### 3GPP TSG-CN Meeting #24 02 – 04 June 2004, Seoul, KOREA

Source: CN5 (OSA)

Title: 14 Rel-5 CRs 29.198-02 to -14: Correct Java Code to conform with Java Rulebook

in TS 29.198-01 and to remove errors (NP-040155 CN#23bis Approved & for CN#24

Information)

Agenda item: 8.2 (OSA Enhancements [OSA2])

Document for: INFORMATION

# **3GPP TSG-CN Meeting #23bis** virtual meeting for email approval of OSA Java CRs **29 March - 19 April 2004**

NP-040155

Source: CN5

Title: 14 Rel-5 CRs 29.198-02 to -14: Correct Java Code to conform with Java Rulebook

in TS 29.198-01 and to remove errors

Agenda item: 8.2

Document for: APPROVAL

Meeting-	Doc-1st-	Spec	CR	R	Phas	Subject	Ca	Vers	Doc-2nd-	Worki
1st-Level	Level	_			e	·	t	Curr	Level	tem
NP-23bis	NP-040155	29.198-02	043	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.5.0	N5-040228	OSA2
NP-23bis	NP-040155	29.198-03	101	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.5.0	N5-040229	OSA2
NP-23bis	NP-040155	29.198-04-1	009	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.4.0	N5-040230	OSA2
NP-23bis	NP-040155	29.198-04-2	011	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.5.0	N5-040231	OSA2
NP-23bis	NP-040155	29.198-04-3	020	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.5.0	N5-040232	OSA2
NP-23bis	NP-040155	29.198-04-4	015	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.5.0	N5-040233	OSA2
NP-23bis	NP-040155	29.198-05	045	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.5.0	N5-040234	OSA2
NP-23bis	NP-040155	29.198-06	025	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.3.0	N5-040235	OSA2
NP-23bis	NP-040155	29.198-07	016	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.4.0	N5-040236	OSA2
NP-23bis	NP-040155	29.198-08	028	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.4.0	N5-040237	OSA2
NP-23bis	NP-040155	29.198-11	023	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.3.0	N5-040238	OSA2
NP-23bis	NP-040155	29.198-12	026	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.4.0	N5-040239	OSA2
NP-23bis	NP-040155	29.198-13	008	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.3.0	N5-040240	OSA2
NP-23bis	NP-040155	29.198-14	019	-	Rel-5	Correct Java Code to conform with Java Rulebook in TS 29.198-01 and to remove errors	F	5.4.0	N5-040241	OSA2

# 29.198-02 CR 043 # rev - # Current version: 5.5.0 #													
<sup>ж</sup> 29.1	98-02	CR	043	<b></b> # I	rev	-	¥	Current	versio	n: <b>5</b> ,	.5.0	¥	
For <u><b>HELP</b></u> on usin	ng this for	m, see	e bottom o	f this pa	ge or	look a	at the	е рор-ир	text o	ver the	e ₩ syr	mbols.	
Proposed change aff	ects:	JICC a	apps#	M	ME	Rac	lio A	ccess Ne	etwork	С	ore Ne	etwork X	
	Correct Ja errors	ava Co	ode to con	form wit	h Java	Rule	eboo	k in TS 2	29.198	-01 an	d to re	move	
Source: # 0	CN5 (AeF	PONA	– Eamonn	Murray	)								
Work item code: ₩ (	OSA2							Date	e: Ж	22/03/	2004		
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Reason for change:	₩ Java	code,	and a rule	ebook fo	r deve	lopin	ıg it,	were intr	oduce	d into	the OS	SA	
	Rece were	ently, e identi ections	errors in confied in the set of the comber 200	ode prod Deceml	luction ber 20 gn witl	03 is n the	sue o	of the OS book and	SA spe	cificati able in	ons. npleme		
Summary of change:	acco	mpany	updated, the speci	ification.	•					de pac	kage t	0	
	Note	that th	nere are no the referen	o chang	es req	uired	l to th	ne specif		docur	ment its	self,	
Consequences if not approved:	ruleb there	ook. I efore d	g J2SE co t will be di iscourage part of the	fficult to compar	imple nies fro	ment om de	t the evelo	existing .	Java c	ode, a	nd will		
Clauses affected:	₩ Anne												

Other specs

Other comments:

affected:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

Other core specifications

Test specifications

**O&M Specifications** 

TS 29.198 Rel-5.

# This CR forms part of a package introducing corrected J2SE code in all parts of

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex C (informative): Java API Description of the Common Data definitions

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919802<u>V560</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919802J2EE.ZIP that accompanies the present document.

CHANGE REQUEST													
*	29.1	98-03	CR	101		жrev	-	$\mathbb{H}$	Current	t vers	ion:	5.5.0	¥
For <u>HELP</u> o	n usin	ng this fo	rm, see	bottom	of this	page or	look	at th	e pop-up	text	over	the # sy	mbols.
Proposed chang	ge aff	ects:	UICC a	ıpps#		ME	Rad	dio A	ccess N	etwor	rk	Core N	etwork X
Title:		Correct Jerrors	ava Co	de to co	nform	with Jav	a Rul	eboc	ok in TS	29.19	8-01	and to re	move
Source:	<b> (</b>	CN5 (AeF	PONA -	– Eamon	n Mur	ray)							
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Category:	De	se <u>one</u> of <b>F</b> (cor <b>A</b> (cor <b>B</b> (add <b>C</b> (fun	rection) respondition of octional torial m planatic	ds to a co feature), modification ons of the	rrection ion of fe n) above	n in an ea eature)		elease	2	n <u>e</u> of 6 7 8 9 1-4 1-5	the for (GSN (Relea (Relea (Relea (Relea (Relea (Relea	L-5 Illowing re. I	) ) )
Reason for chai	uae.	₩ Java	code	and a ru	ılehool	c for dev	elonir	na it	were int	roduc	ed ir	nto the O	SA
reason for onal	ige.	Rece were Corr	ently, e e identi ections	ns in Se errors in of fied in the s to the c	ptemb code p e Dec	er 2003. roduction ember 20 align wi	n and 003 is	misa sue rule	alignmer of the O	nt with SA sp	n the pecifi	published cations.	d rules
				mber 20					J	•	·		
Summary of cha	ange:	acco	mpany	updated the spe	cificati	on.					ode	package i	ło
		Note	that th	_	no cha	anges re	quired	d to t	he speci		on do	ocument i	tself,
Consequences not approved:	if	rulet there	ook. I efore d	t will be	difficul e com	t to imple panies fr	emen om d	t the evelo	existing	Java	code	published e, and wil ions whic	
Clauses affected	d:	器 Anne	ex C										
		VN	1										

		T	IN			
Other specs	$\mathfrak{R}$	X		Other core specifications	×	All parts of TS 29.198 Release 5
affected:			Х	Test specifications		
			X	O&M Specifications		
	•					
Other comments:	$\mathfrak{H}$	Т	his	CR forms part of a package intro	odı	ucing corrected J2SE code in all parts of
		Т	S 2	9.198 Rel-5.		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>.

Below is a brief summary:

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
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# Annex C (informative): Java API Description of the Framework

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java, contained in archive 2919803<u>V560</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java, contained in archive 2919803J2EE.ZIP that accompanies the present document.

	# 29.198-04-1 CR 009 # rev - # Current version: 5.4.0 #														
*	29.1	98-0	4-1	CR	009		жrev	-	$\mathfrak{R}$	Curr	ent ve	rsion:	5.4	1.0	Ж
For <u>HELP</u>	on u	sing th	is for	m, see	e bottom	of this	page or	look	at th	е рор	-up tex	xt ove	r the #	ß syr	nbols.
Proposed cha	nge a	affects	s: l	JICC a	apps#		ME	Rad	A oib	ccess	Netw	ork	Cor	e Ne	etwork X
Title:	Ж	Corre		ava Co	de to co	nform	with Jav	a Rul	eboo	k in T	S 29.	198-01	l and t	to re	move
Source:	ж	CN5	(AeF	PONA	– Eamor	n Mur	ray)								
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Reason for ch	nange	e: #	Java	code,	and a ru	ileboo	k for dev	elopir	ng it,	were	introd	uced i	nto the	e OS	SA
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Consequence not approved			ruleb there	ook. efore d	g J2SE of t will be iscourag part of th	difficul e com	t to imple panies fi	emen om d	t the evelo	existi	ng Jav	a cod	e, and	l will	
Clauses affec	ted:	¥	Anne	ex C											
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Other specs

Other comments:

affected:

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Other core specifications

Test specifications

**O&M Specifications** 

TS 29.198 Rel-5.

# This CR forms part of a package introducing corrected J2SE code in all parts of

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# Annex C (informative): Java API Description of the Call Control SCFs

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The J2SE representation of this specification is provided as Java Code, contained in archive 291980401<u>V550</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 291980401J2EE.ZIP that accompanies the present document.

CHANGE REQUEST													
<sup>#</sup> 29.198-	<mark>04-2</mark> CR	011	⊭rev	-	$\mathfrak{H}$	Current vers	sion:	5.5.0	¥				
For <u>HELP</u> on using	this form, see	e bottom of th	is page or	look a	at the	e pop-up text	over th	he ₩ syr	nbols.				
Proposed change affect	ts: UICC a	apps#	ME	Rad	io A	ccess Netwo	rk	Core Ne	etwork X				
Title: 第 Co		ode to conforr	n with Java	a Rule	eboo	k in TS 29.19	98-01 a	ind to re	move				
Source: 第 CN	5 (AePONA	– Eamonn Mı	urray)										
Work item code: 第 OS	6A2					Date: ₩	22/0	3/2004					
Deta	F (correction) A (correspon B (addition of C (functional D (editorial m	ds to a correcti f feature), modification of nodification) ons of the abov	on in an ear		lease	Release: 器 Use <u>one</u> of 2 e) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	the follo (GSM I (Relead (Relead (Relead	owing rele Phase 2) se 1996) se 1997) se 1998) se 1999) se 4)	eases:				
Reason for change: #	lava codo	and a rulebo	ok for dove	alonin	a it	were introdu	cod into	o the OS	۲۸				
Reason to change.	Recently, e were identi	errors in code fied in the De s to the code ember 2003 v	production cember 20 to align wit	n and in and in and in an	misa sue d	alignment with of the OSA solutions	h the poperification	ublished ations. impleme	rules				
Summary of change: ₩	This code p	updated, cor y the specificate package is an here are no cl the reference	ation. integral pa	art of	the s	specification.	·	-					
Consequences if	rulebook. therefore d	g J2SE code It will be diffic iscourage col part of the OS	ult to imple mpanies fr	ement om de	the evelo	existing Java	a code,	and will					
Clauses affected: 第	Annex C												

		Υ	N			
Other specs	$\mathbb{H}$	X		Other core specifications #	E	All parts of TS 29.198 Release 5
affected:			X	Test specifications		
			X	O&M Specifications		
				-		
Other comments:	$\aleph$	T	his (	CR forms part of a package intro	dι	ucing corrected J2SE code in all parts of
		T	S 29	9.198 Rel-5.		

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

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The J2EE representation of this specification is provided as Java Code, contained in archive 291980402J2EE.ZIP that accompanies the present document.

CHANGE REQUEST												
<sup>#</sup> 29.198	8-04-3 CR 020											
For <u>HELP</u> on using	g this form, see bottom of this page or look at the pop-up text over the 光 symbol	ls.										
Proposed change affe	Pcts: UICC apps# ME Radio Access Network Core Network	rk X										
	forrect Java Code to conform with Java Rulebook in TS 29.198-01 and to remove rrors	е										
Source: 第 C	N5 (AePONA – Eamonn Murray)											
Work item code: 第 〇	Date: 第 22/03/2004											
De	Release: $\Re$ REL-5e one of the following categories:Use one 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)tailed explanations of the above categories can found in 3GPP TR 21.900.Rel-4 (Release 4)Rel-5 (Release 5)Rel-6 (Release 6)	s:										
Reason for change:	Java code, and a rulebook for developing it, were introduced into the OSA											
<b>C</b>	specifications in September 2003.  Recently, errors in code production and misalignment with the published rule were identified in the December 2003 issue of the OSA specifications.  Corrections to the code to align with the rulebook and to enable implementat of the December 2003 version of Release 5 are urgently requried.											
Summary of change: 9	Provide an updated, corrected and validated J2SE Java code package to accompany the specification.  This code package is an integral part of the specification.											
	Note that there are no changes required to the specification document itself, other than the reference to the new code package.											
Consequences if not approved:	The existing J2SE code package will be inconsistent with the published Java rulebook. It will be difficult to implement the existing Java code, and will therefore discourage companies from developing implementations which use Java code part of the OSA specifications.											
Clauses affected:	# Annex C											
	YN											

Other specs

Other comments:

affected:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

Other core specifications

Test specifications

**O&M Specifications** 

TS 29.198 Rel-5.

# This CR forms part of a package introducing corrected J2SE code in all parts of

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The J2SE representation of this specification is provided as Java Code, contained in archive 291980403<u>V560</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 291980403J2EE.ZIP that accompanies the present document.

CHANGE REQUEST													
<b>* 29</b>	<mark>.198-</mark>	04-4	CR	015	9	∉ rev	-	¥	Current	versi	ion:	5.5.0	¥
For <u>HELP</u> or	using	this fo	rm, see	e bottom d	of this p	page or	look	at th	е рор-ир	text	over	the	mbols.
Proposed chang	e affec	ets:	UICC a	apps#		ME	Rad	A oib	ccess N	etwor	k	Core N	etwork X
Title:		rrect Jors	ava Co	ode to cor	nform w	vith Java	a Rul	eboc	k in TS 2	29.19	8-01	and to re	move
Source:	₩ CN	<mark>15 (Ae</mark> l	PONA	– Eamoni	n Murra	ay)							
Work item code:	ж <u>О</u>	SA2							Dat	t <b>e:</b> ૠ	22/	03/2004	
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		Rece were	ently, e e identi	errors in co	otembe ode pro e Decei	r 2003. oduction mber 20	n and 003 is	misa sue	alignmer of the O	nt with SA sp	the ecific	published cations.	d rules
				to the co ember 200									entation
Summary of cha	nge: ૠ			updated, the spec			l valic	dated	I J2SE Ja	ava c	ode p	oackage t	:0
		This	code ¡	oackage is	s an int	tegral p	art of	the	specifica	ition.			
				nere are n the refere						ficatio	n do	cument it	self,
Consequences in not approved:	<b>f</b> ∺	rulet there	ook. efore d	g J2SE co t will be d iscourage part of the	difficult e comp	to imple anies fr	emen om d	t the evelo	existing	Java	code	e, and will	
Clauses affected	<b>!</b> : ₩	Anne	ex C										
		VIN											

Other specs

Other comments:

affected:

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Other core specifications Test specifications

**O&M Specifications** 

TS 29.198 Rel-5.

# This CR forms part of a package introducing corrected J2SE code in all parts of

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex C (informative): Java API Description of the Call Control SCFs

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 291980404<u>V560</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 291980404J2EE.ZIP that accompanies the present document.

CHANGE REQUEST													
<sup>#</sup> 29.	198-0	<mark>05</mark> CR	045	⊭rev	-	¥	Current vers	sion:	5.5.0	æ			
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Title: ₩	Correc	t Java Co	ode to confor	m with Java	a Rule	eboo	k in TS 29.1	98-01	and to re	move			
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Other specs

Other comments:

affected:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

Other core specifications Test specifications O&M Specifications

TS 29.198 Rel-5.

# This CR forms part of a package introducing corrected J2SE code in all parts of

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex C (informative): Java API Description of the User Interaction SCF

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919805<u>V560</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919805J2EE.ZIP that accompanies the present document.

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Other specs

Other comments:

affected:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

Other core specifications

Test specifications

**O&M Specifications** 

TS 29.198 Rel-5.

# This CR forms part of a package introducing corrected J2SE code in all parts of

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex C (informative): Java API Description of the Mobility SCFs

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919806<u>V540</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919806J2EE.ZIP that accompanies the present document.

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Other specs

Other comments:

Below is a brief summary:

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How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>.

# This CR forms part of a package introducing corrected J2SE code in all parts of

All parts of TS 29.198 Release 5

Other core specifications Test specifications

**O&M Specifications** 

TS 29.198 Rel-5.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex C (informative): Java API Description of the Terminal Capabilities SCF

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919807<u>V550</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919807J2EE.ZIP that accompanies the present document.

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Clauses affected:	# Annex C
Other specs affected:	Y   N
Other comments:	# This CR forms part of a package introducing corrected J2SE code in all parts of TS 29.198 Rel-5.

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex C (informative): Java API Description of the Data Session Control SCF

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919808<u>V550</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919808J2EE.ZIP that accompanies the present document.

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Clauses affected:	第 Annex C
Other specs affected:	Y N  X Other core specifications
Other comments:	X O&M Specifications  **This CR forms part of a package introducing corrected J2SE code in all parts of

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex C (informative): Java API Description of the Account Management SCF

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919811<u>V540</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919811J2EE.ZIP that accompanies the present document.

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How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex C (informative): Java API Description of the Charging SCF

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919812<u>V550</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919812J2EE.ZIP that accompanies the present document.

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Other specs

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affected:

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>.

Below is a brief summary:

Other core specifications Test specifications

O&M Specifications

TS 29.198 Rel-5.

# This CR forms part of a package introducing corrected J2SE code in all parts of

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex B (informative): Java API Description of the Policy Management SCF

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919813<u>V540</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919813J2EE.ZIP that accompanies the present document.

	(	CHANGE	REQ	UE	ST				CR-Form-v7
<sup>#</sup> 29.19	8-14 CR	019	жrev	-	₩ (	Current vers	5.4	.0	*
For <u>HELP</u> on using	this form, see	bottom of thi	s page or	look a	at the	pop-up text	over the #	syr.	nbols.
Proposed change affec	ts: UICC a	npps#	ME	Rad	io Acc	cess Netwo	rk Cor	e Ne	etwork X
Title: # Co		ode to conform	with Java	a Rule	book	in TS 29.19	98-01 and t	o rer	nove
Source: 第 CN	5 (AePONA	– Eamonn Mu	rray)						
Work item code: 第 OS	A2					Date: ∺	22/03/20	04	
Category:  # F  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.  Release: # REL-5  Use one of the following release 1990  R96 (Release 1996  R97 (Release 1997  R98 (Release 1998  Rel-4 (Release 4)  Rel-5 (Release 5)  Rel-6 (Release 6)									eases:
Reason for change: #		and a ruleboons in Septeml		elopin	g it, w	vere introdu	ced into the	e OS	A
	Recently, e were identi	errors in code placed in the December 2003 versions.	production cember 20 o align wit ersion of R	003 iss h the deleas	rulebo e 5 a	ook and to e	pecification enable imprequried.	is. Ieme	entation
Summary of change: # Provide an updated, corrected and validated J2SE Java code package to accompany the specification.  This code package is an integral part of the specification.									)
		nere are no ch the reference					on docume	ent its	self,
Consequences if # not approved:	rulebook. I therefore d	g J2SE code p t will be difficu iscourage con part of the OS	ult to imple npanies fr	ment om de	the exvelop	xisting Java	code, and	l will	
Clauses affected: Ж	Annex B								

Clauses affected:	第 Annex B
	YN
Other specs affected:	# X Other core specifications # All parts of TS 29.198 Release 5  Test specifications  O&M Specifications
Other comments:	# This CR forms part of a package introducing corrected J2SE code in all parts of TS 29.198 Rel-5.

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

# Annex B (informative): Java API Description of the Presence and Availability Management SCFs

The Java API realisation of this specification is produced in accordance with the Java Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for Java, a developer API, provided as a realisation, supporting a Java API that represents the UML specifications. The rules support the production of both J2SE and J2EE versions of the API from the common UML specifications.

The J2SE representation of this specification is provided as Java Code, contained in archive 2919814<u>V550</u>J2SE.ZIP that accompanies the present document.

The J2EE representation of this specification is provided as Java Code, contained in archive 2919814J2EE.ZIP that accompanies the present document.