TSGS#28(05)0329

Source: **SA5 Chair**

Title: **4 late OAM CR 32150, 32312, 32332, 32.662**

Document for: **Approval**

Agenda Item: **7.5.3**

Doc-1st-Level	Spec	CR	R	Phase	Subject	Cat	Ver-Cur	Doc-2nd-Lev	Workitem
SP-050329	32.150	0003	-	Rel-6	Change symbol used in IDL include statements	F	6.2.0	S5-056220	OAM-NIM
SP-050329	32.312	0004	-	Rel-6	Apply Generic System Context – Align with TS 32.150	F	6.1.0	S5-056244	OAM-NIM
SP-050329	32.332	0002	-	Rel-6	Apply Generic System Context – Align with TS 32.150	F	6.0.0	S5-056222	OAM-NIM
SP-050329	32.662	0008	-	Rel-6	Apply Generic System Context – Align with TS 32.150	F	6.3.0	S5-056224	OAM-NIM

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CHANGE REQUEST

⌘ 32.150 CR 0003 ⌘rev - ⌘ Current version: 6.2.0 ⌘

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

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

Title:	⌘	Change symbol used in IDL include statements
Source:	⌘	SA5 Ericsson (edwin.tse@ericsson.com)
Work item code:	⌘	OAM-NIM
Date:	⌘	06/06/2005
Category:	⌘	**F**
Release:	⌘	Rel-6

Use one of the following categories:
- ***F*** *(correction)*
- ***A*** *(corresponds to a correction in an earlier release)*
- ***B*** *(addition of feature),*
- ***C*** *(functional modification of feature)*
- ***D*** *(editorial modification)*

Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	The current symbol for include statement suggests interpretation that the idl statements published can be modified. We need to change that symbol to discourage such interpretation. The new suggested symbols are used by other standard organisations such as OMG and ITU-T when they publish their IDL statements.
Summary of change:	⌘	Change the symbol double-quotes to angle-brackets that suggests the included IDL statements are in a form of library IDL statements and should not be modified.
Consequences if not approved:	⌘	Encourage the incorrect idea that the published IDL statements can be modified.

Clauses affected:	⌘	D.1.3

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

Other comments:	⌘	

Change in Clause D.1.3

D.1.3 Include Conventions

All included IDL files shall be specified using the "..." <...> form of `#include`. For example:

```
#include <"ManagedGenericIRPConstDefs.idl>"
```

End of change in Clause D.1.3

Annex A (informative): Change history

Change history							
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**
Dec 2003	S_22	SP-030613	--	--	Submitted to TSG SA#22 for Information	1.0.0	
Mar 2004	S_23	SP-040113	--	--	Submitted to TSG SA#23 for Approval	2.0.0	6.0.0
Sep 2004	S_25	SP-040559	001	--	Add Style Guide for CORBA SS IDL	6.0.0	6.1.0
Dec 2004	SA_26	SP-040790	002	--	Add Generic System Context	6.1.0	6.2.0

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CHANGE REQUEST

⌘ 32.312 CR 0004 ⌘ rev - ⌘ Current version: 6.1.0 ⌘

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

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

Title:	⌘	Apply Generic System Context – Align with TS 32.150
Source:	⌘	**SA5** (islip@lucent.com)
Work item code:	⌘	OAM-NIM
Date:	⌘	06/06/2005
Category:	⌘	**F**
Release:	⌘	Rel-6

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

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	Today we have redundant, time-consuming and error prone duplication of the same text for the System Context in all Interface IRPs.
Summary of change:	⌘	Add a reference to TS 32.150 in clause 2. Align the title of subclause 4.1 with other Interface IRPs and modify the text of 4.1 with a generic text, referring to the new common definition in 32.150 for the System Context for all Interface IRPs, but keep the diagrams for readability.
Consequences if not approved:	⌘	Redundant, time-consuming and error prone duplication of the same text for the System Context in all Interface IRPs.

Clauses affected:	⌘	2, 4

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

Other comments: ⌘

Change in Clause 2

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*.

...

[5] 3GPP TS 32.311: "Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements".

[6] 3GPP TS 32.150: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions".

End of change in Clause 2

Change in Clause 4

4 System Ooverview

4.1 ~~4.1~~ System Cceontext

The general definition of the System Context for the present IRP is found in 3GPP TS 32.150 [6] subclause 4.7.

In addition, the set of related IRP(s) relevant to the present IRP is shown in the two diagrams below.

~~Figure 1 and figure 2 identify System contexts for this service in terms of implementations called IRPAgent and IRPManager.~~

~~"IRPManager" depicts a process that interacts with IRPAgent for the purpose of receiving network Notifications via this IRP. IRPAgent detects network events. IRPAgent sends IRPManagers notifications carrying the events. Examples of IRPManagers can be a process running supporting network Notification logging device or supporting network Notification viewing devices (such as a local craft terminal) or a process running within a Network Manager (NM) as shown in figure 1 and figure 2. IRPAgent implements and supports this IRP. IRPAgent can run within one Element Manager (EM) with one or more NEs (see figure 1) or run within one NE (see figure 2). In the former case, the interfaces (represented by a thick dotted line) between the EM and the NEs are not subject of this IRP. Whether EM and NE share the same hardware system is not relevant to this IRP either. By observing the interaction across the IRP, one cannot deduce if EM and NE are integrated in a single system or if they run in separate systems.~~

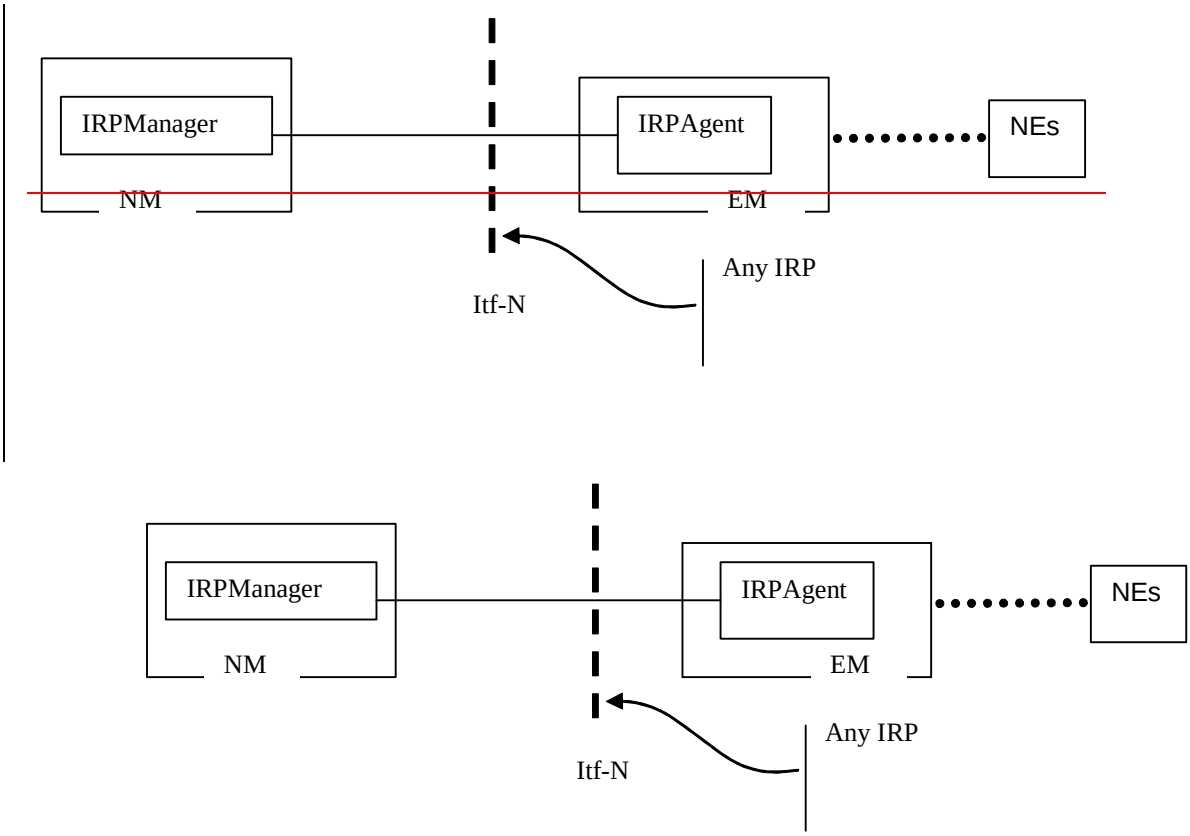

Figure 1: System Context A

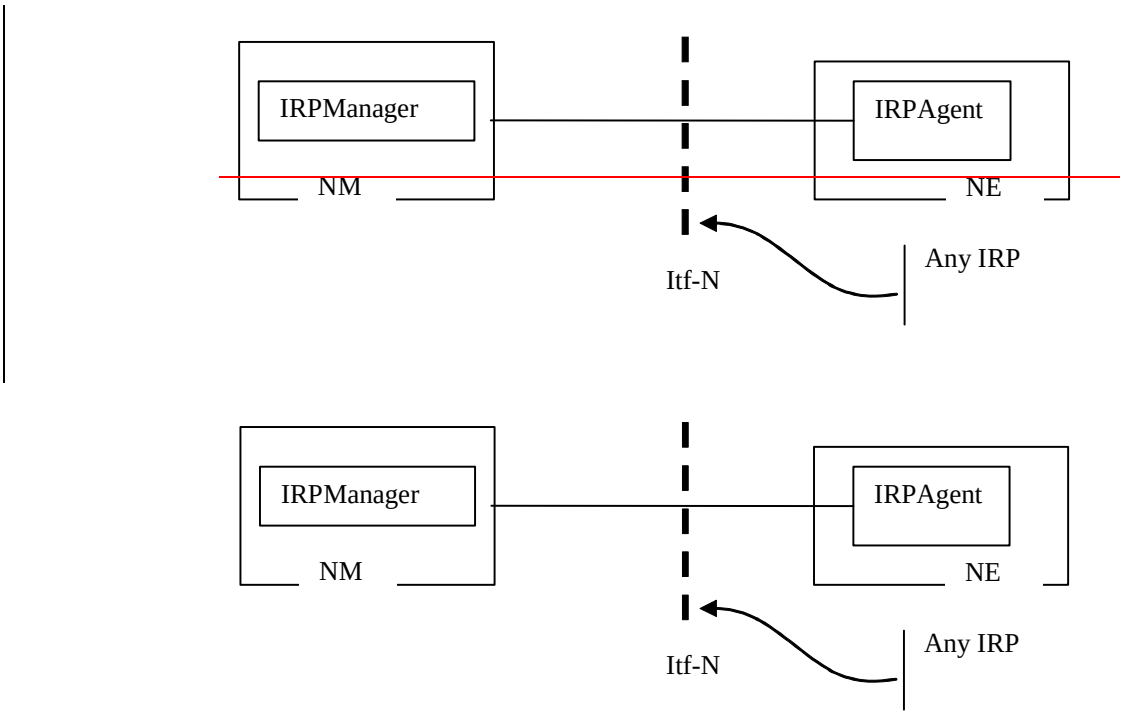

Figure 2: System Context B

End of change in Clause 4
End of Document

Annex A (informative): Change history

Change history							
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**
Jun 2001	S_12	SP-010285	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Mar 2002	S_15	--	--	--	Automatic upgrade to Rel-5 (no Rel-5 CR)	4.0.0	5.0.0
Dec 2002	--	--	--	--	Cosmetics	5.0.0	5.0.1
Dec 2003	S_22	SP-030640	002	--	Align with 32.102 and 32.311	5.0.1	5.1.0
Mar 2004	S_23	SP-040105	--	--	Automatic upgrade to Rel-6 (no CR)	5.1.0	6.0.0
Dec 2004	S_26	SP-040794	003	--	Update UML diagrams, Add reference to its CORBA/CMIP SSs	6.0.0	6.1.0

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CHANGE REQUEST

⌘ 32.332 CR 0002 ⌘rev - ⌘ Current version: 6.0.0 ⌘

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

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

Title:	⌘	Apply Generic System Context – Align with TS 32.150
Source:	⌘	**SA5** (Lucent Technologies – John Islip islip@lucent.com)
Work item code:	⌘	OAM-NIM
Date:	⌘	06/06/2005
Category:	⌘	**F**
Release:	⌘	Rel-6

Use one of the following categories:
- ***F*** *(correction)*
- ***A*** *(corresponds to a correction in an earlier release)*
- ***B*** *(addition of feature),*
- ***C*** *(functional modification of feature)*
- ***D*** *(editorial modification)*

Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	Today we have redundant, time-consuming and error prone duplication of the same text for the System Context in all Interface IRPs.
Summary of change:	⌘	Add a reference to TS 32.150 in clause 2. Align the title of subclause 4.1 with other Interface IRPs and modify the text of 4.1 with a generic text, referring to the new common definition in 32.150 for the System Context for all Interface IRPs, but keep the diagrams for readability.
Consequences if not approved:	⌘	Redundant, time-consuming and error prone duplication of the same text for the System Context in all Interface IRPs.

Clauses affected:	⌘	2 4

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

Other comments: ⌘

Change in Clause 2

2 References

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

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

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

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

[3] 3GPP TS 32.302: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP) : Information Service (IS)".

[4] 3GPP TS 32.622: "Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)".

[5] 3GPP TS 32.111-2: "Telecommunication management; Fault Management; Alarm Integration Reference Point (IRP): Information Service (IS)".

[6] 3GPP TS 32.312: "Telecommunication management; Generic Integration Reference Point (IRP) management: Information Service (IS)".

[7] 3GPP TS 32.331: "Telecommunication management; Notification Log Integration Reference Point (IRP): Requirements".

[8] 3GPP TS 32.342 "Telecommunication management; File Transfer (FT) Integration Reference Point (IRP): Information Service (IS)".

[9] 3GPP TS 32.150: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions".

End of Change in Clause 2

Change in Clause 4

4 System Ooverview

4.1 System Ccontext

The general definition of the System Context for the present IRP is found in 3GPP TS 32.150 [9] subclause 4.7.

In addition, the set of related IRP(s) relevant to the present IRP is shown in the two diagrams below

~~Figures 4.1 and 4.2 identify system contexts of the IRP defined by the present specification in terms of its implementation called IRPAgent and the user of the IRPAgent, called IRPManager. For a definition of IRPManager and IRPAgent, see 3GPP TS 32.102 [2].~~

~~The IRPAgent implements and supports this IRP. The IRPAgent can reside in an Element Manager (EM – see figure 4.1) or a Network Element (NE – see figure 4.2). In the former case, the interfaces (represented by a thick dotted line) between the EM and the NEs are not the subject of this IRP.~~

~~An IRPManager using this IRP shall choose one of the two System Contexts defined here, for each NE. For instance, if an EM is responsible for managing a number of NEs, the NM shall access this IRP through the EM and not directly to those NEs. For another IRP though, the System Context may be different.~~

~~By observing the interaction across this IRP, one cannot deduce if EM and NE are integrated in a single system or if they run in separate systems.~~

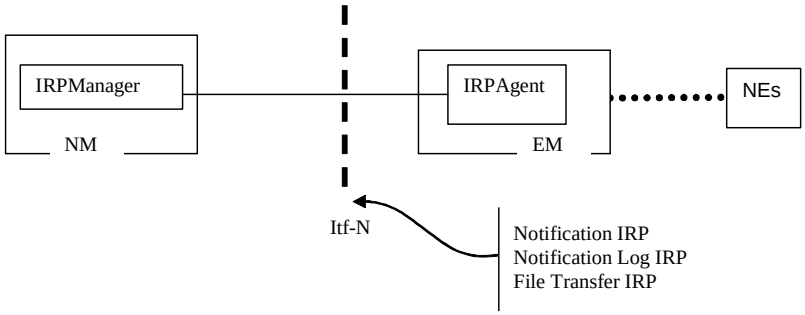

Figure 4.1: System Context A

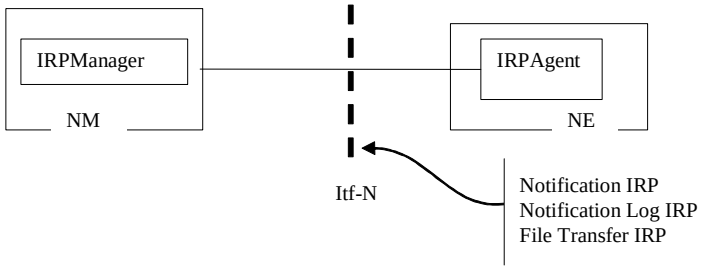

Figure 4.2: System Context B

End of change in Clause 4
End of Document

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Mar 2004	S_23	SP-040123	--	--	Submitted to SA#23 for Information	1.0.0	
Dec 2004	S_26	SP-040798	--	--	Submitted to SA#26 for Approval	2.0.0	6.0.0

CR-Form-v7

CHANGE REQUEST

⌘ 32.662 CR 0008 ⌘rev - ⌘ Current version: 6.3.0 ⌘

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

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

Title:	⌘	Apply Generic System Context – Align with TS 32.150
Source:	⌘	**SA5** (yaojing@huawei.com, Huawei Technologies Co., Ltd.)
Work item code:	⌘	OAM-NIM
Date:	⌘	06/06/2005
Category:	⌘	**F**
Release:	⌘	Rel-6

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

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	Today we have redundant, time-consuming and error prone duplication of the same text for the System Context in all Interface IRPs.
Summary of change:	⌘	Align the title of subclause 4.1 with other Interface IRPs and modify the text of 4.1 with a generic text, referring to the new common definition in 32.150 for the System Context for all Interface IRPs, but keep the diagrams for readability.
Consequences if not approved:	⌘	Redundant, time-consuming and error prone duplication of the same text for the System Context in all Interface IRPs.

Clauses affected:	⌘	2, 4, 5.

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

Other comments:	⌘	

Change in Clause 2

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*.

...

[18] 3GPP TS 32.642: "Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Network Resource Model (NRM)".

[19] 3GPP TS 32.150: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions".

End of Change in Clause 2

Change in Clause 4

4 System Ooverview

4.1 System Ccontext

The general definition of the System Context for the present IRP is found in 3GPP TS 32.150 [19] subclause 4.7.

In addition, the set of related IRP(s) relevant to the present IRP is shown in the two diagrams below.~~Figures 4.1 and 4.2 identify system contexts of the IRP defined by the present specification in terms of its implementation called IRPAgent and the user of the IRPAgent, called IRPManager. For a definition of IRPManager and IRPAgent, see TS 32.102 [2].~~

~~The IRPAgent implements and supports this IRP. The IRPAgent can reside in an Element Manager (EM) or a Network Element (NE) (see also [2] clause 8). In the former case, the interfaces (represented by a thick dotted line) between the EM and the NEs are not the subject of this IRP.~~

~~An NE can be managed via System Context A or B. The criterion for choosing System Context A or B, to manage a particular NE, is implementation dependent. An IRPAgent shall support one of the two System Contexts. By observing the interaction across the Itf-N, an IRPManager cannot deduce if the EM and NE are integrated in a single system or if they run in separate systems.~~

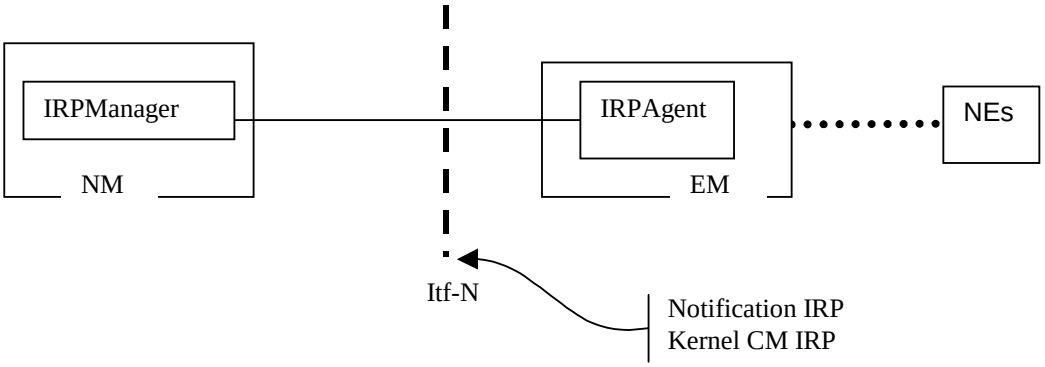

Figure 4.1: System Context A

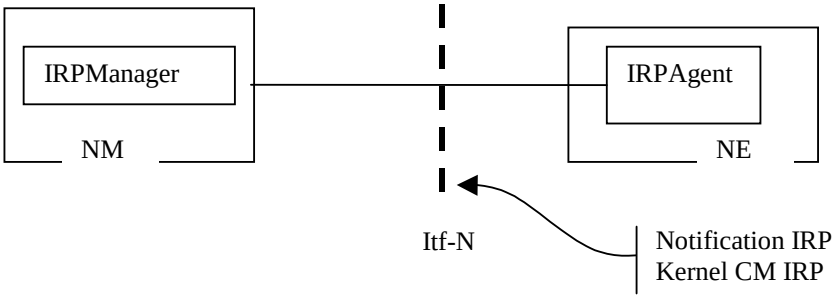

Figure 4.2: System Context B

4.2 Compliance rules

For general definitions of compliance rules related to qualifiers (Mandatory/Optional/Conditional) for *operations*, *notifications and parameters* (of operations and notifications) please refer to TS 32.150~~02~~ [19~~2~~].

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

Given that

- rules for vendor-specific extensions remain to be fully specified, and
- many scenarios under which IRPManager and IRPAgent interwork may exist,

it is recognised that ~~in Release 4/5~~ the IRPManager, even though it is not required to have knowledge of vendor-specific extensions, may be required to be implemented with an awareness that extensions can exist and behave accordingly.

End of Change in Clause 4

Change in Clause 5

5 Modelling approach

See 3GPP TS 32.150 [19].~~This clause identifies the modelling approach adopted and used in this IRP.~~

~~As described in TS 32.101 [1], an IRP comprises the following components:~~

~~(1)an **IRP Information Model** that specifies the interface in a protocol neutral manner, defined as an Information Service and/or one or more Network Resource Models,~~

~~(2)a number of **IRP Solution Sets** that provide the actual realization of the operations and notifications defined in the IRP Information Model for each protocol environment.~~

~~The present document defines one such Information Service – the Kernel CM IRP: IS.~~

~~The IRP Information Service is a specification of the *operations* and *notifications* that are visible over the IRP. These operations/notifications are generic in the sense that they do not specify the Managed Objects that are retrieved/manipulated/informed about over the interface, and thus this IS is independent of the NRM being managed.~~

~~5.1 IRP Information Service modelling approach~~

~~The IRP Information Service of the subject IRP specifies a number of protocol independent operations and notifications that are needed by an IRPManager to retrieve CM information from an IRPAgent.~~

~~The operations and notifications of the IRP Information Service are mainly based on the principles of the Common Management Information Service (CMIS) defined in ITU-T Recommendation X.710 [7] and ITU-T Recommendation X.721 [8] (M-GET etc.). Note however, that the Information Service of the subject IRP is focused on the essential operations and notifications needed for CM purposes and thus only covers a subset of the operations/notifications defined in ITU-T Recommendation X.710 [7]/ITU-T Recommendation X.721 [8].~~

~~It is expected that most Solution Sets will implement the operations and notifications by mapping them to standard operations (and possibly standard notifications) that are applicable in the corresponding protocol environment. A CMIP Solution Set should for instance map the operations to the more generic operations defined in CMIS, an SNMP Solution Set should map the operations to applicable SNMP operations, and a CORBA Solution Set should map the operations to applicable OMG/CORBA services.~~

End of Change in Clause 5
End of Document

Annex B (informative): Change history

Change history							
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**
Mar 2002	S_15	SP-020034	--	--	Submitted to TSG SA #15 for Information	1.0.0	
Sep 2002	S_17	SP-020465	--	--	Submitted to TSG SA #17 for Approval	2.0.0	5.0.0
Mar 2003	S_19	SP-030145	001	--	Add description of notifyCMSynchronizationRecommended notification for KernelCM IRP.	5.0.0	6.0.0
Dec 2003	S_22	SP-030630	003	--	Correction of System Context	6.0.0	6.1.0
Mar 2004	S_23	SP-040119	005	--	Correction of System Context	6.1.0	6.2.0
Jun 2004	S_24	SP-040260	006	--	Add State Management Support to Kernel CM IRP IS 32.622	6.2.0	6.3.0