Source:	**SA5 (Telecom Management)**
Title:	**Rel-6 CR 32.664 (Configuration Management; Kernel CM IRP: CMIP solution set) : Correction to notifyCMSynchronizationRecommendedInfo**
Document for:	**Approval**
Agenda Item:	**7.5.3**

Doc-1st-	Spec	CR	R	Ph	Subject	Ca	Ver	Doc-2nd-	Workite
SP-030289	32.664	002	-	Rel-6	**Correction to notifyCMSynchronizationRecommendedInfo**	F	6.0.0	S5-036607	OAM-NIM

CR-Form-v7

CHANGE REQUEST

| ⌘ | **32.664** CR **002** | ⌘**rev** | **-** | ⌘ | Current version: | **6.0.0** | ⌘ |

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

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

Title: ⌘	Correction to *notifyCMSynchronizationRecommendedInfo*	
Source: ⌘	S5	
Work item code: ⌘	OAM-NIM	***Date:*** ⌘ 09/05/2003
Category: ⌘	**F**	***Release:*** ⌘ *Rel-6*

Use one of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2　　(GSM Phase 2)
R96　(Release 1996)
R97　(Release 1997)
R98　(Release 1998)
R99　(Release 1999)
Rel-4　(Release 4)
Rel-5　(Release 5)
Rel-6　(Release 6)

Reason for change: ⌘	i)The parameter mapping table (#9) describes correctly as content of the notifyCMSynchronizationRecommended parameters the item notificationIdentifier. But in the ASN.1 module this parameter is missing. ii) Table 9 names the parameter set notifyCMSynchronizationRecommendedInfo, but the GSMO and ASN.1 module calls it ObjectsSelection iii)Table 9 gives the impression that the notificationType would be part of the notifyCMSynchronizationRecommendedInfo.
Summary of change: ⌘	i) and ii) Add notificationIdentifier into notification syntax and rename it to notifyCMSynchronizationRecommendedInfo. iii) Correct Table 9.
Consequences if not approved: ⌘	Inconsistent specification

Clauses affected: ⌘	4.2.3, 5.6, 6

Other specs affected: ⌘		Y	N	
			X	Other core specifications　⌘
			X	Test specifications
			X	O&M Specifications

Other comments: ⌘	

How to create CRs using this form:

Change in Clause 4.2.3

4.2.3 Mapping of Notifications

Table 5 maps the notifications defined in 3GPP TS 32.362 [7] onto corresponding GDMO notification defined in ITU-T Recommendation X.721 [9]. The operations are qualified either as Mandatory (M) or Optional (O).

Table 5: Mapping of notifications of the Kernel Configuration Management IRP: IS

Interface	Operation	GDMO Notification or CMISE of CMIP SS	Qualifier
KernelCmNotifications#1	notifyObjectCreation	objectCreation ITU-T X.721 [9] {smi2Notification 6}	O
KernelCmNotifications#2	notifyObjectDeletion	objectDeletion ITU-T X.721 [9] {smi2Notification 7}	O
KernelCmNotifications#3	notifyAttributeValueChange	attributeValueChange ITU-T X.721 [9] {smi2Notification 1}	O
KernelCmNotifications#4	notifyCMSynchronizationRecommended	NotifyCMSynchronizationRecommended { ts32-664Notification 1}	O

...

4.2.3.1.4 Parameter mapping of the notification *notifyCMSynchronizationRecommended*

Except for *objectClass, objectInstance, eventTime* and *notificationType* all parameters defined in the IS are mapped to the M-EVENT-REPORT parameter 'Event information'. The syntax of this structured parameter is defined in the current specification by the ASN.1 definition *notifyCMSynchronizationRecommendedInfo.*

Table 9: Parameter mapping of the notification *notifyCMSynchronizationRecommended*

IS Parameter Name	CMIP SS Equivalent	Qualifier
objectClass	M-EVENT-REPORT Req/Ind parameter 'Managed Object Class'	M
objectInstance	M-EVENT-REPORT Req/Ind parameter 'Managed object instance'	M
notificationId	M-EVENT-REPORT Req/Ind parameter 'Event information' (notifyCMSynchronizationRecommendedInfo): notificationIdentifier	M
eventTime	M-EVENT-REPORT Req/Ind parameter 'Event time':	M
systemDN	This IS parameter is conditional and not used in the CMIP SS	-
notificationType	M-EVENT-REPORT Req/Ind parameter (notifyCMSynchronizationRecommendedInfo): 'Event type'	M
baseMOClass	M-EVENT-REPORT Req/Ind parameter 'Event information' (notifyCMSynchronizationRecommendedInfo): baseMOClass	M
baseMOInstance	M-EVENT-REPORT Req/Ind parameter 'Event information' (notifyCMSynchronizationRecommendedInfo): baseMOInstance	M
scope	M-EVENT-REPORT Req/Ind parameter 'Event information' (notifyCMSynchronizationRecommendedInfo): scope	M
additionalText	M-EVENT-REPORT Req/Ind parameter 'Event information' (notifyCMSynchronizationRecommendedInfo): additionalText	O

End of Change in Clause 4.2.3

Change in Clause 5.6

5.6   Notifications

5.6.1   notifyCMSynchronizationRecommended(O)

notifyCMSynchronizationRecommended **NOTIFICATION**
    BEHAVIOUR
        notifyCMSynchronizationRecommendedBehaviour;
    WITH INFORMATION SYNTAX
        TS32-664TypeModule.NotifyCMSynchronizationRecommendedInfoObjectsSelection;
REGISTERED AS   { ts32-664Notification 1 };

notifyCMSynchronizationRecommendedBehaviour **BEHAVIOUR**
DEFINED AS
    "This notification type is used to notify IRPManager that part or whole of the CM information needs to be synchonized. In this notification, IRPAgent may specify the objects that are to be synchronized. For example, when a new managed element which contains a lot of MOIs is added, IRPAgent may just send this notification specifying the root object of a subtree in the MIT, and NMC may then trigger an operation to get the requested CM information";

End of Change in Clause 5.6

Change in Clause 6

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6   ASN.1 Definitions

```
TS32-664TypeModule {itu-t(0) identified-organization(4) etsi(0) mobileDomain(0) umts-Operation-
Maintenance(3) ts32-664(664) informationModel(0) asn1Module(2) version1(1)}

DEFINITIONS IMPLICIT TAGS ::=
BEGIN

--EXPORTS everything

IMPORTS

-- from ITU-T X.721
AdditionalText, NotificationIdentifier
    FROM Attribute-ASN1Module {joint-iso-ccitt ms(9) smi(3) part2(2) asn1Module (2) 1}

-- from ITU-T X.711
ObjectInstance, ObjectClass, Scope
    FROM CMIP-1 { joint-iso-ccitt ms(9) cmip(1) modules(0) protocol(3) };

-- 3GPP TS 32.664 related Object Identifiers

baseNodeUMTS            OBJECT IDENTIFIER ::= {itu-t (0) identified-organization (4)
                                           etsi (0) mobileDomain (0)
                                           umts-Operation-Maintenance (3)}

ts32-664Prefix          OBJECT IDENTIFIER ::= {baseNodeUMTS ts32-664(664)}
ts32-664InfoModel       OBJECT IDENTIFIER ::= {ts32-664Prefix informationModel(0)}

ts32-664ObjectClass     OBJECT IDENTIFIER ::= {ts32-664InfoModel managedObjectClass(3)}
ts32-664Package         OBJECT IDENTIFIER ::= {ts32-664InfoModel package(4)}
ts32-664Parameter       OBJECT IDENTIFIER ::= {ts32-664InfoModel parameter(5)}
ts32-664Attribute       OBJECT IDENTIFIER ::= {ts32-664InfoModel attribute(7)}
ts32-664Action          OBJECT IDENTIFIER ::= {ts32-664InfoModel action(9)}
ts32-664Notification    OBJECT IDENTIFIER ::= {ts32-664InfoModel notification(10)}

ErrorCauses ::= ENUMERATED
    {
    noError                    (0),   -- operation / notification successfully performed
```

```
    unspecifiedErrorReason   (255)    -- operation failed, specific error unknown
    }

GetKernelCmIRPVersionReply ::= SEQUENCE
    {
    versionNumberList      SupportedKernelCmIRPVersions,
    status                 ErrorCauses
    }

GetKernelCmIRPNotificationProfileReply ::= SEQUENCE
    {
    notificationNameProfile        NotificationList,
    notificationParameterProfile   ParameterListOfList,
    status                         ErrorCauses
    }

GetKernelCmIRPOperationProfileReply ::= SEQUENCE
    {
    operationNameProfile       OperationList,
    operationParameterProfile  ParameterListOfList,
    status                     ErrorCauses
    }

GetNRMIRPVersionReply ::= SEQUENCE
    {
    versionNumberList      SupportedNRMSSVersions,
    vSEVersionNumberList   SupportedVSEVersions,
    status                 ErrorCauses
}

GeneralObjectId ::= INTEGER

IRPVersionNumber ::= GraphicString

SupportedKernelCmIRPVersions ::= SET OF IRPVersionNumber

SupportedNRMSSVersions ::= SET OF IRPVersionNumber

SupportedVSEVersions ::= SET OF IRPVersionNumber

NotificationList ::= SET OF NotificationName

NotificationName ::= GraphicString

NotifyCMSynchronizationRecommendedInfoObjectsSelection ::= SEQUENCE
    {
    baseMOClass            ObjectClass,
    baseMOInstance         ObjectInstance,
    scope                  Scope,
    notificationIdentifier NotificationIdentifier,
    additionalText         AdditionalText OPTIONAL
    }

OperationList ::= SET OF OperationName

OperationName ::= GraphicString

ParameterListOfList ::= SET OF ParameterList

ParameterList ::= SET OF ParameterName

ParameterName ::= GraphicString

VersionNumberList ::= SupportedKernelCmIRPVersions

VSEVersionNumberList ::= SupportedVSEVersions

END -- of module TS32-664TypeModule
```

End of Change in Clause 6
End of document