TSGS#26(04)0790

Source: **SA5 (Telecom Management)**

Title: **2 Rel-6 CR 32.150/32.111-2 IRP Concept and definitions / Fault Management; Alarm IRP IS**

Document for: **Approval**

Agenda Item: **7.5.3**

Doc1stevel	Specific a	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	WorkitemsI D
SP-040790	32.111-2	032	--	Rel-6	Add Generic System Context – Align with 32.150	F	6.2.0	S5-047133	OAM-NIM
SP-040790	32.150	002	--	Rel-6	Add Generic System Context	F	6.1.0	S5-047056	OAM-NIM

3GPP TSG-SA5 (Telecom Management) **S5-047133**
Meeting #40, Sanya, CHINA, 15 - 19 November 2004

CR-Form-v7

CHANGE REQUEST

⌘ **32.111-2** **CR** **032** ⌘ **rev** **-** ⌘ Current version: **6.2.0** ⌘

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

Title:	⌘	Add Generic System Context – Align with 32.150
Source:	⌘	**SA5** (Ericsson, thomas.tovinger@ericsson.com)
Work item code:	⌘	OAM-NIM
Date:	⌘	19/11/2004
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:	⌘	1. Modify subclause 4.2 with a generic text, referring to the common definition in 32.150 for the System Context for all Interface IRPs (added with another CR related to this change), but keep the diagrams for readability. 2. The title of clause 4.2 is aligned with other Interface IRPs, and 4.1 is made Void since it is not needed. 3. Not used rerefences are either reused for new ref. or changed to Void.
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: ⌘ Child CR to Rel-6 CR 32.150 in S5-047056.

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 32.150: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions"~~ITU-T Recommendation Q.821: "Stage 2 and Stage 3 description for the Q3 interface – Alarm surveillance". Not used in the body text.~~

[2] ITU-T Recommendation X.733 (02/92): "Information technology - Open Systems Interconnection - Systems Management: Alarm reporting function".

[3] ITU-T Recommendation X.721: "Information Technology - Open Systems Interconnection - Structure of management information: Definition of management information".

[4] Void.

[5] 3GPP TS 32.302: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Information Service (IS)".

[6] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".

[7] 3GPP TS 32.102: "Telecommunication management; Architecture".

[8] Void ~~3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects". Not used in the body text.~~

[9] 3GPP TS 32.111-1: "Telecommunication management; Fault Management; Part 1: 3G fault management requirements".

[10] 3GPP TS 32.622: "Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)".

[11] ITU-T Recommendation M.3100 (07/95): "Generic network information model".

[12] Void ~~ITU-T Recommendation X.720: "Information technology – Open Systems Interconnection – Structure of management information: Management information model". Not used in the body text.~~

[13] Void.

[14] 3GPP TS 32.312: "Telecommunication management; Generic Integration Reference Point (IRP) management; Information Service (IS)".

[15] ITU-T Recommendation X.736: "Information technology - Open Systems Interconnection - Systems Management: Security alarm reporting function".

End of Change in Clause 2

Change in Clause 4

4 Basic aspects

4.1 Background

Void.~~See 3GPP TS 32.150 [1].Integration Reference Points (IRPs) are the means within 3G Telecom Management (TM) for specifying interoperable points of information exchange between systems and applications.~~

~~3GPP TS 32.101 [6] and 32.102 [7] contain background and introductory information about the IRP concept.~~

4.2 System Context~~Overview~~

The general definition of the System Context for the present IRP is found in 3GPP TS 32.150 [1] subclause 4.7.

In addition, the set of related IRP(s) relevant to the present IRP is shown in the two diagrams below.~~The following figures identify system contexts of the present document in terms of implementations called IRPAgent and IRPManager.~~

~~"IRPManager" depicts a process that interacts with IRPAgent for the purpose of receiving alarms via this IRP. Examples of IRPManager can be Network Management Systems and Alarm viewing devices (such as a local craft terminal). IRPAgent implements and supports the Alarm IRP.~~

~~IRPAgent can be one Network Element (NE) (see figure 2) or it can be one Element Manager (EM) with one or more NEs (see figure 1). In the latter 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 the present document either.~~
~~By observing the interaction across the Alarm IRP, one cannot deduce if EM and NE are integrated in a single system or if they run in separate systems.~~

~~As indicated in figure 1 and figure 2, the subject document needs to be complemented with the Notification IRP in 3GPP TS 32.302 [5] (to allow IRPManager to subscribe to notifications issued by IRPAgent and (optionally) product specific resource models describing the MOs maintained by the IRPAgent).~~

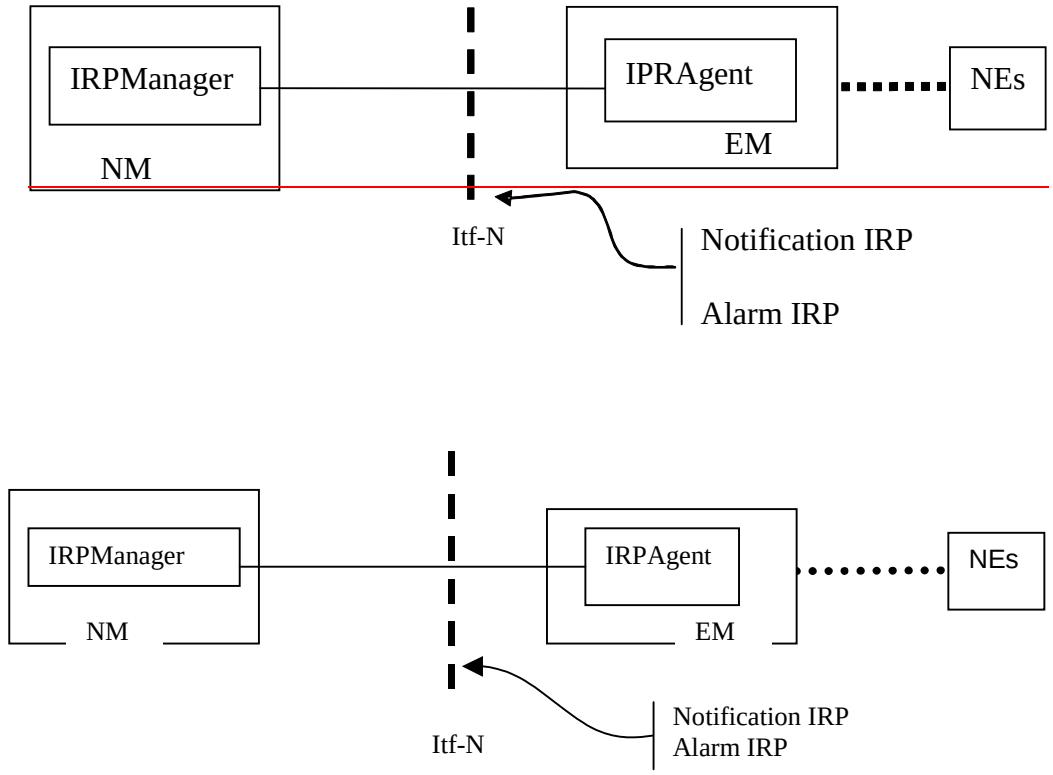

Figure 1: System Context A

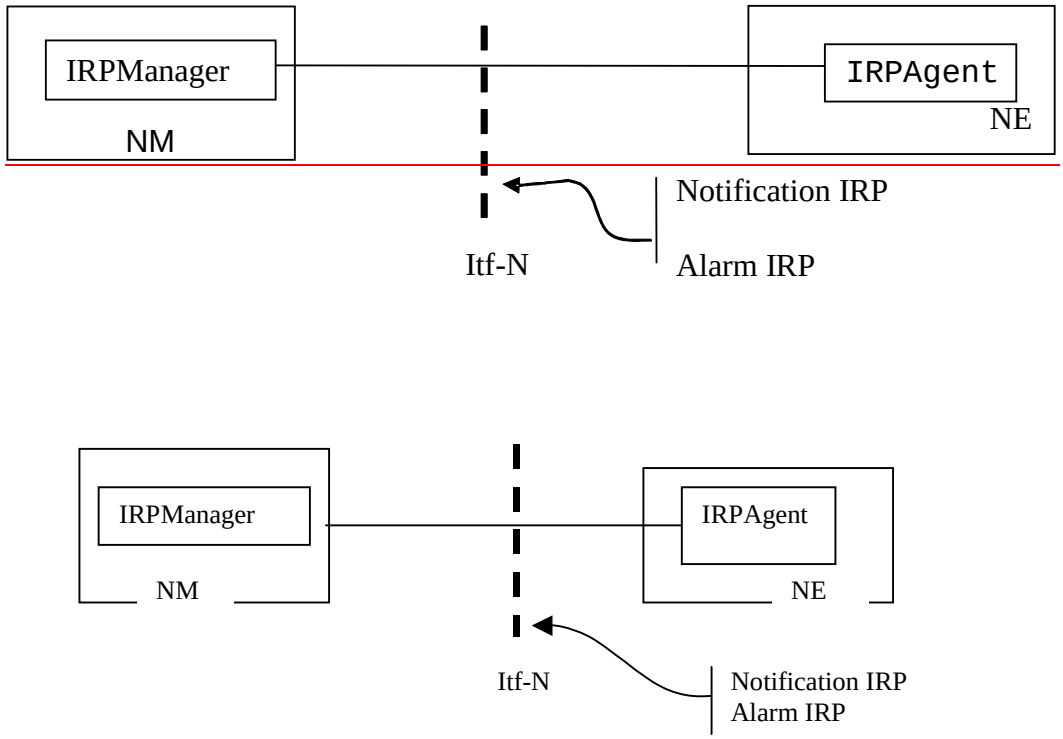

Figure 2: System Context B

End of Change in Clause 4.2

End of document

3GPP TSG-SA5 (Telecom Management) **S5-047056**
Meeting #40, Sanya, CHINA, 15 - 19 November 2004

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CHANGE REQUEST

⌘ **32.150** **CR** **002** ⌘ **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:	⌘	Add Generic System Context
Source:	⌘	**SA5** (Ericsson, thomas.tovinger@ericsson.com)
Work item code:	⌘	OAM-NIM
Date:	⌘	19/11/2004
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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:	⌘	Add a new subclause (4.7) with a generic text, that can be referred to by all Interface IRPs.
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, 4.7 (new).

Other specs affected: ⌘

Y	N		
	X	Other core specifications	⌘
	X	Test specifications	
X		O&M Specifications	Rel-6 CR 32.111-2

Other comments: ⌘ Child Rel-6 CR 32.111-2 in S5-047133.

Change in Clause 2

2 References

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- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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[1] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".

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

[3] 3GPP TS 32.151: "Telecommunication management; Integration Reference Point (IRP) Information Service (IS) template".

[4] 3GPP TS 32.152: "Telecommunication management; Integration Reference Point (IRP) Information Service (IS) Unified Modelling Language (UML) repertoire".

[5] ITU-T Recommendation M.3020: "TMN Interface Specification Methodology".

[6] OMG IDL Style Guide, ab/98-06-03, June 17, 1998

[7] 3GPP TS 32.111-2: "Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service (IS)".

End of Change in Clause 2

Change in Clause 4 – new subclause 4.7 after table 4.2

4.7 System context for Interface IRPs

Every Interface IRP on the Itf-N interface (e.g. Alarm IRP, Notification IRP, Basic CM IRP, Bulk CM IRP) is subject to a System Context as described in this subclause (also consistent with 3GPP TS 32.102 [2] clause 8).

Figure 4.6 and 4.7 identify system contexts of the Interface IRP 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].

Each IRPAgent implements and supports one or more IRPs. The set of IRPs that is related to each Interface IRP is defined by the System Context subclause in each individual Interface IRP IS specification, e.g. subclause 4.2 in the Alarm IRP IS [7].

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.

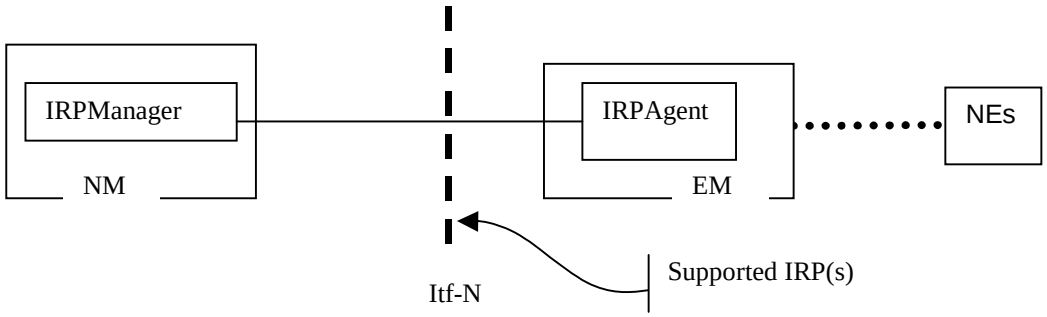

Figure 4.6: System Context A

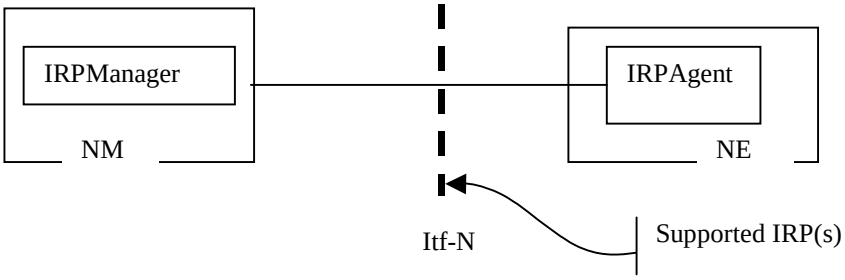

Figure 4.7: System Context B

End of Change in Clause 4 – new subclause 4.7 after table 4.2
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