3GPP TSG CN Plenary Meeting #17 **NP-020445**
4th – 6th September 2002 Biarritz, FRANCE.

Source: TSG CN WG4

Title: TEI4

Agenda item: 7.11

Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.091	004		N4-020834	Rel4	Correction to check of ECT treatment indicator in SII2 parameter	F	4.0.0
23.091	005		N4-020835	Rel5	Correction to check of ECT treatment indicator in SII2 parameter	A	5.0.0
29.202	002	1	N4-021054	Rel4	To add reference to new IETF RFC on SCTP Checksum	F	4.1.1
29.202	003	1	N4-021055	Rel5	To add reference to new IETF RFC on SCTP Checksum	A	5.0.0

3GPP TSG CN WG4 Meeting #15 ***N4-020834***
Helsinki, Finland, 29th July – 2nd August 2002

CR-Form-v7

CHANGE REQUEST

⌘ **23.091** **CR** **004** ⌘ **rev** **-** ⌘ Current version: **4.0.0** ⌘

*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:	⌘	Correction to check of ECT treatment indicator in SII2 parameter
Source:	⌘	CN4
Work item code:	⌘	ECT
Date:	⌘	03/07/2002
Category:	⌘	**F**
Release:	⌘	Rel-4

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:	⌘	To correct the check of the ECT treatment indicator in SII2 parameter in figure 3: The absence of the ECT treatment indicator in SII2 parameter must not cause unsuccessful ECT invocation. Essential Correction
Summary of change:	⌘	The SDL in figure 3 is corrected: If the ECT treatment indicator in SII2 parameter is not present, processing continues with sending of “Check ECT subscription”.
Consequences if not approved:	⌘	Explicit Call Transfer will fail.

Clauses affected:	⌘	4.2.2

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

Other comments:	⌘	A R99 mirror of this CR is not needed

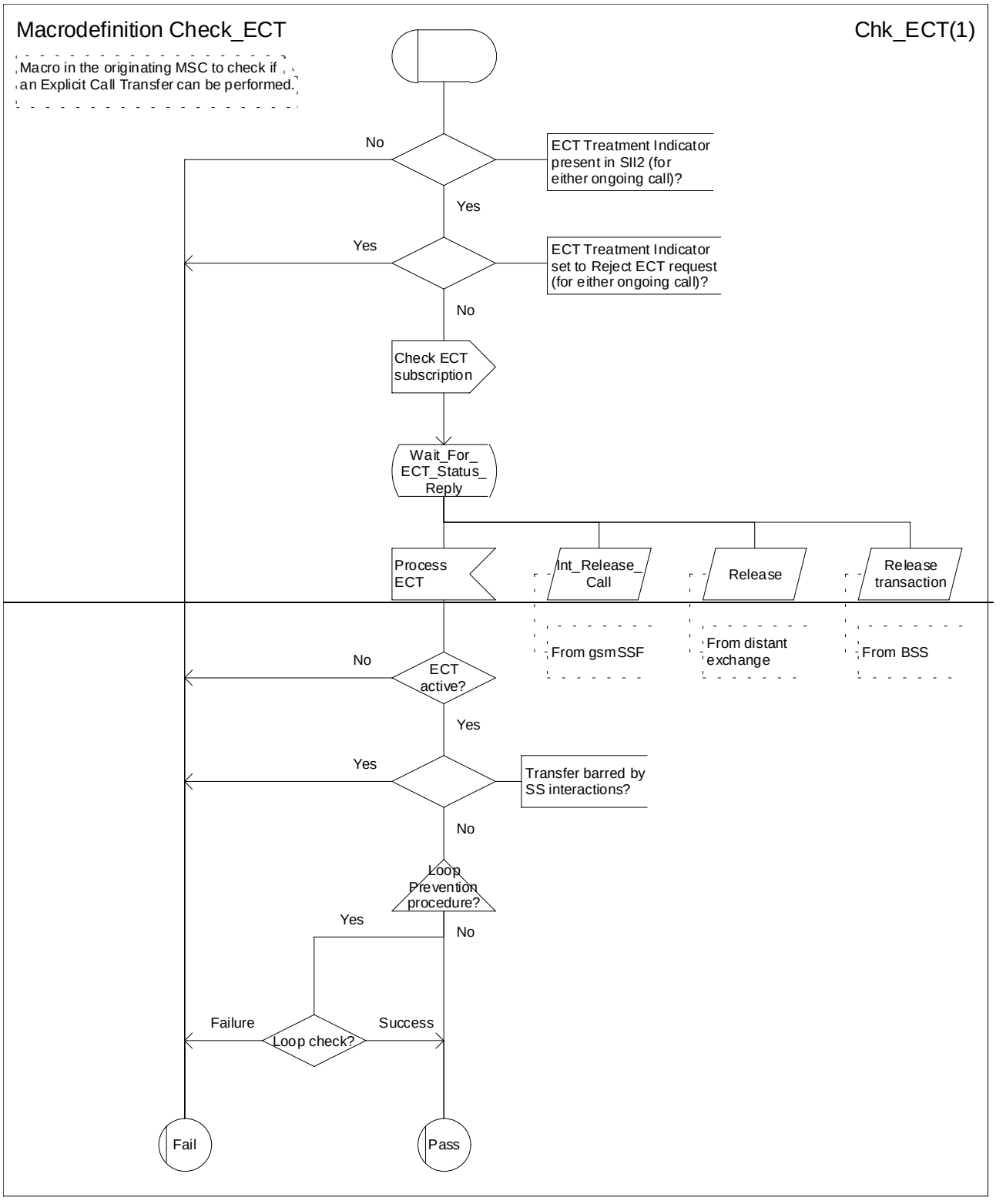
How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

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 ftp://ftp.3gpp.org/specs/ 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.


Macrodefinition Check_ECT
Chk_ECT(1)
Macro in the originating MSC to check if an Explicit Call Transfer can be performed.
No
ECT Treatment Indicator present in SII2 (for either ongoing call)?
Yes
Yes
ECT Treatment Indicator set to Reject ECT request (for either ongoing call)?
No
Check ECT subscription
Wait_For_ ECT_Status_ Reply
Process ECT
Int_Release_ Call
Release
Release transaction
From gsmSSF
From distant exchange
From BSS
No
ECT active?
Yes
Yes
Transfer barred by SS interactions?
No
Loop Prevention procedure?
Yes
No
Failure
Loop check?
Success
Fail
Pass

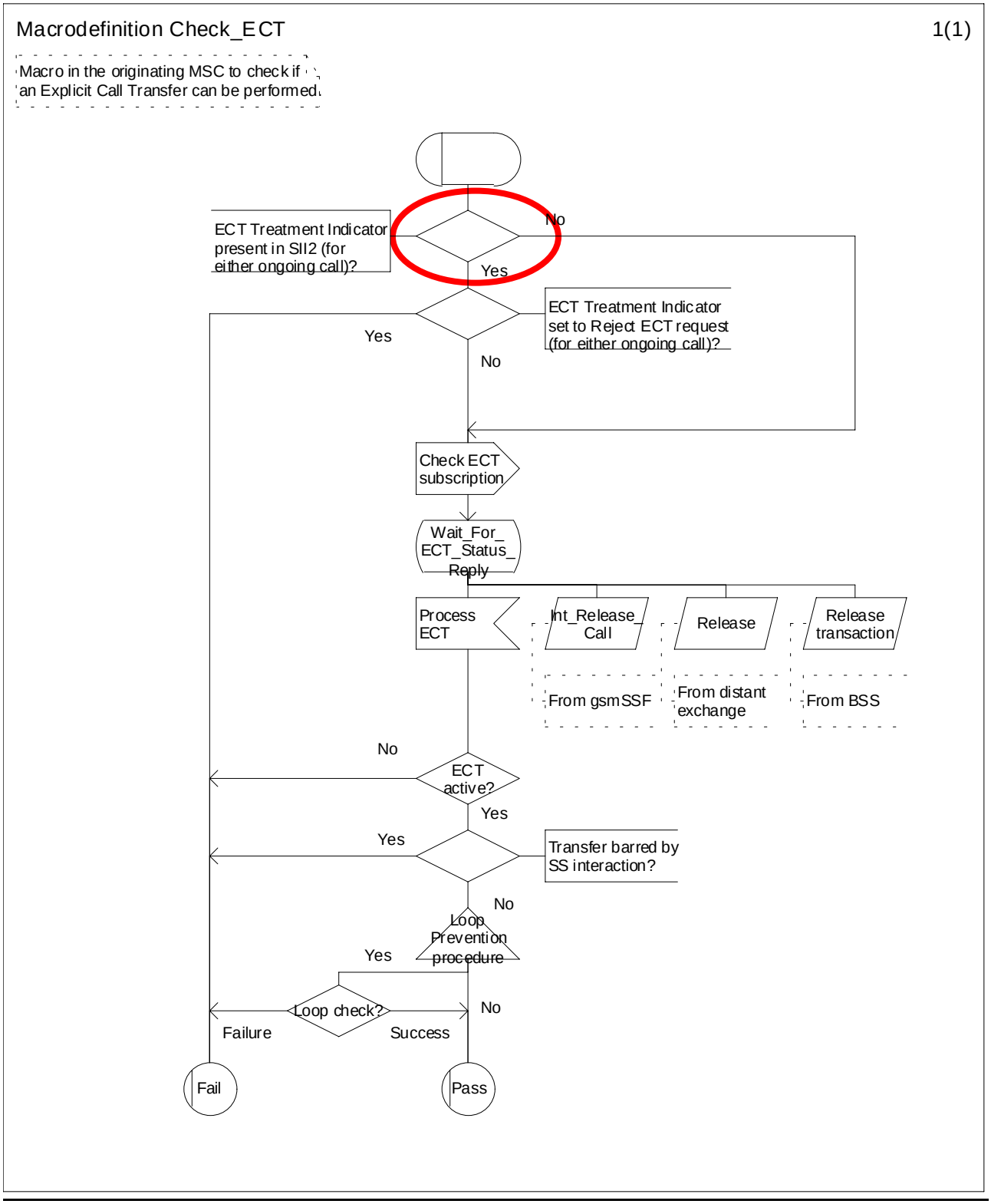


Figure 3: Macro Check_ECT

3GPP TSG CN WG4 Meeting #15 ***N4-020835***
Helsinki, Finland, 29th July – 2nd August 2002

CR-Form-v7

CHANGE REQUEST

⌘ **23.091** **CR** **005** ⌘ **rev** **-** ⌘ Current version: **5.0.0** ⌘

*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:	⌘	Correction to check of ECT treatment indicator in SII2 parameter
Source:	⌘	CN4
Work item code:	⌘	ECT
Date:	⌘	03/07/2002
Category:	⌘	**A**
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:	⌘	To correct the check of the ECT treatment indicator in SII2 parameter in figure 3: The absence of the ECT treatment indicator in SII2 parameter must not cause unsuccessful ECT invocation. Essential Correction
Summary of change:	⌘	The SDL in figure 3 is corrected: If the ECT treatment indicator in SII2 parameter is not present, processing continues with sending of "Check ECT subscription".
Consequences if not approved:	⌘	Explicit Call Transfer will fail.
Clauses affected:	⌘	4.2.2

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

Other comments:	⌘	A R99 mirror of this CR is not needed

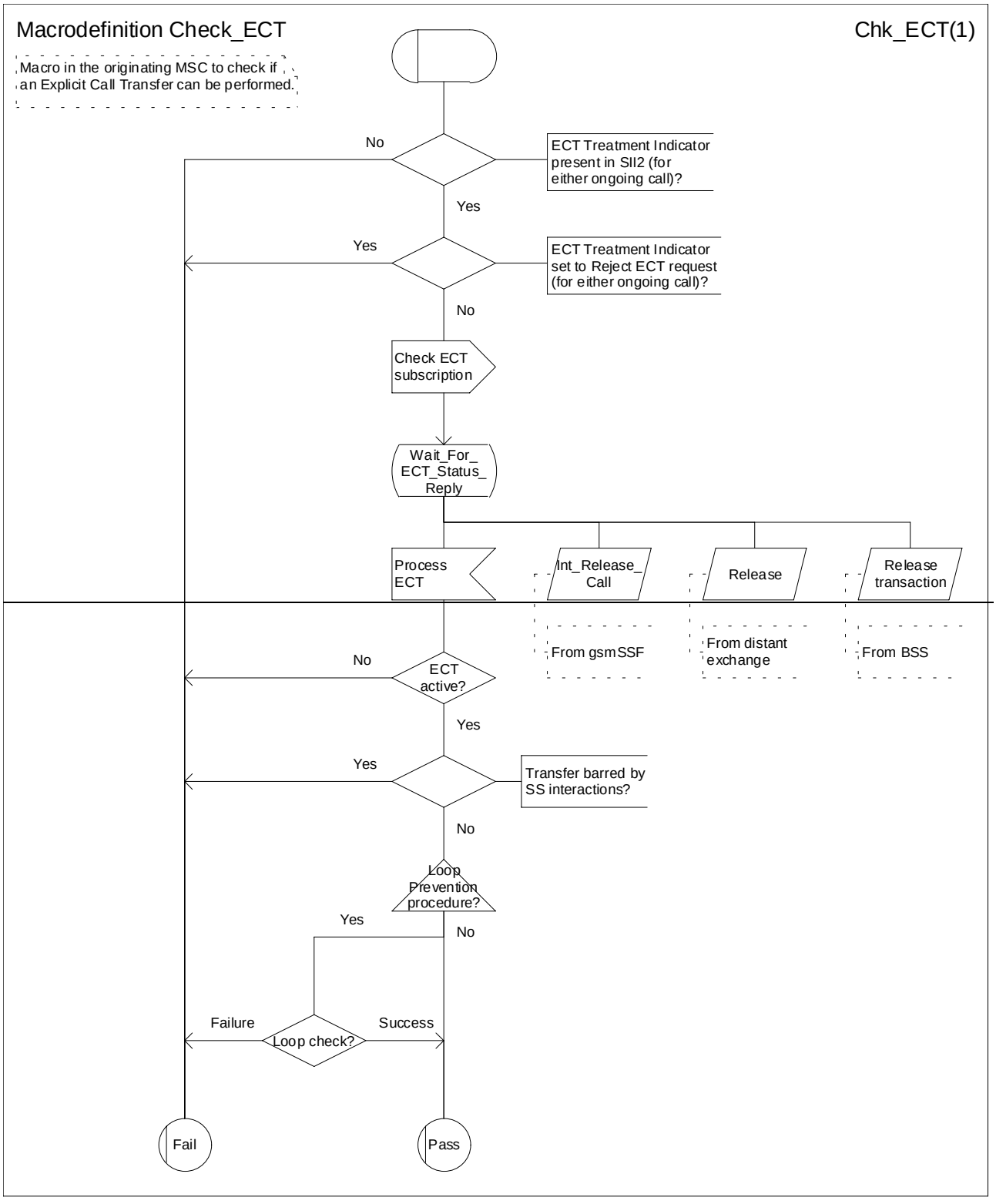
How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

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 ftp://ftp.3gpp.org/specs/ 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.


Macrodefinition Check_ECT
Chk_ECT(1)
Macro in the originating MSC to check if an Explicit Call Transfer can be performed.
No
ECT Treatment Indicator present in SII2 (for either ongoing call)?
Yes
Yes
ECT Treatment Indicator set to Reject ECT request (for either ongoing call)?
No
Check ECT subscription
Wait_For_ ECT_Status_ Reply
Process ECT
Int_Release_ Call
Release
Release transaction
From gsmSSF
From distant exchange
From BSS
No
ECT active?
Yes
Yes
Transfer barred by SS interactions?
No
Loop Prevention procedure?
Yes
No
Failure
Loop check?
Success
Fail
Pass

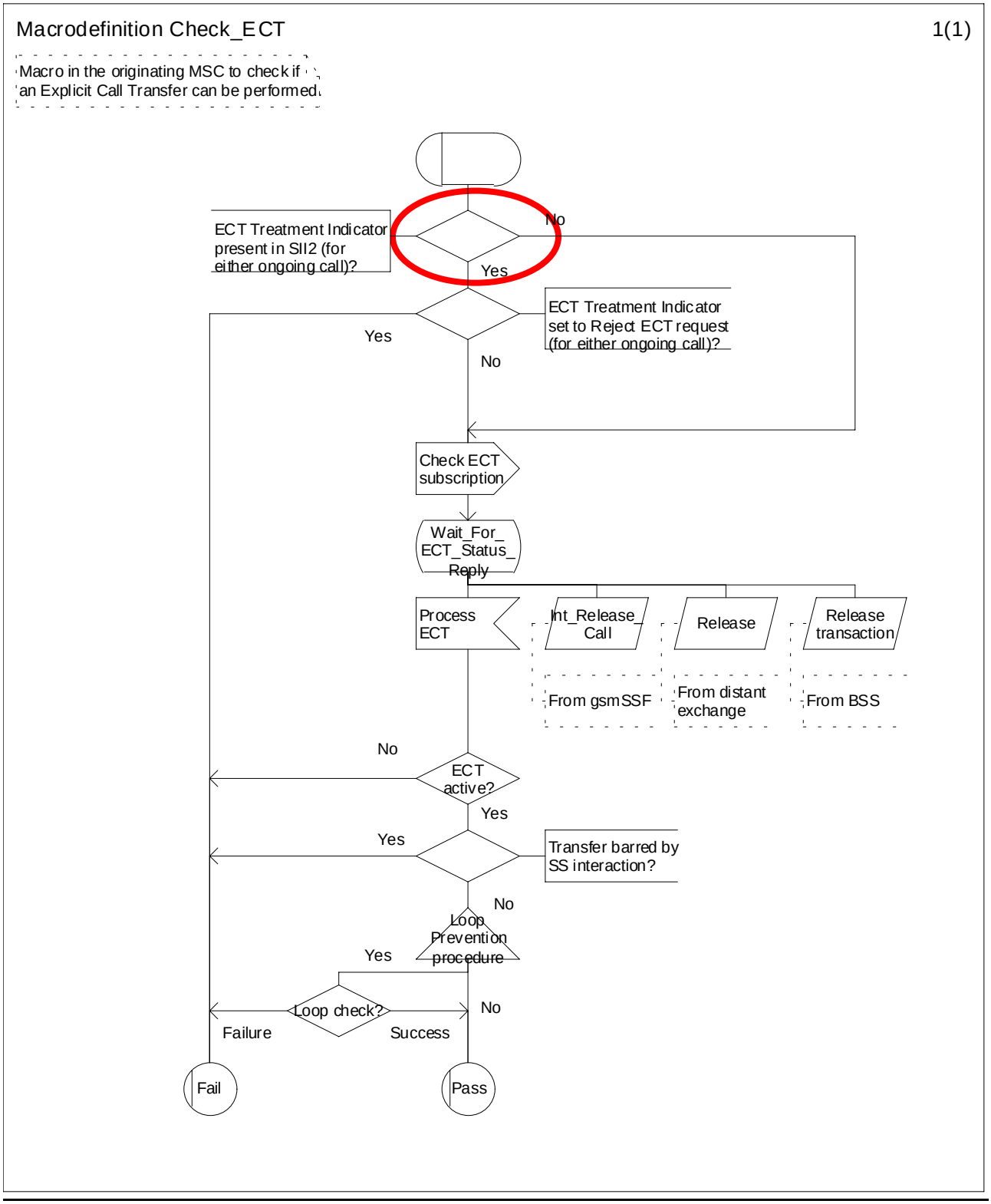


Figure 3: Macro Check_ECT

3GPP TSG CN WG4 Meeting #15 ***N4-021054***
Helsinki, Finland, 29th July – 2nd August 2002

CR-Form-v7

CHANGE REQUEST

⌘ **29.202** **CR** **002** ⌘ **rev** **1** ⌘ Current version: **4.1.1** ⌘

*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:	⌘	CR to 29.202 to add reference to new IETF RFC on SCTP Checksum
Source:	⌘	CN4
Work item code:	⌘	TEI4
Date:	⌘	01/08/2002
Category:	⌘	**F**
Release:	⌘	Rel-4

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:	⌘	To provide the new reference to the IETF RFC 3309 which gives the newly devised error free checksum algorithm for SCTP. This is an essentialcorrection.
Summary of change:	⌘	A new RFC reference is provided and stipulated to be used for SCTP.
Consequences if not approved:	⌘	An error prone checksum algorithm for SCTP will continue to be used. For users SCTP over IP faulty small packets could be transferred without detection and if this occurs, this could result in serious misoperation of the system.

Clauses affected:	⌘	2.1, 5.2

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

⌘

Other comments: ⌘

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

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

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 ftp://ftp.3gpp.org/specs/ 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.

***** First Modified Section *****

2.1 Normative references

[1] 3GPP TR 21.905: "3G Vocabulary"

[2] ITU-T Recommendation Q.701: "Functional description of the message transfer part (MTP) of signalling system No. 7"

[3] ITU-T Recommendation Q.702: "Signalling data link"

[4] ITU-T Recommendation Q.703: "Signalling link"

[5] ITU-T Recommendation Q.704: "Signalling network functions and messages"

[6] ITU-T Recommendation Q.705: "Signalling network structure"

[7] ITU-T Recommendation Q.706: "Message transfer part signalling performance"

[8] RFC 2960: "Stream Control Transmission Protocol"

[9] ITU-T Recommendation G.804: "ATM cell mapping into Plesiochronous Digital Hierarchy (PDH)"

[10] ITU-T Recommendation I.112: "Vocabulary of terms for ISDNs"

[11] ITU-T Recommendation I.361: "B-ISDN ATM layer specification"

[12] ITU-T Recommendation I.363.5: "B-ISDN ATM Adaptation Layer specification: Type 5 AAL"

[13] ITU-T Recommendation Q.2110: "B-ISDN ATM adaptation layer - Service specific connection oriented protocol (SSCOP)"

[14] ITU-T Recommendation Q.2140: "B-ISDN ATM adaptation layer - Service specific coordination function for signalling at the network node interface (SSCF at NNI)"

[15] ITU-T Recommendation Q.2210: "Message transfer part level 3 functions and messages using the services of ITU-T Recommendation Q.2140"

[17] RFC 3309: “"SCTP Checksum Change"”

2.2 Informative references

[16] RFC 2719: "Framework Architecture for Signalling Transport"

***** Next Modified Section *****

5.2 Protocol architecture in the case of IP-based SS7 signalling transport network

The transport of an MTP3-user signalling messages shall be accomplished in accordance with the architecture defined by the "Framework Architecture for Signalling Transport" [16], by "Stream Control Transmission Protocol"[8] and by the IETF document available in Annex A. An implementation of SCTP to this document shall utilise the ~~new~~ checksum method specified in RFC 3309 [17] instead of the method specified in RFC 2960 [8].

The protocol architecture applicable in the case of IP-based SS7 signalling transport network is shown in Figure 5.2/1

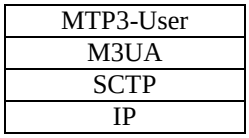


Figure 5.2/1: Protocol architecture in the case of IP-based SS7 signalling transport network

3GPP TSG CN WG4 Meeting #15 **N4-021055**
Helsinki, Finland, 29th July – 2nd August 2002

CR-Form-v7

CHANGE REQUEST

⌘ **29.202** **CR** **003** ⌘ **rev** **1** ⌘ Current version: **5.0.0** ⌘

*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 **X**

Title:	⌘	CR to 29.202 to add reference to new IETF RFC on SCTP Checksum
Source:	⌘	CN4
Work item code:	⌘	TEI4
Date:	⌘	01/08/2002
Category:	⌘	**A**
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:	⌘	To provide the new reference to the IETF RFC 3309 which gives the newly devised error free checksum algorithm for SCTP. This is an essentialcorrection.
Summary of change:	⌘	A new RFC reference is provided and stipulated to be used for SCTP.
Consequences if not approved:	⌘	An error prone checksum algorithm for SCTP will continue to be used. For users SCTP over IP faulty small packets could be transferred without detection and if this occurs, this could result in serious misoperation of the system.

Clauses affected:	⌘	2.1, 5.2

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

⌘

Other comments: ⌘

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

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

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 ftp://ftp.3gpp.org/specs/ 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.

***** First Modified Section *****

2.1 Normative references

[1] 3GPP TR 21.905: "3G Vocabulary"

[2] ITU-T Recommendation Q.701: "Functional description of the message transfer part (MTP) of signalling system No. 7"

[3] ITU-T Recommendation Q.702: "Signalling data link"

[4] ITU-T Recommendation Q.703: "Signalling link"

[5] ITU-T Recommendation Q.704: "Signalling network functions and messages"

[6] ITU-T Recommendation Q.705: "Signalling network structure"

[7] ITU-T Recommendation Q.706: "Message transfer part signalling performance"

[8] RFC 2960: "Stream Control Transmission Protocol"

[9] ITU-T Recommendation G.804: "ATM cell mapping into Plesiochronous Digital Hierarchy (PDH)"

[10] ITU-T Recommendation I.112: "Vocabulary of terms for ISDNs"

[11] ITU-T Recommendation I.361: "B-ISDN ATM layer specification"

[12] ITU-T Recommendation I.363.5: "B-ISDN ATM Adaptation Layer specification: Type 5 AAL"

[13] ITU-T Recommendation Q.2110: "B-ISDN ATM adaptation layer - Service specific connection oriented protocol (SSCOP)"

[14] ITU-T Recommendation Q.2140: "B-ISDN ATM adaptation layer - Service specific coordination function for signalling at the network node interface (SSCF at NNI)"

[15] ITU-T Recommendation Q.2210: "Message transfer part level 3 functions and messages using the services of ITU-T Recommendation Q.2140"

[17] RFC 3309: “"SCTP Checksum Change"”

2.2 Informative references

[16] RFC 2719: "Framework Architecture for Signalling Transport"

***** Next Modified Section *****

5.2 Protocol architecture in the case of IP-based SS7 signalling transport network

The transport of an MTP3-user signalling messages shall be accomplished in accordance with the architecture defined by the "Framework Architecture for Signalling Transport" [16], by "Stream Control Transmission Protocol"[8] and by the IETF document available in Annex A. An implementation of SCTP to this document shall utilise the ~~new~~ checksum method specified in RFC 3309 [17] instead of the method specified in RFC 2960 [8].

The protocol architecture applicable in the case of IP-based SS7 signalling transport network is shown in Figure 5.2/1

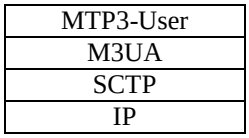


Figure 5.2/1: Protocol architecture in the case of IP-based SS7 signalling transport network