3GPP TSG CN Plenary Meeting #25   **NP-040418**
8th – 10th August 2004 Palm Springs, US.

Source: TSG CN WG4

Title: Corrections on TEI5 Mc-Interface

Agenda item: 8.8

Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level N4-04	Phase	Subject	Cat	Ver_C
29.232	064		1054	Rel-5	Provisioning Of Base Root package properties	F	5.7.0
29.232	065		1055	Rel-5	Service Change Address	F	5.7.0
29.232	066		1056	Rel-5	Use Of Event Buffers	F	5.7.0
29.232	067		1057	Rel-5	Digit Maps	F	5.7.0
29.232	068		1058	Rel-5	IP secured transport	F	5.7.0
29.232	069		1059	Rel-5	Use Of Audit Value	F	5.7.0
29.232	074		1064	Rel-5	Termination Restoration	F	5.7.0
29.232	072	1	1159	Rel-5	Use Of Statistics	F	5.7.0

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CHANGE REQUEST

⌘ **29.232 CR 064** ⌘**rev** **-** ⌘ Current version: **5.7.0** ⌘

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 **X**

Title: ⌘	Provisioning Of Base Root package properties	
Source: ⌘	CN4	
Work item code:⌘	TEI5	**Date:** ⌘ 16/08/2004
Category: ⌘	**F**	**Release:** ⌘ Rel-5

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: ⌘	-	Currently no procedure exists to update base root package properties. The base root package (`root`, 0x0002) contains several properties which condition the behaviour of the MGW, regarding limits (*e.g.* maximum number of terminations per context) or timers (*e.g.* maximum time for executing a command).
	-	**ESSENTIAL CORRECTION**
Summary of change:⌘	-	Specify that the base root package properties shall be provisioned.
Consequences if not approved: ⌘	-	Inter-vendor operation may fail.

Clauses affected: ⌘	12	

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

Other comments: ⌘	

How to create CRs using this form:
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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.

12 General on ~~P~~packages and Transactions

~~Void~~The base root package (0x0002) properties shall be provisioned in the MGW.

CR-Form-v7

CHANGE REQUEST

⌘ **29.232** CR **065** ⌘**rev** **-** ⌘ Current version: **5.7.0** ⌘

*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 **X**

Title: ⌘	Service Change Address	
Source: ⌘	CN4	
Work item code: ⌘	TEI5	***Date:*** ⌘ 16/08/2004
Category: ⌘	**F**	***Release:*** ⌘ Rel-5

Use <u>one</u> of the following categories:
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R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘	-	In H.248 version 2 the Service Change Address is proposed to not be used in future implementations. In order to ensure inter-vendor implementations will work it is proposed to exclude the use of the service change address in the Mc interface.
	-	**ESSENTIAL CORRECTION**
Summary of change: ⌘	-	Service Change Address shall not be used
Consequences if not approved: ⌘	-	Inter-vendor operation may fail.

Clauses affected: ⌘	14.1.5	

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

Other comments: ⌘	

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14.1.5 MGW Re-register

This procedure is the same as that described in the subclause "BIWF Re-Registration" in ITU-T Recommendation Q.1950 [23] (see 3GPP TS 29.205 [7]) with the following clarification.

Service Change Address shall not be used.

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CHANGE REQUEST

⌘	**29.232** CR **066**	⌘**rev**	**-**	⌘	Current version:	**5.7.0**	⌘

*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 **X**

Title: ⌘	Use Of Event Buffers	
Source: ⌘	CN4	
Work item code: ⌘	TEI5	***Date:*** ⌘ 16/08/2004
Category: ⌘	**F**	***Release:*** ⌘ Rel-5

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R99   (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘	-	No use of event buffering is required by 3GPP stage 2 procedures and thus to ensure inter-vendor operation their use should be precluded from the Mc interface.
	-	ESSENTIAL CORRECTION
Summary of change: ⌘	-	Use of event buffering is not supported.
Consequences if not approved: ⌘	-	Inter-vendor operation may fail.

Clauses affected: ⌘	12	

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

Other comments: ⌘	

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12 General on ~~P~~packages and Transactions

~~Void~~Event Buffering shall not be supported.

CR-Form-v7

CHANGE REQUEST

| ⌘ | **29.232** CR **067** | ⌘**rev** | **-** | ⌘ | Current version: | **5.7.0** | ⌘ |

*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 **X**

Title: ⌘	Digit Maps	
Source: ⌘	CN4	
Work item code: ⌘	TEI5	***Date:*** ⌘ 16/08/2004
Category: ⌘	**F**	***Release:*** ⌘ Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
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Use one of the following releases:
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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: ⌘	-	Although H.248 defines the option of requesting digits to be reported as a complete string based on local digit analysis in the MGW this is not applicable to mobile networks where the digit analysis is done in the MSC.
	-	ESSENTIAL CORRECTION
Summary of change: ⌘	-	Use of digit maps excluded.
Consequences if not approved: ⌘	-	Inter-vendor operation may fail.

Clauses affected: ⌘	12	

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

Other comments: ⌘	

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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.

12   General on Ppackages and Transactions

~~Void~~DigitMaps shall not be supported.

CR-Form-v7

CHANGE REQUEST

| ⌘ | **29.232** CR **068** | ⌘**rev** | **-** | ⌘ | Current version: | **5.7.0** | ⌘ |

*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 **X**

Title: ⌘	IP secured transport	
Source: ⌘	CN4	
Work item code: ⌘	TEI5	***Date:*** ⌘ 16/08/2004
Category: ⌘	**F**	***Release:*** ⌘ Rel-5

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:
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R97   (Release 1997)
R98   (Release 1998)
R99   (Release 1999)
Rel-4   (Release 4)
Rel-5   (Release 5)
Rel-6   (Release 6)

Reason for change: ⌘	-	As the defined IP transport for Mc interface uses SCTP which includes security mechanisms the use of IPsec as defined in H.248 is not required.
	-	ESSENTIAL CORRECTION
Summary of change: ⌘	-	Exclude the use of IPsec in Mc transport.
Consequences if not approved: ⌘	-	Inter-vendor implementations may fail

Clauses affected: ⌘	8	

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

Other comments: ⌘	

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8   Transport

Each implementation of the Mc interface should provide the appropriate protocol options: MTP3B as defined in ITU-T Recommendation Q.2210 [11] (for ATM signalling transport) or SCTP as defined in RFC 2960 [12] (for IP signalling transport) and in the case where the signalling relation consists of both ATM signalling transport and IP signalling transport the M3UA protocol layer (3GPP TS 29.202 [13]) shall be added to SCTP to provide interworking. M3UA layer may also be added to SCTP for pure IP signalling transport. As SCTP provides security mechanisms the use of IPsec shall not be used for the Mc interface. In summary:

1) For pure IP connections, H.248/SCTP/IP should be used. .In addition, to allow for flexible implementations of gateways and controllers in order to offer efficient use of SCTP associations the M3UA layer may also be added on top of SCTP.

2) For pure ATM connections, H.248/MTP3b/SSCF/SSCOP/AAL5/ATM should be used.

3) For mixed IP&ATM connections, H.248/M3UA/SCTP/IP shall be used as the IP transport.

CR-Form-v7

CHANGE REQUEST

| ⌘ | **29.232** CR **069** | ⌘**rev** | **-** | ⌘ | Current version: | **5.7.0** | ⌘ |

*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 **X**

Title: ⌘	Use Of Audit Value	
Source: ⌘	CN4	
Work item code: ⌘	TEI5	**Date:** ⌘ 16/08/2004
Category: ⌘	**F**	**Release:** ⌘ Rel-5

Use one of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
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R97   (Release 1997)
R98   (Release 1998)
R99   (Release 1999)
Rel-4   (Release 4)
Rel-5   (Release 5)
Rel-6   (Release 6)

Reason for change: ⌘ -	The use of the H.248 standard Audit Value function is not defined for the Mc interface. In order to improve interworking and avoid implementations that generate excessive signalling due to auditing after restart/service change etc and to minimise the delay to call establishment the use of the Audit Value function should be restricted. In H.248 version 2 Auditing of individual properties is defined. Therefore in the Mc interface general auditing of Desriptors shall be forbidden and only auditing of specific properties shall be allowed.
-	ESSENTIAL CORRECTION
Summary of change: ⌘ -	Use of Audit Value function shall be restricted to individual properties only.
Consequences if not approved: ⌘ -	Inter-vendor implementations may cause large variations in network characteristics and poor network performance.

Clauses affected: ⌘	14.1

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

Other comments: ⌘	

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14.1   Call independent H.248 transactions

Table 2 shows the relationship between each non call-related procedure in ITU-T Recommendation Q.1950 [23] (see 3GPP TS 29.205 [7]) and the corresponding stage 2 procedure defined in 3GPP TS 23.205 [2].

For further description of error codes and service change reasons, refer to ITU-T Recommendation H.248.8 [14].

Table 2: Correspondence between ITU-T Recommendation Q.1950 [23]
non call-related transactions and 3GPP TS 23.205 [2] procedures

Transaction used in ITU-T Recommendation Q.1950 [23]	Procedure defined in 3GPP TS 23.205 [2]	Comments
BIWF_Service_Cancellation_Indication	MGW Out of Service	
BIWF_Lost_Communication	MGW Communication Up	
BIWF_Service_Restoration_Indication	MGW Restoration	
BIWF_Registration	MGW Register	
BIWF_Re-Registration	MGW Re-register	
CCU Ordered BIWF Re-Registration	(G)MSC Server Ordered Re-register	
CCU Initiated Service Restoration	(G)MSC Server Restoration	
CCU Initiated Service Cancellation	(G)MSC Server Out of Service	
BIWF_Service_Cancellation_Indication	Termination Out-of-Service	Is a part of BIWF Service cancellation in Q.1950
BIWF_Service_Restoration_Indication	Termination Restoration	Is a part of BIWF Service cancellation in Q.1950
Audit_Values	Audit Value	Only permitted for indivual properties. List of defined properties FFS.
Audit_Capabilities	Audit Capability	
BIWF_Capability_Change	Capability Update	
	MGW Resource Congestion Handling - Activate	
	MGW Resource Congestion Handling - Indication	

CR-Form-v7

CHANGE REQUEST

| ⌘ | **29.232** CR **074** | ⌘**rev** | **-** | ⌘ | Current version: | **5.7.0** | ⌘ |

*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 **X**

Title: ⌘	Termination Restoration	
Source: ⌘	CN4	
Work item code: ⌘	TEI5	***Date:*** ⌘ 16/08/2004

Category: ⌘	**F**	***Release:*** ⌘	Rel-5

Use one of the following categories:
 F *(correction)*
 A *(corresponds to a correction in an earlier release)*
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 Rel-5 *(Release 5)*
 Rel-6 *(Release 6)*

Reason for change: ⌘	- Currently Service Change Delay is not used in 3GPP procedures except that the exclusion for Termination Restoration was ommitted. - ESSENTIAL CORRECTION
Summary of change: ⌘	- Exclude Delay from Service Change procedure for Termination Restoration
Consequences if not approved: ⌘	- Faulty specification. Inter-vendor operation may fail.

Clauses affected: ⌘	14.1.9

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

Other comments: ⌘	

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14.1.9   Termination Restoration

This procedure is the same as described in the subclause "BIWF Service Restoration Indication" in ITU-T Recommendation Q.1950 [23] (see 3GPP TS 29.205 [7]) with the following clarification.

Address Information	Control information	Bearer information
	Transaction ID = z Context ID = Contexts / Null / All Termination ID = Termination(s) Service Change Reason = Service Restored Service Change Method = Restart	

Delay shall not be used.

CR-Form-v7

CHANGE REQUEST

⌘ **29.232** CR **072** ⌘ rev **1** ⌘ Current version: **5.7.0** ⌘

*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 **X**

Title: ⌘	Use Of Statistics		
Source: ⌘	CN4		
Work item code:⌘	TEI5	***Date:*** ⌘	16/08/2004
Category: ⌘	**F**	***Release:*** ⌘	Rel-5

Use *one* of the following categories:
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Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘	- Currently no statistics are defined for ITU-T CBC and only for the CTM package in Mc interface packages. Although some statistics exist within the core H.248 packages their use in 3GPP is not defined and no reason to define such use exists. As the CTM package is optional and the request for statistics also optional within the package, the use of statistics in the Mc interface for standard H.248 procedures shall be prohibited in 29.232 protocol implementations to ensure inter-vendor operation. - ESSENTIAL CORRECTION
Summary of change:⌘	- Use of Statistics in Mc interface shall be prohibited.
Consequences if not approved: ⌘	- Inter-vendor operation may fail.

Clauses affected: ⌘	12

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

Other comments: ⌘	

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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.

12   General on Ppackages and Transactions

~~Void~~ H.248 Statistics shall not be audited via the Mc interface and shall be suppressed in the replies to Subtract commands, except where specific 3GPP packages define their use.