Source:	**SA5 (Telecom Management)**
Title:	**Rel-6 CR 32.664 Add State Management support to Kernel CM IRP CMIP SS**
Document for:	**Approval**
Agenda Item:	**7.5.3**

Doc-1st-Level	Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Ver-Cur	Wi
SP-040570	S5-046697	32.664	003	--	Rel-6	Add State Management support to Kernel CM IRP CMIP SS	B	6.1.0	OAM-NIM

CR-Form-v7

CHANGE REQUEST

| ⌘ | **32.664** CR **003** | ⌘**rev** | **-** | ⌘ | Current version: | **6.1.0** | ⌘ |

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

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

Title: ⌘	Add State Management support to Kernel CM IRP CMIP SS	
Source: ⌘	**SA5** (clemens.suerbaum@siemens.com)	
Work item code:⌘	OAM-NIM	***Date:*** ⌘ 30/06/2004
Category: ⌘	**B**	***Release:*** ⌘ Rel-6

Use <u>one</u> *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 <u>one</u> *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: ⌘	Add State Management Support to Kernel CM IRP CMIP SS
Summary of change:⌘	Add IS/SS and parameter mapping for State Change Notification
Consequences if not approved: ⌘	No support for State Management related notification

Clauses affected: ⌘	4.2.3

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

Other comments: ⌘	

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
KernelCmNotifications#5	notifyStateChange	stateChange ITU-T X.721 [9] {smi2Notification 14}	O

4.2.3.1 Mapping of Notification Parameters

Tables 6 to 9 in the following subclauses list the parameters of each notification defined in the Kernel Configuration Management IRP: Information Service [7] and their equivalents in the CMIP solution set.

4.2.3.1.1 Parameter Mapping of the Notification *notifyObjectCreation*

Except for *objectClass*, *objectInstance*, *eventTime* and *notificationType* all parameters defined in the IS are mapped to the M-EVENT-REPORT parameter ëEvent informationí. The syntax of this structured parameter is defined for the notification *objectCreation* in ITU-T X.721 [9] by the ASN.1 definition *ObjectInfo*.

Table 6: Parameter mapping of the notification *notifyObjectCreation*

IS Parameter	CMIP SS Equivalent	Qualifier
objectClass	M-EVENT-REPORT Req/Ind parameter ëManaged object classí	M
objectInstance	M-EVENT-REPORT Req/Ind parameter ëManaged object instanceí	M
notificationId	M-EVENT-REPORT Req/Ind parameter ëEvent informationí (ObjectInfo): notificationIdentifier	M
eventTime	M-EVENT-REPORT Req/Ind parameter ëEvent timeí	M
systemDN	This IS parameter is conditional and not used in the CMIP SS.	-
notificationType	M-EVENT-REPORT Req/Ind parameter ëEvent typeí	M
correlatedNotifications	M-EVENT-REPORT Req/Ind parameter ëEvent informationí (ObjectInfo): correlatedNotifications	O
sourceIndicator	M-EVENT-REPORT Req/Ind parameter ëEvent informationí (ObjectInfo): sourceIndicator	O
attributeList	M-EVENT-REPORT Req/Ind parameter ëEvent informationí (ObjectInfo): attributeList	O
additionalText	M-EVENT-REPORT Req/Ind parameter ëEvent informationí (ObjectInfo): additionalText	O
no equivalence	M-EVENT-REPORT Req/Ind parameter ëEvent informationí (ObjectInfo): additionalInformation	O

4.2.3.1.2 Parameters mapping of the notification *notifyObjectDeletion*

Except for *objectClass*, *objectInstance*, *eventTime* and *notificationType* all parameters defined in the IS are mapped to the M-EVENT-REPORT parameter ëEvent informationí. The syntax of this structured parameter is defined for the notification *objectDeletion* in ITU-T X.721 [9] by the ASN.1 definition *ObjectInfo*.

Table 7: Parameter mapping of the notification *notifyObjectDeletion*

IS Parameter	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' (ObjectInfo): 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 'Event type'	M
correlatedNotifications	M-EVENT-REPORT Req/Ind parameter 'Event information' (ObjectInfo): correlatedNotifications	O
sourceIndicator	M-EVENT-REPORT Req/Ind parameter 'Event information' (ObjectInfo): sourceIndicator	O
attributeList	M-EVENT-REPORT Req/Ind parameter 'Event information' (ObjectInfo): attributeList	O
additionalText	M-EVENT-REPORT Req/Ind parameter 'Event information' (ObjectInfo): additionalText	O
no equivalence	M-EVENT-REPORT Req/Ind parameter 'Event information' (ObjectInfo): additionalInformation	O

4.2.3.1.3 Parameter mapping of the notification *notifyAttributeValueChange*

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 for the notification *attributeValueChange* in ITU-T X.721 [9] by the ASN.1 definition *AttributeValueChangeInfo*.

Table 8: Parameter mapping of the notification *notifyAttributeValueChange*

IS Parameter	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' (AttributeValueChangeInfo): 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 'Event type'	M
correlatedNotifications	M-EVENT-REPORT Req/Ind parameter 'Event information' (AttributeValueChangeInfo): correlatedNotifications	O
sourceIndicator	M-EVENT-REPORT Req/Ind parameter 'Event information' (AttributeValueChangeInfo): sourceIndicator	O
attributeValueChange	M-EVENT-REPORT Req/Ind parameter 'Event information' (AttributeValueChangeInfo): attributeValueChangeDefinition	M
no equivalence	M-EVENT-REPORT Req/Ind parameter 'Event information' (AttributeValueChangeInfo): attributeIdentifierList	O
no equivalence ~~additionalText~~	M-EVENT-REPORT Req/Ind parameter 'Event information' (AttributeValueChangeInfo): additionalText	O
no equivalence	M-EVENT-REPORT Req/Ind parameter 'Event information' (AttributeValueChangeInfo): additionalInformation	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 ìManaged Object Classí	M
objectInstance	M-EVENT-REPORT Req/Ind parameter ìManaged object instanceí	M
notificationId	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (notifyCMSynchronizationRecommendedInfo): notificationIdentifier	M
eventTime	M-EVENT-REPORT Req/Ind parameter ìEvent timeí:	M
systemDN	This IS parameter is conditional and not used in the CMIP SS	-
notificationType	M-EVENT-REPORT Req/Ind parameter: ìEvent typeí	M
baseMOClass	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (notifyCMSynchronizationRecommendedInfo): baseMOClass	M
baseMOInstance	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (notifyCMSynchronizationRecommendedInfo): baseMOInstance	M
scope	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (notifyCMSynchronizationRecommendedInfo): scope	M
additionalText	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (notifyCMSynchronizationRecommendedInfo): additionalText	O

4.2.3.1.5 Parameter mapping of the notification *notifyStateChange*

Except for *objectClass*, *objectInstance*, *eventTime* and *notificationType* all parameters defined in the IS are mapped to the M-EVENT-REPORT parameter ìEvent informationí. The syntax of this structured parameter is defined for the notification *stateChange* in ITU-T X.721 [9] by the ASN.1 definition *stateChangeInfo*.

Table 10: Parameter mapping of the notification *notifyStateChange*

IS Parameter	CMIP SS Equivalent	Qualifier
objectClass	M-EVENT-REPORT Req/Ind parameter ìManaged Object Classí	M
objectInstance	M-EVENT-REPORT Req/Ind parameter ìManaged object instanceí	M
notificationId	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (StateChangeInfo): notificationIdentifier	M
eventTime	M-EVENT-REPORT Req/Ind parameter ìEvent timeí	M
systemDN	This IS parameter is conditional and not used in the CMIP SS	-
notificationType	M-EVENT-REPORT Req/Ind parameter ìEvent typeí	M
correlatedNotifications	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (StateChangeInfo): correlatedNotifications	O
sourceIndicator	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (StateChangeInfo): sourceIndicator	O
stateChange	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (StateChangeInfo): stateChangeDefinition	M
no equivalence	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (StateChangeInfo): attributeIdentifierList	O
no equivalence	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (StateChangeInfo): additionalText	O
no equivalence	M-EVENT-REPORT Req/Ind parameter ìEvent informationí (StateChangeInfo): additionalInformation	O

**End of Change in Chapter 4.2.3
End of Document**

Annex A (informative):
Change history

Change history							
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**
Sep 2002	S_17	SP-020467	--	--	Submitted to TSG SA #17 for Information	1.0.0	
Dec 2002	S_18	SP-020743	--	--	Submitted to TSG SA #18 for Approval	2.0.0	5.0.0
Mar 2003	S_19	SP-030145	001	--	Add GDMO definition of notifyCMSynchronizationRecommended notification for KernelCM IRP	5.0.0	6.0.0
Jun 2003	S_20	SP-030289	002	--	Correction to notifyCMSynchronizationRecommendedInfo	6.0.0	6.1.0