# 3GPP TSG CN Plenary Meeting #11, Palm Springs, U.S.A 14<sup>th</sup> - 16<sup>th</sup> March 2001

Source: TSG CN WG1

Title: CRs to Phase 2 on Work Item TEI

Agenda item: 7.6

**Document for:** APPROVAL

#### **Introduction**:

This document contains 6 CRs on Phase 2 Work Item "TEI", that have been agreed by TSG CN WG1, and are forwarded to TSG CN Plenary meeting #11 for approval.

Spec	CR	Re	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
04.08	A1065		N1-010103	Ph 2	Lengh of User-user IEt	F	4.23.1
04.08	A1067		N1-010104	R96	Lengh of User-user IEt	Α	5.18.1
04.08	A1069		N1-010105	R97	Lengh of User-user IEt	Α	6.13.0
04.08	A1071		N1-010106	R98	Lengh of User-user IEt	Α	7.10.0
24.008	332		N1-010056	R99	Lengh of User-user IEt	Α	3.6.0
24.008	333		N1-010057	Rel-4	Lengh of User-user IEt	Α	4.1.1

CHANGE REQUEST										
*	24.0	800	CR 332	ć	⊭ rev	-	ж	Current ver	sion: <b>3.6.</b> 0	<b>0</b> #
For <b>HELP</b> on us	sing th	is form	, see bottor	m of this	page or	look	at the	e pop-up tex	t over the 🖁 🤅	symbols.
Proposed change affects:    (U)SIM ME/UE X Radio Access Network Core Network X										
Title: ₩	Leng	gth of U	ser-user IE							
Source: #	Sien	nens A	3							
Work item code: ₩	TEI							Date: 3	08.01.200	1
Category: #	F							Release:	R99	
	Use one of the following categories:  F (essential 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)									
Reason for change	e: #		ge, the IEI i						the User infor e range of 2-1	
Summary of chang	je:									
Consequences if not approved:	¥		wrong imp					quence pote	ential wrong e	rror
Clauses affected:	ж	9.3.31								
Other specs affected:	*	Test	er core spe t specificati M Specifica	ons	s }	g				
Other comments:	*									

This message is sent by the mobile station to the network to transfer information to the remote user. This message is also sent by the network to the mobile station to deliver information transferred from the remote user. This message is used if the user-to-user transfer is part of an allowed information transfer as defined in 3GPP TS 24.010.

See table 9.78/3GPP TS 24.008.

Message type: USER INFORMATION

Significance: access

Direction: both

#### Table 9.78/3GPP TS 24.008: USER INFORMATION message content

IEI	Information element	Type / Reference	Presence	Format	Length
	Call control protocol discriminator	Protocol discriminator 10.2	M	V	1/2
	Transaction identifier	Transaction identifier 10.3.2	M	V	1/2
	User Information message type	Message type 10.4	M	V	1
	User-user	User-user 10.5.4.25	M	LV	<del>3</del> 2-13 <u>0</u> 4
A0	More data	More data 10.5.4.19	0	T	1

#### 9.3.31.1 User-user

Some networks may only support a maximum length of 35 octets. Procedures for interworking are not currently defined and are for further study.

#### 9.3.31.2 More data

#### 10.5.4.25 User-user

The purpose of the user-user information element is to convey information between the mobile station and the remote ISDN user.

The user-user information element is coded as shown in figure 10.5.114/3GPP TS 24.008 and table 10.5.131/3GPP TS 24.008. There are no restrictions on the content of the user-user information field.

The user-user is a type 4 information element with a minimum length of 3 octets and a maximum length of either 35 or 131 octets. In the SETUP message the user-user information element has a maximum size of 35 octets in a GSM PLMN. In the USER INFORMATION, ALERTING, CONNECT, DISCONNECT, PROGRESS, RELEASE and RELEASE COMPLETE messages the user-user information element has a maximum size of 131 octets in a GSM PLMN.

In other networks than GSM PLMNs the maximum size of the user-user information element is 35 or 131 octets in the messages mentioned above. The evolution to a single maximum value is the long term objective; the exact maximum value is the subject of further study.

NOTE: The user-user information element is transported transparently through a GSM PLMN.

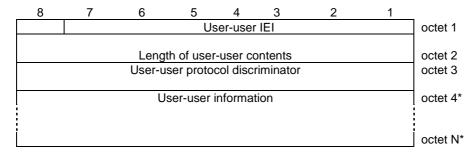


Figure 10.5.114/3GPP TS 24.008 User-user information element

Table 10.5.131/3GPP TS 24.008: User-user information element

	User-user protocol discriminator (octet 3) Bits									
8 Bi	ts <b>7</b>	6	5	4	3	2	1			
0	0	-	0		0	_	0	User specific protocol (Note 1)		
ő	-	Ö	_	-	-		-	OSI high layer protocols		
0	0		0					X.244 (Note 2)		
0	0		0		0			Reserved for system management convergence		
								function		
0	0		0				0	IA5 characters (Note 3)		
0	0	0	0	0	1	1	1	Rec.V.120 rate adaption		
0	0	0	0	1	0	0	0	Q.931 (I.451) user-network call control		
								messages		
0	0	0	1	0	0	0	0	Reserved for other network layer or		
thi	roug	gh						layer 3 protocols including Rec.X.25		
0		1	1	1	1	1	1	(Note 4)		
0	1	0	0	0	0	0	0			
	roug		^				4	National use		
1	1	0	0	1	1	1	1			
0	1	0	1	0	0	0	0	Reserved for other network		
thi	roug	gh						layer or layer 3 protocols		
1	1	1	1	1	1	1	0	including Rec.X.25 (Note 4)		
ΔΙ	l oth	ωr \	بيادر	AC :	are	raca	erved.			
	. Ou	1G1 \	aiu	00 6	A1 C	. 536	Ji vGu.			
No	ote 1	1:	Th	e u	ser	info	rmation	is structured according to user needs.		
No	ote 2	2:						is structured according to Rec.X.244 which specifies		
			the	e sti	ruct	ure	of X.25	call user data.		
	ote 3							consists of IA5 characters.		
No	ote 4	4:						erved to discriminate these protocol discriminators		
	from the first octet of a X.25 packet including general format identifier.									

	CHANGE REQUEST									
*	24.00	8 CR 333	ж	rev	# Current ver	sion: <b>4.1.1</b> **				
For <u><b>HELP</b></u> on us	sing this	form, see botto	m of this pag	ge or look a	at the pop-up tex	t over the 光 symbols.				
Proposed change a	Proposed change affects:									
Title:	Length	of User-user IE								
Source: #	Siemer	s AG								
Work item code: ₩	TEI				Date: 3	08.01.2001				
Category: #	Α				Release: ३	R4				
	Use one of the following categories:  F (essential 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 1999)  R99 (Release 1999)  REL-4 (Release 4)  REL-5 (Release 5)									
Reason for change	me					the User information e range of 2-130 instead				
Summary of chang	ıe:₩									
Consequences if not approved:		sk of wrong imp ndling behaviou				ential wrong error				
Clauses affected:	₩ 9.3	3.31								
Other specs affected:		Other core spe Test specificati O&M Specifica	ons	*						
Other comments:	#									

This message is sent by the mobile station to the network to transfer information to the remote user. This message is also sent by the network to the mobile station to deliver information transferred from the remote user. This message is used if the user-to-user transfer is part of an allowed information transfer as defined in TS 24.010.

See table 9.78/TS 24.008.

Message type: USER INFORMATION

Significance: access

Direction: both

Table 9.78/TS 24.008: USER INFORMATION message content

IEI	Information element	Type / Reference	Presence	Format	Length
	Call control protocol discriminator	Protocol discriminator 10.2	M	V	1/2
	Transaction identifier	Transaction identifier 10.3.2	M	V	1/2
	User Information message type	Message type 10.4	M	V	1
	User-user	User-user 10.5.4.25	M	LV	<del>3</del> <u>2</u> -13 <u>0</u> 4
A0	More data	More data 10.5.4.19	0	T	1

#### 9.3.31.1 User-user

Some networks may only support a maximum length of 35 octets. Procedures for interworking are not currently defined and are for further study.

#### 9.3.31.2 More data

	CHANGE REQUEST									
*	<b>04.08 CR</b> A1065 # rev - # Cur	rent version: 4.23.1								
For <u><b>HELP</b></u> on us	ring this form, see bottom of this page or look at the pop	o-up text over the # symbols.								
Proposed change a	Proposed change affects:     (U)SIM ME/UE X Radio Access Network Core Network X									
Title: 第	Length of User-user IE									
Source: #	Siemens AG									
Work item code: ₩	TEI	Date:     8 08.01.2001								
Category: #	F	lease:								
	Use one of the following categories:  F (essential 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.	se <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)								
Reason for change	As the user-user IE is defined as a mandatory IE message, the IEI is omitted and the length must be of 3-131.									
Summary of chang	e: #									
Consequences if not approved:	Risk of wrong implementations and in consequer handling behaviour on the network side.	nce potential wrong error								
Clauses affected:	<b>%</b> 9.3.31									
Other specs affected:	# Other core specifications # Test specifications O&M Specifications									
Other comments:	ж 									

This message is sent by the mobile station to the network to transfer information to the remote user. This message is also sent by the network to the mobile station to deliver information transferred from the remote user. This message is used if the user-to-user transfer is part of an allowed information transfer as defined in GSM 04.10.

See table 9.78/GSM 04.08.

Message type: USER INFORMATION

Significance:access Direction:both

IEI	Information element	Type / Reference	Presence	Format	length	
	Call control	Protocol discriminator	M	V	1/2	
	protocol discriminator	10.2				
	Transaction identifier	Transaction identifier 10.3.2	M	V	1/2	
	User Information message type	Message type 10.4	M	V	1	
	User-user	User-user 10.5.4.25	M	LV	<u>2</u> 3-130	
A0	More data	More data 10.5.4.19	0	Т	1	

# Table 9.78/GSM 04.08 USER INFORMATION message content

#### 9.3.31.1 User-user

Some networks may only support a maximum length of 35 octets. Procedures for interworking are not currently defined and are for further study.

#### 9.3.31.2 More data

#### 10.5.4.25 User-user

The purpose of the user-user information element is to convey information between the mobile station and the remote ISDN user.

The user-user information element is coded as shown in figure 10.92/GSM 04.08 and table 10.93/GSM 04.08. There are no restrictions on the content of the user-user information field.

The user-user is a type 4 information element with a minimum length of 3 octets and a maximum length of either 35 or 131 octets. In the SETUP, ALERTING, CONNECT, DISCONNECT, RELEASE and RELEASE COMPLETE messages, the user-user information element has a maximum size of 35 octets in a GSM PLMN. In USER INFORMATION messages the user-user information element has a maximum size of 131 octets in a GSM PLMN.

In other networks than GSM PLMNs the maximum size of the user-user information element is 35 or 131 octets in the messages mentioned above. The evolution to a single maximum value is the long term objective; the exact maximum value is the subject of further study.

NOTE: The user-user information element is transported transparently through a GSM PLMN.

8	7	6	5	4	3	2	1		
			User-	ıser I	ΕI			octet	1
	L	ength c	of use:	r-user	conter	nts		octet	2
	Use	r-user	proto	col di	scrimir	nator		octet	3
-		Use	er-use:	r info	rmatior	1		octet	4 *
:								octet	N *

FIGURE 10.92/GSM 04.08 User-user information element

	ser protocol discriminator (octet 3)								
8 7 6 0 0 0 0 0 0 0 0 0 0 0 0	Bits 5 4 3 2 1 0 0 0 0 0 0 User specific protocol (Note 1 0 0 0 0 1 OSI high layer protocols 0 0 0 1 1 Reserved for system management convergence function 0 0 1 0 0 IA5 characters (Note 3) 0 0 1 1 1 Rec.V.120 rate adaption 0 1 0 0 0 Q.931 (I.451) user-network cal messages								
throug	1 0 0 0 0 Reserved for other network lay h layer 3 protocols including Re 1 1 1 1 1 (Note 4)								
throug	0 0 0 0 0 h National use 0 1 1 1 1								
throug	1 0 0 0 0 Reserved for other network h layer or layer 3 protocols 1 1 1 1 0 including Rec.X.25 (Note 4)								
All ot	her values are reserved								
Note 1:	The user information is structured accordingeds.	ng to user							
Note 2:	The user information is structured acc Rec.X.244 which specifies the structure of user data.	ording to X.25 call							
Note 3:	The user information consists of IA5 chara	cters.							
Note 4:	Note 3: The user information consists of 1A5 characters.  Note 4: These values are reserved to discriminate these protocol discriminators from the first octet of a X.25 packet including general format identifier.								

Table 10.93/GSM 04.08 User-user information element

CHANGE REQUEST										
*	04	. <mark>08</mark> CF	A1067	<b>7</b>	rev	<b>_</b> #	Current ver	5.18.1	ж	
For <u><b>HELP</b></u> on u	For <u><b>HELP</b></u> on using this form, see bottom of this page or look at the pop-up text over the <b>%</b> symbols.									
Proposed change affects:										
Title: ૠ	Leng	th of Use	r-user IE							
Source: #	Siem	ens AG								
Work item code: ₩	TEI						Date: ង	08.01.2001		
Category: #	Α						Release: #	R96		
	F A B C D	essentia (correspo (Addition (Function (Editorial d explana	ollowing cate I correction) onds to a cor of feature), nal modification tions of the a	rrection in ion of feat n) above cate	ure)		2	f the following rele (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)	ases:	
Reason for change			, the IEI is					he User informa e range of 2-130		
Summary of chang	je:₩									
Consequences if not approved:			rong impler behaviour o				equence pote	ntial wrong erro	r	
Clauses affected:	H :	9.3.31								
Other specs affected:	*	Test s	core specifi pecification Specificatio	S	X					
Other comments:	ж									

This message is sent by the mobile station to the network to transfer information to the remote user. This message is also sent by the network to the mobile station to deliver information transferred from the remote user. This message is used if the user-to-user transfer is part of an allowed information transfer as defined in GSM 04.10.

See table 9.78/GSM 04.08.

Message type: USER INFORMATION

Significance: access

Direction: both

Table 9.78/GSM 04.08: USER INFORMATION message content

IEI	Information element	Type / Reference	Presence	Format	Length
	Call control	Protocol discriminator	M	V	1/2
	protocol discriminator	10.2			
	Transaction identifier	Transaction identifier 10.3.2	M	V	1/2
	User Information message type	Message type 10.4	М	V	1
	User-user	User-user 10.5.4.25	M	LV	<del>3</del> 2-130
A0	More data	More data 10.5.4.19	0	Т	1

#### 9.3.31.1 User-user

Some networks may only support a maximum length of 35 octets. Procedures for interworking are not currently defined and are for further study.

#### 9.3.31.2 More data

CHANGE REQUEST										
<b></b>	04.	. <mark>08</mark> C	R A106	89 ×	rev	-	ж	Current vers	6.13.0	O %
For <u><b>HELP</b></u> on us	sing thi	s form,	see bottom	of this pa	age or	look a	at the	e pop-up text	t over the % s	ymbols.
Proposed change a	affects	<i>:</i> Ж	(U)SIM	ME/UI	X	Radi	io Ac	cess Networ	k Core N	Network X
Title: #	Leng	th of Us	er-user IE							
Source: #	Siem	Siemens AG								
Work item code: ₩	TEI							Date: ∺	08.01.2001	
Category: 第	Α							Release: ೫	R97	
Use one of the following categories:  F (essential 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 release of the following release 1996 (Release 1996)  R96 (Release 1997)  R97 (Release 1998)  R99 (Release 1999)  REL-4 (Release 4)  REL-5 (Release 5)						2) 6) 7) 8)				
Reason for change:   As the user-user IE is defined as a mandatory IE(LV) in the User information										
message, the IEI is omitted and the length must be in the range of 2-130 inst of 3-131.										
Summary of change: #										
Consequences if not approved:  Risk of wrong implementations and in consequence potential wrong error handling behaviour on the network side.						ror				
Clauses affected:	<b></b> # !	9.3.31								
Other specs affected:	#	Test	core spec specificatio Specificati	ns	H					
Other comments:	*									

This message is sent by the mobile station to the network to transfer information to the remote user. This message is also sent by the network to the mobile station to deliver information transferred from the remote user. This message is used if the user-to-user transfer is part of an allowed information transfer as defined in GSM 04.10.

See table 9.78/GSM 04.08.

Message type: USER INFORMATION

Significance: access

Direction: both

Table 9.78/GSM 04.08: USER INFORMATION message content

IEI	Information element	Type / Reference	Presence	Format	Length
	Call control	Protocol discriminator	M	V	1/2
	protocol discriminator	10.2			
	Transaction identifier	Transaction identifier	M	V	1/2
		10.3.2			
	User Information	Message type	M	V	1
	message type	10.4			
	User-user	User-user	M	LV	<u>2</u> 3-130
		10.5.4.25			
A0	More data	More data	О	T	1
		10.5.4.19			

### 9.3.31.1 User-user

Some networks may only support a maximum length of 35 octets. Procedures for interworking are not currently defined and are for further study.

#### 9.3.31.2 More data

CHANGE REQUEST						
*	<b>04.08 CR</b> A1071 * rev - * C	urrent version: 7.10.0 **				
For <u><b>HELP</b></u> on us	ing this form, see bottom of this page or look at the p	op-up text over the X symbols.				
Proposed change a	ffects:    ### (U)SIM ME/UE     X Radio Access	ss Network Core Network X				
Title: ₩	Length of User-user IE					
Source: #	Siemens AG					
Work item code: ₩	TEI	Date: 第 08.01.2001				
Category: #	A R	elease:    R98				
Use one of the following categories:  F (essential correction)  A (corresponds to a correction in an earlier release)  B (Addition of feature),  C (Functional modification)  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)						
Reason for change:   As the user-user IE is defined as a mandatory IE(LV) in the User information message, the IEI is omitted and the length must be in the range of 2-130 instead of 3-131.						
Summary of change:   #						
Consequences if not approved:  **  Risk of wrong implementations and in consequence potential wrong error handling behaviour on the network side.						
Clauses affected:	₩ 9.3.31					
Other specs affected:	# Other core specifications # Test specifications O&M Specifications					
Other comments:	<b>x</b>					

This message is sent by the mobile station to the network to transfer information to the remote user. This message is also sent by the network to the mobile station to deliver information transferred from the remote user. This message is used if the user-to-user transfer is part of an allowed information transfer as defined in GSM 04.10.

See table 9.78/GSM 04.08.

Message type: USER INFORMATION

Significance: access

Direction: both

Table 9.78/GSM 04.08: USER INFORMATION message content

IEI	Information element	Type / Reference	Presence	Format	Length
	Call control	Protocol discriminator	M	V	1/2
	protocol discriminator	10.2			
	Transaction identifier	Transaction identifier	M	V	1/2
		10.3.2			
	User Information	Message type	M	V	1
	message type	10.4			
	User-user	User-user	M	LV	<u>32</u> -13 <u>0</u> 4
		10.5.4.25			
A0	More data	More data	О	T	1
		10.5.4.19			

#### 9.3.31.1 User-user

Some networks may only support a maximum length of 35 octets. Procedures for interworking are not currently defined and are for further study.

#### 9.3.31.2 More data