TSGS#18(02)0751

Technical Specification Group Services and System Aspects Meeting #18, New Orleans, USA, 9-12 December 2002

Source: SA5 (Telecom Management)

Title: 6 Rel-4/5 CR 32.111-2/3/4 (Alarm IRP: Information Service/CORBA

& CMIP SSs): Add additionalInformation parameter in notification

Document for: Approval

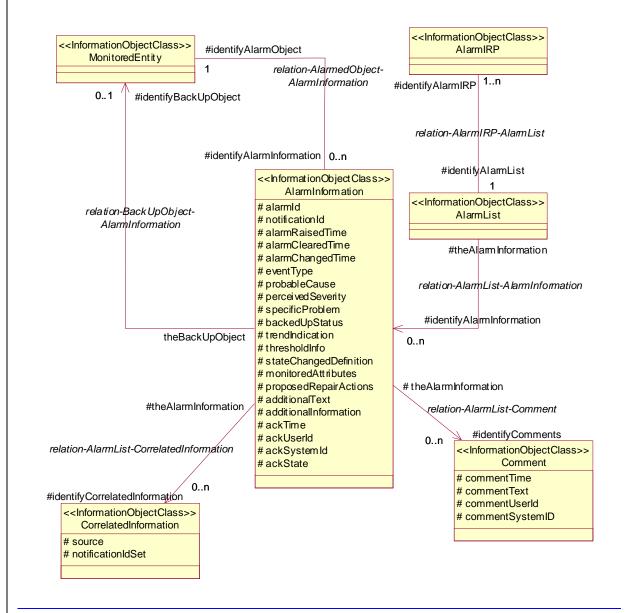
Agenda Item: 7.5.3

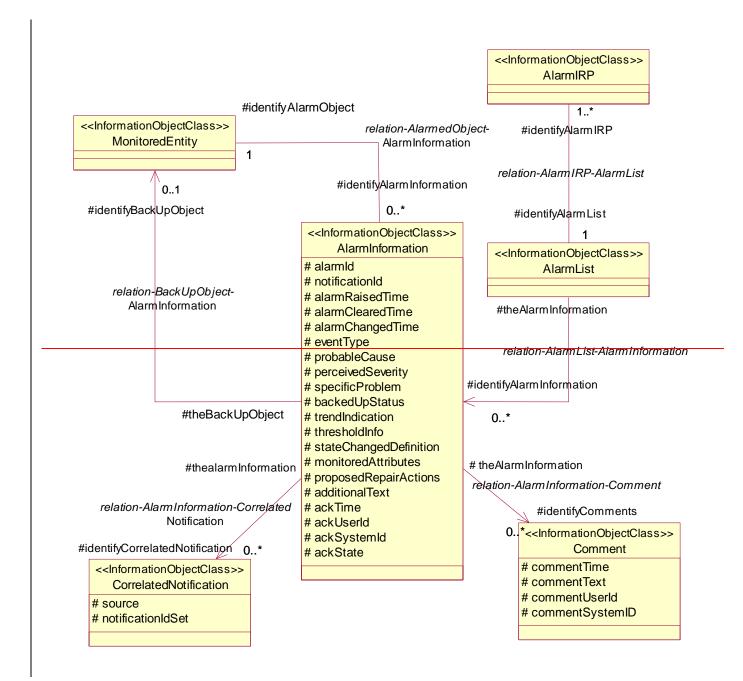
Doc-1st-	Spec	CR	Rev	Phase	Subject	Cat	Version-	Doc-2nd-	Workitem	Remarks
SP-020751	32.111-2	019	-	Rel-4	Add additionalInformation parameter in notification in Alarm IRP: IS	F	4.4.0	S5-027008	OAM-FM	Parent CR.
SP-020751	32.111-2	020	-	Rel-5	Add additionalInformation parameter in notification in Alarm IRP: IS	Α	5.1.0	S5-027006	OAM-NIM	
SP-020751	32.111-3	022	-	Rel-4	Add additionalInformation parameter in notification in Alarm IRP: CORBA SS (Alignment with Information Service in Rel-4 32111-2)	F	4.4.0	S5-027009	OAM-FM	Child CR.
SP-020751	32.111-3	023	-	Rel-5	Add additionalInformation parameter in notification in Alarm IRP: CORBA SS (Alignment with Information Service in Rel-5 32111-2)	А	5.1.0	S5-026977	OAM-NIM	
SP-020751	32.111-4	012	-	Rel-4	Add the additionalInformation parameter in notifyNewAlarms to the Alarm IRP CMIP SS (Alignment with Information Service in Rel-4 32111-2)	F	4.3.0	S5-027026	OAM-FM	Child CR
SP-020751	32.111-4	013	-	Rel-5	Add the additionalInformation parameter in notifyNewAlarms to the Alarm IRP CMIP SS (Alignment with Information Service in Rel-5 32111-2)	A	5.2.0	S5-027025	OAM-NIM	

Meeting #32, Vi	ienna	ı, Aus	stria,	18-22 No	ovember 2	2002					
				CHANG	GE REC	UE	ST				CR-Form-v7
*	32.1°	11-2	CR	019	жrev	-	¥	Current vers	ion:	4.4.0	Ж
For <u>HELP</u> on	using	this for	m, see	e bottom of	f this page or	look	at the	e pop-up text	over th	ne ₩ syr	nbols.
Proposed change	affec	<i>ts:</i> (JICC a	apps#	ME	Rad	dio Ad	ccess Networ	k X	Core Ne	etwork X
Title:	€ Add	d addit	ionallr	formation	parameter in	notifi	icatio	n in Alarm IR	P: IS		
Source:	€ SA	5									
Work item code:	€ OA	M-FM						Date: ₩	22/1	1/2002	
Category:	Deta	F (cord A (cord B (add C (fund D (edi iled exp	rection) respon dition of ctional torial m blanatio	ds to a corre f feature), modification podification)	ection in an ea			e) R96 R97 R98 R99 Rel-4	(GSM I (Releas (Releas (Releas	owing rele Phase 2) se 1996) se 1997) se 1998) se 1999) se 4) se 5)	eases:
Reason for chang	re: #	Add	additic	nallnforma	ation parame	ter in	notifi	cations			
Summary of chan					·						
Consequences if not approved:	ж	The	notifica	ations cann	not carry the	additi	onallı	nformation.			
Clauses affected:	ж	sub-	clause	5.2.1, 5.3.	1.2, 5.5.1, 6.	7.1.2	, 6.7.	1.3.2,			
Other specs affected:	¥	Y N X X	Test	r core spec specification Specificat	ons	¥	Rel-	4/5 32.111-3/	5		
Other comments:	* #			nt CR to 32	2111-3CR02	2& 32	?111- <i>•</i>	4CR012.			

Change in Clause 5.2.1

5.2.1 Attributes and relationships





End of Change in Clause 5.2.1

Change in Clause 5.3.1.2

5.3.1.2 Attribute

Attribute name	Support Qualifier
alarmId	M
notificationId (note 1)	M
alarmRaisedTime	M
alarmClearedTime	M
alarmChangedTime	0
eventType	M
probableCause	M
perceivedSeverity	M
specificProblem	0
backedUpStatus	0
trendIndication	0
thresholdInfo	0
stateChangedDefinition	0
monitoredAttributes	0
proposedRepairActions	0
additionalText	0
<u>additionalInformation</u>	<u>O</u>
ackTime	M
ackUserId	M
ackSystemId	0
ackState	M

End of Change in Clause 5.3.1.2

Change in Clause 5.5.1

5.5.1 Definition and legal values

	Name	Definition	Legal Values				
İ	alarmId alarmId	It identifies one AlarmInformation in the AlarmList.					
	notification-Id	It identifies the notification that carries the AlarmInformation.					
	alarmRaised-Time	It indicates the date and time when the alarm is first raised by the alarmed resource.	-				
	alarmChanged-Time	It indicates the last date and time when the AlarmInformation is changed by the alarmed resource. Changes to AlarmInformation caused by invocations of the IRPManager would not change this date and time.	All values indicating valid time.				
1	alarmCleared-Time eventType	It indicates the date and time when the alarm is Cleared. It indicates the type of event. See Annex A for information on event type.	All values indicating valid time. See Annex A.				
	probableCause	It qualifies alarm and provides further information than eventType. See Annex B for a complete listing.	See Annex B.				
	perceived-Severity	It indicates the relative level of urgency for operator attention.	Critical, Major, Minor, Warning, Indeterminate, Cleared: see ITU-T Recommendation X.733 [2]. This IRP does not recommend the use of indeterminate.				
	specific-Problem	It provides further qualification on the alarm than probableCause. This attribute value shall be single-value and of simple type such as integer or string. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.2.	Provided by vendor.				
	backedUp Status	It indicates if an object (the MonitoredEntity) has a back up. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.4.	All values that carry the semantics of backedUpStatus defined by ITU-T X.733 [2] clause 8.1.2.4.				
	trend-Indication	It indicates if some observed condition is getting better, worse, or not changing.	"Less severe", "no change", "more severe": see definition in ITU-T Recommendation X.733 [2] clause 8.1.2.6.				
	thresholdInfo	It indicates the direction of threshold crossing.	See definitions in ITU-T Recommendation X.733 [2] clause 8.1.2.7.				
	stateChange Definition	It indicates MO attribute value changes. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.10.					
		It indicates MO attributes whose value changes are being monitored. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.11.					
	proposed RepairActions	It indicates proposed repair actions. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.12.					
	additional-Text	It carries semantics that is outside the scope of this IRP specification. It may provide the identity of the NE (e.g. RNC, Node-B) from which the alarm has been originated. It corresponds to the "user label" attribute of the object class representing the NE in the Generic Network Resource Model [10].	N/A				
ĺ	additionalInformation	It can contain further information on the alarm. It contains information on the alarm and its semantics is	<u>N/A</u>				
1	ackTime	outside the scope of this IRP. It identifies the time of last operation acknowledgeAlarms or	All values that indicate valid times				
		unacknowledgeAlarms.	and that are later than that carried in				

Name	Definition	Legal Values				
		alarmRaisedTime.				
End of Change in Clause 5.5.1						

Change in Clause 6.7.1.2

6.7.1.2 Input Parameters

Parameter Name	Quali fier	Matching Information	Comment
objectClass	M,F	MonitoredEntity.objectClass where the MonitoredEntity is identified by the relation-AlarmedObject-AlarmInformation of the new AlarmInformation.	
objectInstance	M,F	MonitoredEntity.objectInstance where the MonitoredEntity is identified by the relation-AlarmedObject-AlarmInformation of the new AlarmInformation.	
notificationId	М	This carries the semantics of notification identifier.	
eventTime	M,F	AlarmInformation.alarmRaisedTime	
systemDN	C,F	IRPAgent.systemDN where the IRPAgent is related to the AlarmIRP that is related to this AlarmList.	It carries the DN of the IRPAgent.
notificationType	M,F	"notifyNewAlarm".	
probableCause	M,F	AlarmInformation.probableCause	
perceivedSeverity	M,F	AlarmInformation.perceivedSeverity	
alarmType	M, F	AlarmInformation.eventType	
specificProblem	0	AlarmInformation.specificProblem	
correlatedNotifications	0	The set of CorrelatedNotification related to this AlarmInformation.	
backedUpStatus	0	AlarmInformation.backedUpStatus	
backUpObject	0	MonitoredEntity.objectInstance where the MonitoredEntity is identified by relation-BackUpObject-AlarmInformation of the new AlarmInformation.	It carries the DN of the back up object.
trendIndication	0	AlarmInformation.trendIndication	
thresholdInfo	0	AlarmInformation.thresholdInfo	
stateChangeDefinition	0	AlarmInformation.stateChange	
monitoredAttributes	0	AlarmInformation.monitoredAttributes	
proposedRepairActions	0	AlarmInformaton.proposedRepairAction s	
additionalText	0	AlarmInformation.additionalText	
<u>additionalInformation</u>	0	AlarmInformation.additionalInformation	
alarmedalarmId	М	AlarmInformation.alarmId	

End of Change in Clause 6.7.1.2

Change in Clause 6.7.1.3.2

6.7.1.3.2 To-state

newAlarmInAlarmList.

Assertion Name	Definition					
newAlarmInAlarmLis	AlarmList contains an AlarmInformation holding information conveyed by the newly generated					
t	network alarm. This AlarmInformation is involved in relation-AlarmObject-AlarmInformation with					
	the same MonitoredEntity as the one identified by the newly generated network alarm.					
	The following attributes of the AlarmInformation shall be populated with information in the newly generated alarm.					
	alarmId, notificationId, alarmRaisedTime, eventType, probableCause, perceivedSeverity. The following attributes of the same AlarmInformation shall be populated with information in the					
	newly generated alarm if the information is present (in the newly generated alarm) and if the					
	attribute is supported:					
	specificProblem, backedUpStatus, trendIndication, thresholdInfo, stateChangedDefinition,					
	monitoredAttributes, proposedRepairActions, additionalText, additionalInformation-					
End of Change in Clause 6.7.1.3.2						

3GPP TSG-SA5 (Telecom Management) Meeting #32, Vienna, Austria, 18-22 November 2002

S5-027025

meeting #01	z, vicinia, Austria,				<u>ОТ</u>	•		CR-Form-v7
	•	CHANGE	KEQ	UE	5 1			
*	32.111-4 CR	013	≋rev	-	\mathfrak{H}	Current version:	5.2.0	ж

For <u>HELP</u> on us	sing this form, see bottom of this page or look at the p	oop-up text over the 第 symbols.
Proposed change a	affects: UICC apps器 ME Radio Acc	cess Network X Core Network X
Title:	Add the additionalInformation parameter in notifyNeSS (Alignment with Information Service in Rel-5 32)	
Source: #	SA5	
Work item code: ₩	OAM-NIM	Date: 第 22/11/2002
Category: 第	A 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.	Release: # Rel-5 Use one of the following releases: 2
Reason for change	The Alarm IRP: IS provides support for the adonotifyNewAlarms. The CMIP SS has to be alig functionality	
Summary of chang	re: The mapping table for the notification notifyNe	wAlarms is updated
Consequences if not approved:	# The CMIP SS of the Alarm IRP is not aligned to the additionalInformation parameter.	with the Alarm IRP: IS with respect
Clauses affected:	₩ 4.2.5	
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications	
Other comments:	# Parent Rel-5 CR in 32111-2CR020. Mirror Rel-5 CR of 32111-4CR012.	

Change in Clause 4.2.5

4.2.5 Mapping of Parameters of each notification

In the CMIP Solution Set, all the notifications originated within the Agent are reported to the Managers by means of the CMISE "M-EVENT-REPORT" primitive, which is implemented by means of the "m-EventReport OPERATION" (see [2] and[3]). The argument of m-EventReport OPERATION is defined in [3] as follows:

where eventlnfo is further specified, for each specific notification, by means of specific GDMO/ASN.1 definitions.

In the following tables, for the notifications defined in [9], all parameters are mapped to their CMIP SS equivalents. Note that the parameter mapping for the notification notifyChangedAlarm is not given. This is because in the CMIP SS the notifications notifyClearedAlarm and notifyNewAlarm are emitted instead of the notification notifyChangedAlarm,.

The IS parameter systemDN defined in [9] (Alarm IRP: Information Services) is conditional and not used in the CMIP SS.

Except for the notification *notifyComments* the IS parameter *alarmType* has no direct CMIP SS equivalent. Instead the value of this parameter is reflected by the type of the emitted notification. More specifically

- If the event type is equal to 'Communication Alarm' the notification communicationsAlarm is emitted;
- If the event type is equal to 'Processing Error Alarm' the notification processing ErrorAlarm is emitted;
- If the event type is equal to 'Environmental Alarm' the notification environmental Alarm is emitted;
- If the event type is equal to 'Quality of Service Alarm' the notification qualityofServiceAlarm is emitted;
- If the event type is equal to 'Equipment Alarm' the notification equipmentAlarm is emitted.

Also the IS parameter *alarmId* is not mapped directly to a parameter in the CMIP SS. This is not required because an alarm is identified unambiguously by the notification identifier of the notification reporting the alarm the first time and, if the notification identifier is not unique across the IRPAgent, by the instance of the managed object emitting this notification. Notifications referring to an alarm already reported (e. g. *notifyClearedAlarm*, *notifyAckStateChanged*, *notifyComments*) do so by specifying in the M-EVENT REPORT parameter 'Event information': *correlatedNotifications* (X.721 [4] and X.733 [5]) the notification identifier of the notification having reported the new alarm and, if required, the instance of the object having emitted this notification.

Most parameters are mapped to the M-EVENT report parameter 'Event information'. The syntax and semantics of this structured parameter are defined in ITU-T X.721 [4] by the ASN.1 definition *AlarmInfo*.

Table 12: Mapping of Parameters of "notifyNewAlarm"

IS Parameter	CMIP SS Equivalent	Qualifier
objectclass	M-EVENT REPORT parameter 'Managed object class'	M
objectInstance	M-EVENT REPORT parameter 'Managed object instance'	M
notificationId	M-EVENT REPORT parameter 'Event information' (AlarmInfo): notificationIdentifier	M
eventTime	M-EVENT REPORT parameter 'Event time'	M
systemDN	This IS parameter is conditional and not used in the CMIP SS.	
notificationType	M-EVENT REPORT parameter 'Event type'	M
probableCause	M-EVENT REPORT parameter 'Event information' (AlarmInfo): probableCause	M
specificProblems	M-EVENT REPORT parameter 'Event information' (AlarmInfo): specificProblems	0
perceivedSeverity	in a ratio ratio parameter are an intermediate (ratio in interpretation)	M
alarmType	The semantics of this parameter is conveyed by the notification type.	
backedUpStatus	M-EVENT REPORT parameter 'Event information' (AlarmInfo): backedUpStatus	0
backUpObject	M-EVENT REPORT parameter 'Event information' (AlarmInfo): backUpObject	0
trendIndication	M-EVENT REPORT parameter 'Event information' (AlarmInfo): trendIndication	0
thresholdInfo	M-EVENT REPORT parameter 'Event information' (AlarmInfo): thresholdInfo	0
correlatedNotifications	M-EVENT REPORT parameter 'Event information' (AlarmInfo): correlatedNotifications	0
stateChangeDefinition	M-EVENT REPORT parameter 'Event information' (AlarmInfo): stateChangeDefinition	0
monitoredAttributes	M-EVENT REPORT parameter 'Event information' (AlarmInfo): monitoredAttributes	0
proposedRepairActions	M-EVENT REPORT parameter 'Event information' (AlarmInfo):	0
	proposedRepairActions	
additionalText	M-EVENT REPORT parameter 'Event information' (AlarmInfo): additionalText	0
additionalInformation	M-EVENT-REPORT parameter 'Event information' (AlarmInfo): additionalInformation	<u>O</u>
alarmId		M
	M-EVENT REPORT parameter 'Managed object instance'	

End of Change in Clause 4.2.5

S5-027026

3GPP TSG-SA5 (Telecom Management)
Meeting #32, Vienna, Austria, 18-22 November 2002

	(CHANGE	REQ	UE	ST	-		CR-Form-v7
*	32.111-4 CR	012	жrev	-	¥	Current version:	4.3.0	ж

For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.						
Proposed change	affects: UICC apps器 ME Radio Ad	ccess Network X Core Network X				
Title: ∺	Add the additionalInformation parameter in notify SS (Alignment with Information Service in Rel-4 3					
Source: #	SA5					
Work item code: ₩	OAM-FM	Date: 第 22/11/2002				
Category: ₩	F 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.	Release: # Rel-4 Use one of the following releases: 2 (GSM Phase 2) e) 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	The Alarm IRP: IS provides support for the a notifyNewAlarms. The CMIP SS has to be all functionality					
Summary of chang	ge: The mapping table for the notification notifyN	lewAlarms is updated				
Consequences if not approved:	The CMIP SS of the Alarm IRP is not aligned to the additionalInformation parameter.	with the Alarm IRP: IS with respect				
Clauses affected:	第 4.2.5					
	YN					
Other specs affected:	 米 X X Test specifications X O&M Specifications Rel-state 	5 32111-4				
Other comments:	# Parent Rel-4 CR in 32111-2CR019.					
	Mirror Rel-5 CR in 32111-4CR013.					

Change in Clause 4.7.5

4.7.5 Mapping of Parameters of each notification

In the CMIP Solution Set, all the notifications originated within the Agent are reported to the Managers by means of the CMISE "M-EVENT-REPORT" primitive, which is implemented by means of the "m-EventReport OPERATION" (see [2] and[3]). The argument of m-EventReport OPERATION is defined in [3] as follows:

where eventlnfo is further specified, for each specific notification, by means of specific GDMO/ASN1 definitions.

In the following tables, for the notifications defined in [9], all parameters are mapped to their CMIP SS equivalents. Note that the parameter mapping for the notification notifyChangedAlarm is not given. This is because in the CMIP SS the notifications notifyClearedAlarm and notifyNewAlarm are emitted instead of the notification notifyChangedAlarm.

The IS parameter systemDN defined in [9] (Alarm IRP: Information Services) is conditional and not used in the CMIP SS.

Except for the notification notifyComments the IS parameter alarmType has no direct CMIP SS equivalent. Instead the value of this parameter is reflected by the type of the emitted notification. More specifically:

- If the event type is equal to 'Communication Alarm' the notification communications Alarm is emitted;
- If the event type is equal to 'Processing Error Alarm' the notification processing Error Alarm is emitted;
- If the event type is equal to 'Environmental Alarm' the notification environmental Alarm is emitted;
- If the event type is equal to 'Quality of Service Alarm' the notification quality of Service Alarm is emitted;
- If the event type is equal to 'Equipment Alarm' the notification equipmentAlarm is emitted.

Also the IS parameter alarmId is not mapped directly to a parameter in the CMIP SS. This is not required because an alarm is identified unambiguously by the notification identifier of the notification reporting the alarm the first time and the instance of the managed object emitting this notification. Notifications referring to an alarm already reported (e. g. notifyClearedAlarm, notifyAckStateChanged, notifyComments) do so by specifying in the M-EVENT REPORT parameter 'Event information': correlatedNotifications (X.721 [4] and X.733 [5]) the notification identifier of the notification having reported the new alarm and, if required, the instance of the object having emitted this notification.

Table 11: Mapping of Parameters of "notifyNewAlarm"

IS Parameter Name	CMIP SS Equivalent	Qualifier
objectclass	M-EVENT REPORT parameter 'Managed object class'	M
objectInstance	M-EVENT REPORT parameter 'Managed object instance'	M
notificationId	M-EVENT REPORT parameter 'Event information': notificationIdentifier	M
eventTime	M-EVENT REPORT parameter 'Event time'	М
systemDN		
notificationType	M-EVENT REPORT parameter 'Event type'	M
probableCause	M-EVENT REPORT parameter 'Event information': probableCause	M
specificProblems	M-EVENT REPORT parameter 'Event information': specificProblems	0
perceivedSeverity	M-EVENT REPORT parameter 'Event information': perceivedSeverity	M
alarmType	The semantics of this parameter is conveyed by the notification type.	
backedUpStatus	M-EVENT REPORT parameter 'Event information': backedUpStatus	0
backUpObject	M-EVENT REPORT parameter 'Event information': backUpObject	0
trendIndication	M-EVENT REPORT parameter 'Event information': trendIndication	0
thresholdInfo	M-EVENT REPORT parameter 'Event information': thresholdInfo	0
correlatedNotifications	M-EVENT REPORT parameter 'Event information': correlatedNotifications	0
stateChangeDefinition	M-EVENT REPORT parameter 'Event information': stateChangeDefinition	0
monitoredAttributes	M-EVENT REPORT parameter 'Event information': monitoredAttributes	0
proposedRepairActions	M-EVENT REPORT parameter 'Event information': proposedRepairActions	0
additionalText	M-EVENT REPORT parameter 'Event information': additionalText	0
<u>additionalInformation</u>	M-EVENT-REPORT parameter 'Event information' (AlarmInfo):	<u>0</u>
	additionalInformation	
alarmId		

End of Change in Clause 4.7.5

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			C	CHANG	GE RI	EQU	EST	Γ				CK-F0IIII-V/
#	32.1°	11-3	CR	023	жre	ev -	. #	Curre	nt vers	sion: 5	.1.0	ж
For <u>HELP</u> on u	ısing t	this for	m, see	bottom of	f this pag	e or loo	k at tl	ће рор-и	ıp text	over the	e ж syr	nbols.
Proposed change affects: UICC apps# ME Radio Access Network X Core Network X												
Title: #				formation nformation					arm IR	P: COR	BA SS	
Source: #	SA	5										
Work item code: ₩	OA	M-NIM						D	ate: ೫	22/11	/2002	
Category: ¥	Use Deta	F (corr A (corr B (add C (fund D (edit iled exp	rection) respond lition of ctional r forial mo	wing categ ls to a correfeature), modification odification) ns of the ab R 21.900.	ection in a	e)		Use 2 se) R R R R R		REL-the follow (GSM P) (Release (Releas	wing rele hase 2) e 1996) e 1997) e 1998) e 1999) e 4)	eases:
Reason for change	e: ¥	Add :	addition	nalInforma	ation para	ameter i	n noti	fications	3			
Summary of change Consequences if		Add additionalInformation parameter in notifications Add new mapping information in notification mapping table regarding the additionalInformation parameter. The notifications cannot carry the additionalInformation.										
not approved:												
Clauses affected:	¥	Table	e 10.									
Other specs affected:	æ	Y N X X	Test s	core spec specification Specificat	ons	s #						
Other comments:	X			CR of 321								

Change in Table 10

 Table 10: Mapping for notifyNewAlarm (to carry non-security-related alarms)

10.0	0110 00001	0 -1:0	0	
IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment	
There is no	domain_name		It carries the IRP document version number string. See sub-clause	
corresponding SS			3.3.	
attribute.			It indicates the syntax and semantics of the Structured Event a defined by this specification.	
notificationType	type_name	M	This is the NOTIFY_FM_NEW_ALARM of interface	
notineation rype	type_name	IVI	NotificationType of module AlarmIRPConstDefs.	
alarmType	event_name	М	It identifies one of the following:	
			communications alarm,	
			processing error alarm,	
			environmental alarm, quality of service alarm and	
			equipment alarm.	
			oquipmont diami.	
			It is a string defined by interface AlarmType of module AlarmIRPConstDefs.	
There is no	variable Header			
corresponding SS attribute.				
objectClass,	One NV pair of	М	NV stands for name-value pair. Order arrangement of NV pairs is	
objectInstance	filterable_		not significant. The name of NV-pair is always encoded in string.	
	body_fields			
			Name of NV pair is the MANAGED_OBJECT_INSTANCE of interface AttributeNameValue of module NotificationIRPConstDefs.	
			interface Attributervalue of module notificationing Constders.	
			Value of NV pair is a string.	
notification-Id	One NV pair of	M	Name of NV pair is the NOTIFICATION_ID of interface	
	filterable_		AttributeNameValue of module NotificationIRPConstDefs.	
	body_fields		Value of NV pair is a long.	
eventTime	One NV pair of	М	Name of NV pair is the EVENT_TIME of interface	
	filterable_		AttributeNameValue of module NotificationIRPConstDefs.	
	body_fields		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
			Value of NV pair is a IRPTime of module ManagedGenericIRPConstDefs.	
systemDN	One NV pair of	М	Name of NV pair is the SYSTEM_DN of interface	
	filterable_		AttributeNameValue of module NotificationIRPConstDefs.	
	body_fields			
probableCause	One NV pair of	M	Value of NV pair is a string. Name of NV pair is the PROBABLE_CAUSE of interface	
probableCause	filterable_	IVI	AttributeNameValue of module AlarmIRPConstDefs.	
	body_fields		Authoritatio value of module Authoritation Control of Co.	
			Value of NV pair is a short defined by interface ProbableCause of	
. 10	0 10/		module AlarmIRPConstDefs.	
perceivedSeverity	One NV pair of filterable_	M	Name of NV pair is the PERCEIVED_SEVERITY of interface AttributeNameValue of module AlarmIRPConstDefs.	
	body_fields		Attributervalue of module Alamintr Considers.	
			Value of NV pair is a short defined by interface PerceivedSeverity	
			of module AlarmIRPConstDefs.	
specificProblem	One NV pair of	0	Name of NV pair is the SPECIFIC_PROBLEM of interface AttributeNameValue of module AlarmIRPConstDefs.	
	filterable_ body_fields		Attributename value of module Alarmik PConsiders.	
			Value of NV pair is a string.	
correlatedNotifications	One NV pair of	0	Name of NV pair is the CORRELATED_NOTIFICATIONS of	
	filterable_		interface AttributeNameValue.	
	body_fields		Value of NV pair is a CorrelatedNotificationSetType of module	
			AlarmIRPConstDefs.	
backedUpStatus	One NV pair of	0	Name of NV pair is the BACKED_UP_STATUS of interface	
	filterable_		AttributeNameValue of module AlarmIRPConstDefs.	

IS Parameters	OMG CORBA Structured	Qualifier	Comment
	Event attribute		
	body_fields		Value of NV pair is a boolean BackedUpStatusType of module AlarmIRPConstDefs.
backUpObject	One NV pair of filterable_body_fields	О	Name of NV pair is the BACK_UP_OBJECT of interface AttributeNameValue of module AlarmIRPConstDefs. Value of NV pair is a string carrying of DN of the back-up object.
			See 3G TS 32.300 [3] for the DN string representation.
trendIndication	One NV pair of filterable_body_fields	0	Name of NV pair is the TREND_INDICATION of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is an enum TrendIndicationType of module AlarmIRPConstDefs.
thresholdInfo	One NV pair of filterable_body_fields	0	Name of NV pair is the THRESHOLD_INFO of interface ParameterNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a ThresholdInfoType of module AlarmIRPConstDefs.
stateChange-Definition	One NV pair of filterable_body_fields	0	Name of NV pair is the STATE_CHANGE_DEFINITION of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is an AttributeChangeSetType of module AlarmIRPConstDefs.
monitoredAttributes	One NV pair of filterable_body_fields	0	Name of NV pair is the MONITORED_ATTRIBUTES of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is an AttributeSetType of module AlarmIRPConstDefs.
proposedRepairActions	One NV pair of filterable_body_fields	0	Name of NV pair is the PROPOSED_REPAIR_ACTIONS of interface AttributeNameValue of module AlarmIRPConstDefs.
. LPC IT	0 NV : 6	0	Value of NV pair is a string.
additionalText	One NV pair of filterable_body_fields	0	Name of NV pair is the ADDITIONAL_TEXT of interface AttributeNameValue of module AlarmIRPConstDefs.
- 1 PC 11 - C C	0	0	Value of NV pair is a string.
additionalInformation	One or more NV pairs of filterable body_fields	<u>O</u>	Name and value of all NV pairs are vendor-specific.
alarmId	One NV pair of filterable_body_fields	М	Name of NV pair is the ALARM_ID of interface AttributeNameValue of module AlarmIRPConstDefs.
	,-		Value of NV pair is a string. If the string is a zero-length string or if this NV pair is absent, the default semantics is that alarmId is a concatenation of
			managedObjectInstance, eventType, probableCause and specificProblem, if present, of this Structured Event. Since probableCause is encoded as a short, it shall be converted into string before concatenation. The resultant string shall not contain
Theresis		1	spaces.
There is no corresponding IS attribute.	remaining_ body		

End of Change in Table 10

Change in Table 10a

Table 10.a: Mapping for notifyNewAlarm (to carry security alarm)

IS Parameters	OMG CORBA Structured Event attribute	Qualifier		
There is no corresponding SS	domain_name		It carries the IRP document version number string. See sub-clause 3.3.	
attribute.			It indicates the syntax and semantics of the Structured Event as defined by this specification.	
notificationType	type_name	M	This is the NOTIFY_FM_NEW_ALARM of interface NotificationType of module AlarmIRPConstDefs.	
alarmType	event_name	M	It identifies one of the following: Integrity violation, operational violation, physical violation, security violation and time domain violation.	
			It is a string defined by interface AlarmType of module AlarmIRPConstDefs.	
There is no corresponding SS attribute.	variable Header			
objectClass, objectInstance	One NV pair of filterable_body_fields	M	NV stands for name-value pair. Order arrangement of NV pairs is not significant. The name of NV-pair is always encoded in string.	
			Name of NV pair is the MANAGED_OBJECT_INSTANCE of interface AttributeNameValue of module NotificationIRPConstDefs.	
			Value of NV pair is a string.	
notification-Id	One NV pair of filterable_body_fields	M	Name of NV pair is the NOTIFICATION_ID of interface AttributeNameValue of module NotificationIRPConstDefs. Value of NV pair is a long.	
eventTime	One NV pair of filterable_body_fields	M	Name of NV pair is a long. Name of NV pair is the EVENT_TIME of interface AttributeNameValue of module NotificationIRPConstDefs. Value of NV pair is a IRPTime of module	
			ManagedGenericIRPConstDefs.	
systemDN	One NV pair of filterable_body_fields	M	Name of NV pair is the SYSTEM_DN of interface AttributeNameValue of module NotificationIRPConstDefs.	
	On a NIV a six of	N 4	Value of NV pair is a string.	
probableCause	One NV pair of filterable_body_fields	M	Name of NV pair is the PROBABLE_CAUSE of interface AttributeNameValue of module AlarmIRPConstDefs.	
			Value of NV pair is a short defined by interface ProbableCause of module AlarmIRPConstDefs.	
perceivedSeverity	One NV pair of filterable_body_fields	М	Name of NV pair is the PERCEIVED_SEVERITY of interface AttributeNameValue of module AlarmIRPConstDefs.	
	,_		Value of NV pair is a short defined by interface PerceivedSeverity of module AlarmIRPConstDefs.	
correlatedNotifications	One NV pair of filterable_body_fields	0	Name of NV pair is the CORRELATED_NOTIFICATIONS of interface AttributeNameValue.	
			Value of NV pair is a CorrelatedNotificationSetType of module AlarmIRPConstDefs.	
additionalText	One NV pair of filterable_body_fields	0	Name of NV pair is the ADDITIONAL_TEXT of interface AttributeNameValue of module AlarmIRPConstDefs.	
1.82			Value of NV pair is a string.	
additionalInformation	One or more NV pairs of filterable body_fields	<u>O</u>	Name and value of all NV pairs are vendor-specific.	
alarmId	One NV pair of	M	Name of NV pair is the ALARM_ID of interface AttributeNameValue	

IS Parameters	OMG CORBA Structured	Qualifier	Comment
	Event attribute		
	filterable_ body_fields		of module AlarmIRPConstDefs.
	'-		Value of NV pair is a string.
			If the string is a zero-length string or if this NV pair is absent, the default semantics is that alarmId is a concatenation of managedObjectInstance, eventType, probableCause and
			specificProblem, if present, of this Structured Event. Since
			probableCause is encoded as a short, it shall be converted into
			string before concatenation. The resultant string shall not contain spaces.
serviceUser	One NV pair of filterable_body_fields	М	Name of NV pair is the SERVICE_USER of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a string.
serviceProvider	One NV pair of filterable_body_fields	М	Name of NV pair is the SERVICE_PROVIDER of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a string.
securityAlarmDetector	One NV pair of filterable_body_fields	M	Name of NV pair is the SECURITY_ALARM_DETECTOR of interface AttributeNameValue of module AlarmIRPConstDefs.
	,-		Value of NV pair is a string.
There is no corresponding IS attribute.	remaining_ body		

End of Change in Table 10a

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Work item cod	de: #	OAM-	FM					Date: ℜ	22/11/	2002	
Category: # F 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) P (editorial modification) Reflease 1999) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Release: REL-4 Use one of the following release of the following release 1996 Release 1996 Release 1996 Release 1999 Release 1999) Release 1999) Rel-5 (Release 5) Rel-6 (Release 6)							eases:				
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Other commen	nts:			-4 CR in 321		9.					

Change in Table 10

Table 10: Mapping for notifyNewAlarm

l

IS Parameters	OMG CORBA	Qualifier	Comment
	Structured		
	Event attribute		
There is no corresponding SS	domain_name		It carries the IRP document version number string. See sub-clause 3.3.
attribute.			It indicates the syntax and semantics of the Structured Event as
			defined by this specification.
notificationType	type_name	M	This is the NOTIFY_FM_NEW_ALARM of interface
-1 T		N 4	NotificationType of module AlarmIRPConstDefs.
alarmType	event_name	M	It identifies one of the following: communications alarm,
			processing error alarm,
			environmental alarm,
			quality of service alarm and
			equipment alarm.
			It is a string defined by interface AlarmType of module
			AlarmIRPConstDefs.
There is no	variable Header		
corresponding SS			
attribute. objectClass,	One NV pair of	M	NV stands for name-value pair. Order arrangement of NV pairs is
objectInstance	filterable_	IVI	not significant. The name of NV-pair is always encoded in string.
	body_fields		
			Name of NV pair is the MANAGED_OBJECT_INSTANCE of
			interface AttributeNameValue of module NotificationIRPConstDefs.
			Value of NV pair is a string.
notification-Id	One NV pair of	М	Name of NV pair is the NOTIFICATION_ID of interface
	filterable_		AttributeNameValue of module NotificationIRPConstDefs.
	body_fields		Value of NV pair is a long
eventTime	One NV pair of	M	Value of NV pair is a long. Name of NV pair is the EVENT_TIME of interface
	filterable_		AttributeNameValue of module NotificationIRPConstDefs.
	body_fields		
			Value of NV pair is a IRPTime of module ManagedGenericIRPConstDefs.
systemDN	One NV pair of	М	Name of NV pair is the SYSTEM_DN of interface
	filterable_		AttributeNameValue of module NotificationIRPConstDefs.
	body_fields		Value of NV nois is a string
probableCause	One NV pair of	M	Value of NV pair is a string. Name of NV pair is the PROBABLE_CAUSE of interface
probableoadse	filterable_	IVI	AttributeNameValue of module AlarmIRPConstDefs.
	body_fields		
			Value of NV pair is a short defined by interface ProbableCause of
perceivedSeverity	One NV pair of	M	module AlarmIRPConstDefs. Name of NV pair is the PERCEIVED_SEVERITY of interface
perceived Seventy	filterable	IVI	AttributeNameValue of module AlarmIRPConstDefs.
	body_fields		
			Value of NV pair is a short defined by interface PerceivedSeverity
specificProblem	One NV pair of	0	of module AlarmIRPConstDefs. Name of NV pair is the SPECIFIC_PROBLEM of interface
specific roblem	filterable_	O	AttributeNameValue of module AlarmIRPConstDefs.
	body_fields		
	0 10		Value of NV pair is a string.
correlatedNotifications	One NV pair of filterable_	0	Name of NV pair is the CORRELATED_NOTIFICATIONS of interface AttributeNameValue.
	body_fields		interiace Attibuterianie value.
	1 1/2 1122		Value of NV pair is a CorrelatedNotificationSetType of module
1 1 11 2:	0 100		AlarmIRPConstDefs.
backedUpStatus	One NV pair of	0	Name of NV pair is the BACKED_UP_STATUS of interface
	filterable_		AttributeNameValue of module AlarmIRPConstDefs.

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
	body_fields		
			Value of NV pair is a boolean BackedUpStatusType of module AlarmIRPConstDefs.
backUpObject	One NV pair of filterable_body_fields	0	Name of NV pair is the BACK_UP_OBJECT of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a string carrying of DN of the back-up object. See 3G TS 32.300 [3] for the DN string representation.
trendIndication	One NV pair of filterable_body_fields	0	Name of NV pair is the TREND_INDICATION of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is an enum TrendIndicationType of module AlarmIRPConstDefs.
thresholdInfo	One NV pair of filterable_body_fields	О	Name of NV pair is the THRESHOLD_INFO of interface ParameterNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a ThresholdInfoType of module AlarmIRPConstDefs.
stateChange-Definition	One NV pair of filterable_body_fields	0	Name of NV pair is the STATE_CHANGE_DEFINITION of interface AttributeNameValue of module AlarmIRPConstDefs.
	,-		Value of NV pair is an AttributeChangeSetType of module AlarmIRPConstDefs.
monitoredAttributes	One NV pair of filterable_body_fields	0	Name of NV pair is the MONITORED_ATTRIBUTES of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is an AttributeSetType of module AlarmIRPConstDefs.
proposedRepairActions	One NV pair of filterable_body_fields	0	Name of NV pair is the PROPOSED_REPAIR_ACTIONS of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a string.
additionalText	One NV pair of filterable_body_fields	О	Name of NV pair is the ADDITIONAL_TEXT of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a string.
<u>additionalInformation</u>	One or more NV pairs of filterable body fields	<u>O</u>	Name and value of all NV pairs are vendor-specific.
alarmId	One NV pair of filterable_body_fields	М	Name of NV pair is the ALARM_ID of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a string. If the string is a zero-length string or if this NV pair is absent, the default semantics is that alarmId is a concatenation of managedObjectInstance, eventType, probableCause and specificProblem, if present, of this Structured Event. Since probableCause is encoded as a short, it shall be converted into string before concatenation. The resultant string shall not contain spaces.
There is no corresponding IS attribute.	remaining_ body		

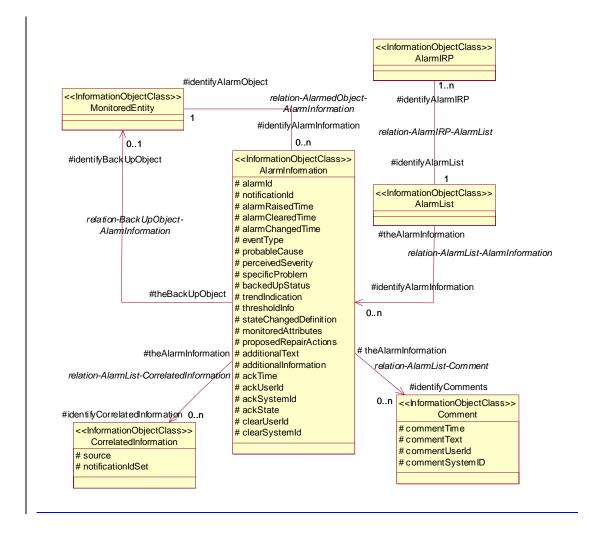
End of Change in Table 10.

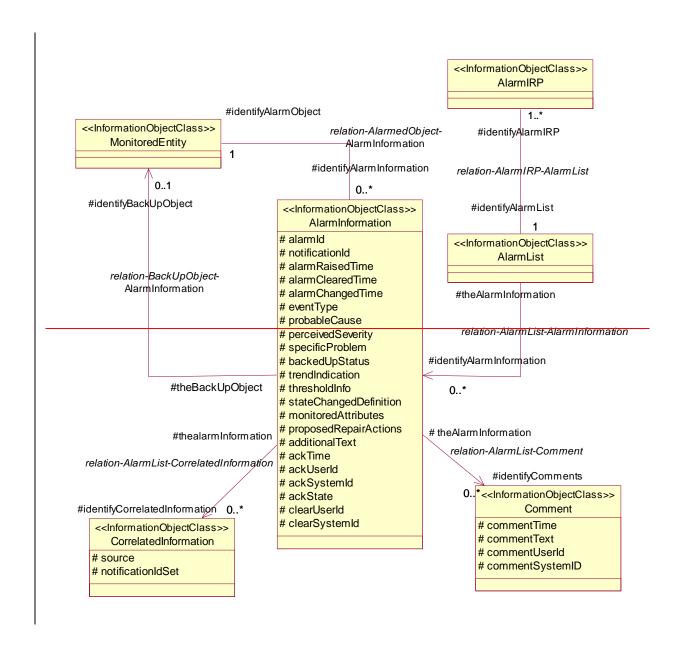
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Other comments	s: #	Rel-	5 Pare	nt CR to 32	111-3CR02	3 & 3	2111	-4CR013.		

Rel-5 Mirror of 32111-2CR019.

Change in Clause 5.2.1

5.2.1 Attributes and relationships





End of Change in Clause 5.2.1

Change in Clause 5.3.1.2

5.3.1.2 Attribute

Attribute name	Support Qualifier
alarmId	M
notificationId (note 1)	M
alarmRaisedTime	M
alarmClearedTime	M
alarmChangedTime	0
eventType	M
probableCause	M
perceivedSeverity	M
specificProblem	0
backedUpStatus	0
trendIndication	0
thresholdInfo	0
stateChangedDefinition	0
monitoredAttributes	0
proposedRepairActions	0
additionalText	0
<u>additionalInformation</u>	<u>O</u>
ackTime	M
ackUserId	M
ackSystemId	0
ackState	M
clearUserId	M (note 2)
clearSystemId	O (note 2)
serviceUser	O (note 3)
serviceProvider	O (note 3)
securityAlarmDetector	O (note 3)

- NOTE 1: This attribute may be "retired/removed" in Release 5 when Log IRP is introduced. Its removal implies that information carried in this attribute is no longer made accessible to IRPManager via the getAlarmList().
- NOTE 2: These attributes and qualifiers are applicable only if the IRPAgent supports clearAlarms() (they are absent if clearAlarms() is not supported).
- NOTE 3: These attributes must be supported if the IRPAgent emits notifyNewAlarm that carries security alarm information.

End of Change in Clause 5.3.1.2

Change in Clause 5.5.1

5.5.1 Definition and legal values

	Name	Definition	Legal Values
	alarmId	It identifies one AlarmInformation in the AlarmList.	
	notification-ld	It identifies the notification that carries the AlarmInformation.	
	alarmRaised-Time	It indicates the date and time when the alarm is first raised by the alarmed resource.	All values indicating valid time.
	alarmChanged-Time	It indicates the last date and time when the AlarmInformation is changed by the alarmed resource. Changes to AlarmInformation caused by invocations of the IRPManager would not change this date and time.	All values indicating valid time.
	alarmCleared-Time	It indicates the date and time when the alarm is Cleared.	All values indicating valid time.
	eventType	It indicates the type of event. See Annex A for information on event type.	See Annex A.
	probableCause	It qualifies alarm and provides further information than eventType. See Annex B for a complete listing.	See Annex B.
	perceived-Severity	It indicates the relative level of urgency for operator attention.	Critical, Major, Minor, Warning, Indeterminate, Cleared: see ITU-T Recommendation X.733 [2]. This IRP does not recommend the use of indeterminate.
	specific-Problem	It provides further qualification on the alarm than probableCause. This attribute value shall be single-value and of simple type such as integer or string. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.2.	Provided by vendor.
	backedUp Status	It indicates if an object (the MonitoredEntity) has a back up. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.4.	All values that carry the semantics of backedUpStatus defined by ITU-T X.733 [2] clause 8.1.2.4.
	trend-Indication	It indicates if some observed condition is getting better, worse, or not changing.	"Less severe", "no change", "more severe": see definition in ITU-T Recommendation X.733 [2] clause 8.1.2.6.
	thresholdInfo	It indicates the direction of threshold crossing.	See definitions in ITU-T Recommendation X.733 [2] clause 8.1.2.7.
	_	It indicates MO attribute value changes. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.10.	
	monitored-Attributes	It indicates MO attributes whose value changes are being monitored. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.11.	
	proposed-RepairActions	It indicates proposed repair actions. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.12.	
	additional-Text	It carries semantics that is outside the scope of this IRP specification. It may provide the identity of the NE (e.g. RNC, Node-B) from which the alarm has been originated. It corresponds to the "user label" attribute of the object class representing the NE in the Generic Network Resource Model [10].	N/A
ı	additionalInformation	It can contain further information on the alarm. It contains information on the alarm and its semantics is	N/A
		outside the scope of this IRP.	
	ackTime	It identifies the time of last operation acknowledgeAlarms or unacknowledgeAlarms.	All values that indicate valid time that are later than that carried in alarmRaisedTime.
	ackUserId	It identifies the last user who has change the Acknowledgement State via operation acknowledgeAlarms or unacknowledgeAlarms.	It can be used to identify the human operator such as "John Smith" or it can identify a group, such as "Team Six", or it can contain no information such as "".
		It identifies the system in which IRPManager, that invokes the acknowledgeAlarms or unacknowledgeAlarms operation, runs.	It can be used to identify the system, such as "system 6" or it can contain no information such as "".

Name	Definition	Legal Values
ackState	It identifies the Acknowledgement State of the alarm.	Acknowledged: the alarm has been acknowledged.
		Unacknowledged: the alarm has been unacknowledged or the alarm
		has never been acknowledged.
commentTime	It carries the time when a comment is made via setComment operation.	
commentText	It carries the textual comment made via setComment operation.	
commentUserId	It carries the identification of the user who made the comment via setComment operation.	
commentSystemId	It carries the identification of the system in which the IRPManager runs. That IRPManager supports the user that made the comment.	
source	It identifies one MonitoredEntity.	All values that carry the semantics of DN.
notificationIdSet	It carries one or more notification identifiers.	
clearUserId	It carries the identity of the user who invokes the clearAlarms operation.	It can be used to identify the human operator such as "John Smith" or it can identify a group, such as "Team Six", or it can contain no information such as "".
clearSystemId	It carries the identity of the system in which the IRPManager runs. That IRPManager supports the user who invokes the clearAlarms().	It can be used to identify the system, such as "system 6" or it can contain no information such as "".
serviceUser	It identifies the service-user whose request for service provided by the serviceProvider led to the generation of the security alarm.	identifiable.
serviceProvider	It identifies the service-provider whose service is requested by the serviceUser and the service request provokes the generation of the security alarm.	
securityAlarmDetector	It carries the identity of the detector of the security alarm.	This attribute may carry no information if the security alarm detector is not identifiable.

End of Change in Clause 5.5.1

Change in Clause 6.8.1.2

6.8.1.2 Input Parameters

Parameter Name	Quali fier	Matching Information	Comment
objectClass	M,F	MonitoredEntity.objectClass where the MonitoredEntity is identified by the relation-AlarmedObject-AlarmInformation of the new AlarmInformation.	
objectInstance	M,F	MonitoredEntity.objectInstance where the MonitoredEntity is identified by the relation-AlarmedObject-AlarmInformation of the new AlarmInformation.	
notificationId	М	This carries the semantics of notification identifier.	
eventTime	M,F	AlarmInformation.alarmRaisedTime	
systemDN	C,F	IRPAgent.systemDN where the IRPAgent is related to the AlarmIRP that is related to this AlarmList.	It carries the DN of the IRPAgent.
notificationType	M,F	"notifyNewAlarm".	
probableCause	M,F	AlarmInformation.probableCause	
perceivedSeverity	M,F	AlarmInformation.perceivedSeverity	
alarmType	M, F	AlarmInformation.eventType	The notification structure defined by this table is applicable if this parameter indicates "Communications Alarm", "Processing Error Alarm", "Environmental Alarm". "Quality Of Service Alarm" or "Equipment Alarm".
specificProblem	0	AlarmInformation.specificProblem	
correlatedNotifications	0	The set of CorrelatedNotification related to this AlarmInformation.	
backedUpStatus	0	AlarmInformation.backedUpStatus	
backUpObject	0	MonitoredEntity.objectInstance where the MonitoredEntity is identified by relation-BackUpObject-AlarmInformation of the new AlarmInformation.	It carries the DN of the back up object.
trendIndication	0	AlarmInformation.trendIndication	
thresholdInfo	0	AlarmInformation.thresholdInfo	
stateChangeDefinition	0	AlarmInformation.stateChange	
monitoredAttributes	0	AlarmInformation.monitoredAttributes	
proposedRepairActions	0	AlarmInformaton.proposedRepairAction s	
additionalText	0	AlarmInformation.additionalText	
<u>additionalInformation</u>	0	AlarmInformation.additionalInformation	
alarmId	М	AlarmInformation.alarmId	

End of Change in Clause 6.8.1.2

Change in Clause 6.8.1.2a

6.8.1.2a Input Parameters

Parameter Name	Quali fier	Matching Information	Comment
objectClass	M,F	MonitoredEntity.objectClass where the MonitoredEntity is identified by the relation-AlarmedObject-AlarmInformation of the new AlarmInformation.	
objectInstance	M,F	MonitoredEntity.objectInstance where the MonitoredEntity is identified by the relation-AlarmedObject-AlarmInformation of the new AlarmInformation.	
notificationId	М	This carries the semantics of notification identifier.	
eventTime	M,F	AlarmInformation.alarmRaisedTime	
SystemDN	C,F	IRPAgent.systemDN where the IRPAgent is related to the AlarmIRP that is related to this AlarmList.	It carries the DN of the IRPAgent.
notificationType	M,F	"notifyNewAlarm".	
probableCause	M,F	AlarmInformation.probableCause	
perceivedSeverity	M,F	AlarmInformation.perceivedSeverity	
alarmType	M, F	AlarmInformation.eventType	The notification structure of this table is applicable if this parameter indicates "Integrity Violation", "Operational Violation", "Physical Violation", "Security Violation", "Time Domain Violation".
correlatedNotifications	0	The set of CorrelatedNotification related to this AlarmInformation.	
additionalText	0	AlarmInformation.additionalText	
additionalInformation	0	AlarmInformation.additionalInformation	
serviceUser	M	AlarmInformation.serviceUser	This may contain no information if the identify of the service-user (requesting the service) is not known.
serviceProvider	M	AlarmInformation.serviceProvider	This shall always identify the service- provider receiving a service request, from serviceUser, that provokes the security alarm.
securityAlarmDetector	М	AlarmInformation.securityAlarmDetecto r	This may contain no information if the detector of the security alarm is the serviceProvider.
alarmId	М	AlarmInformation.alarmId	

End of Change in Clause 6.8.1.2a

Change in Clause 6.8.1.3.2

6.8.1.3.2 To-state

newAlarmInAlarmList.

Assertion Name	Definition
newAlarmInAlarmLis	AlarmList contains an AlarmInformation holding information conveyed by the newly generated
t	network alarm. This AlarmInformation is involved in relation-AlarmObject-AlarmInformation with
	the same MonitoredEntity as the one identified by the newly generated network alarm.
	The following attributes of the AlarmInformation shall be populated with information in the newly
	generated alarm.
	alarmId, notificationId, alarmRaisedTime, eventType, probableCause, perceivedSeverity.
	The following attributes of the same AlarmInformation shall be populated with information in the
	newly generated alarm if the information is present (in the newly generated alarm) and if the
	attribute is supported:
	specificProblem, backedUpStatus, trendIndication, thresholdInfo, stateChangedDefinition,
	monitoredAttributes, proposedRepairActions, additionalText, additionalInformation.

End of Change in Clause 6.8.1.3.2