY SUPERIOR OBJECT CLASS “3GPP TS 32.624 Release 4”: WITH ATTRIBUTE  
bsFunctionId;  
BEHAVIOUR  
    bsFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 14};

#### **bsFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a bsFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.15 aucFunction - managedElement

#### **aucFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS aucFunction;  
NAMED BY SUPERIOR OBJECT CLASS “3GPP TS 32.624 Release 4”: managedElement;  
WITH ATTRIBUTE aucFunctionId;  
BEHAVIOUR  
    aucFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 15};

#### **aucFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS



"The name binding represents a relationship in which a managedElement contains and controls a aucFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.16 bgFunction - managedElement

#### **bgFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS bgFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;

WITH ATTRIBUTE bgFunctionId;

BEHAVIOUR

bgFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 16};

#### **bgFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a bgFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.17 eirFunction - managedElement

#### **eirFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS eirFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;

WITH ATTRIBUTE eirFunctionId;

BEHAVIOUR

eirFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 17};

#### **eirFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a eirFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.18 ggsnFunction - managedElement

#### **ggsnFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS ggsnFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;

WITH ATTRIBUTE ggsnFunctionId;  
BEHAVIOUR  
    ggsnFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 18};

#### **ggsnFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a ggsnFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.19 gmscFunction - managedElement

#### **gmscFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS gmscFunction;  
NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;  
WITH ATTRIBUTE gmscFunctionId;  
BEHAVIOUR  
    gmscFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 19};

#### **gmscFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a gmscFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.20 hlrFunction - managedElement

#### **hlrFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS hlrFunction;  
NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;  
WITH ATTRIBUTE hlrFunctionId;  
BEHAVIOUR  
    hlrFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 20};

#### **hlrFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a hlrFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.21 mscFunction - managedElement

#### **mscFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS mscFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;

WITH ATTRIBUTE mscFunctionId;

BEHAVIOUR

mscFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 21};

#### **mscFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a mscFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.22 vlrFunction - managedElement

#### **vlrFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS vlrFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;

WITH ATTRIBUTE vlrFunctionId;

BEHAVIOUR

vlrFunction-managedElementBehaviour;

CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-634NameBinding 22};

#### **vlrFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a vlrFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.23 sgsnFunction - managedElement

#### **sgsnFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS sgsnFunction;

NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;

WITH ATTRIBUTE sgsnFunctionId;  
BEHAVIOUR  
    sgsnFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 23};

**sgsnFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a sgsnFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.24 smsGmscFunction - managedElement

**smsGmscFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS smsGmscFunction;  
NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;  
WITH ATTRIBUTE smsGmscFunctionId;  
BEHAVIOUR  
    smsGmscFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 24};

**smsGmscFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a smsGmscFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

### 5.3.25 smsIwmscFunction - managedElement

**smsIwmscFunction-managedElement** NAME BINDING

SUBORDINATE OBJECT CLASS smsIwmscFunction;  
NAMED BY SUPERIOR OBJECT CLASS "3GPP TS 32.624 Release 4": managedElement;  
WITH ATTRIBUTE smsIwmscFunctionId;  
BEHAVIOUR  
    smsIwmscFunction-managedElementBehaviour;  
CREATE WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 25};

**smsIwmscFunction-managedElementBehaviour** BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a smsIwmscFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

---

## 6 ASN.1 Definitions

```
TS32-634TypeModule { ccitt (0) identified-organization (4) etsi (0)
    mobileDomain (0) umts-Operation-Maintenance (3) ts32-634 (634)
    informationModel (0) asn1Module (2) version1 (1) }
```

```
DEFINITIONS IMPLICIT TAGS ::=
```

```
BEGIN
```

```
--EXPORTS everything
```

```
IMPORTS
```

```
GeneralObjectId FROM TS32-624TypeModule { ccitt (0) identified-organization (4) etsi (0)
    mobileDomain (0) umts-Operation-Maintenance (3) ts32-624 (624)
    informationModel (0) asn1Module (2) version1 (1) }
```

```
-- 3GPP TS 32.634 related Object Identifiers
```

```
baseNodeUMTS OBJECT IDENTIFIER ::= { itu-t(0) identified-organization(4) etsi(0) mobileDomain(0)
    umts-Operation-Maintenance(3) }
```

```
ts32-634 OBJECT IDENTIFIER ::= { baseNodeUMTS ts32-634(634) }
```

```
ts32-634InfoModel OBJECT IDENTIFIER ::= { ts32-634 informationModel(0) }
```

```
ts32-634ObjectClass OBJECT IDENTIFIER ::= { ts32-634InfoModel managedObjectClass(3) }
```

```
ts32-634Package OBJECT IDENTIFIER ::= { ts32-634InfoModel package(4) }
```

```
ts32-634Parameter OBJECT IDENTIFIER ::= { ts32-634InfoModel parameter(5) }
```

```
ts32-634NameBinding OBJECT IDENTIFIER ::= { ts32-634InfoModel nameBinding(6) }
```

```
ts32-634Attribute OBJECT IDENTIFIER ::= { ts32-634InfoModel attribute(7) }
```

```
ts32-634Action OBJECT IDENTIFIER ::= { ts32-634InfoModel action(9) }
```

```
ts32-634Notification OBJECT IDENTIFIER ::= { ts32-634InfoModel notification(10) }
```

```
-- Start of 3gPP SA5 own definitions
```

```
END -- of TS32-634TypeModule
```

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## Annex A (informative): Change history

| Change history |       |           |     |     |  |       |       |
|----------------|-------|-----------|-----|-----|--|-------|-------|
| Date           | TSG # | TSG Doc.  | CR  | Rev | Subject/Comment  | Old   | New   |
| Jun 2001       | S_12  | SP-010283 | --  | --  | Approved at TSG SA #12 and placed under Change Control | 2.0.0 | 4.0.0 |
| Sep 2001       | S_13  | SP-010478 | 001 | --  | Correction due to TS renumbering                       | 4.0.0 | 4.1.0 |
|                |       |           |     |     |  |       |       |
|                |       |           |     |     |  |       |       |
|                |       |           |     |     |  |       |       |

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# History

| <b>Document history</b> |                |             |
|-------------------------|----------------|-------------|
| V4.0.0                  | June 2001      | Publication |
| V4.1.0                  | September 2001 | Publication |
|                         |                |             |
|                         |                |             |
|                         |                |             |