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**Source:** SA5 (Telecom Management)  
**Title:** Rel-4/5 CRs 32.303 (Configuration Management (CM); Notification Integration Reference Point; CORBA solution set version 1:1)  
**Document for:** Approval  
**Agenda Item:** 7.5.3

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Doc-1st-	Spec	CR	Rev	Phase	Subject	Cat	Version	Doc-	Workite	Relation
SP-020482	32.303	003	-	Rel-4	Corrections to CORBA IDL specification "NotificationIRPSystem"	F	4.2.0	S5-026486	OAM-FM	Parent CR
SP-020482	32.303	004	-	Rel-5	Corrections to CORBA IDL specification "NotificationIRPSystem"	A	5.0.0	S5-026487	OAM-NIM	Mirror CR

## CHANGE REQUEST

⌘ **32.303 CR 003** ⌘ rev **-** ⌘ Current version: **4.2.0** ⌘

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  Core Network

<b>Title:</b>	⌘ Corrections to CORBA IDL specification "NotificationIRPSystem"		
<b>Source:</b>	⌘ SA5		
<b>Work item code:</b>	⌘ OAM-FM	<b>Date:</b>	⌘ 28/06/2002
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		REL-4 (Release 4)
			REL-5 (Release 5)

<b>Reason for change:</b>	⌘ <ul style="list-style-type: none"> <li>Type of CORBA parameter "time_tick" in CORBA method "get_subscription_status" is inconsistent with type of CORBA parameter "time_tick" in CORBA methods "attach_push", "attach_push_b", "attach_pull".</li> <li>Type of CORBA parameter "subscription_id" in CORBA methods "get_subscription_status", "suspend_subscription", "resume_subscription", "detach" is inconsistent with type of CORBA return parameter in CORBA methods "attach_push", "attach_push_b", "attach_pull".</li> <li>Generic CORBA exception "InvalidParameter" for CORBA methods with at least one input parameter is missing from CORBA methods "suspend_subscription", "resume_subscription", "detach".</li> <li>Generic CORBA exception "ParameterNotSupported" for CORBA methods with at least one optional input parameter is missing from CORBA method "detach".</li> </ul>
<b>Summary of change:</b>	⌘ <ul style="list-style-type: none"> <li>Type of CORBA parameter "time_tick" in CORBA method "get_subscription_status" changed to CORBA type "unsigned long".</li> <li>Type of CORBA parameter "subscription_id" in CORBA methods "get_subscription_status", "suspend_subscription", "resume_subscription", "detach" changed to CORBA type "NotificationIRPConstDefs::SubscriptionId".</li> <li>Generic CORBA exception "InvalidParameter" added on CORBA methods "suspend_subscription", "resume_subscription", "detach".</li> <li>Generic CORBA exception "ParameterNotSupported" added on CORBA method "detach".</li> <li>Mapping tables are corrected to be consistent with IS definitions and with CORBA SS IDL definitions.</li> <li>Editorial correction in relation with rule in 32.102 related to CORBA IDL file name.</li> <li>Other editorial corrections.</li> </ul>
<b>Consequences if not approved:</b>	⌘ It would prevent implementing R4 CORBA SS of Notification IRP in a fully interoperable manner.

<b>Clauses affected:</b>	⌘ 5.1, 5.2, annex A
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<b>Other specs affected:</b>	☒ Other core specifications ☒ Test specifications ☒ O&M Specifications	☒
<b>Other comments:</b>	☒ If this "parent" CR is approved then also the attached "child"/Mirror CR can be approved: Rel-5 32.303 CR004 (S5-026487).	

## 5.1 Operation mapping

...

**Table 1: Mapping from IS Operation to SS Equivalents**

IS Operations in 3GPP TS 32.302 [5]	SS Methods	Qualifier
...		
getIRPVersion (see note.)	<u>get_notification_IRP_version</u> get notification IRP_versions	M
...		
getOperationProfile (see note.)	<u>get_notification_IRP_operation_profile</u> get notification IRP_operations_profile	O
...		

## 5.2 Operation parameter mapping

...

**Table 2: Mapping from IS subscribe parameters to SS attach\_push equivalents**

IS Operation parameter	SS Method parameter	Qualifier
...		
timeTick	<u>unsigned_long</u> time_tick	O
notification Categories	NotificationIRPConstDefs::NotificationCategorySet <u>notification_category_set</u> notification_categories	O
...		
status	Attach, <u>ManagedGenericIRPSystem::ParameterNotSupported</u> , <u>ManagedGenericIRPSystem::InvalidParameter</u> , AlreadySubscribed, <u>AtLeastOneNotificationCategoryNotSupported</u>	M
...		

**Table 3: Mapping from IS subscribe parameters to SS attach\_push\_b equivalents**

IS Operation parameter	SS Method parameter	Qualifier
...		
timeTick	<u>unsigned_long</u> time_tick	O
notification Categories	NotificationIRPConstDefs::NotificationCategorySet <u>notification_category_set</u> notification_categories	O
...		
status	Attach, <u>ManagedGenericIRPSystem::OperationNotSupported</u> , <u>ManagedGenericIRPSystem::ParameterNotSupported</u> , <u>ManagedGenericIRPSystem::InvalidParameter</u> , AlreadySubscribed, <u>AtLeastOneNotificationCategoryNotSupported</u>	M
...		

**Table 4: Mapping from IS subscribe parameters to SS attach\_pull equivalents**

IS Operation parameter	SS Method parameter	Qualifier
timeTick	unsigned long time_tick	O
notification Categories	NotificationIRPConstDefs::NotificationCategorySet notification_category_set notification_categories	O
status	Attach, ManagedGenericIRPSystem::OperationNotSupported, ManagedGenericIRPSystem::ParameterNotSupported, ManagedGenericIRPSystem::InvalidParameter, AlreadySubscribed, AtLeastOneNotificationCategoryNotSupported	M

**Table 5: Mapping from IS unsubscribe parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
status	DetachDetachException, ManagedGenericIRPSystem::ParameterNotSupported, ManagedGenericIRPSystem::InvalidParameter	M

**Table 6: Mapping from IS getIRPVersion parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
versionNumberListversion NumberSet	Return value of type CommonIRPConstDefsManagedGenericIRPConstDefs::VersionNumberSet	M
status	GetNotificationIRPVersionGetNotificationIRPVersions	M

**Table 7: Mapping from IS getSubscriptionStatus parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
notificationCategory List notificationCategory Set	Return value of type NotificationIRPConstDefs::NotificationCategorySet	M
timeTick	unsigned long time_tick	O
status	GetSubscriptionStatus, ManagedGenericIRPSystem::OperationNotSupported, ManagedGenericIRPSystem::InvalidParameter	M

**Table 8: Mapping from IS getSubscriptionIds parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
subscriptionIdListsubscriptionIdSet	Return value of type NotificationIRPConstDefs::SubscriptionIdSet	M
status	GetSubscriptionIds, ManagedGenericIRPSystem::OperationNotSupported, ManagedGenericIRPSystem::InvalidParameter	M

**Table 9: Mapping from IS changeSubscriptionFilter parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
status	ChangeSubscriptionFilter, ManagedGenericIRPSystem::OperationNotSupported, ManagedGenericIRPSystem::InvalidParameter	M

Table 12: Mapping from IS `getNotificationCategories` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
...		
<code>eventTypeList</code>	<code>NotificationIRPCConstDefs::EventTypesSet event_type_list</code>	⊖
<code>extendedEventList</code>	<code>NotificationIRPCConstDefs::ExtendedEventTypesSet extended_event_type_list</code>	⊖
Not specified in IS	<code>NotificationIRPCConstDefs::NotificationTypesSet notification_type_list</code>	⊖
<code>status</code>	<code>GetNotificationCategories,</code> <code>ManagedGenericIRPSystem::OperationNotSupported</code>	M

Table 13: Mapping from IS `getOperationProfile` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
...		
<code>status</code>	<code>GetNotificationIRPOperationsProfile,</code> <code>ManagedGenericIRPSystem::OperationNotSupported,</code> <code>ManagedGenericIRPSystem::InvalidParameter</code>	M

Table 14: Mapping from IS `getNotificationProfile` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
...		
<code>status</code>	<code>GetNotificationIRPNotificationProfile,</code> <code>ManagedGenericIRPSystem::OperationNotSupported,</code> <code>ManagedGenericIRPSystem::InvalidParameter</code>	M

## Annex A (normative):

### IDL Specifications (file name “ManagedGenericIRPCConstDefs.idl”)

#### A.1 IDL specification (file name “ManagedGenericIRPCConstDefs.idl”)

```
#ifndef ManagedGenericIRPCConstDefs_idl
...
IDL Specification (file name “ManagedGenericIRPSystem.idl”)
```

#### A.2 IDL specification (file name “ManagedGenericIRPSystem.idl”)

```
#ifndef ManagedGenericIRPSystem_idl
...
IDL Specification (file name “NotificationIRPCConstDefs.idl”)
```

#### A.3 IDL specification (file name “NotificationIRPCConstDefs.idl”)

```
#ifndef NotificationIRPCConstDefs_idl
...
```

IDL Specification (file name "NotificationIRPSystem.idl")

## A.4 IDL specification (file name "NotificationIRPSystem.idl")

```

#ifndef NotificationIRPSystem_idl
...
module NotificationIRPSystem
{
    ...
    interface NotificationIRP
    {
        ...
        void change_subscription_filter (
            in string NotificationIRPConstDefs::SubscriptionId subscription_id,
            ...
        )
        ...
        NotificationIRPConstDefs::NotificationCategorySet get_subscription_status
        (
            in string NotificationIRPConstDefs::SubscriptionId subscription_id,
            ...
            out unsigned_long time_tick
        )
        ...
        void suspend_subscription (
            in string NotificationIRPConstDefs::SubscriptionId subscription_id
        )
        raises (SuspendSubscription,
            ManagedGenericIRPSystem::OperationNotSupported,
            ManagedGenericIRPSystem::InvalidParameter);
        ...
        void resume_subscription (
            in string NotificationIRPConstDefs::SubscriptionId subscription_id
        )
        raises (ResumeSubscription,
            ManagedGenericIRPSystem::OperationNotSupported,
            ManagedGenericIRPSystem::InvalidParameter);
        ...
        void detach (
            ...
            in string NotificationIRPConstDefs::SubscriptionId subscription_id
        )
        raises (DetachException,
            ManagedGenericIRPSystem::ParameterNotSupported,
            ManagedGenericIRPSystem::InvalidParameter);
    };
}i
...

```

## CHANGE REQUEST

⌘ **32.303 CR 004** ⌘ rev **-** ⌘ Current version: **5.0.0** ⌘

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

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

<b>Title:</b>	⌘ Corrections to CORBA IDL specification "NotificationIRPSystem"		
<b>Source:</b>	⌘ SA5		
<b>Work item code:</b>	⌘ OAM-NIM	<b>Date:</b>	⌘ 28/06/2002
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		REL-4 (Release 4)
			REL-5 (Release 5)

<b>Reason for change:</b>	⌘	<ul style="list-style-type: none"> <li>• Type of CORBA parameter "time_tick" in CORBA method "get_subscription_status" is inconsistent with type of CORBA parameter "time_tick" in CORBA methods "attach_push", "attach_push_b", "attach_pull".</li> <li>• Type of CORBA parameter "subscription_id" in CORBA methods "get_subscription_status", "suspend_subscription", "resume_subscription", "detach" is inconsistent with type of CORBA return parameter in CORBA methods "attach_push", "attach_push_b", "attach_pull".</li> <li>• Generic CORBA exception "InvalidParameter" for CORBA methods with at least one input parameter is missing from CORBA methods "suspend_subscription", "resume_subscription", "detach".</li> <li>• Generic CORBA exception "ParameterNotSupported" for CORBA methods with at least one optional input parameter is missing from CORBA method "detach".</li> </ul>
<b>Summary of change:</b>	⌘	<ul style="list-style-type: none"> <li>• Type of CORBA parameter "time_tick" in CORBA method "get_subscription_status" changed to CORBA type "unsigned long".</li> <li>• Type of CORBA parameter "subscription_id" in CORBA methods "get_subscription_status", "suspend_subscription", "resume_subscription", "detach" changed to CORBA type "NotificationIRPConstDefs::SubscriptionId".</li> <li>• Generic CORBA exception "InvalidParameter" added on CORBA methods "suspend_subscription", "resume_subscription", "detach".</li> <li>• Generic CORBA exception "ParameterNotSupported" added on CORBA method "detach".</li> <li>• Mapping tables are corrected to be consistent with IS definitions and with CORBA SS IDL definitions.</li> <li>• Editorial correction in relation with rule in 32.102 related to CORBA IDL file name.</li> <li>• Other editorial corrections.</li> </ul>
<b>Consequences if not approved:</b>	⌘	It would prevent implementing Rel-4 CORBA SS of Notification IRP in a fully interoperable manner.

<b>Clauses affected:</b>	⌘ 5.1, 5.2, annex A
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<b>Other specs affected:</b>	☒ Other core specifications ☒ Test specifications ☒ O&M Specifications	☒
<b>Other comments:</b>	☒ This "child"/Mirror CR can only be approved if its "parent" Rel-4 32.303CR003 (S5-026486) has been approved.	

## 5.1 Operation mapping

...

**Table 1: Mapping from IS Operation to SS Equivalents**

IS Operations in 3GPP TS 32.302 [5]	SS Methods	Qualifier
...		
getIRPVersion (see note.)	<u>get_notification_IRP_version</u> get notification_IRP_versions	M
...		
getOperationProfile (see note.)	<u>get_notification_IRP_operation_profile</u> get notification_IRP_operations_pr <u>ofile</u>	O
...		

## 5.2 Operation parameter mapping

...

**Table 2: Mapping from IS subscribe parameters to SS attach\_push equivalents**

IS Operation parameter	SS Method parameter	Qualifier
...		
timeTick	<u>unsigned_long</u> time_tick	O
notification Categories	NotificationIRPConstDefs::NotificationCategorySet <u>notification_category_set</u> notification_categories	O
...		
status	Attach, <u>ManagedGenericIRPSystem::ParameterNotSupported</u> , <u>ManagedGenericIRPSystem::InvalidParameter</u> , AlreadySubscribed, <u>AtLeastOneNotificationCategoryNotSupported</u>	M
...		

**Table 3: Mapping from IS subscribe parameters to SS attach\_push\_b equivalents**

IS Operation parameter	SS Method parameter	Qualifier
...		
timeTick	<u>unsigned_long</u> time_tick	O
notification Categories	NotificationIRPConstDefs::NotificationCategorySet <u>notification_category_set</u> <u>notification_categories</u>	O
...		
status	Attach, <u>ManagedGenericIRPSystem::OperationNotSupported</u> , <u>ManagedGenericIRPSystem::ParameterNotSupported</u> , <u>ManagedGenericIRPSystem::InvalidParameter</u> , AlreadySubscribed, <u>AtLeastOneNotificationCategoryNotSupported</u>	M
...		

**Table 4: Mapping from IS subscribe parameters to SS attach\_pull equivalents**

IS Operation parameter	SS Method parameter	Qualifier
timeTick	unsigned long time_tick	O
notification Categories	NotificationIRPConstDefs::NotificationCategorySet notification_category_set notification_categories	O
status	Attach, ManagedGenericIRPSystem::OperationNotSupported, ManagedGenericIRPSystem::ParameterNotSupported, ManagedGenericIRPSystem::InvalidParameter, AlreadySubscribed, AtLeastOneNotificationCategoryNotSupported	M

**Table 5: Mapping from IS unsubscribe parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
status	DetachDetachException, ManagedGenericIRPSystem::ParameterNotSupported, ManagedGenericIRPSystem::InvalidParameter	M

**Table 6: Mapping from IS getIRPVersion parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
versionNumberListversion NumberSet	Return value of type CommonIRPConstDefsManagedGenericIRPConstDefs::VersionNumberSet	M
status	GetNotificationIRPVersionGetNotificationIRPVersions	M

**Table 7: Mapping from IS getSubscriptionStatus parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
notificationCategory List notificationCategory Set	Return value of type NotificationIRPConstDefs::NotificationCategorySet	M
timeTick	unsigned long time_tick	O
status	GetSubscriptionStatus, ManagedGenericIRPSystem::OperationNotSupported, ManagedGenericIRPSystem::InvalidParameter	M

**Table 8: Mapping from IS getSubscriptionIds parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
subscriptionIdListsubscriptionIdSet	Return value of type NotificationIRPConstDefs::SubscriptionIdSet	M
status	GetSubscriptionIds, ManagedGenericIRPSystem::OperationNotSupported, ManagedGenericIRPSystem::InvalidParameter	M

**Table 9: Mapping from IS changeSubscriptionFilter parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
status	ChangeSubscriptionFilter, ManagedGenericIRPSystem::OperationNotSupported, ManagedGenericIRPSystem::InvalidParameter	M

Table 12: Mapping from IS `getNotificationCategories` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
...		
<code>eventTypeList</code>	<code>NotificationIRPCConstDefs::EventTypesSet event_type_list</code>	⊖
<code>extendedEventList</code>	<code>NotificationIRPCConstDefs::ExtendedEventTypesSet extended_event_type_list</code>	⊖
Not specified in IS	<code>NotificationIRPCConstDefs::NotificationTypesSet notification_type_list</code>	⊖
<code>status</code>	<code>GetNotificationCategories,</code> <code>ManagedGenericIRPSystem::OperationNotSupported</code>	M

Table 13: Mapping from IS `getOperationProfile` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
...		
<code>status</code>	<code>GetNotificationIRPOperationsProfile,</code> <code>ManagedGenericIRPSystem::OperationNotSupported,</code> <code>ManagedGenericIRPSystem::InvalidParameter</code>	M

Table 14: Mapping from IS `getNotificationProfile` parameters to SS equivalents

IS Operation parameter	SS Method parameter	Qualifier
...		
<code>status</code>	<code>GetNotificationIRPNotificationProfile,</code> <code>ManagedGenericIRPSystem::OperationNotSupported,</code> <code>ManagedGenericIRPSystem::InvalidParameter</code>	M

## Annex A (normative):

### IDL Specifications (file name “ManagedGenericIRPCConstDefs.idl”)

#### A.1 IDL specification (file name “ManagedGenericIRPCConstDefs.idl”)

```
#ifndef ManagedGenericIRPCConstDefs_idl
...
IDL Specification (file name “ManagedGenericIRPSystem.idl”)
```

#### A.2 IDL specification (file name “ManagedGenericIRPSystem.idl”)

```
#ifndef ManagedGenericIRPSystem_idl
...
IDL Specification (file name “NotificationIRPCConstDefs.idl”)
```

#### A.3 IDL specification (file name “NotificationIRPCConstDefs.idl”)

```
#ifndef NotificationIRPCConstDefs_idl
...
```

IDL Specification (file name "NotificationIRPSystem.idl")

---

## A.4 IDL specification (file name "NotificationIRPSystem.idl")

```

#ifndef NotificationIRPSystem_idl
...
module NotificationIRPSystem
{
    ...
    interface NotificationIRP
    {
        ...
        void change_subscription_filter (
            in string NotificationIRPConstDefs::SubscriptionId subscription_id,
            ...
        )
        ...
        NotificationIRPConstDefs::NotificationCategorySet get_subscription_status
        (
            in string NotificationIRPConstDefs::SubscriptionId subscription_id,
            ...
            out unsigned_long time_tick
        )
        ...
        void suspend_subscription (
            in string NotificationIRPConstDefs::SubscriptionId subscription_id
        )
        raises (SuspendSubscription,
            ManagedGenericIRPSystem::OperationNotSupported,
            ManagedGenericIRPSystem::InvalidParameter);
        ...
        void resume_subscription (
            in string NotificationIRPConstDefs::SubscriptionId subscription_id
        )
        raises (ResumeSubscription,
            ManagedGenericIRPSystem::OperationNotSupported,
            ManagedGenericIRPSystem::InvalidParameter);
        ...
        void detach (
            ...
            in string NotificationIRPConstDefs::SubscriptionId subscription_id
        )
        raises (DetachException,
            ManagedGenericIRPSystem::ParameterNotSupported,
            ManagedGenericIRPSystem::InvalidParameter);
    };
}
...

```