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(Release 7)

GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS

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Contents

Foreword

This Technical Report 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

There are two main areas of the study considered:

- Modelling the Information
  - o   Model the information required. (i.e. IS level of information)
  - o   Specify technology solution(s) (i.e. similar to Solution Set level of information)
- Accessing the Modelled information
  - o   Consider the need for standard interface
  - o   What mechanisms may be used to access Information Model instances e.g. re-use or extension to Itf-N IRPs and other methods

Addressing the Modelling Information is deemed first requisite and can be addressed relatively independently of how the information may be accessed.

For these two areas the study includes:

- Business Case
- Use Cases
- Requirements

In the supporting annexes the following are included:

- items for potential further study are provide
- an example Information Model Specification and example instantiation

1 Scope

The present document is focused on studying IRP Information Modelling to increase the interoperability of IRP based systems. The documents comprising conceptual overview, business case, Use Cases and Requirements. The findings and proposals of the study may be used to help generate new Technical Specifications (TS) and/or enhance existing Technical Specifications.

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 TR 21.905: "Vocabulary for 3GPP Specifications".

[2]   Wikipedia http://en.wikipedia.org/wiki/Information_model .

[3]   OMG Unified Modelling Language http://www.uml.org/

3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

CM   Configuration Management
EM   Element Manager
FM   Fault Management
IM   Information Model
IOC   Information Object Class
IRP   Integration Reference Point
ISV   Independent Software Vendor
Itf-N   Interface N
NE   Network Element
NEM   Network Element Manager
NM   Network Manager
NMC   Network Manager Centre
NRM   Network Resource Model
OCL   Object Constraint Language
P2P   Peer to Peer (interface)
PM   Performance Management
UML   Unified Modelling Language
URL   Uniform Resource Locator
WI   Work Item

4 Information Model IRP Study

4.1 Problem Domain and Conceptual Overview

4.1.1 Problem Domain

In general the main driving force behind the definition of an information model is to provide formalism to the description of a problem domain without constraining how that description is mapped to an actual implementation in software (ref: [2]). The problem domain considered here how the definition of an IRP Information Model may improve the interoperability between NMs IRPManagers with typically associated ISV specific applications, and EM/NE's IRPAgents with typically vendors' NE specific implementations.

The business case in clause 4.2 discusses this further

4.1.2 Conceptual Overview

An information model is an abstract but formal representation of entities including their properties, relationships and the operations that can be performed on them, ref: [xx]. The entities, relationships and operations here are those defined within the scope of NRM IRPs and Interface IRPs, ref: TS 32.101 [xx] and TS 32.102 [xx]. The main driving force behind the definition of an information model is to provide formalism to the description of a problem domain without constraining how that description is mapped to an actual implementation in software.

Figure 4.1.1 provides a conceptual overview and context of IRP Information Model.

Clause 4.3.1 provides Use Cases for the capability of querying IMs.

Clause 4.3.2 provides Use Cases for accessing IMs.

Clause 4.4 provides the proposed distilled requirements from these Uses Cases.
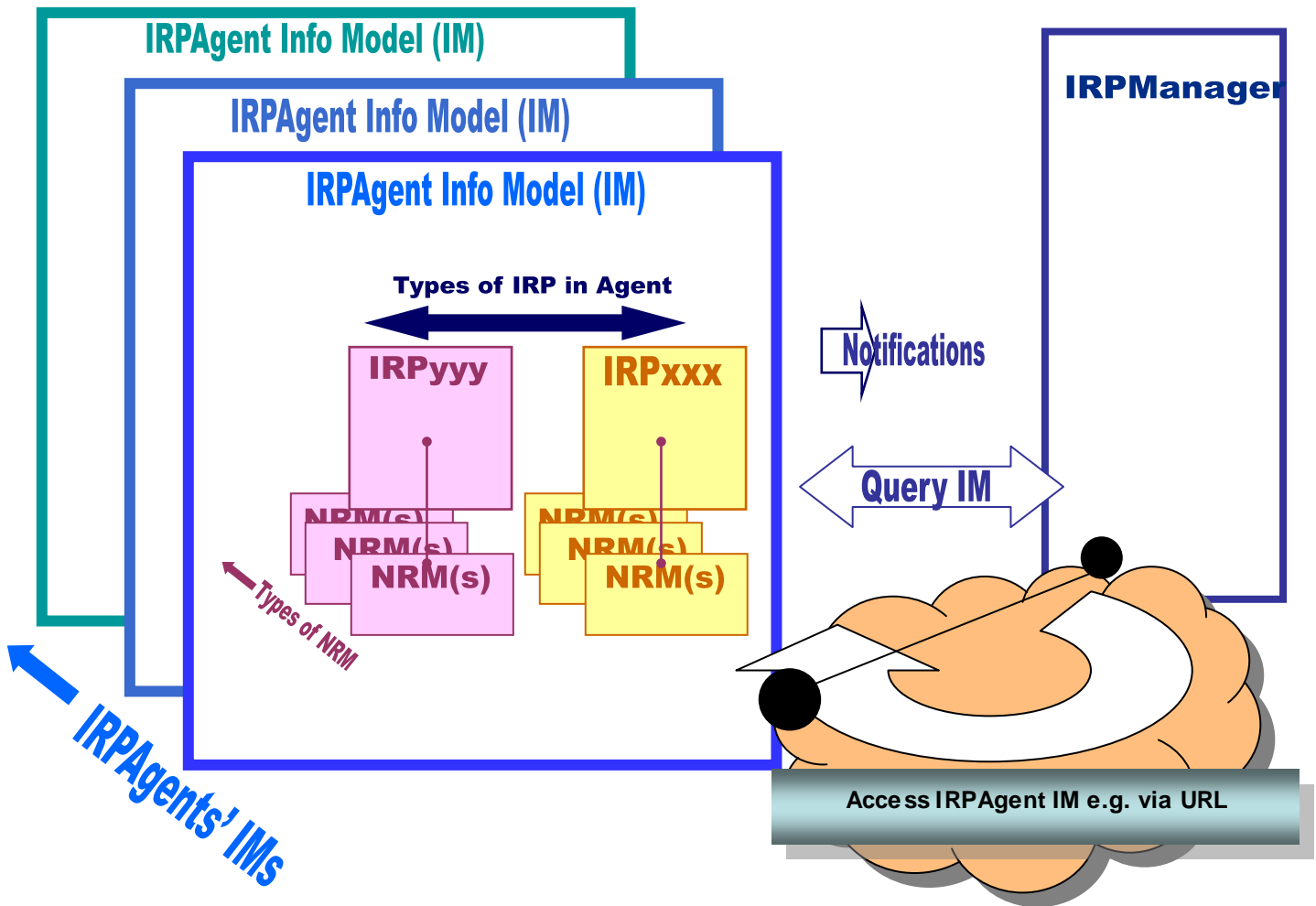
Figure 4.1.1: Conceptual overview and context of IRP Information Model

4.2 Business Case

Currently it is not specified in standard way how an NMC/IRPManager may access details of NEM/IRPAgent's Information Model realization. This type of information is required by an NMC/IRPManager to be able to manage aspects of a vendor specific implementation efficiently and improve interoperability. In general, NMC/IRPManagers will be required to interface to several NEM/IRPAgents from different vendors, each of which may support variants of NRM optionality and have vendor specific extensions to the standard NRMs for CM and PM. A NEM/IRPManager needs knowledge of this information if it is to manage optionality and vendors specific extension over Itf-N.

This type of information is currently typically just specified in TS specifications for the standard NRMs e.g. Configuration Management (CM) Integration Reference Point (IRP) Network Resource Models (NRMs). However even these specifications do not provide details of vendor specific extensions and support for optional parts, such as optional attributes and optional notifications associated with IOCs. A similar situation applies to Performance Management (PM) NRM and associated Measurements.

It is proposed to expose to the NEM/IRPManager the information it needs to manage NEM/IRPAgent optionality and vendors specific extension over Itf-N in the form of standard based Information Model (IM). (Subject to further study may also be applied for Itf-P2P, Itf-N interfaces).

Further details of the proposal follow.

The IM IRP would provide standard IRPAgent Information Model that can be accessed by IRPManagers in multi-vendor IRPAgent specific implementation environment, in association with Itf-N, to provide following benefits and areas of impact. See also the conclusion in clause 4.5 for some possible caveats:

1. Provides an IRPManager with the ability to be able to query on per IOC type basis which IOCs and Attributes are supported by IRPAgent's implementation.
2. Provides an IRPManager with the ability to be able to query which FM and CM Notifications are supported and for which types of IOCs by IRPAgent's implementation.
3. Provides an IRPManager with the ability to be able to query which types of IOCs may be created, deleted and which attributes are write-create, read-only (RO) or read-write (RW) for an IRPAgent implementation. (This may be used an IRPManager for example to enable it to prevent invoking operation/sub-operations against IOCs that are not supported by IRPAgent implementation which would otherwise be rejected and result in general failure).
4.
5. 3GPP allows 3GPP NRMs to be vendor specifically extended using subclassing (inheritance) and extension (containment/inheritance). The IM IRP can provide support to the IRPManager by allowing it to discover these extensions.
6. Provides an IRPManager with the ability to be able to query an IRPAgent implementation support for both CM NRM and PM NRM (measurements) Information.
7. Enables IRPAgents to expose their IM in standard way.
8. Supports a multi-vendor environment.
9. Since both 3GPP and vendor specific extension capabilities can be exposed in a common way by the IM IRP, this provides an IRPManager with the ability to be able to query an IRPAgent's for both standard and vendor specific extensions capabilities in a common way.
10. The IM IRP provides the ability for an IRPAgent to expose IM variants to different IRPManagers, e.g. only standard 3GPP specific to some and 3GPP plus vendor specific extensions to others.
11. Provides vendors specific information to IRPManager to enable it not invoke operation/sub-operations against IOCs that are not supported by IRPAgent implementation which would otherwise be rejected and result in general failure.
12. CO~OP WID compatible.
13. If the IM is supported over the Itf-p2p, then it can enable the capability for enhanced inter-vendor network management.
14. There is a view that it could facilitate updated versions of NEs to be deployed rapidly. This however is not proven as part of this study and would require further study on a case by case basis and so is not a claim as part of this study.
15. There is a view that it could facilitate vendor specific NEM and NE point releases to be release to network rapidly without impacting IRPManager/NMC and other vendors NEM/NEs. This however is not proven as part of this study and would require further study on a case by case basis and so is not a claim as part of this study.

4.3 Use Cases

4.3.1 Potential Query Capability Use Cases
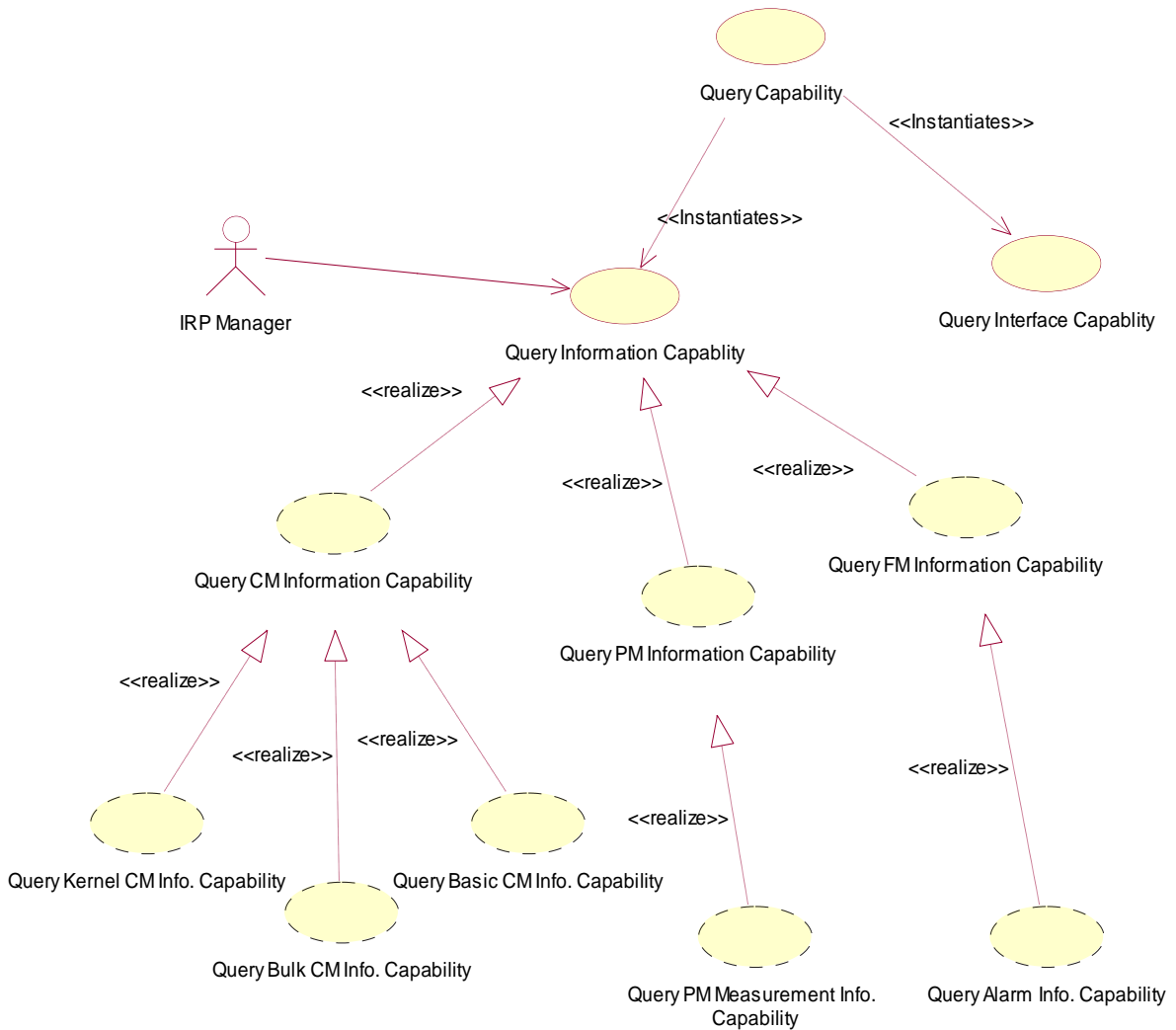
Figure 4.3.1: Query Capability Use Case Diagram

In the following skeletal Use Cases, the term "IM" for Information Model is used. The definition in the context of the proposed IM IRP will need to firmed up and agreed, but for now it is defined:

IM = Is an Information Model that contains information specified in 3GPP NRM Technical Specifications in the Context of Interface IRPs plus additional supporting information.

The Use Cases expands further as to what information is contained in the IM(s)

4.3.1.1 Query CM Information Capability Use Cases

4.3.1.1.1 Query Kernel CM Information Capability

<Use Case Start>

1. The IRP Manager gets the IRP Agent IM
2. The IRP Manager queries IRPAgent's IM for Kernel CM
3. The IRP Manager queries Kernel CM IM for *network specific* IM, e.g. Utran, Geran, Vendor Specific etc
4. The IRP Manager queries *network specific* IM for supported IOCs
5. The IRP Manager queries IM supported IOCs for the supported notifications, i.e notifyObjectCreation, notifyObjectDeletion, notifyAttributeValueChange, notifyStateChange

<Use Case Finish>

4.3.1.1.2 Query Bulk CM Information Capability

<Use Case Start>

1. The IRP Manager gets the IRP Agent IM
2. The IRP Manager queries IRPAgent's IM for Bulk CM
3. The IRP Manager queries Bulk CM IM for *network specific* IM, e.g. Utran, Geran, Vendor Specific etc
4. The IRP Manager queries *network specific* IM for supported IOCs
5. The IRP Manager queries IM supported IOCs for IOCs that can be Created or Deleted over Itf-N with Bulk CM IRP.
6. The IRP Manager queries IM supported IOCs for supported Attributes and their properties which includes: RO / RW Access, attribute valid values, filterable, data type, etc

<Use Case Finish>

4.3.1.1.3 Query Basic CM Information Capability

<Use Case Start>

1. The IRP Manager gets the IRP Agent IM
2. The IRP Manager queries IRPAgent's IM for Basic CM
3. The IRP Manager queries Basic CM IM for *network specific* IM, e.g. Utran, Geran, Vendor Specific etc
4. The IRP Manager queries *network specific* IM for supported IOCs
5. The IRP Manager queries IM supported IOCs for IOCs that can be Created or Deleted over Itf-N with Basic CM IRP.
6. The IRP Manager queries IM supported IOCs for supported Attributes and their properties which includes: RO / RW Access, attribute valid values, filterable, data type, etc

<Use Case Finish>

4.3.1.2 PM Information Model Use Cases

4.3.1.2.1 Query PM Measurement Information Capability

<Use Case Start>

1. The IRP Manager gets the IRP Agent IM
2. The IRP Manager queries IRP Agent for the PM IRP IM.
3. The IRP Manager queries the PM IRP IM for *network specific* IM, e.g. Utran, Geran, Vendor Specific etc
4. The IRP Manager queries the *network specific* IM for supported IOCs.
5. The IRP Manager queries the IOCs for the supported measurements, and associated family name, measurement name, subcounter, datatype, etc.

<Use Case Finish>

4.3.1.3 FM Information Model Use Cases

4.3.1.3.1 Query Alarm Information Capability

<Use Case Start>

1. The IRP Manager gets the IRP Agent IM
2. The IRP Manager queries IRP Agent for the Alarm IRP IM.

3. The IRP Manager queries the Alarm IRP IM for *network specific* IM, e.g. Utran, Geran, Vendor Specific etc

4. The IRP Manager queries the *network specific* IM for supported IOCs.

5. The IRP Manager queries the IOCs for the supported notifications and Alarms, i.e.: notifyChangedAlarm, notifyClearedAlarm, notifyNewAlarm etc. and Alarm ProbableCauses/PrecievedSeverities

<Use Case Finish>

4.3.2 Information Model Access Use Cases

Figure 4.3.2.1: Information Model Access Use Case

<Use Case Start>

  1. The IRP Manager is provided with with a method to access information about how and where it can access IRPAgents' Information Models.

  2. The IRP Manager uses the method to get the location of the Information Model for the instance of the IRPAgent it wishes to query its capabilities.

3. The IRP Manager establishes access to the Information Model. The IM will be in a standard format e.g. XMl.

  4. The IRP Manager then uses the query information capability use cases as outlined above.

<Use Case Finish>

4.4 Requirements

The following Requirements have been identified following the Business Case and Use Case studies.

Information Model Access

1. The IM for an IRPAgent shall have query capability. It may be queried by the IRP Manager either or both of the following ways:
   - o The IM may be queried over the Itf-N associated with the IRPAgent
   - o The IM may be queried other than by the Itf-N, for example via a URL services, reading instantiated IM on medias such as CD, etc.
2. The IM should be able to support versioning i.e. associated with standard IRPs, NRMs and measurements and versions and vendor specific realizations.

CM Infromation Capabilities

3. The IM may be queried for an IRPAgents Kernel CM IRP capabilities for standard 3GPP NRM IOCs and vendor specific extension IOCs.
   - o For each of the IOCs supported, the IRP Manager shall be able to identify which Kernel CM notifications are supported i.e. , i.e notifyObjectCreation, notifyObjectDeletion, notifyAttributeValueChange, notifyStateChange
4. The IM may be queried for an IRPAgents Bulk CM IRP capabilities for 3GPP standard NRM IOCs and vendor specific extensions.
   - o For each of the IOCs supported, the IRP Manager shall be able to identify which IOCs can be created, deleted and changed.
   - o For each of the IOCs supported, the IRP Manager shall be able to identify which attributes are supported, their properties which will include: RO/RW Access, attribute valid values, filterable, data type, etc.
5. The IM may be queried for an IRPAgents Basic CM IRP capabilities for 3GPP standard NRM IOCs and vendor specific extensions.
   - o For each of the IOCs supported, the IRP Manager shall be able to identify which IOCs can be created, deleted and changed.
   - o For each of the IOCs supported, the IRP Manager shall be able to identify which attributes are supported, their properties which will include: RO/RW Access, attribute valid values, filterable, data type, etc.

PM Infromation Capabilities

6. The IM may be queried for an IRPAgents PM IRP capabilities for 3GPP standard PM measures and IOCs supported, and vendor specific extension PM measurements and extension.
   - o For each of the IOCs supported, the IRP Manager shall be able to identify the supported measurements, associated family name, measurement name, subcounters, and data types etc associated with the measurement.

FM Information Capabilities

7. The IM may be queried for an IRPAgents Alarm IRP capabilities for 3GPP standard NRM IOCs supported, and vendor specific extension IOCs.
   - o For each of the IOCs supported, the IRP Manager shall be able to identify the supported Alarm notifications i.e. notifyChangedAlarm, notifyClearedAlarm, notifyNewAlarm etc. and Alarm ProbableCauses/PrecievedSeveritiy.

4.5 Conclusions

See clause 4.2 for a list of potential benefits. Note however, there are some differences of opinion on the benefit of being able to provide the IM at run-time. Also applying it and getting the benefits from legacy network elements, is questioned by some. It is understood there may be issues here.

It is recommended that Information Model discovery should be further studied in Release 8 as one part of SA5 LTE feasibility study.

As can be seen from Annex B, an application and implementations is feasible. More work would need to be done on this though and other approaches (e.g. UML Profile) may be better.

Some of the potential additional issues that could be addressed are discussed in Annex A.

Regarding the next steps and potential new Release 8 Work Items and possible specification work, this will need to be discussed further in SA5. There does however seem to be potential immediate benefit to apply in the IM IRP to some of the existing 32.abc NRM specifications, so that the standard models and capabilities specified in the TS can be expressed in formal and machine readable way. Also, as part of a new Study Work Item for LTE, it has been agreed consider how Information Model Discovery may be able to address the challenges of OAM&P for an LTE enabled network.

Annex A:
Discussion Points For Potential Further Study

A.1 General Issues of Version Dependent Information, accessing and Information Model Relationship

There is a general Use Case for Accessing Information Model. In the above Use Case we identify some more specific aspects of the Use Case associated with focusing in a more limited scope. It also proposes, some specific changes and methods for solving the problem e.g. proposing the use of getNRMVersion() method. The purpose was to kick-off further discussion and focus on some of the issues that need to be addressed. Following these discussions, a specific area that is seen as requiring broader discussion is the general area of Versioning. Behind this Use Case, there can be envisaged a more general Use Case for Accessing Information Model. In both the general and this more specific Use Case the basic requirement to enable The IRP Manager to get the IRP Agent IM, as can be seen in all the Use Cases in 4.3.1.

In the above IM Access Use Case the term "IM Version" is used. We need to be careful maybe the semantics of this. Note this is not "IRP Version", or "NRM Version". From this use case we can IM versioning requirements need to be addressed. Following the SA5#45 meeting, we agreed this is part of general issue for Interface IRPs and NRMs. This topic is within the scope of R7 Backward Compatibility WI, so we take the discussion into this forum.

From the Information Model Study we have two aspects we would like addressed and considered:

- Addressing resolving versioning issues when we need to get The IRP Manager gets the IRP Agent IM.
- From the study, we think the Information Model may itself help address and solve some other more general aspects of Versioning i.e. in the realm of IRP Version, NRM version, etc. In these areas IM may help address requirements and problems associated versioning in general.
- The "classic" 3GPP and vendors specific version identification and associations between Interface IRPs and NRMs, is also an issue that needs to be considered most likely in the solution for Information Model, e.g. how does the IM for an IRPAgent handle an IRPAgent implementation being able to support different versions of 3GPP and vendors specific extensions.

This contribution does not propose solution to the above three points. The contribution is intended to open the topic for further discussion and agree the scope and how best to proceed to study, identify the requirements and how they may be addressed.

Below are few rough sketches. These are not considered complete or necessarily "correct". They are just intended to help to visualise the scope of the space to work. A few bullet points are added to help the discussion. This is subject to further study.
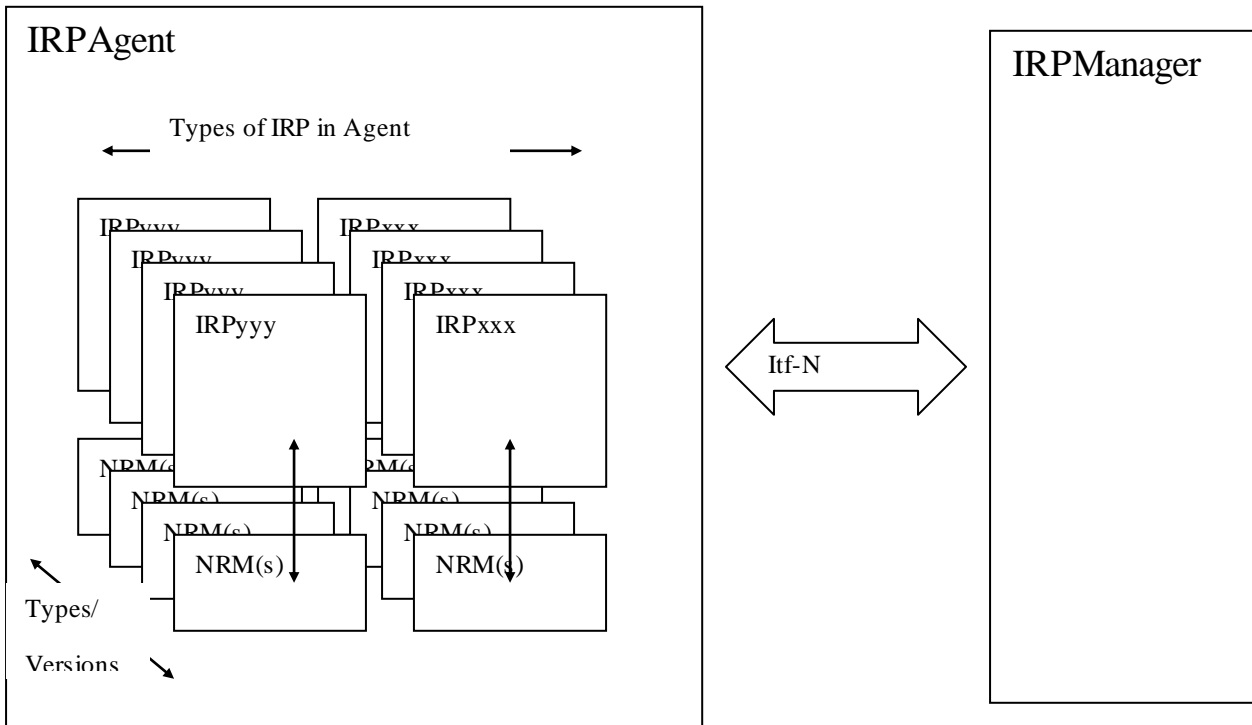
Figure A.1.1: An Example General View, see also figure 4.1.1

- In an IRPManager's world one or more instances of IRPAgent may exist.

- An IRPAgent in general supports one or more type of IRP --- Within scope of IM

  o For each type one or more versions may be supported. – Within scope of IM

    ▪ For each version one or more instances may be supported.

- Each of the IRPs versions may support one or more types of NRM --- Within scope of IM

  o For each of the NRMs one or more versions may be supported.

Currently version information can be obtained via Entry Point IRP, Kernel CM IRP's GetNRM Version(s), and Generic Interface IRP operations getIRPVersions.

The requirements for IM's Get IRP Agents IM capability , is similar to solution provided by Entry Point IRP, getIRPReference, but not the same.

- In an IRPManager's world one or more instances of IRPAgent may exist with an associated IM.

- An IRPAgent in general supports one or more type of IRP --- Within scope of IM

  o For each type one or more versions may be supported. – Within scope of IM, but needs clarification how support.

    ▪ For each version one or more instances may be supported. --- An IM instance can be provided for each (get IRP Agent IM). (One instance of IM may apply to several IRPAgents, but semantics same i.e. implementation)

- Each of the IRPs versions may support one or more types of NRM --- Within scope of IM

  o For each of the NRMs one or more versions may be supported. --- Within scope of IM Study

Annex B:
Example Information Model Specification and Example Instantiation

B.1 Example Information Model Specification (Integration Reference Point IS Level)

This is an example only. This definition is at the IRP IS level. The definition is limited to UML Class Diagram. A limited number of classes and attributes are identified. Following the study it is envisage a full specification would need to be more comprehensive and additional information added following the IS template.

As part of the study this was the first example. Subsequently we have also studied a solution for specify and instantiating the Information Model based on extending the NRM UML Model; by defining an "IM" UML Profile ref [3] in order to allow the formal capture of IM data e.g. access rights, supported CM actions and emitted notifications. This as a solution requires further study, but would seem to provide a better and more formal solution.

Clause B.2 provides an example XMI Solution Set level instantiation decomposed from this example.

The Information Model specified here is a generic Information Model derived from the Use Cases and Requirements identified in the clauses 4.3 and 4.4 respectively. It is not intended to be comprehensive decomposition of all the Use Cases and Requirements.

The UML Class Diagram here is based on the TS 32.152 UML Repertoire. Following the study it may be necessary to extend the repertoire to meet the additional UML needed to specify a generic Information Model for 3GPP OAM&P.
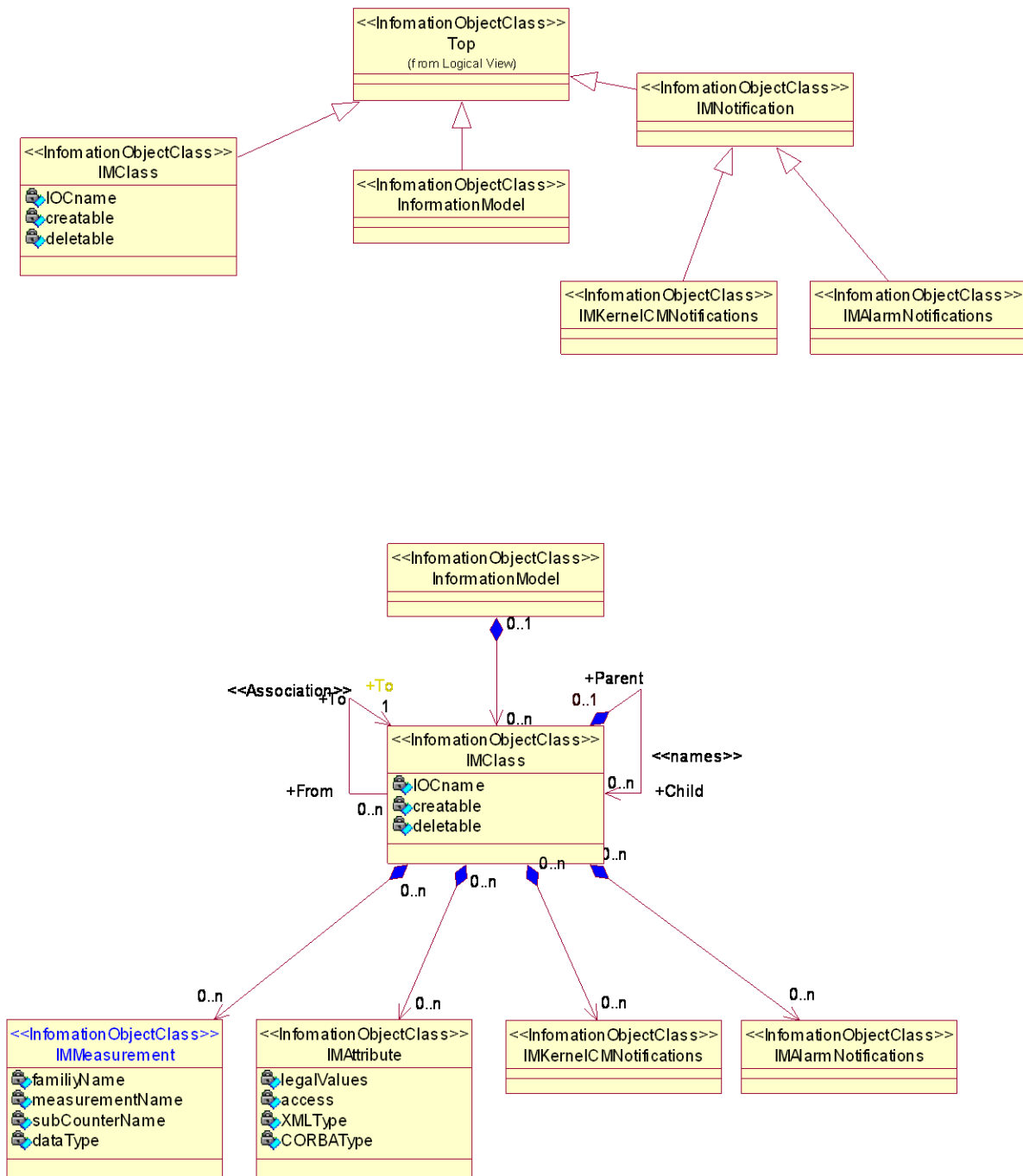
Figure B.1 Example Information Model UML Class Diagram to Specify Generic I

B.2 Example Information Model XMI Solution Set and Example Instantiation

The XMI file in this clause is just an example of how to represent UML instance diagrams in XMI. Following the if approach is agreed then there is a significant ammount of extra work needed on the XMI format, especially in terms of datatypes.

The main objective here is to represent the general approach that can be followed for IM, that is:

- Modeling the 3GPP NRM Meta model as UML classes and their associations.
- Modeling the 3GPP NRMs as UML instances (of the NRM Meta-Model classes) and their associations.
- Use an XMI file as the means of serializing NRMs for NMC access.

The XMI in this clause is based XMI version 2.1 for UML version 2.1

The XMI was generated using a tool. As part of the work flow, the 3GPP UML repertiore based Class Diagram in clause B.1 had to be restated and be based on UML version 2.1.
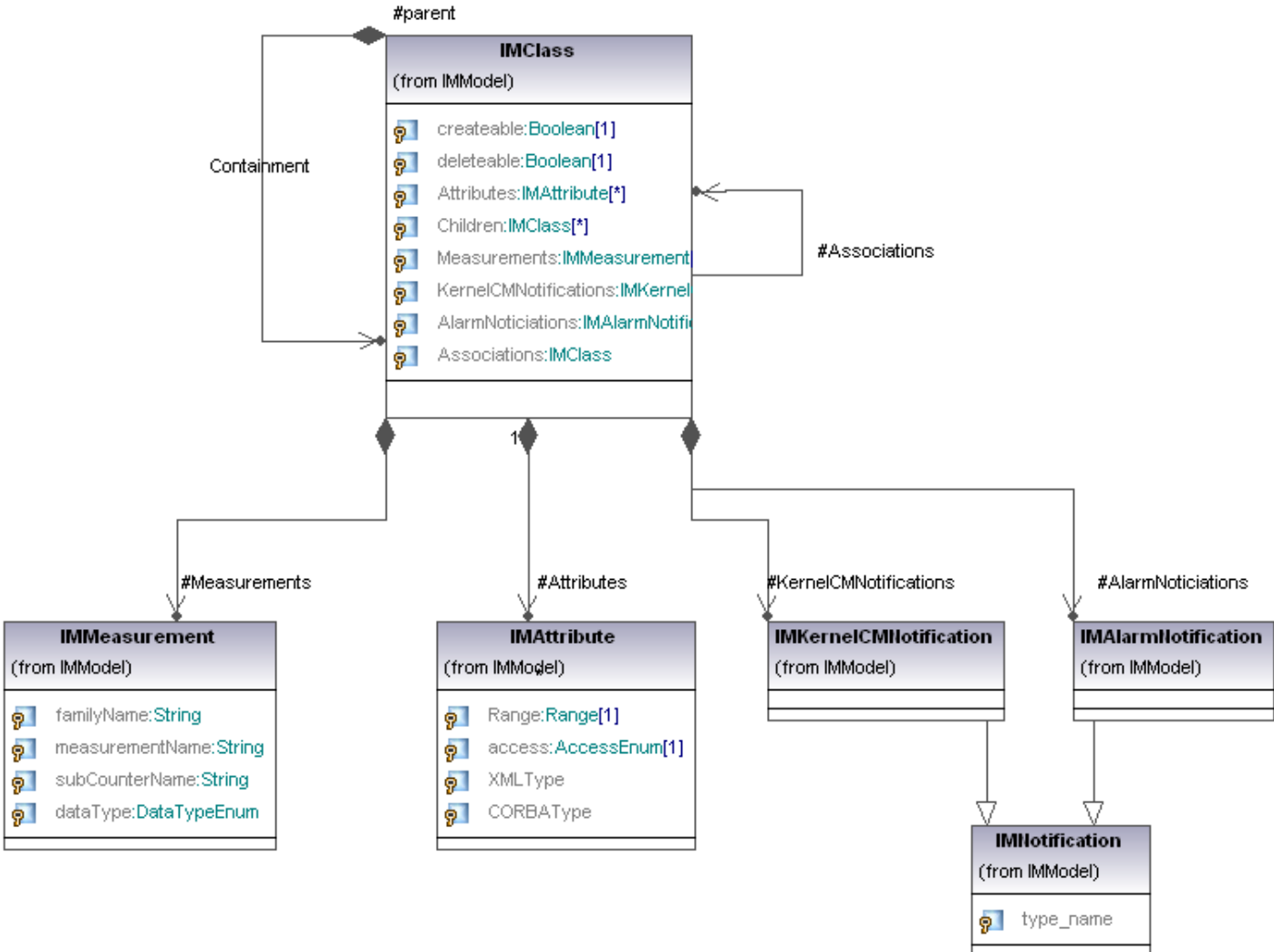
Figure B.2.1: Information Model Class Diagram from clause B.1
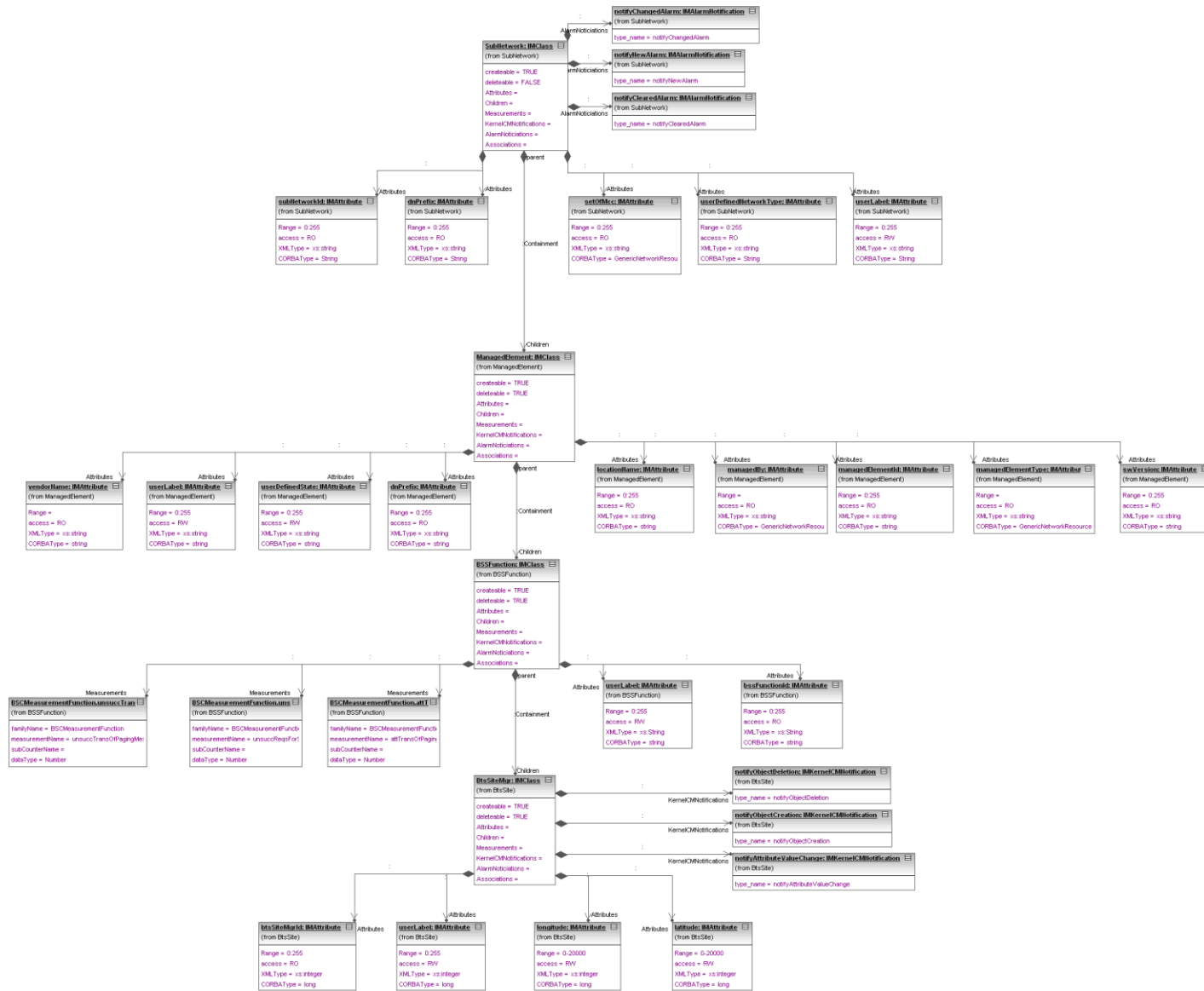
Figure B.2.2: Example IM UML Class Diagram Instantiation for an IRPAgent supporting 32.622 Generic NRM and 32.642 UTRAN NRM

B.3 Example IM XMI File Derived From B.2 Example Instantiation

As this XMI is machine generated for this example, the Ids and references are not easily human readable. See comments at start of clause B.2.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xmi:XMI xmlns:xmi="http://schema.omg.org/spec/XMI/2.1" xmlns:uml="http://schema.omg.org/spec/UML/2.1" xmi:version="2.1">
    <xmi:Documentation contact="www.3gpp.org" exporter="3gpp" exporterVersion="1.0"/>
    <uml:Package xmi:id="U00000001-7510-11d9-86f2-000476a22f44" name="Root">
        <packagedElement xmi:type="uml:Package" xmi:id="U00000003-7510-11d9-86f2-000476a22f44" name="Component View" visibility="public"/>
        <packagedElement xmi:type="uml:Package" xmi:id="U07694a07-eb99-47a6-8e75-2e3845c835b7" name="IMModel" visibility="public">
            <packagedElement xmi:type="uml:Class" xmi:id="Ud26fd300-a0d6-4852-8b44-197f59774ea7" name="IMClass" visibility="public">
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                    <upperValue xmi:type="uml:LiteralString" xmi:id="U86e94b0e-2ef2-49b4-badb-540f631417d6" value="*"/>
                </ownedAttribute>
                <ownedAttribute xmi:type="uml:Property" xmi:id="Ua8a5caa4-f985-4a4d-b33e-dd89deda9916" name="Children" visibility="protected"
aggregation="composite" type="Ud26fd300-a0d6-4852-8b44-197f59774ea7">
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                <ownedAttribute xmi:type="uml:Property" xmi:id="Ufdb0118b-be79-491d-a5b3-013932a35927" name="Measurements" visibility="protected"
aggregation="composite" type="Ud00068d5-77c8-4fc8-af33-0ba1662163d9">
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aggregation="composite" type="U2dea9f37-2e7f-4c4c-983b-632fc6bf866a"/>
                <ownedAttribute xmi:type="uml:Property" xmi:id="U6813874b-8ebd-4ae6-bc26-0c1608d3798e" name="AlarmNoticiations" visibility="protected"
aggregation="composite" type="U2152b847-2141-4621-8f8a-e9cf76f50d83"/>
                <ownedAttribute xmi:type="uml:Property" xmi:id="U6beb190f-db7b-4035-a880-e2ce02bce74b" name="Associations" visibility="protected" type="Ud26fd300-
a0d6-4852-8b44-197f59774ea7"/>
            </packagedElement>
            <packagedElement xmi:type="uml:Class" xmi:id="Ubb450157-ce02-4896-b1f3-929e02a2541e" name="IMAttribute" visibility="public">
                <ownedAttribute xmi:type="uml:Property" xmi:id="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8" name="Range" visibility="protected" type="Uf7517c2e-aeec-
4aac-b645-3524788d1917">
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                <ownedAttribute xmi:type="uml:Property" xmi:id="U27e02804-81dc-4cee-aa0e-e47e420c96a7" name="access" visibility="protected" type="Udce7eb6c-09d2-
4fe9-8a32-1225e86a5132">
                    <lowerValue xmi:type="uml:LiteralString" xmi:id="U68ae8fe0-d272-4975-8b29-fbbfe26d7dcb" value="1"/>
                    <upperValue xmi:type="uml:LiteralString" xmi:id="U819ab8f8-174e-4692-b520-2fb39a078725" value="1"/>
                </ownedAttribute>
                <ownedAttribute xmi:type="uml:Property" xmi:id="U2f9784fc-ef65-4e06-8152-e926ccc67c2a" name="XMLType" visibility="protected"/>
                <ownedAttribute xmi:type="uml:Property" xmi:id="U9644ac85-3287-475e-8599-d0e0d306014f" name="CORBAType" visibility="protected"/>
            </packagedElement>
            <packagedElement xmi:type="uml:Enumeration" xmi:id="Udce7eb6c-09d2-4fe9-8a32-1225e86a5132" name="AccessEnum" visibility="public"/>
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            <packagedElement xmi:type="uml:DataType" xmi:id="U19b10ca7-0a78-498c-9953-70c91a04f4cf" name="Boolean" visibility="public"/>
            <packagedElement xmi:type="uml:DataType" xmi:id="Uf03bf7f6-9a16-4656-9778-e78c2edede00" name="Integer" visibility="public"/>
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            <packagedElement xmi:type="uml:DataType" xmi:id="U793a9a6b-77d2-40b5-a14f-381472ea312a" name="String" visibility="public"/>
            <packagedElement xmi:type="uml:Class" xmi:id="U037b033c-78f0-4395-9656-0de8d7135f03" name="IMNotification" visibility="public">
                <ownedAttribute xmi:type="uml:Property" xmi:id="U44b3b6cb-d16d-48f7-81c4-db29717869d6" name="type_name" visibility="protected"/>
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            <packagedElement xmi:type="uml:Class" xmi:id="Ud00068d5-77c8-4fc8-af33-0ba1662163d9" name="IMMeasurement" visibility="public">
                <ownedAttribute xmi:type="uml:Property" xmi:id="U592b1c52-243b-48bc-99dc-1e4ddeea5c5e" name="familyName" visibility="protected" type="U793a9a6b-
77d2-40b5-a14f-381472ea312a"/>
                <ownedAttribute xmi:type="uml:Property" xmi:id="Ub611178e-4356-405d-9d4b-0283532ceb1c" name="measurementName" visibility="protected"
type="U793a9a6b-77d2-40b5-a14f-381472ea312a"/>
                <ownedAttribute xmi:type="uml:Property" xmi:id="U1d0a50eb-3305-4ffe-ae92-2b5843b9d235" name="subCounterName" visibility="protected"
type="U793a9a6b-77d2-40b5-a14f-381472ea312a"/>
                <ownedAttribute xmi:type="uml:Property" xmi:id="U2a1c4735-54f7-412c-9996-78f2e25f31b8" name="dataType" visibility="protected" type="U22781a2a-99a8-
4062-abac-47b7d919a14b"/>
            </packagedElement>
            <packagedElement xmi:type="uml:Class" xmi:id="U2152b847-2141-4621-8f8a-e9cf76f50d83" name="IMAlarmNotification" visibility="public">
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            </packagedElement>
            <packagedElement xmi:type="uml:Class" xmi:id="U2dea9f37-2e7f-4c4c-983b-632fc6bf866a" name="IMKernelCMNotification" visibility="public">
                <generalization xmi:type="uml:Generalization" xmi:id="U899bda92-46e0-4838-ace9-8cb7fac0e9d3" general="U037b033c-78f0-4395-9656-0de8d7135f03"/>
            </packagedElement>
        </packagedElement>
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            <packagedElement xmi:type="uml:Package" xmi:id="Uc1d0e3e4-79e7-4926-8d7f-49197360d5a7" name="BSSFunction" visibility="public">
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U30b5a800-10f5-4c9a-a787-3f72e7c2f86d" name="BSSFunction" visibility="public"
classifier="Ud26fd300-a0d6-4852-8b44-197f59774ea7">
                    <slot xmi:type="uml:Slot" xmi:id="Ue2a5a3b6-3720-4810-ba0a-f847d5928533" definingFeature="U98055ad9-19e3-49ad-9c5d-37083f5b5f74">
                        <value xmi:type="uml:LiteralString" xmi:id="U1a5ef8af-4ca3-45bc-ad15-85b50ec5fb02" value="TRUE"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="Ud459829c-7f72-40e2-bf6e-d890d27fd0a5" definingFeature="U92ce992a-c7a4-494e-a004-42a816b42626">
                        <value xmi:type="uml:LiteralString" xmi:id="Uaff4eb15-93fa-4166-9659-9492773d0d58" value="TRUE"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Ud730cfb5-fe59-4407-98fe-3853c1e5876c" name="userLabel" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                    <slot xmi:type="uml:Slot" xmi:id="U3df61c99-2edc-430d-b8fd-c196e5809ffd" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                        <value xmi:type="uml:LiteralString" xmi:id="Uf6a13575-95d4-48ae-a887-d11d8411f83b" value="RW"/>
                    </slot>
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            <slot xmi:type="uml:Slot" xmi:id="Ud0029163-3946-4f76-9872-78b70c7b662f" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                <value xmi:type="uml:LiteralString" xmi:id="Ueeb69e75-75dc-44a7-af94-0219447d292b" value="0:255"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Ue4e61503-cb48-4713-8c2e-fb1197967664" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                <value xmi:type="uml:LiteralString" xmi:id="U6902ccb9-365a-40f9-8653-431dd3fcbf26" value="xs:String"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U1be73995-0e38-4edd-a546-7d4afca7690b" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                <value xmi:type="uml:LiteralString" xmi:id="U8af94bce-b9d3-472a-be23-bf4f4d15c8ca" value="string"/>
            </slot>
        </packagedElement>
        <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U28e19d6f-ff5c-49ef-936c-489443b58cbd" name="bssFunctionId" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
            <slot xmi:type="uml:Slot" xmi:id="U43332d03-ef04-44e0-bbb3-87a24f2c9ebf" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                <value xmi:type="uml:LiteralString" xmi:id="U6305ad72-fcec-420d-b167-61c2a6d1ef17" value="RO"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U657cd583-7880-421a-91bd-71f135a6e7c8" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                <value xmi:type="uml:LiteralString" xmi:id="U493a421f-d764-4829-a2d9-40e1eb2a921f" value="0:255"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Ue44a0586-95dc-4db7-bd59-6a2831233e2f" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                <value xmi:type="uml:LiteralString" xmi:id="U7675ba65-36ea-42fd-9a47-1855c62d15bb" value="string"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U69fd0b76-dbf0-4e9c-b664-6068789d91fb" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                <value xmi:type="uml:LiteralString" xmi:id="U64e97151-8df6-41fa-88a3-08954639be3b" value="xs:String"/>
            </slot>
        </packagedElement>
        <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U484bdc77-56ad-416d-bddb-2d16edb2da4a"
name="BSCMeasurementFunction.unsuccReqsForService" visibility="public" classifier="Ud00068d5-77c8-4fc8-af33-0ba1662163d9">
            <slot xmi:type="uml:Slot" xmi:id="U68f62b49-4add-4a75-96af-d24438441a9c" definingFeature="U592b1c52-243b-48bc-99dc-1e4ddeea5c5e">
                <value xmi:type="uml:LiteralString" xmi:id="U845540d0-8d79-4fcc-909c-36334d3703fa" value="BSCMeasurementFunction"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Ue60d4ecc-9924-4d00-af5c-d114dc2edb49" definingFeature="Ub611178e-4356-405d-9d4b-0283532ceb1c">
                <value xmi:type="uml:LiteralString" xmi:id="U25017e74-a081-41aa-bcb9-58231b43d59d" value="unsuccReqsForService"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Ubf9b13f9-feaf-4ee7-b24d-8dcec61cf136" definingFeature="U2a1c4735-54f7-412c-9996-78f2e25f31b8">
                <value xmi:type="uml:LiteralString" xmi:id="U89125624-05c9-47fa-92e7-f4ae365c7eed" value="Number"/>
            </slot>
        </packagedElement>
        <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U43488821-2f8e-44f8-a08f-e91ca4b4397c"
name="BSCMeasurementFunction.attTransOfPagingMessagesPerBSC" visibility="public" classifier="Ud00068d5-77c8-4fc8-af33-0ba1662163d9">
            <slot xmi:type="uml:Slot" xmi:id="U3455188f-802d-4957-86de-16aae922406b" definingFeature="U2a1c4735-54f7-412c-9996-78f2e25f31b8">
                <value xmi:type="uml:LiteralString" xmi:id="U2286c678-db60-42b5-8abf-f578afbbbaf6" value="Number"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Uf890d2fe-c36e-447e-93e0-7a145829a137" definingFeature="U592b1c52-243b-48bc-99dc-1e4ddeea5c5e">
                <value xmi:type="uml:LiteralString" xmi:id="Ufc1e68b1-2d45-4707-ba9e-bd5d45922a29" value="BSCMeasurementFunction"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U3d6ec015-d91e-42bf-9255-45ea662032f9" definingFeature="Ub611178e-4356-405d-9d4b-0283532ceb1c">
                <value xmi:type="uml:LiteralString" xmi:id="Ua78a6869-5682-4aee-b553-06167c532cc5" value="attTransOfPagingMessagesPerBSC"/>
            </slot>
        </packagedElement>
        <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Ud0fb0ff8-317a-443d-bfa2-847ee4cb5611"
name="BSCMeasurementFunction.unsuccTransOfPagingMessagesPerBSC" visibility="public" classifier="Ud00068d5-77c8-4fc8-af33-0ba1662163d9">
            <slot xmi:type="uml:Slot" xmi:id="U14b6b876-96e2-4408-b988-483c8991f65c" definingFeature="U592b1c52-243b-48bc-99dc-1e4ddeea5c5e">
                <value xmi:type="uml:LiteralString" xmi:id="Uddec1a15-941b-4000-83f9-85b51e031250" value="BSCMeasurementFunction"/>
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            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U20dfc882-3e47-4c46-8557-04f676e8c7b3" definingFeature="Ub611178e-4356-405d-9d4b-0283532ceb1c">
                <value xmi:type="uml:LiteralString" xmi:id="U0fe6bf21-ab1f-4d76-b2bb-248d8d6cae44" value="unsuccTransOfPagingMessagesPerBSC"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Ue2a9b2df-1b83-4cda-8f2a-e8611dbffa4b" definingFeature="U2a1c4735-54f7-412c-9996-78f2e25f31b8">
                <value xmi:type="uml:LiteralString" xmi:id="U1db2cbcb-9332-4614-b059-7d619709538d" value="Number"/>
            </slot>
        </packagedElement>
    </packagedElement>
    <packagedElement xmi:type="uml:Package" xmi:id="Ufcd32a45-a411-40b6-9256-5534ee7be66b" name="BtsSite" visibility="public">
        <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U80c54885-6de7-4dda-a900-86840095d2ab" name="userLabel" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
            <slot xmi:type="uml:Slot" xmi:id="U04d96e98-af3d-4beb-8967-95489fe89c53" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                <value xmi:type="uml:LiteralString" xmi:id="U5eeef5bc-5a79-462d-bbdc-ed9d3ddfa18a" value="RW"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U55b3afe1-34b1-462c-addb-6e092d9b7355" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                <value xmi:type="uml:LiteralString" xmi:id="U30609dcf-2944-4b00-b211-d3cb1979dfda" value="0:255"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U7e691511-dbcb-4434-8a0e-ece70ffe6a04" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                <value xmi:type="uml:LiteralString" xmi:id="U64c20314-3261-4fb5-8726-5649ec0be5c2" value="xs:integer"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U5a411819-8fc8-4f9c-9f4a-8dbc29391b38" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                <value xmi:type="uml:LiteralString" xmi:id="U4d5345f3-c6df-4d0f-b359-acb6b39118b4" value="long"/>
            </slot>
        </packagedElement>
        <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U26368cfd-fb60-40ec-afc9-72f2caf47a33" name="longitude" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
            <slot xmi:type="uml:Slot" xmi:id="U5d5c4058-4656-4b30-a577-8980197b68c4" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                <value xmi:type="uml:LiteralString" xmi:id="U6481fc1c-7d7f-4af6-8f1d-3b316fd8f148" value="0-20000"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Ubb9c40ad-15f2-47e5-ba6c-6e0e5448c227" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                <value xmi:type="uml:LiteralString" xmi:id="U0fac6623-2f77-4f7c-9897-6702ba65fece" value="RW"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U4e5e5e67-fec0-436d-b903-5102773b1a9e" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                <value xmi:type="uml:LiteralString" xmi:id="U84d69c0f-ab17-440b-bd95-f937f5d87209" value="long"/>
            </slot>
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                <value xmi:type="uml:LiteralString" xmi:id="U634374fe-fcde-4b6f-ab45-03a81899eb38" value="xs:integer"/>
            </slot>
        </packagedElement>
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classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
            <slot xmi:type="uml:Slot" xmi:id="U36d990b8-7c9c-4d42-8099-4b6c72ed45d3" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                <value xmi:type="uml:LiteralString" xmi:id="U2bc01e54-0e2b-4ce6-969c-ae78e0702a24" value="0-20000"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Uf6873fed-1c68-473f-b7c3-a70defa2e9af" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                <value xmi:type="uml:LiteralString" xmi:id="U50db0c10-c64a-4199-bec5-8e20bc3e0b91" value="RW"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="U1e57f5c6-d7a1-4814-bf78-4236b2a7bbe1" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                <value xmi:type="uml:LiteralString" xmi:id="Ua4492e69-7568-46be-8cd4-76ee890b3656" value="long"/>
            </slot>
            <slot xmi:type="uml:Slot" xmi:id="Ufa92f8d1-ee83-4ac2-b25e-0ea9e7bb731d" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                <value xmi:type="uml:LiteralString" xmi:id="U8e545548-81a0-4d7c-9d2f-bf1202ed8f29" value="xs:integer"/>
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                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Uf8c1e8a8-60c0-49cb-9553-700eae61f623" name="btsSiteMgrId" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                    <slot xmi:type="uml:Slot" xmi:id="U0081794f-255b-496a-a73a-1044f0653b54" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                        <value xmi:type="uml:LiteralString" xmi:id="U4b79ca4f-c5b5-404e-90f0-f93f5251beac" value="RO"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="Ubed27c96-35fa-4159-9ee0-cfa254614ff6" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                        <value xmi:type="uml:LiteralString" xmi:id="U25252c58-d4ec-46a9-a446-26c9561a97d6" value="0:255"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U74185346-21b8-40df-81cb-2e62e1e061ea" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                        <value xmi:type="uml:LiteralString" xmi:id="Uc39f2e3b-80f2-4a02-ba45-0bf0b9ae9423" value="long"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U9e7b739c-31a0-42c0-9ecf-f73ae1c34897" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                        <value xmi:type="uml:LiteralString" xmi:id="U5e950dd1-8b8f-441a-9301-09b0b22cf10c" value="xs:integer"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Ub7405d46-4969-4826-8811-7163ec3e8778" name="BtsSiteMgr" visibility="public"
classifier="Ud26fd300-a0d6-4852-8b44-197f59774ea7">
                    <slot xmi:type="uml:Slot" xmi:id="U7ef0c66f-0185-4daf-84bd-cd48d0d82f3e" definingFeature="U98055ad9-19e3-49ad-9c5d-37083f5b5f74">
                        <value xmi:type="uml:LiteralString" xmi:id="Uad52eefd-9751-48b2-bb8e-b41d1be60ab0" value="TRUE"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U3cd5faef-7ece-42d9-84a2-0fe2f0fdf8d8" definingFeature="U92ce992a-c7a4-494e-a004-42a816b42626">
                        <value xmi:type="uml:LiteralString" xmi:id="U3a757707-e123-453b-90b1-82c4d3396f39" value="TRUE"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Ub26e9330-89ea-426a-90f1-c43ecc31096d" name="notifyObjectDeletion"
visibility="public" classifier="U2dea9f37-2e7f-4c4c-983b-632fc6bf866a">
                    <slot xmi:type="uml:Slot" xmi:id="U9dc2f896-9e19-4348-9fd4-a7b00b8144cd" definingFeature="U44b3b6cb-d16d-48f7-81c4-db29717869d6">
                        <value xmi:type="uml:LiteralString" xmi:id="U224b1bfa-4114-4cf9-9796-5595ca3e7697" value="notifyObjectDeletion"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Ueb99ce51-696b-442e-9c80-a6ef3228a7dd" name="notifyObjectCreation"
visibility="public" classifier="U2dea9f37-2e7f-4c4c-983b-632fc6bf866a">
                    <slot xmi:type="uml:Slot" xmi:id="U75c01ebe-ad37-4b63-beaf-5b3aae2f1568" definingFeature="U44b3b6cb-d16d-48f7-81c4-db29717869d6">
                        <value xmi:type="uml:LiteralString" xmi:id="U612f94ae-b20c-47cb-a2ae-385171505a79" value="notifyObjectCreation"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U6f21ee52-a734-4f68-8ceb-1763e36cb8e2" name="notifyAttributeValueChange"
visibility="public" classifier="U2dea9f37-2e7f-4c4c-983b-632fc6bf866a">
                    <slot xmi:type="uml:Slot" xmi:id="U2a960ce4-6285-442f-8d8f-3fc7d70838a9" definingFeature="U44b3b6cb-d16d-48f7-81c4-db29717869d6">
                        <value xmi:type="uml:LiteralString" xmi:id="U81c32a9c-72bc-42ba-bb15-74d69055bdee" value="notifyAttributeValueChange"/>
                    </slot>
                </packagedElement>
            </packagedElement>
        </packagedElement>
        <packagedElement xmi:type="uml:Package" xmi:id="U3ec553aa-ed2d-49db-a918-ae9cd21dc488" name="GenericIM" visibility="public">
            <packagedElement xmi:type="uml:Package" xmi:id="Ud49406d6-84c3-48fc-a44f-ad28d8f091de" name="ManagedElement" visibility="public">
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U7bdea338-0d84-487e-9386-040b5f4373ae" name="ManagedElement" visibility="public"
classifier="Ud26fd300-a0d6-4852-8b44-197f59774ea7">
                    <slot xmi:type="uml:Slot" xmi:id="U4f24d753-618e-4b2b-bb73-a8f3e0227252" definingFeature="U98055ad9-19e3-49ad-9c5d-37083f5b5f74">
                        <value xmi:type="uml:LiteralString" xmi:id="U5adf6fc7-8d47-48ab-aa76-f1abe9825829" value="TRUE"/>
                    </slot>
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                <slot xmi:type="uml:Slot" xmi:id="Uadef4e7b-7cae-4b25-b62d-7d2b1d7b03c3" definingFeature="U92ce992a-c7a4-494e-a004-42a816b42626">
                    <value xmi:type="uml:LiteralString" xmi:id="U09e904b0-b210-451a-a937-b28c0c069511" value="TRUE"/>
                </slot>
            </packagedElement>
            <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U95be3c3a-c0b6-422e-a556-657f1df05857" name="managedElementId" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                <slot xmi:type="uml:Slot" xmi:id="Uf5cd4d2b-c26a-4bc5-9d1c-df1a9a7521df" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                    <value xmi:type="uml:LiteralString" xmi:id="Ubc0d2371-30db-43bd-b804-7c3963e92c9a" value="xs:string"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U04bfc514-32b3-484c-9861-a9ac9a1d5edd" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                    <value xmi:type="uml:LiteralString" xmi:id="U184639c9-cab2-4320-a52e-01d6baac9d0b" value="RO"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="Uf1a4b2d5-1555-410d-95ec-449b8e016246" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                    <value xmi:type="uml:LiteralString" xmi:id="U1823f32e-7ffe-4316-a52f-51e39d2eab6d" value="string"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U1ad0f27f-7c17-4e10-9999-5a1d9a18e8eb" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                    <value xmi:type="uml:LiteralString" xmi:id="U053141a5-8e23-44cc-af3d-5f464d9fe39b" value="0:255"/>
                </slot>
            </packagedElement>
            <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U423f3d55-c3f7-43e5-a281-7a9777e57a7b" name="dnPrefix" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                <slot xmi:type="uml:Slot" xmi:id="U86f66dc3-b9be-4ef9-91ef-567b566835f8" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                    <value xmi:type="uml:LiteralString" xmi:id="Uf3948025-6389-49e2-b2d6-854966a96c3a" value="xs:string"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U7a377aae-60b8-4aa1-9123-8d27414bc4ff" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                    <value xmi:type="uml:LiteralString" xmi:id="Uf5393bdc-11ef-42fa-9a64-d5062cd3dd7e" value="RO"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U83d02da0-c410-43b1-860f-060f909cf194" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                    <value xmi:type="uml:LiteralString" xmi:id="Uc9690113-150e-4233-b52a-f4ea78bb2b01" value="string"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U63b2bf89-29dc-41c3-8f61-a0ab6227322d" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                    <value xmi:type="uml:LiteralString" xmi:id="Ue0956668-6a22-4f19-ad2b-b1f20df999a4" value="0:255"/>
                </slot>
            </packagedElement>
            <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U61e323df-8e1a-4f33-8b74-da6b7b79251e" name="managedElementType" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                <slot xmi:type="uml:Slot" xmi:id="U5c428671-740b-4602-bde4-ce4cbb2e3769" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                    <value xmi:type="uml:LiteralString" xmi:id="U4496c31a-2767-4bf6-89f2-baf0816ff72a" value="xs:string"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="Ua985116a-b118-4214-8421-2e2dda5cc0e0" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                    <value xmi:type="uml:LiteralString" xmi:id="U41e72ad2-0688-411c-9fb9-4fbd5e5f8c7c" value="RO"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="Ud097b1d8-c12c-48b6-b589-65cee6a2a4f3" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                    <value xmi:type="uml:LiteralString" xmi:id="U039d4809-d9cb-47ff-b114-c8ea329b3b4d"
value="GenericNetworkResourcesNRMDefs::AttributeTypes::StringSet"/>
                </slot>
            </packagedElement>
            <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Uf0ea193d-d822-4f4a-b797-37ab92f7fe50" name="userLabel" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                <slot xmi:type="uml:Slot" xmi:id="Uaa17d9a3-e732-4f3e-8531-9f9f419eaae1" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                    <value xmi:type="uml:LiteralString" xmi:id="U5a8c0ed3-e4c4-451b-8724-cb7568684867" value="RW"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U347a000b-94ed-4a30-aef3-223cf84bd10b" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
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                        <value xmi:type="uml:LiteralString" xmi:id="U70fec94e-a5ef-4901-b2aa-5df439eabf55" value="xs:string"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U6f301352-011c-490f-b34d-78571d0a1621" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                        <value xmi:type="uml:LiteralString" xmi:id="Ufe2126df-285c-4d51-8d5a-65db462cd18d" value="string"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U27872193-016f-483f-93f1-a9fb660f63ca" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                        <value xmi:type="uml:LiteralString" xmi:id="Uc5896213-4857-4fb4-bceb-724b429a81ba" value="0:255"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Ue5fbeaa9-9200-4fab-beda-10cfa4292d9d" name="vendorName" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                    <slot xmi:type="uml:Slot" xmi:id="U02604b64-66d5-420f-b2d2-701f2431b13e" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                        <value xmi:type="uml:LiteralString" xmi:id="U55ab2639-6754-4dc2-8756-e6fa43b5f16b" value="RO"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U011da24b-786e-4502-962c-3e0f28d0b6eb" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                        <value xmi:type="uml:LiteralString" xmi:id="U0d45708c-509a-460a-8627-c91341164a1c" value="xs:string"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U4c1d0837-98d9-4086-b144-e2a1998513f6" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                        <value xmi:type="uml:LiteralString" xmi:id="U8d450794-5ffa-4b84-96dc-f088ea072d98" value="string"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="Uc398a8eb-b20e-4d10-a0d1-c8f3f772453e" name="userDefinedState" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                    <slot xmi:type="uml:Slot" xmi:id="Uaad7f250-1247-478b-9faf-45fb7ba3df8e" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                        <value xmi:type="uml:LiteralString" xmi:id="Uc040dcfe-d6fd-4bcf-8c33-060e1718fabc" value="RW"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U5d41461c-a6ea-4eb5-989e-1aa1027a318f" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                        <value xmi:type="uml:LiteralString" xmi:id="Ueba0e55b-a8ba-47bd-ad7c-68e4aa174b59" value="xs:string"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="Ufdb04a59-9c82-4e8b-a52b-dd22c2c8dafa" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                        <value xmi:type="uml:LiteralString" xmi:id="U0483ab42-b9e8-444d-b5fa-e38831e6f503" value="string"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U32961f7c-76d2-46d0-a077-78533f22087e" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                        <value xmi:type="uml:LiteralString" xmi:id="U84b1c8a9-714a-403b-8b15-2c3329eb930f" value="0:255"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U644c597e-04e8-4be0-a846-44661a170a5e" name="locationName" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                    <slot xmi:type="uml:Slot" xmi:id="U1eadba74-41c2-4a05-93bf-8bd27f4e9fb5" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                        <value xmi:type="uml:LiteralString" xmi:id="U1ae67562-859b-40ab-ae74-9ffb94865e7f" value="xs:string"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U4e5ff436-ee29-4557-b207-c4c16cbe3c16" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                        <value xmi:type="uml:LiteralString" xmi:id="U4f52bdae-b226-4326-ae55-fb6b01c0ec2e" value="RO"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="U495072c3-3414-454d-94e8-f17414cf8201" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                        <value xmi:type="uml:LiteralString" xmi:id="U3d048ecf-622c-4121-8e6c-2db4efb72a74" value="string"/>
                    </slot>
                    <slot xmi:type="uml:Slot" xmi:id="Ub7bc93b4-1794-4791-bb9b-4ac74e4f4945" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                        <value xmi:type="uml:LiteralString" xmi:id="Ub11b3749-c0e7-488a-9df1-af49624a9256" value="0:255"/>
                    </slot>
                </packagedElement>
                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U32766bac-80e2-452c-b44c-4d5abfbcc3e6" name="swVersion" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
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                <slot xmi:type="uml:Slot" xmi:id="Uadbe4b9a-1101-4d46-98f9-846a0d78615a" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                    <value xmi:type="uml:LiteralString" xmi:id="Uc07d0de3-4e58-4bbd-8180-c4f4ad09d44d" value="xs:string"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U406cfcbd-78ca-43ba-b433-6b574a3eddc8" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                    <value xmi:type="uml:LiteralString" xmi:id="U4373e047-cf1f-4fed-bc06-4336ffb8af0b" value="RO"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="Uf5de47b1-a5a2-49eb-9669-63cde2a3dc98" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                    <value xmi:type="uml:LiteralString" xmi:id="Uf3693126-f1c1-49db-b0b9-dbedd64ba76c" value="string"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U6f327b63-dd61-442d-8c80-57b97e33ca32" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                    <value xmi:type="uml:LiteralString" xmi:id="U3a2a353b-dd7b-4dce-ab40-1dde690e90e9" value="0:255"/>
                </slot>
            </packagedElement>
            <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U56e1299b-0fcc-403b-a06e-9fbda3813363" name="managedBy" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                <slot xmi:type="uml:Slot" xmi:id="Uad0db2e0-942a-4c86-a05f-105057907ab2" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                    <value xmi:type="uml:LiteralString" xmi:id="U8290dd27-3343-4d44-ad29-1450c8281f20" value="xs:string"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U6b0aa1bd-bb6e-4e09-8a2a-592db3240ace" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                    <value xmi:type="uml:LiteralString" xmi:id="Uf62c5a61-a45a-4562-9512-226a225d5a2b" value="RO"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U26886804-735f-427d-a1b3-7014e673243f" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                    <value xmi:type="uml:LiteralString" xmi:id="U45f301ba-1065-4ca3-96a5-d67b864f916b"
value="GenericNetworkResourcesNRMDefs::AttributeTypes::MOReferenceSet"/>
                </slot>
            </packagedElement>
        </packagedElement>
        <packagedElement xmi:type="uml:Package" xmi:id="U33c4690d-e3a1-4c7d-a186-07fafc175850" name="SubNetwork" visibility="public">
            <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U95d2e3ad-726e-416e-a2e7-a20de2f53ac5" name="SubNetwork" visibility="public"
classifier="Ud26fd300-a0d6-4852-8b44-197f59774ea7">
                <slot xmi:type="uml:Slot" xmi:id="U5f7ac9e3-03dd-4138-9753-90be23104e26" definingFeature="U98055ad9-19e3-49ad-9c5d-37083f5b5f74">
                    <value xmi:type="uml:LiteralString" xmi:id="Uf2d6628f-bf93-440b-9dbb-1a8dd5b3b80b" value="TRUE"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U08080476-a9f7-4e20-83ac-90da34e53bf3" definingFeature="U92ce992a-c7a4-494e-a004-42a816b42626">
                    <value xmi:type="uml:LiteralString" xmi:id="Ub1c03de8-c9d6-4fb9-bba8-43fec8b6d2bb" value="FALSE"/>
                </slot>
            </packagedElement>
            <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U9b710b05-e635-4e90-b940-4eb01548fa4b" name="userLabel" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                <slot xmi:type="uml:Slot" xmi:id="Ua4b0d57f-af22-4ccf-add5-5903fdbc33f6" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
                    <value xmi:type="uml:LiteralString" xmi:id="U800f3895-28cb-4007-b15b-8be74a861847" value="String"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U2b60bd9a-4c22-43b6-9333-87a67853d6a0" definingFeature="U27e02804-81dc-4cee-aa0e-e47e420c96a7">
                    <value xmi:type="uml:LiteralString" xmi:id="U5263909f-a2fc-4509-878b-c2997a0b1699" value="RW"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="Ud6a0b47d-3c54-451a-a051-6826915d2dd4" definingFeature="U656a7407-d1e7-44b8-97f2-15d04ab1f3c8">
                    <value xmi:type="uml:LiteralString" xmi:id="U728d76af-d3c5-463f-8fdd-20f186804435" value="0:255"/>
                </slot>
                <slot xmi:type="uml:Slot" xmi:id="U9c9f60c4-eec9-4e73-b1fa-7d83be98d7f8" definingFeature="U2f9784fc-ef65-4e06-8152-e926ccc67c2a">
                    <value xmi:type="uml:LiteralString" xmi:id="U710c01cd-3d42-4d03-8e3e-e0ff839e3055" value="xs:string"/>
                </slot>
            </packagedElement>
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                <packagedElement xmi:type="uml:InstanceSpecification" xmi:id="U0f08173a-0fdb-49d6-8480-058e088f90b5" name="subNetworkId" visibility="public"
classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
                    <slot xmi:type="uml:Slot" xmi:id="Ue424a23b-bef9-4310-b7e2-86fc128953e8" definingFeature="U9644ac85-3287-475e-8599-d0e0d306014f">
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                    </slot>
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classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
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                    </slot>
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                    </slot>
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visibility="public" classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
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                        <value xmi:type="uml:LiteralString" xmi:id="U3f8a721d-2af1-4d61-9eba-b1565c05d7a1" value="0:255"/>
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classifier="Ubb450157-ce02-4896-b1f3-929e02a2541e">
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value="GenericNetworkResourcesIRPSystem::AttributeTypes::StringSet"/>
                    </slot>
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                    </slot>
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                    </slot>
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                    </slot>
                </packagedElement>
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                        <value xmi:type="uml:LiteralString" xmi:id="U2131450b-d7e5-444d-bb01-3d5c0e22f706" value="notifyChangedAlarm"/>
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classifier="U2152b847-2141-4621-8f8a-e9cf76f50d83">
                    <slot xmi:type="uml:Slot" xmi:id="U16160a92-0c65-47cf-9780-e19614559cf9" definingFeature="U44b3b6cb-d16d-48f7-81c4-db29717869d6">
                        <value xmi:type="uml:LiteralString" xmi:id="Ua1a74191-533c-47ba-9d32-578532440896" value="notifyClearedAlarm"/>
                    </slot>
                </packagedElement>
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classifier="U2152b847-2141-4621-8f8a-e9cf76f50d83">
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                    </slot>
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            </xmi:Extension>
        </packagedElement>
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a787-3f72e7c2f86d"/>
            </xmi:Extension>
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          </xmi:Extension>
        </packagedElement>
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be91-3f1c305c2209">
            <xmi:Extension extender="3gpp">
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a08f-e91ca4b4397c"/>
            </xmi:Extension>
        </packagedElement>
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be91-3f1c305c2209">
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bddb-2d16edb2da4a"/>
            </xmi:Extension>
        </packagedElement>
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be91-3f1c305c2209">
            <xmi:Extension extender="3gpp">
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bfa2-847ee4cb5611"/>
            </xmi:Extension>
        </packagedElement>
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            <memberEnd xmi:idref="U484a58f0-5868-42de-8ec2-7ad88b041a51"/>
            <ownedEnd xmi:type="uml:Property" xmi:id="U31fc4d4d-84ac-402f-bd0c-e1426cda5822" visibility="protected" type="Ud26fd300-a0d6-4852-8b44-197f59774ea7">
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                <upperValue xmi:type="uml:LiteralString" xmi:id="Ue5e7d231-ac04-4bed-8591-4055ef6481af" value="1"/>
            </ownedEnd>
            <memberEnd xmi:idref="U31fc4d4d-84ac-402f-bd0c-e1426cda5822"/>
        </packagedElement>
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            <memberEnd xmi:idref="Ua8a5caa4-f985-4a4d-b33e-dd89deda9916"/>
            <ownedEnd xmi:type="uml:Property" xmi:id="Uae32b1c6-62f2-4ac2-aea5-1e5d10472299" name="parent" visibility="protected" type="Ud26fd300-a0d6-4852-8b44-
197f59774ea7"/>
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        </packagedElement>
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            <ownedEnd xmi:type="uml:Property" xmi:id="Uf0c14477-6358-4eba-975b-3980a295aeb3" visibility="protected" type="Ud26fd300-a0d6-4852-8b44-197f59774ea7"/>
            <memberEnd xmi:idref="Uf0c14477-6358-4eba-975b-3980a295aeb3"/>
        </packagedElement>
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            <ownedEnd xmi:type="uml:Property" xmi:id="U52260fc1-6934-4973-9fb4-2d9e4a0f6975" visibility="protected" type="Ud26fd300-a0d6-4852-8b44-197f59774ea7"/>
            <memberEnd xmi:idref="U52260fc1-6934-4973-9fb4-2d9e4a0f6975"/>
        </packagedElement>
        <packagedElement xmi:type="uml:Association" xmi:id="U5533c2a5-42c2-422f-813e-272f323abb2b" visibility="public">
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            <ownedEnd xmi:type="uml:Property" xmi:id="U36cbabb5-bf0d-4af9-85c9-2bfc37536a28" visibility="protected" type="Ud26fd300-a0d6-4852-8b44-197f59774ea7"/>
            <memberEnd xmi:idref="U36cbabb5-bf0d-4af9-85c9-2bfc37536a28"/>
        </packagedElement>
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            <ownedEnd xmi:type="uml:Property" xmi:id="U4d999327-e2b2-4564-a359-0f80c93e8214" visibility="protected" type="Ud26fd300-a0d6-4852-8b44-197f59774ea7"/>
```

```
              <memberEnd xmi:idref="U4d999327-e2b2-4564-a359-0f80c93e8214"/>
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813e-272f323abb2b">
              <xmi:Extension extender="3gpp">
                  <attributeExtension instanceSpecification_LinkBegin="U95d2e3ad-726e-416e-a2e7-a20de2f53ac5" instanceSpecification_LinkEnd="U7008c8a6-350f-47ac-
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              </xmi:Extension>
          </packagedElement>
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813e-272f323abb2b">
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                  <attributeExtension instanceSpecification_LinkBegin="U95d2e3ad-726e-416e-a2e7-a20de2f53ac5" instanceSpecification_LinkEnd="U8f2f8a22-77a4-41ea-
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              </xmi:Extension>
          </packagedElement>
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813e-272f323abb2b">
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a206-fc74770a263e"/>
              </xmi:Extension>
          </packagedElement>
      </uml:Package>
</xmi:XMI>
```

3GPP

Annex C:
Change history

Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
Dec 2006	SA_34	SP-060756	--	--	Submitted to SA#34 for Information	--	1.0.0	
Mar 2007	SA_35	SP-070075	--	--	Submitted to SA#35 for Approval	--	2.0.0	7.0.0