Technical Specification Group Services and System Aspects ***TSGS#11(01)010027***
Meeting #11, Palm Springs, CA, USA, 19-22 March 2001

Source: **SA WG5**

Title: **CRs to Configuration Management; Part 2: Notification Integration Reference Point; Information Service Version 1 (32.106-2)**

Document for: **Approval**

Agenda Item: **7.5.3**

Doc-	Doc-	Spec	CR	Rev	Phase	Subject	Cat	Version-	Version-	Workitem
SP-010027	S5-010031	32.106-2	003		R99	**Add Information Service QOS specification**	F	3.2.0	3.3.0	OAM-CM
SP-010027	S5-010032	32.106-2	004		R99	**Remove the reference to Relationship Change Notifications (ITU-T X.732)**	F	3.2.0	3.3.0	OAM-CM

CR-Form-v3

CHANGE REQUEST

⌘ **32.106-2** **CR** **003** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network **X** Core Network **X**

Title:	⌘	**Add Information Service QOS specification**
Source:	⌘	SA5
Work item code:	⌘	OAM-CM
Date:	⌘	02/03/2001
Category:	⌘	**F**
Release:	⌘	**R99**

Use one of the following categories:
F *(essential 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)

Reason for change:	⌘	The OMG Notification Service allows notifications to be in other order than First-In, First-Out. First-In, First-Out ordering is required in TMN-based systems. This CR clarifies Quality Of Service notification ordering from an Information Service level.
Summary of change:	⌘	Added a new subclause (6.1.3.5) on notification ordering.
Consequences if not approved:	⌘	Implementations of notification ordering other than First-In, First-Out may occur.

Clauses affected:	⌘	6.1.3
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

6.1.3 Behaviour

6.1.3.1 IRPAgent supports multiple subscriptions with one IRPManager

6.1.3.2 Support of packing multiple notifications

6.1.3.3 IRPAgent supports emission of multiple Notification categories

6.1.3.4 Subscription list loss

6.1.3.5 Notification ordering

Under normal operations, an IRPAgent shall send, to each IRPManager, notifications in the same order they were generated, i.e. in the First-In, First-Out order. Notifications of one Event Type and/or Extended Event Type shall not be given priority over other Event Types and/or Extended Event Types.

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CHANGE REQUEST

⌘ **32.106-2** **CR** **004** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network **X** Core Network **X**

Title:	⌘	Remove the reference to **Relationship Change Notifications** (ITU-T X.732)
Source:	⌘	SA5
Work item code:	⌘	OAM-CM
Date:	⌘	02/03/2001
Category:	⌘	**F**
Release:	⌘	**R99**

Use one of the following categories:
F *(essential 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)

Reason for change:	⌘	The use of the **Relationship Change Notification** has been removed as a 3GPP SA5 supported notification. This CR removes references to the use of the **Relationship Change Notification.**
Summary of change:	⌘	Deleted all references to the **Relationship Change Notification**.
Consequences if not approved:	⌘	Mostly, confusion for why it was included. The **Relationship Change Notification** has already been removed from the other 3GPP TS 32-series specifications.

Clauses affected:	⌘	2, 3.1, 6.1.2.2.6
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications
	⌘	
Other comments:	⌘	

2 References

[10] ITU-T Recommendation X.730: “Object Management Function”.

[11] ITU-T Recommendation X.731: “State Management Function”.

[12] ~~ITU-T Recommendation X.732: “Attributes for representing relationships”.~~Void

[13] ITU-T Recommendation X.733: “Alarm Reporting Function”.

[14] ITU-T Recommendation X.736: “Security Alarm Reporting Function”.

3.1 Definitions

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Extended Event Type: ITU-T TMN defines event types. Examples are: Object Creation, Object Deletion, Attribute Value Change, State Change, ~~Relationship Change,~~ Communications Alarm, Processing Error Alarm, Environmental Alarm, Quality of Service Alarm, Equipment Alarm, Integrity Violation, Security Violation, Time Domain Violation, Operational Violation, Physical Violation. Valid values of this set are controlled by ITU-T.

The 3GPP Working Group SA5’s (Telecommunication Management) work on IRP requires definitions beyond those ITU-T defined event types. Examples are:

- Indicate alarm acknowledgement state changes;
- Indicate Alarm List (defined in Alarm IRP: IS 3GPP TS 32.111-2 [1]) has rebuilt successfully.

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6.1.2.2.6 `eventType` (M)

It carries identification of the type of event reported by the notification. Allowed event types are ITU-T TMN defined event types. Examples of ITU-T TMN event types are:

- Object Creation (ITU-T Recommendation X.730 [10])
- Object Deletion (ITU-T Recommendation X.730 [10])
- Attribute Value Change (ITU-T Recommendation X.731 [11])
- State Change (ITU-T Recommendation X.731 [11])

~~- Relationship Change (ITU-T Recommendation X.732 [12])~~

- Communications Alarm (ITU-T Recommendation X.733 [13])
- Processing Error Alarm (ITU-T Recommendation X.733 [13])
- Environmental Alarm (ITU-T Recommendation X.733 [13])
- Quality of Service Alarm (ITU-T Recommendation X.733 [13])
- Equipment Alarm (ITU-T Recommendation X.733 [13])
- Integrity Violation (ITU-T Recommendation X.736 [14])
- Security Violation (ITU-T Recommendation X.736 [14])
- Time Domain Violation (ITU-T Recommendation X.736 [14])
- Operational Violation (ITU-T Recommendation X.736 [14])

- Physical Violation (ITU-T Recommendation X.736 [14])

Each IRP document using the Notification IRP, such as Alarm IRP: IS (3GPP TS 32.111-2 [1]), identifies which eventType shall be used for that IRP.

This attribute is filterable.