

Source: SA5 (Telecom Management)
Title: 7 Rel-5/6 CR 32.603/23/33/53/63 Removal/corrections of Rules for NRM extensions - Align with 32.622 (Generic NRM IS)
Document for: Approval
Agenda Item: 7.5.3

Doc-1 st -Level	Doc-2 nd -Level	Spec	CR	Rev	Phase	Subject	Cat	Ver-Cur	Wi
SP-040567	S5-046687	32.603	011	--	Rel-5	Removal of Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	F	5.2.0	OAM-NIM
SP-040567	S5-046688	32.603	012	--	Rel-6	Removal of Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	A	6.0.0	OAM-NIM
SP-040567	S5-046689	32.623	012	--	Rel-5	Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	F	5.3.0	OAM-NIM
SP-040567	S5-046690	32.623	013	--	Rel-6	Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	A	6.2.0	OAM-NIM
SP-040567	S5-046691	32.633	004	--	Rel-5	Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	F	5.1.0	OAM-NIM
SP-040567	S5-046692	32.653	008	--	Rel-5	Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	F	5.2.0	OAM-NIM
SP-040567	S5-046693	32.663	005	--	Rel-5	Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	F	5.2.0	OAM-NIM

CHANGE REQUEST

⌘ **32.603 CR 011** ⌘ rev - ⌘ Current version: **5.2.0** ⌘

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

Proposed change affects: | UICC apps ⌘ ME Radio Access Network Core Network

Title:	⌘ Removal of Rules for NRM extensions - Align with 32.622 (Generic NRM IS)		
Source:	⌘ SA5 [thomas.tovinger@ericsson.com]		
Work item code:	⌘ OAM-NIM	Date:	⌘ 02/07/2004
Category:	⌘ F	Release:	⌘ Rel-5
	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:	⌘ ⌘ Keeping clause 7 is a mistake from early releases when Basic CM IRP contained also the NRMs, and it was not removed when the NRMs were moved to separate TSs. Clause 7 only applies to the NRM IRP CORBA SSs.
Summary of change:	⌘ Remove clause 7 (make it Void).
Consequences if not approved:	⌘ Could lead to ambiguities and misinterpretations.

Clauses affected:	⌘ 7												
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications ⌘ <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Other comments:	⌘ CRs to the other Rel-5/6 CORBA SSs 32.6x3 except 32.613 and 32.643 are submitted as a package to this SA plenary.												

Change in Clause 7

7 VoidRules for NRM extensions

~~This clause discusses how the models and IDL definitions provided in the present document can be extended for a particular implementation and still remain compliant with 3GPP SA5's specifications.~~

~~7.1 Allowed extensions~~

~~Vendor specific MOCs may be supported. The vendor specific MOCs may support new types of attributes. The 3GPP SA5 specified notifications may be issued referring to the vendor specific MOCs and vendor specific attributes. New MOCs shall be distinguishable from 3GPP SA5 MOCs by name. 3GPP SA5 specified and vendor specific attributes may be used in vendor specific MOCs. Vendor specific attribute names shall be distinguishable from existing attribute names.~~

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~~When subclassing, the 3GPP SA5 specified containment rules and their specified cardinality shall still be followed. As an example, ManagementNode (or its subclasses) shall be contained under SubNetwork (or its subclasses). Also, in Rel-4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses).~~

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~~7.2 Extensions not allowed~~

~~The IDL specifications in the present document cannot be edited or altered. Any additional IDL specifications shall be specified in separate IDL files.~~

~~IDL interfaces (note: not MOCs) specified in the present document may not be subclassed or extended. New interfaces may be defined with vendor specific methods.~~

**End of Change in Clause 7
End of Document**

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	S_13	SP-010476	001	--	Correction of invokeIdentifier usage	4.0.0	4.1.0
Mar 2002	S_15	SP-020019	002	--	Correction of erroneous CORBA module names and mapping tables	4.1.0	4.2.0
Mar 2002	S_15	SP-020019	003	--	Corrections to Basic CM IRP CORBA Solution Set IDLs	4.1.0	4.2.0
Mar 2002	S_15	SP-020038	004	--	Addition of missing CORBA exception "ManagedGenericIRPSystem::ValueNotSupported" onto CORBA method "find_managed_objects"	4.1.0	4.2.0
Jun 2002	S_16	SP-020294	005	--	Correcting IDL definitions of notification structured event Name Value pair names	4.2.0	4.3.0
Jul 2002	--	--	--	--	Updated the Version number (420->431) and the Date on the cover page	4.3.0	4.3.1
Sep 2002	S_17	SP-020483	006	--	Add Active Basic CM feature - CORBA Solution Set	4.3.1	5.0.0
Mar 2003	S_19	SP-030139	007	--	Add CORBA equivalents to IS operations "get{Operation Notification}Profile" - alignment with 32.602 & 32.312	5.0.0	5.1.0
Mar 2003	S_19	SP-030139	008	--	Correction of IDL errors	5.0.0	5.1.0
Mar 2003	S_19	SP-030144	009	--	Add description for notifications of each activeCM operation and one exception for createMO - alignment with 32.602, Information Service	5.0.0	5.1.0
Jun 2003	S_20	SP-030279	010	--	Alignment with Basic CM IRP information service (32.602) - add one exception for the operation createMO	5.1.0	5.2.0

CHANGE REQUEST

⌘ **32.603 CR 012** ⌘ 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 Core Network

Title:	⌘ Removal of Rules for NRM extensions - Align with 32.622 (Generic NRM IS)		
Source:	⌘ SA5 [thomas.tovinger@ericsson.com]		
Work item code:	⌘ OAM-NIM	Date:	⌘ 02/07/2004
Category:	⌘ A	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R96	(Release 1996)
	B (addition of feature),	R97	(Release 1997)
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			Rel-5 (Release 5)
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Reason for change:	⌘ Keeping clause 7 is a mistake from early releases when Basic CM IRP contained also the NRMs, and it was not removed when the NRMs were moved to separate TSs. Clause 7 only applies to the NRM IRP CORBA SSs.
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Consequences if not approved:	⌘ Could lead to ambiguities and misinterpretations.

Clauses affected:	⌘ 7						
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	Y	N					
	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
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Other comments:	⌘ CRs to the other Rel-5/6 CORBA SSs 32.6x3 except 32.613 and 32.643 are submitted as a package to this SA plenary.						

Change in Clause 7

7 VoidRules for NRM extensions

~~This clause discusses how the models and IDL definitions provided in the present document can be extended for a particular implementation and still remain compliant with 3GPP SA5's specifications.~~

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~~7.2 Extensions not allowed~~

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**End of Change in Clause 7
End of Document**

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	S_13	SP-010476	001	--	Correction of invokeIdentifier usage	4.0.0	4.1.0
Mar 2002	S_15	SP-020019	002	--	Correction of erroneous CORBA module names and mapping tables	4.1.0	4.2.0
Mar 2002	S_15	SP-020019	003	--	Corrections to Basic CM IRP CORBA Solution Set IDLs	4.1.0	4.2.0
Mar 2002	S_15	SP-020038	004	--	Addition of missing CORBA exception "ManagedGenericIRPSystem::ValueNotSupported" onto CORBA method "find_managed_objects"	4.1.0	4.2.0
Jun 2002	S_16	SP-020294	005	--	Correcting IDL definitions of notification structured event Name Value pair names	4.2.0	4.3.0
Jul 2002	--	--	--	--	Updated the Version number (420->431) and the Date on the cover page	4.3.0	4.3.1
Sep 2002	S_17	SP-020483	006	--	Add Active Basic CM feature - CORBA Solution Set	4.3.1	5.0.0
Mar 2003	S_19	SP-030139	007	--	Add CORBA equivalents to IS operations "get{Operation Notification}Profile" - alignment with 32.602 & 32.312	5.0.0	5.1.0
Mar 2003	S_19	SP-030139	008	--	Correction of IDL errors	5.0.0	5.1.0
Mar 2003	S_19	SP-030144	009	--	Add description for notifications of each activeCM operation and one exception for createMO - alignment with 32.602, Information Service	5.0.0	5.1.0
Jun 2003	S_20	SP-030279	010	--	Alignment with Basic CM IRP information service (32.602) - add one exception for the operation createMO	5.1.0	5.2.0
Mar 2004	S_23	SP-040105	--	--	Automatic upgrade to Rel-6 (no CR)	5.2.0	6.0.0

CHANGE REQUEST

⌘ **32.623 CR 012** ⌘ rev - ⌘ Current version: **5.3.0** ⌘

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 Core Network

Title:	⌘ Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)		
Source:	⌘ SA5 [thomas.tovinger@ericsson.com]		
Work item code:	⌘ OAM-NIM	Date:	⌘ 02/07/2004
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	2 (GSM Phase 2)	
	A (corresponds to a correction in an earlier release)	R96 (Release 1996)	
	B (addition of feature),	R97 (Release 1997)	
	C (functional modification of feature)	R98 (Release 1998)	
	D (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)
			Rel-6 (Release 6)

Reason for change:	⌘ The sentence in clause 6 that starts with "Also, in Rel-4" is only an example in this CORBA SS talking about a restriction in another TS (32.622, the IS of Generic NRM IRP) - and in Rel5 and onwards this restriction no longer exists in 32.622. So the entire sentence is obsolete and should be removed in all Rel5 and Rel6 NRM IRP CORBA SSs.
Summary of change:	⌘ Remove obsolete sentence: "Also, in Rel-4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses)."
Consequences if not approved:	⌘ Could lead to ambiguities and misinterpretations.

Clauses affected:	⌘ 6										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications	⌘
Y	N										
	X										
	X										
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		Test specifications									
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Other comments:	⌘ CRs to the other Rel-5/6 CORBA SSs 32.6x3 except 32.613 and 32.643 are submitted as a package to this SA plenary.										

Change in Clause 6

6 Rules for NRM extensions

This clause discusses how the models and IDL definitions provided in the present document can be extended for a particular implementation and still remain compliant with 3GPP SA5's specifications.

6.1 Allowed extensions

Vendor-specific MOCs may be supported. The vendor-specific MOCs may support new types of attributes. The 3GPP SA5-specified notifications may be issued referring to the vendor-specific MOCs and vendor-specific attributes. New MOCs shall be distinguishable from 3GPP SA5 MOCs by name. 3GPP SA5-specified and vendor-specific attributes may be used in vendor-specific MOCs. Vendor-specific attribute names shall be distinguishable from existing attribute names.

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When subclassing, the 3GPP SA5-specified containment rules and their specified cardinality shall still be followed. As an example, ManagementNode (or its subclasses) shall be contained under SubNetwork (or its subclasses).

~~Also, in Rel 4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses).~~

Managed Object Instances may be instantiated as CORBA objects. This requires that the MOCs be represented in IDL. 3GPP SA5's NRM MOCs are not currently specified in IDL, but may be specified in IDL for instantiation or subclassing purposes. However, management information models should not require that IRPManagers access the instantiated managed objects other than through supported methods in the present document.

Extension rules related to notifications (Notification categories, Event Types, Extended Event Types etc.) are for further study.

6.2 Extensions not allowed

The IDL specifications in the present document cannot be edited or altered. Any additional IDL specifications shall be specified in separate IDL files.

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End of Change in Clause 6
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Annex C (informative): Change history

Change history							
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Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	S_13	SP-010479	001	--	Missing Mapping table added and attribute qualifier corrected	4.0.0	4.1.0
Dec 2001	S_14	SP-010646	002	--	Change type "integer" to "long" in the Generic Network Resources IRP: CORBA SS	4.1.0	4.2.0
Dec 2001	S_14	SP-010647	003	--	Correction of Generic NRM CORBA Solution Set IDL definitions	4.1.0	4.2.0
Sep 2002	S_17	SP-020488	004	--	Upgrade the NRM CORBA Solution Set to Rel-5	4.2.0	5.0.0
Mar 2003	S_19	SP-030141	006	--	Replace Microsoft Word ï with straight Double Quotes - to avoid CORBA IDL Compilation Errors	5.0.0	5.1.0
Mar 2004	S_23	SP-040128	008	--	Addition/correction of attributes for the managementScope association - Alignment with 32.622	5.1.0	5.2.0
Jun 2004	S_24	SP-040251	010	--	Correction of legal values for managedElementType attribute	5.2.0	5.3.0

CHANGE REQUEST

⌘ **32.623 CR 013** ⌘ rev - ⌘ Current version: **6.2.0** ⌘

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

Proposed change affects: | UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)		
Source:	⌘ SA5 [thomas.tovinger@ericsson.com]		
Work item code:	⌘ OAM-NIM	Date:	⌘ 02/07/2004
Category:	⌘ A	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)

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End of Change in Clause 6
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Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2004	S_24	SP-040251	011	--	Correction of legal values for managedElementType attribute	6.1.0	6.2.0

CHANGE REQUEST

⌘ **32.633 CR 004** ⌘ rev - ⌘ Current version: **5.1.0** ⌘

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 Core Network

Title:	⌘ Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)		
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	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	R96 (Release 1996)	2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R97 (Release 1997)	
	B (addition of feature),	R98 (Release 1998)	
	C (functional modification of feature)	R99 (Release 1999)	
	D (editorial modification)	Rel-4 (Release 4)	
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	⌘ The sentence in clause 6 that starts with "Also, in Rel-4" is only an example in this CORBA SS talking about a restriction in another TS (32.622, the IS of Generic NRM IRP) - and in Rel5 and onwards this restriction no longer exists in 32.622. So the entire sentence is obsolete and should be removed in all Rel5 and Rel6 NRM IRP CORBA SSs.
Summary of change:	⌘ Remove obsolete sentence: "Also, in Rel-4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses)."
Consequences if not approved:	⌘ Could lead to ambiguities and misinterpretations.

Clauses affected:	⌘ 6			
Other specs affected:	⌘	Y N	Other core specifications ⌘	
	⌘	X		Test specifications
	⌘	X		O&M Specifications
Other comments:	⌘ CRs to the other Rel-5/6 CORBA SSs 32.6x3 except 32.613 and 32.643 are submitted as a package to this SA plenary.			

Change in Clause 6

6 Rules for NRM extensions

This clause discusses how the models and IDL definitions provided in the present document can be extended for a particular implementation and still remain compliant with 3GPP SA5's specifications.

6.1 Allowed extensions

Vendor-specific MOCs may be supported. The vendor-specific MOCs may support new types of attributes. The 3GPP SA5-specified notifications may be issued referring to the vendor-specific MOCs and vendor-specific attributes. New MOCs shall be distinguishable from 3GPP SA5 MOCs by name. 3GPP SA5-specified and vendor-specific attributes may be used in vendor-specific MOCs. Vendor-specific attribute names shall be distinguishable from existing attribute names.

NRM MOCs may be subclassed. Subclassed MOCs shall maintain the specified behaviour of the 3GPP SA5's superior classes. They may add vendor-specific behaviour with vendor-specific attributes. When subclassing, naming attributes cannot be changed. The subclassed MOC shall support all attributes of its superior class. Vendor-specific attributes cannot be added to 3GPP SA5 NRM MOCs without subclassing.

When subclassing, the 3GPP SA5-specified containment rules and their specified cardinality shall still be followed. As an example, ManagementNode (or its subclasses) shall be contained under SubNetwork (or its subclasses).

~~Also, in Rel 4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses).~~

Managed Object Instances may be instantiated as CORBA objects. This requires that the MOCs be represented in IDL. 3GPP SA5's NRM MOCs are not currently specified in IDL, but may be specified in IDL for instantiation or subclassing purposes. However, management information models should not require that IRPManagers access the instantiated managed objects other than through supported methods in the present document.

Extension rules related to notifications (Notification categories, Event Types, Extended Event Types etc.) are for further study.

6.2 Extensions not allowed

The IDL specifications in the present document cannot be edited or altered. Any additional IDL specifications shall be specified in separate IDL files.

IDL interfaces (note: not MOCs) specified in the present document may not be subclassed or extended. New interfaces may be defined with vendor-specific methods.

End of Change in Clause 6
End of Document

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Dec 2002	S_18	SP-020747	003	--	Removal of faulty attribute uraList (alignment with Rel-5 32.632 Network Resource Model)	5.0.0	5.1.0

CHANGE REQUEST

⌘ **32.653 CR 008** ⌘ rev - ⌘ Current version: **5.2.0** ⌘

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

Proposed change affects: | UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)		
Source:	⌘ SA5 [thomas.tovinger@ericsson.com]		
Work item code:	⌘ OAM-NIM	Date:	⌘ 02/07/2004
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	R96 (Release 1996)	2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R97 (Release 1997)	
	B (addition of feature),	R98 (Release 1998)	
	C (functional modification of feature)	R99 (Release 1999)	
	D (editorial modification)	Rel-4 (Release 4)	
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Rel-5 (Release 5)	
		Rel-6 (Release 6)	

Reason for change:	⌘ The sentence in clause 6 that starts with "Also, in Rel-4" is only an example in this CORBA SS talking about a restriction in another TS (32.622, the IS of Generic NRM IRP) - and in Rel5 and onwards this restriction no longer exists in 32.622. So the entire sentence is obsolete and should be removed in all Rel5 and Rel6 NRM IRP CORBA SSs.
Summary of change:	⌘ Remove obsolete sentence: "Also, in Rel-4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses)."
Consequences if not approved:	⌘ Could lead to ambiguities and misinterpretations.

Clauses affected:	⌘ 6										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications	⌘
Y	N										
	X										
	X										
	X										
		Test specifications									
		O&M Specifications									
Other comments:	⌘ CRs to the other Rel-5/6 CORBA SSs 32.6x3 except 32.613 and 32.643 are submitted as a package to this SA plenary.										

Change in Clause 6

6 Rules for management information model extensions

This clause discusses how the models and IDL definitions provided in the present document can be extended for a particular implementation and still remain compliant with 3GPP SA5's specifications.

6.1 Allowed extensions

Vendor-specific IOCs may be supported. The vendor-specific IOCs may support new types of attributes. The 3GPP SA5-specified notifications may be issued referring to the vendor-specific IOCs and vendor-specific attributes. New MOCs shall be distinguishable from 3GPP SA5 IOCs by name. 3GPP SA5-specified and vendor-specific attributes may be used in vendor-specific IOCs. Vendor-specific attribute names shall be distinguishable from existing attribute names.

NRM IOCs may be subclassed. Subclassed IOCs shall maintain the specified behaviour of the 3GPP SA5's superior classes. They may add vendor-specific behaviour with vendor-specific attributes. When subclassing, naming attributes cannot be changed. The subclassed IOC shall support all attributes of its superior class. Vendor-specific attributes cannot be added to 3GPP SA5 NRM IOCs without subclassing.

When subclassing, the 3GPP SA5-specified containment rules and their specified cardinality shall still be followed. As an example, ManagementNode (or its subclasses) shall be contained under SubNetwork (or its subclasses). ~~Also, in Rel 4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses).~~

Managed Object Instances may be instantiated as CORBA objects. This requires that the MOCs be represented in IDL. 3GPP SA5's NRM IOCs are not currently specified in IDL, but may be specified in IDL for instantiation or subclassing purposes. However, management information models should not require that IRPManagers access the instantiated managed objects other than through supported methods in the present document.

Extension rules related to notifications (Notification categories, Event Types, Extended Event Types etc.) are for further study in 3GPP's Releases 5.

6.2 Extensions not allowed

The IDL specifications in the present document cannot be edited or altered. Any additional IDL specifications shall be specified in separate IDL files.

IDL interfaces (note: not IOCs) specified in the present document may not be subclassed or extended. New interfaces may be defined with vendor-specific methods.

End of Change in Clause 6
End of Document

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Sep 2003	S_21	SP-030418	006	--	Inclusion of External BSS Function in GERAN CORBA solution set - Alignment with 32.652	5.1.0	5.2.0

CHANGE REQUEST

⌘ **32.663 CR 005** ⌘ rev - ⌘ Current version: **5.2.0** ⌘

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

Proposed change affects: | UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)		
Source:	⌘ SA5 [thomas.tovinger@ericsson.com]		
Work item code:	⌘ OAM-NIM	Date:	⌘ 02/07/2004
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	2 (GSM Phase 2)	
	A (corresponds to a correction in an earlier release)	R96 (Release 1996)	
	B (addition of feature),	R97 (Release 1997)	
	C (functional modification of feature)	R98 (Release 1998)	
	D (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)
			Rel-6 (Release 6)

Reason for change:	⌘ The sentence in clause 8 that starts with "Also, in Rel-4" is only an example in this CORBA SS talking about a restriction in another TS (32.622, the IS of Generic NRM IRP) - and in Rel5 and onwards this restriction no longer exists in 32.622. So the entire sentence is obsolete and should be removed in all Rel5 and Rel6 NRM IRP CORBA SSs.
Summary of change:	⌘ Remove obsolete sentence: "Also, in Rel-4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses)."
Consequences if not approved:	⌘ Could lead to ambiguities and misinterpretations.

Clauses affected:	⌘ 8			
Other specs affected:	⌘	Y N	Other core specifications ⌘	
	⌘	X		Test specifications
	⌘	X		O&M Specifications
Other comments:	⌘ CRs to the other Rel-5/6 CORBA SSs 32.6x3 except 32.613 and 32.643 are submitted as a package to this SA plenary.			

Change in Clause 8

8 Rules for NRM extensions

This clause discusses how the models and IDL definitions provided in the present document can be extended for a particular implementation and still remain compliant with 3GPP SA5's specifications.

8.1 Allowed extensions

Vendor-specific MOCs may be supported. The vendor-specific MOCs may support new types of attributes. The 3GPP SA5-specified notifications may be issued referring to the vendor-specific MOCs and vendor-specific attributes. New MOCs shall be distinguishable from 3GPP SA5 MOCs by name. 3GPP SA5-specified and vendor-specific attributes may be used in vendor-specific MOCs. Vendor-specific attribute names shall be distinguishable from existing attribute names.

NRM MOCs may be subclassed. Subclassed MOCs shall maintain the specified behaviour of the 3GPP SA5's superior classes. They may add vendor-specific behaviour with vendor-specific attributes. When subclassing, naming attributes cannot be changed. The subclassed MOC shall support all attributes of its superior class. Vendor-specific attributes cannot be added to 3GPP SA5 NRM MOCs without subclassing.

When subclassing, the 3GPP SA5-specified containment rules and their specified cardinality shall still be followed. As an example, ManagementNode (or its subclasses) shall be contained under SubNetwork (or its subclasses). ~~Also, in Rel 4, there may only be 0 or 1 ManagementNode (or its subclasses) contained under SubNetwork (or its subclasses).~~

Managed Object Instances may be instantiated as CORBA objects. This requires that the MOCs be represented in IDL. 3GPP SA5's NRM MOCs are not currently specified in IDL, but may be specified in IDL for instantiation or subclassing purposes. However, management information models should not require that IRPManagers access the instantiated managed objects other than through supported methods in the present document.

Extension rules related to notifications (Notification categories, Event Types, Extended Event Types etc.) are for further study.

8.2 Extensions not allowed

The IDL specifications in the present document cannot be edited or altered. Any additional IDL specifications shall be specified in separate IDL files.

IDL interfaces (note: not MOCs) specified in the present document may not be subclassed or extended. New interfaces may be defined with vendor-specific methods.

End of Change in Clause 8 End of Document

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Sep 2002	S_17	SP-020466	--	--	Submitted to TSG SA #17 for Approval	1.0.0	5.0.0
Mar 2003	S_19	SP-030143	001	--	CORBA IDL Compiler Errors	5.0.0	5.1.0
Jun 2004	S_24	SP-040261	003	--	Add Missing CorrelatedNotificationSetType definition	5.1.0	5.2.0