
Source: SA5 (Telecom Management)
Title: Rel-4 CR 32.111-3 (Fault Management; Part 3: Alarm Integration
Reference Point: CORBA SS) Correction of erroneous and
addition of missing mapping tables
Document for: Decision
Agenda Item: 7.5.3

Doc-1st- Level	Spec	CR	Phase	Subject	Cat	Version - Current	Version -New	Doc-2nd- Level	Workitem
SP- 020015	32.111-3	014	Rel-4	Correction of erroneous and addition of missing mapping tables	F	4.1.0	4.2.0	S5- 020069	OAM-FM

CHANGE REQUEST

⌘ **32.111-3 CR 014** ⌘ rev **-** ⌘ Current version: **4.1.0** ⌘

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

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

Title:	⌘	Correction of erroneous and addition of missing mapping tables
Source:	⌘	SA5
Work item code:	⌘	OAM-FM
		Date: ⌘ 18/01/2002
Category:	⌘	F
		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><i>Use <u>one</u> of the following categories:</i></p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (addition of feature),</p> <p>C (functional modification of feature)</p> <p>D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p> </div> <div style="width: 45%;"> <p><i>Use <u>one</u> of the following releases:</i></p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>REL-4 (Release 4)</p> <p>REL-5 (Release 5)</p> </div> </div>

Reason for change:	⌘	There are erroneous and missing mapping tables in the TS.
Summary of change:	⌘	<ul style="list-style-type: none"> • In operation and notification mapping table: <ul style="list-style-type: none"> ○ Add missing operations and methods. ○ Correct IS operations and SS methods. • In operation parameter mapping tables: <ul style="list-style-type: none"> ○ Add missing qualifiers, CORBA parameters, CORBA modules and CORBA exceptions. ○ Correct erroneous qualifiers, IS operations, IS parameters, CORBA modules and CORBA exceptions. • Add missing parameter mapping tables. • In notification parameter mapping tables: <ul style="list-style-type: none"> ○ Add missing IS parameters, NV pair attribute name values and CORBA modules. ○ Correct erroneous notification type values, NV pair attribute name values, IS parameters, CORBA modules and CORBA interfaces. ○ Remove obsolete comments. •
Consequences if not approved:	⌘	The TS would lack information and contain erroneous misleading information.

Clauses affected:	⌘	5.1, 5.2, 5.3												
Other specs affected:	⌘	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><input type="checkbox"/></td> <td>Other core specifications</td> <td style="width: 30%;"></td> <td style="width: 30%;">⌘</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Test specifications</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>O&M Specifications</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/>	Other core specifications		⌘	<input type="checkbox"/>	Test specifications			<input type="checkbox"/>	O&M Specifications		
<input type="checkbox"/>	Other core specifications		⌘											
<input type="checkbox"/>	Test specifications													
<input type="checkbox"/>	O&M Specifications													
Other comments:	⌘													

5.1 Operation and Notification mapping



Table 1: Mapping from IS Notification/Operation to SS equivalents

IS Operation/ notification 3G TS 32.111-2 [13]	SS Method	Qualifier
●●● getAlarmIRPVersion getIRPVersion	get_alarm_IRP_version get_alarm_IRP_versions	M
●●● setComment	set_comment comment_alarms	O
getOperationProfile	get_alarm_IRP_operations_profile	O
getNotificationProfile	get_alarm_IRP_notification_profile	O
●●● notifyClearedAlarm	push_structured_event See clause 6.1	M
notifyChangedAlarm	push_structured_event See clause 6.1	M
notifyAckStateChanged	push_structured_event See clause 6.1	M
●●● notifyComments	push_structured_event See clause 6.1	O

5.2 Operation parameter mapping



Table 2: Mapping from IS acknowledgeAlarms parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
●●● status	CommonIRPConstDefsManagedGenericRPCConstDefs::Signal Exceptions: AcknowledgeAlarms, ManagedGenericRPSSystem::ParameterNotSupported , ManagedGenericRPSSystem::InvalidParameter	M

Table 3: Mapping from IS unacknowledgeAlarms parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
●●● status	CommonIRPConstDefsManagedGenericRPCConstDefs::Signal Exceptions: UnacknowledgeAlarms, ManagedGenericRPSSystem::OperationNotSupported , ManagedGenericRPSSystem::ParameterNotSupported , ManagedGenericRPSSystem::InvalidParameter	M

Table 4: Mapping from IS getAlarmList parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
●●● status	Exceptions: GetAlarmList, ManagedGenericRPSSystem::ParameterNotSupported , ManagedGenericRPSSystem::InvalidParameter	M

Table 5: Mapping from IS `getAlarmCount` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
●●●		
status	Exceptions: GetAlarmCount, ManagedGenericRPSystem::OperationNotSupported , ManagedGenericRPSystem::ParameterNotSupported , ManagedGenericRPSystem::InvalidParameter	M

Table 6: Mapping from IS `getAlarmIRPVersion`/`getIRPVersion` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
versionNumberList / versionNumberSet	Return value of type CommonIRPConstDefsManagedGenericRPConstDefs::VersionNumberSet	M
status	Exceptions: GetAlarmIRPVersion / GetAlarmIRPVersions	M

Table 7: Mapping from IS `setComment` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
●●●		
commentSystemId	string comment_system_id	MO
●●●		
badAlarmInformationReferenceList	AlarmIRPConstDefs::BadAlarmInformationIdSeq bad_alarm_information_id_list	M
status	ManagedGenericRPConstDefs::Signal Exceptions: CommentAlarms, ManagedGenericRPSystem::OperationNotSupported , ManagedGenericRPSystem::ParameterNotSupported ManagedGenericRPSystem::InvalidParameter	M

Table 8: Mapping from IS `getOperationProfile` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
irpVersion	ManagedGenericRPConstDefs::VersionNumber alarm_irp_version	M
operationNameProfile , operationParameterProfile	Return value of type ManagedGenericRPConstDefs::MethodList	M
status	Exceptions: GetAlarmIRPOperationsProfile , ManagedGenericRPSystem::OperationNotSupported , ManagedGenericRPSystem::InvalidParameter	M

Table 9: Mapping from IS `getNotificationProfile` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
irpVersion	ManagedGenericRPConstDefs::VersionNumber alarm_irp_version	M
notificationNameProfile , notificationParameterProfile	Return value of type ManagedGenericRPConstDefs::MethodList	M
status	Exceptions: GetAlarmIRPNotificationProfile , ManagedGenericRPSystem::OperationNotSupported , ManagedGenericRPSystem::InvalidParameter	M

5.3 Notification parameter mapping



Table 810: Mapping for notifyNewAlarm

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
notificationType	type_name	M	This is the NOTIFY_FM_NEW_ALARM of interface NotificationType of module NotificationIRPConstDefs 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. See block of const string definitions encapsulated defined by interface AlarmTypes AlarmType in the IDL of module AlarmIRPConstDefs . The strings start with "ET_".
managedObjectClass , managedObjectInstance 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. See corresponding table in Notification IRP: CORBA SS (3G TS 32.303 [5]) .
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. See corresponding table in Notification IRP: CORBA SS (3G TS 32.303 [5]) .
eventTime	One NV pair of filterable_body_fields	M	Name of NV pair is the EVENT_TIME of Name of NV pair is the EVENT_TIME of interface AttributeNameValue of of module NotificationIRPConstDefs. Value of NV pair is a Value of NV pair is a IRPTime of module ManagedGenericIRPConstDefs . See corresponding table in Notification IRP: CORBA SS (3G TS 32.303 [5]) .
systemDN	One NV pair of filterable_body_fields	M	Name of NV pair is the SYSTEM_DN of interface AttributeNameValue of module NotificationIRPConstDefs. Value of NV pair is a string. See corresponding table in Notification IRP: CORBA SS [5] .
probableCause	One-One NV pair of 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-One NV pair of pair of filterable_body_fields	M	Name of NV pair is the PERCEIVED_SEVERITY of interface AttributeNameValue of module AlarmIRPConstDefs.

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
			Value of NV pair is a short defined by interface PerceivedSeverity of module AlarmIRPCConstDefs.
●●●			
correlatedNotifications	One One NV pair of pair of filterable_body_fields	O	Name of NV pair is the CORRELATED_NOTIFICATIONS of interface AttributeNameValue. Value of NV pair is a CorrelatedNotificationSetType of module AlarmIRPCConstDefs.
backedUpStatus	One One NV pair of pair of filterable_body_fields	O	Name of NV pair is the BACKED_UP_STATUS of interface AttributeNameValue of module AlarmIRPCConstDefs. Value of NV pair is a boolean BackedUpStatusType of module AlarmIRPCConstDefs.
backUpObject	One One NV pair of pair of filterable_body_fields	O	Name of NV pair is the BACKED_UP_OBJECT BACK UP OBJECT of interface AttributeNameValue of module AlarmIRPCConstDefs. 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	O	Name of NV pair is the TREND_INDICATION of interface AttributeNameValue of module AlarmIRPCConstDefs. Value of NV pair is an enum TrendIndicationType of module AlarmIRPCConstDefs.
thresholdInfo	One NV pair of filterable_body_fields	O	Name of NV pair is the THRESHOLD_INFO of interface ParameterNameValue of module AlarmIRPCConstDefs. Value of NV pair is a ThresholdInfoType of module AlarmIRPCConstDefs.
stateChange Definition	One NV pair of filterable_body_fields	O	Name of NV pair is the STATE_CHANGE_DEFINITION of interface AttributeNameValue of module AlarmIRPCConstDefs. Value of NV pair is an AttributeChangeSetType of module AlarmIRPCConstDefs.
monitoredAttributes	One NV pair of filterable_body_fields	O	Name of NV pair is the MONITORED_ATTRIBUTES of interface AttributeNameValue of module AlarmIRPCConstDefs. Value of NV pair is an AttributeSetType of module AlarmIRPCConstDefs.
●●●			
alarmId	One One NV pair of pair of filterable_body_fields	M	Name of NV pair is the ALARM_ID of interface AttributeNameValue of module AlarmIRPCConstDefs. 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 probableCause is encoded as a short, it shall be converted into string before concatenation. -The resultant string shall not contain spaces.
●●●			

Table 911: Mapping for notifyAckStateChanged

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
notificationType	type_name	M	This is the NOTIFY_FM_ACK_STATE_CHANGED of interface NotificationType of module NotificationIRPConstDefs AlarmIRPConstDefs .
managedObjectClass , managedObjectInstance objectClass , objectInstance	One NV pair of filterable_body_fields	M	See that of notifyNewAlarm.

Table 1012: Mapping for notifyClearedAlarm

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
notificationType	type_name	M	This is the NOTIFY_FM_CLEARED_ALARM of interface NotificationType of module NotificationIRPConstDefs AlarmIRPConstDefs .
managedObjectClass , managedObjectInstance objectClass , objectInstance	One NV pair of filterable_body_fields	M	See that of notifyNewAlarm.
perceivedSeverity perceivedSeverity	One NV pair of filterable_body_fields	M	See that of notifyNewAlarm.
correlatedNotifications	--	--	See Note.
There is no corresponding IS attribute.	remaining_body		
NOTE: In the CORBA Solution Set the correlatedNotifications is not used. In the CORBA Solution Set, one notifyClearedAlarm notification can only clear a single alarmInformation.			

Table 1113: Mapping for notifyAlarmListRebuilt

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
notificationType	type_name	M	This is the NOTIFY_FM_ALARM_LIST_REBUILT of interface NotificationType of module NotificationIRPConstDefs AlarmIRPConstDefs .
managedObjectClass , managedObjectInstance objectClass , objectInstance	One NV pair of filterable_body_fields	M	See that of notifyNewAlarm.
reason	One NV pair of filterable_body_fields	M	Name of NV pair is the REASON of interface AttributeNameValue of module AlarmIRPConstDefs. #Value of NV pair is a string.

Table 1214: Mapping for notifyChangedAlarm

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
notificationType	type_name	M	This is the NOTIFY_FM_CHANGED_ALARM of interface NotificationType of module NotificationIRPCConstDefs AlarmIRPCConstDefs .
managedObjectClass , managedObjectInstance objectClass , objectInstance	One NV pair of filterable_body_fields	M	See that of notifyNewAlarm.

Table 1315: Mapping for notifyComments

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
notificationType	type_name	M	This is the NOTIFY_FM_CLEARED_ALARM NOTIFY_FM_COMMENT_ADDED of interface NotificationType of module NotificationIRPCConstDefs AlarmIRPCConstDefs .
managedObjectClass , managedObjectInstance objectClass , objectInstance	One NV pair of filterable_body_fields	M	See that of notifyNewAlarm.
comments	One NV pair of filterable_body_fields	M	Name of NV pair is the COMMENTS of interface AttributeNameValue of module AlarmIRPCConstDefs. Value of NV pair is a CommentSet of module AlarmIRPCConstDefs .