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**Source:** SA5 (Telecom Management)  
**Title:** 3 Rel-4 CR 32.624 (Configuration Management; Generic network resources: IRP CMIP SS)  
**Document for:** Decision  
**Agenda Item:** 7.5.3

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Doc-1st-Level	Spec	CR	Phase	Subject	Category	Version - Current	Version - New	Doc-2nd-Level	Workitem
SP-020021	32.624	004	Rel-4	Removal of redundant GDMO/ASN.1 Code	F	4.2.0	4.3.0	S5-020061	OAM-CM
SP-020021	32.624	005	Rel-4	Making 'elementType' consistent	F	4.2.0	4.3.0	S5-020070	OAM-CM
SP-020021	32.624	006	Rel-4	Change the attribute "userLabel" from Read-Only to Read-Write	F	4.2.0	4.3.0	S5-020159	OAM-CM

## CHANGE REQUEST

⌘ **32.624 CR 004** ⌘ ev **-** ⌘ 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>	⌘ Removal of redundant GDMO/ASN.1 Code		
<b>Source:</b>	⌘ SA5		
<b>Work item code:</b>	⌘ OAM-CM	<b>Date:</b>	⌘ 18/01/2002
<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)	<b>2</b> (GSM Phase 2)	
	<b>A</b> (corresponds to a correction in an earlier release)	<b>R96</b> (Release 1996)	
	<b>B</b> (addition of feature),	<b>R97</b> (Release 1997)	
	<b>C</b> (functional modification of feature)	<b>R98</b> (Release 1998)	
	<b>D</b> (editorial modification)	<b>R99</b> (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	<b>REL-4</b> (Release 4)	
		<b>REL-5</b> (Release 5)	

<b>Reason for change:</b>	⌘ The action "getBcmIRPVersion" is redundantly defined in Both 32.604 and 32.624.
<b>Summary of change:</b>	⌘ The redundant definition of the action "getBcmIRPVersion" in 32.624 is removed and the corresponding definition is imported from 32.604.
<b>Consequences if not approved:</b>	⌘ Code conflicts between 32.604 and 32.624.

<b>Clauses affected:</b>	⌘ 5.2.14, 5.4 and 6		
<b>Other specs affected:</b>	⌘ <input type="checkbox"/> Other core specifications	⌘ <input type="checkbox"/>	
	<input type="checkbox"/> Test specifications	<input type="checkbox"/>	
	<input type="checkbox"/> O&M Specifications	<input type="checkbox"/>	
<b>Other comments:</b>	⌘		

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 5.2.14 bcmIRPVersionPackage

### **bcmIRPVersionPackage** PACKAGE

#### BEHAVIOUR

bcmIRPVersionPackageBehaviour;

#### ATTRIBUTES

supportedBcmIRPVersions GET;

#### ACTIONS

"3GPP TS 32.604 Release 4":getBCemIRPVersion;

REGISTERED AS {ts32-624Package 14};

### **bcmIRPVersionPackageBehaviour** BEHAVIOUR

#### DEFINED AS

"This package has been defined to allow the Manager to get information about the Basic CM IRP versions supported by the Agent.

The attribute 'supportedBCmIRPVersions' indicates all versions of the Basic IRP currently supported by the Agent. .

With the action 'getBasicCmIRPVersion' a manager can find out the versions of the Basic CM IRP CMIP solution sets the Agent supports.";

## 5.4 Actions

Void.

### 5.4.1 getBcmIRPVersion

Void.

~~getBcmIRPVersion ACTION~~

~~—BEHAVIOUR~~

~~—getBcmIRPVersionBehaviour;~~

~~—MODE CONFIRMED;~~

~~—WITH REPLY SYNTAX TS32-624TypeModule.GetBCmIRPVersionReply;~~

~~REGISTERED AS {ts32-624Action-1};~~

~~getBcmIRPVersionBehaviour BEHAVIOUR~~

~~—DEFINED AS~~

~~—"A Manager invokes this action to enquiry about the versions of the Basic CM IRP~~

~~—CMIP solution set which the concerned Agent supports.~~

~~—The 'Action information' field contains no data:~~

~~—The 'Action response' is composed of the following data:~~

~~—\* versionNumbersList It contains a list of versions supported by the concerned~~

~~—agent which are backwards compatible. A list containing no element, i.e. a NULL~~

~~—list means that the concerned agent doesn't support any version of the~~

~~—Notification IRP.~~

~~—\* status It contains the results of this action. Possible values: noError (0);~~

~~—error (the value indicates the reason of the error).";~~

## 6 ASN.1 Definitions

```
TS32-624TypeModule { ccitt (0) identified-organization (4) etsi (0)
    mobileDomain (0) umts-Operation-Maintenance (3) ts32-624 (624)
    informationModel (0) asn1Module (2) version1 (1) }
```

```
DEFINITIONS IMPLICIT TAGS ::=
```

```
BEGIN
```

```
--EXPORTS everything
```

```
IMPORTS
```

```
ObjectInstance FROM CMIP-1 { joint-iso-ccitt ms(9) cmip(1) modules(0) protocol(3) }
```

```
-- 3GPP TS 32.624 related Object Identifiers
```

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

```
ts32-624 OBJECT IDENTIFIER ::= { baseNodeUMTS ts32-624(624) }
```

```
ts32-624InfoModel OBJECT IDENTIFIER ::= { ts32-624 informationModel(0) }
```

```
ts32-624ObjectClass OBJECT IDENTIFIER ::= { ts32-624InfoModel managedObjectClass(3) }
```

```
ts32-624Package OBJECT IDENTIFIER ::= { ts32-624InfoModel package(4) }
```

```
ts32-624Parameter OBJECT IDENTIFIER ::= { ts32-624InfoModel parameter(5) }
```

```
ts32-624NameBinding OBJECT IDENTIFIER ::= { ts32-624InfoModel nameBinding(6) }
```

```
ts32-624Attribute OBJECT IDENTIFIER ::= { ts32-624InfoModel attribute(7) }
```

```
ts32-624Action OBJECT IDENTIFIER ::= { ts32-624InfoModel action(9) }
```

```
ts32-624Notification OBJECT IDENTIFIER ::= { ts32-624InfoModel notification(10) }
```

```
-- Start of 3GPP SA5 own definitions
```

```
ErrorCauses ::= ENUMERATED
```

```
{
```

```
noError (0),
```

```
wrongInput (1),
```

```
unspecifiedErrorReason (255)
```

```
}
```

```
ManagedElementType ::= SET OF ENUMERATED
```

```
{
```

```
rnc (1),
```

```
nodeB (2),
```

msc (3),  
hLR (4),  
vLR (5),  
aUC (6),  
eIR (7),  
sms-IWMSC (8),  
sms-GMSC (9),  
sGSN (10),  
gGSN (11),  
bG (12),  
gmsc (13),  
smlc (14),  
gmlc (15),  
scf(16),  
srf (17),  
cbc (18),  
cgf(19),  
mgw (20),  
gmscServer (21),  
iwf (22),  
mnpSrf (23),  
npdb (24),  
rSgw (25),  
ssf(26),  
bs (27),  
msc-Server (28)  
}  
GeneralObjectId ::= INTEGER  
UserDefinedState ::= INTEGER  
GeneralObjectPointer ::= ObjectInstance  
GeneralObjectPointerList ::= SEQUENCE OF ObjectInstance  
IRPNames ::= SET OF ENUMERATED  
{  
notificationIRP (1),  
alarmIRP (2),  
basicCmIRP (3),  
bulkCmIRP (4),  
genericNRM (5),  
cnNRM (6),  
utranNRM (7),  
geranNRM (8)  
}  
SupportedIRPs ::= SET OF IRPNames  
VsDataType ::= GraphicString  
VsData ::= GraphicString

```
VsDataFormatVersion ::= GraphicString
IrpVersion ::= GraphicString
SupportedBcmIRPVersions ::= SET OF IrpVersion
UserDefinedNetworkType ::= GraphicString
SwVersion ::= GraphicString
GetBcmIRPVersionReply ::= SEQUENCE
{
  versionNumbersList — SupportedBcmIRPVersions,
  status — ErrorCauses
}
```

END -- of TS32-624TypeModule

## CHANGE REQUEST

⌘ **32.624** CR **005** ⌘ 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>	⌘ Making 'elementType' consistent		
<b>Source:</b>	⌘ SA5		
<b>Work item code:</b>	⌘ OAM-CM	<b>Date:</b>	⌘ 18/01/2002
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-4
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="http://www.3gpp.org/Specs/tr21/900">TR 21.900</a> .		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)

<b>Reason for change:</b>	⌘ The attribute 'elementType' is defined in the Corba SS (32.623) as "String" but in CMIP SS (32.624) as "Enum".  "String" is the more suitable choice to enable to use this attribute to cover vendor specific element types.
<b>Summary of change:</b>	⌘ Changing the data type of 'elementType' from "Enum" to "String".
<b>Consequences if not approved:</b>	⌘ This attribute is not consistent between Corba SS and CMIP SS. It is impossible to use this attribute to cover vendor specific element types.

<b>Clauses affected:</b>	⌘ 6
<b>Other specs affected:</b>	⌘ <input type="checkbox"/> Other core specifications      ⌘ <input type="checkbox"/> <input type="checkbox"/> Test specifications <input type="checkbox"/> <input type="checkbox"/> O&M Specifications <input type="checkbox"/>
<b>Other comments:</b>	⌘

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.



---

## 6 ASN.1 Definitions

```
TS32-624TypeModule { ccitt (0) identified-organization (4) etsi (0)
    mobileDomain (0) umts-Operation-Maintenance (3) ts32-624 (624)
    informationModel (0) asn1Module (2) version1 (1) }
```

```
DEFINITIONS IMPLICIT TAGS ::=
```

```
BEGIN
```

```
--EXPORTS everything
```

```
IMPORTS
```

```
ObjectInstance FROM CMIP-1 { joint-iso-ccitt ms(9) cmip(1) modules(0) protocol(3) }
```

```
-- 3GPP TS 32.624 related Object Identifiers
```

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

```
ts32-624 OBJECT IDENTIFIER ::= { baseNodeUMTS ts32-624(624) }
```

```
ts32-624InfoModel OBJECT IDENTIFIER ::= { ts32-624 informationModel(0) }
```

```
ts32-624ObjectClass OBJECT IDENTIFIER ::= { ts32-624InfoModel managedObjectClass(3) }
```

```
ts32-624Package OBJECT IDENTIFIER ::= { ts32-624InfoModel package(4) }
```

```
ts32-624Parameter OBJECT IDENTIFIER ::= { ts32-624InfoModel parameter(5) }
```

```
ts32-624NameBinding OBJECT IDENTIFIER ::= { ts32-624InfoModel nameBinding(6) }
```

```
ts32-624Attribute OBJECT IDENTIFIER ::= { ts32-624InfoModel attribute(7) }
```

```
ts32-624Action OBJECT IDENTIFIER ::= { ts32-624InfoModel action(9) }
```

```
ts32-624Notification OBJECT IDENTIFIER ::= { ts32-624InfoModel notification(10) }
```

```
-- Start of 3GPP SA5 own definitions
```

```
ErrorCauses ::= ENUMERATED
```

```
{
```

```
noError (0),
```

```
wrongInput (1),
```

```
unspecifiedErrorReason (255)
```

```
}
```

```
ManagedElementType ::= GraphicString SET OF ENUMERATED
```

```
{
```

```
me (1),
```

```
nodeB (2),
```

~~msc (3);~~  
~~hLR (4);~~  
~~vLR (5);~~  
~~aUC (6);~~  
~~eIR (7);~~  
~~sms-IW MSC (8);~~  
~~sms-GMSC (9);~~  
~~sGSN (10);~~  
~~gGSN (11);~~  
~~bG (12);~~  
~~gmse (13);~~  
~~smle (14);~~  
~~gmle (15);~~  
~~sef (16);~~  
~~srf (17);~~  
~~ebe (18);~~  
~~egf (19);~~  
~~mgw (20);~~  
~~gmseServer (21);~~  
~~iwf (22);~~  
~~mnpSrf (23);~~  
~~npdb (24);~~  
~~rSgw (25);~~  
~~ssf (26);~~  
~~bs (27);~~  
~~mse-Server (28)~~  
~~‡~~

GeneralObjectId ::= INTEGER

UserDefinedState ::= INTEGER

GeneralObjectPointer ::= ObjectInstance

GeneralObjectPointerList ::= SEQUENCE OF ObjectInstance

IRPNames ::= SET OF ENUMERATED

{  
 notificationIRP (1),  
 alarmIRP (2),  
 basicCmIRP (3),  
 bulkCmIRP (4),  
 genericNRM (5),  
 cnNRM (6),  
 utranNRM (7),  
 geranNRM (8)  
 }

SupportedIRPs ::= SET OF IRPNames

VsDataType ::= GraphicString

VsData ::= GraphicString

Error! No text of specified style in document.

4

Error! No text of specified style in document.

```
VsDataFormatVersion ::= GraphicString
IrpVersion ::= GraphicString
SupportedBCmIRPVersions ::= SET OF IrpVersion
UserDefinedNetworkType ::= GraphicString
SwVersion ::= GraphicString
GetBCmIRPVersionReply ::= SEQUENCE
{
  versionNumbersList      SupportedBCmIRPVersions,
  status                  ErrorCauses
}
```

END -- of TS32-624TypeModule

## CHANGE REQUEST

⌘ **32.624 CR 006** ⌘ 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>	⌘ Change the attribute "userLabel" from Read-Only to Read-Write		
<b>Source:</b>	⌘ SA5		
<b>Work item code:</b>	⌘ OAM-CM	<b>Date:</b>	⌘ 01/03/2002
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-4
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		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)

<b>Reason for change:</b>	⌘ The attribute "userLabel" is defined in TS 32.622 (IS) as read-write for all Object Classes. The corresponding attribute of the MOCs "irpAgent" and "managedFunctions" is defined in TS 32.624 (CMIP SS) wrongly as read-only.
<b>Summary of change:</b>	⌘ Changing the attribute "userLabel" of the MOCs "irpAgent" and "managedFunctions" from read-only to read-write.
<b>Consequences if not approved:</b>	⌘ The CMIP SS would be not compliant to the IS.

<b>Clauses affected:</b>	⌘ 5.2.10 and 5.2.11		
<b>Other specs affected:</b>	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
<b>Other comments:</b>	⌘		

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

.....

## 5.2.10 irpAgentBasicPackage

### **irpAgentBasicPackage** PACKAGE

#### BEHAVIOUR

irpAgentBasicPackageBehaviour;

#### ATTRIBUTES

irpAgentId GET,

"Recommendation M.3100: 1995" : userLabel GET-REPLACE,

supportedIRPs GET;

REGISTERED AS {ts32-624Package 10};

### **irpAgentBasicPackageBehaviour** BEHAVIOUR

#### DEFINED AS

"irpAgent may have only one instance in R99 and R4. The instance of this MOC represents the behavior of an IRP Agent which implements one or more IRPs";

## 5.2.11 managedFunctionBasicPackage

### **managedFunctionBasicPackage** PACKAGE

#### BEHAVIOUR

managementFunctionBasicPackageBehaviour;

#### ATTRIBUTES

"Recommendation M.3100: 1995" : userLabel GET-REPLACE;

REGISTERED AS {ts32-624Package 11};

### **managedFunctionBasicPackageBehaviour** BEHAVIOUR

#### DEFINED AS

"This Managed Object class corresponds to the class gsmManagedFunction defined in GSM 12.20 0 and is provided for sub-classing only. It provides the attributes that are common to functional MO classes. Note that a managed element may contain several managed functions. The ManagedFunction may be extended in the future if more common characteristics to functional objects are identified.";

.....