NP-020463

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

Source: TSG CN WG4

Title: Bearer Independent Architecture Rel-4

Agenda item: 7.11

Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.205	032	1	N4-021057	Rel4	Correction on wrong message handling for subsequent Handover	F	4.5.0
23.205	033	1	N4-021058	Rel5	Correction on wrong message handling for subsequent Handover	Α	5.2.0
29.232	043	1	N4-021059	Rel4	Missing Properties For Circuit Switched Data Calls	F	4.5.0
29.232	044	1	N4-021060	Rel5	Missing Properties For Circuit Switched Data Calls	Α	5.2.0

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

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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:

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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.

8.1.3 Subsequent Inter-MSC SRNS/SBSS Relocation back to the Anchor MSC

The procedures specified in 3GPP TS 23.009 [8] for 'Subsequent Relocation from 3G_MSC-B to 3G_MSC-A requiring a Circuit Connection between 3G_MSC-A and 3G_MSC-B' shall be followed. The following paragraphs describe the additional requirements for the bearer independent CS core network.

8.1.3.1 MSC-A/MGW-A

Relocation Required Request

When the MSC-A server receives the MAP Prepare Subsequent Handover request containing a Relocation Request Required message, it requests MGW-A to provide a binding reference and a bearer address using the Prepare Bearer procedure. For speech calls, the MSC-A server shall provide the MGW-A with the speech coding information for the bearer. For non-speech calls the MSC-A server shall provide MGW-A with the same PLMN Bearer Capability [4] as was provided at the last access bearer assignment. The MSC-A server uses the Change Flow Direction procedure to request the MGW-A to set the Handover Device to initial state. The MSC-A server sends the Relocation Request message, containing the bearer address and the binding reference, to RNC-B (bullet 1 in figure 8.6/1).

Relocation Command/Relocation Detect

When the MSC-A server sends the Relocation Command message MAP Prepare Subsequent Handover response. or alternatively if it receives the Relocation Detect message, the MSC-A server uses the Change Flow Direction procedure to requests MGW-A to set the Handover Device to intermediate state (bullet 2 in figure 8.6/1).

Relocation Complete

When the MSC-A server receives the Relocation Complete message, it informs the MSC-B server about reception of this message. The MSC-A server then initiates call clearing towards the MSC-B server as described in clause 7.3.

8.2.3 Subsequent Inter-MSC UMTS to GSM Handover back to the Anchor MSC

The following handling shall be applied for a call that started as UMTS call. The procedures specified in 3GPP TS 23.009 [8] for 'Subsequent UMTS to GSM handover requiring a Circuit Connection between 3G_MSC-A and 3G_MSC-B, 3G_MSC-B to MSC-A' shall be followed. The following paragraphs describe the additional requirements for the bearer independent CS core network.

8.2.3.1 MSC-A

Relocation Required Handover Request

When the MSC-A server receives the MAP Prepare Subsequent Handover request containing a Relocation Required Handover Request message is received, it the MSC-A server requests MGW-A to seize a TDM circuit, using the Reserve Circuit procedure. For non-speech calls the MSC-A server shall provide MGW-A with the GSM Channel coding properties and the same PLMN Bearer Capability [4] as was provided at the first access bearer assignment. The MSC-A server uses the Change Flow Direction procedure to request MGW-A to set the Handover Device to initial state. The MSC-A server sends the Handover Request message, containing the CIC, to BSC-B (bullet 1 in figure 8.12/1).

Handover Request Acknowledge

For non-speech calls after receiving the Handover Request Acknowledge message if the assigned GSM Channel coding properties differ from the previously provided ones the MSC-A server shall provide MGW-A with the assigned GSM Channel coding properties using the Modify Bearer Characteristics procedure (bullet 2 in figure 8.12/1).

Relocation Command/Handover Detect

When the MSC-A server sends the MAP Prepare Subsequent Handover response. Relocation Command message or alternatively if it receives the Handover Detect message, the MSC-A server uses the Change Flow Direction procedure to requests MGW-A to set the Handover Device to intermediate state (bullet 3 in figure 8.12/2).

Handover Complete

When the MSC-A server receives the Handover Complete message, it informs the MSC-B server about reception of this message (bullet 3 in figure 8.12/2). The MSC-A server then initiates call clearing towards the MSC-B server as described at 7.3.

********************* NEXT MODIFIED SECTION ****************

8.3.3 Subsequent Inter-MSC GSM to UMTS Handover back to the Anchor MSC

The following handling shall be applied for a call that started as UMTS call. The procedures specified in 3GPP TS 23.009 [8] for 'Subsequent Inter-MSC GSM to UMTS Handover back to the Anchor MSC' shall be followed. The following paragraphs describe the additional requirements for the bearer independent CS core network.

8.3.3.1 MSC-A

Handover Required Request

When the MSC-A server receives a MAP Prepare Subsequent Handover request containing a Handover Required Request message from BSC-A (via MSC-B server), it requests the MGW-A to provide a binding reference and a bearer address using the Prepare Bearer procedure. For speech calls, the MSC-A server shall provide the MGW-A with the speech coding information for the bearer. For non-speech calls the MSC-A server shall provide MGW-A with the same PLMN Bearer Capability [4] as was provided at the last channel assignment. The MSC-A server uses the Change Flow Direction Procedure to request the MGW-A to set the Handover Device to initial state. The MSC-A server sends the Relocation Request message to the RNC-B containing the bearer address and binding reference (bullet 1 in figure 8.18/1).

Handover Command/Relocation Detect

When the MSC-A server sends the MAP Prepare Subsequent Handover response Handover Command-message or alternatively if it receives a Relocation Detect message, the MSC-A server uses the Change Flow Direction procedure to requests the MGW-A to set the Handover Device to intermediate state (bullet 2 in figure 8.18/2).

Relocation Complete

When the MSC-A server receives a Relocation Complete message, it informs the MSC-B server about reception of this message. MSC-A server then initiates call clearing towards the MSC-B server as described in clause 7.3.

. . . .

8.4.3 Subsequent Inter-MSC GSM to GSM Handover back to the Anchor MSC

The procedures specified in 3GPP TS 23.009 [8] for 'Subsequent Handover from MSC-B to MSC-A requiring a Circuit Connection between 3G_MSC-A and 3G_MSC-B' shall be followed. The following paragraphs describe the additional requirements for the bearer independent CS core network.

8.4.3.1 MSC-A / MGW-A

Handover Required Request

When the MSC-A server receives a MAP Prepare Subsequent Handover request containing athe Handover Required Request message, it requests MGW-A to seize a TDM circuit, using the Reserve Circuit procedure. For non-speech calls the MSC-A server shall provide MGW-A with the GSM Channel coding properties and the same PLMN Bearer Capability [4] as was provided at the first access bearer assignment The MSC-A server uses the Change Flow Direction Procedure to request MGW-A to set the Handover Device to initial state. The MSC-A server sends the Handover Request message to the BSC-B containing the CIC (bullet 1 in figure 8.24/1).

Handover Request Acknowledge

For non-speech calls after receiving Handover Request Acknowledge message if the assigned GSM Channel coding properties differ from the previously provided ones the MSC-A server provides the MGW-A with the assigned GSM Channel coding properties using the Modify Bearer Characteristics procedure (bullet 2 in figure 8.24/2).

Handover Command/Handover Detect

When the MSC-A server sends the MAP Prepare Subsequent Handover response Handover Command message or alternatively if it receives the Handover Detect message, the MSC-A server uses the Change Flow Direction procedure to request MGW-A to set the Handover Device to intermediate state (bullet 3 in figure 8.24/2).

Handover Complete

When the MSC-A server receives the Handover Complete message, it informs the MSC-B server about reception of this message. The MSC-A server then initiates call clearing towards the MSC-B server as described in clause 7.3.

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8.1.3.1 MSC-A/MGW-A

Relocation Required Request

When the MSC-A server receives the MAP Prepare Subsequent Handover request containing a Relocation Request Required message, it requests MGW-A to provide a binding reference and a bearer address using the Prepare Bearer procedure. For speech calls, the MSC-A server shall provide the MGW-A with the speech coding information for the bearer. For non-speech calls the MSC-A server shall provide MGW-A with the same PLMN Bearer Capability [4] as was provided at the last access bearer assignment. The MSC-A server uses the Change Flow Direction procedure to request the MGW-A to set the Handover Device to initial state. The MSC-A server sends the Relocation Request message, containing the bearer address and the binding reference, to RNC-B (bullet 1 in figure 8.6/1).

Relocation Command/Relocation Detect

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Relocation Complete

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Handover Complete

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Handover Command/Relocation Detect

When the MSC-A server sends the MAP Prepare Subsequent Handover response Handover Command message or alternatively if it receives a Relocation Detect message, the MSC-A server uses the Change Flow Direction procedure to requests the MGW-A to set the Handover Device to intermediate state (bullet 2 in figure 8.18/2).

Relocation Complete

When the MSC-A server receives a Relocation Complete message, it informs the MSC-B server about reception of this message. MSC-A server then initiates call clearing towards the MSC-B server as described in clause 7.3.

8.4.3 Subsequent Inter-MSC GSM to GSM Handover back to the Anchor MSC

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Handover Complete

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**** FIRST MODIFIED SECTION ****

10 Formats and codes

Table 1 shows the parameters which are required, in addition to those defined in the subclause "Formats and Codes" of ITU—T Recommendation Q.1950 (see 3GPP TS 29.205 [7]).

The coding rules applied in ITU-T Recommendation H.248 [10] for the applicable coding technique shall be followed for the UMTS capability set.

Signal descriptor As for the signal "Activate protocol" in subclause 15.1.2.3 actprot Mode Local control As for the property "UP mode of operation" in subclause 15.1.1.1 As for the property "Upversion" in subclause 15.1.1.1 Version Local control As for the property " Delivery of errounous SDUs" in subclause Value Local control 15.1.1.1 As for the property "Interface" in subclause 15.1.1.1 Interface Local control As for the property "Initialisation Direction" in subclause 15.1.1.1 Initdirection Local control As for the property "PLMN BC" in subclause 15.1.2.1 PLMN bearer capability Local control As for the property " GSM channel coding" in subclause 15.1.2.1 Coding Local control As for the property "TFO activity control" in subclause 15.1.3.1 Tfoenable Local control As for the property" TFO Codec List" in subclause 15.1.3.1 Codeclist Local control Result ObservedEvent As for the ObservedEventDescriptor parameter "Protocol Negotiation descriptor Result" in subclause 15.1.2.2 As for the ObservedEventDescriptor parameter "Protocol Negotiation Cause ObservedEvent Result" in subclause 15.1.2.2 descriptor Rate ObservedEvent As for the ObservedEventDescriptor parameter "Rate Change" in subclause 15.1.2.2 descriptor Optimalcodec ObservedEvent As for the ObservedEventDescriptor parameter "Optimal Codec descriptor Type" in subclause 15.1.3.2 Distlist As for the ObservedEventDescriptor parameter "Distant TFO List" in ObservedEvent descriptor subclause 15.1.3.2 Off / value As for the property "Echo cancelling" in subclause E.13.1 in ITU-T Local control Recommendation H.248 [10] As defined in the subclause "Command error code" in ITU-T Error Error descriptor Recommendation H.248 [10] **Bearer Modification** EventDescriptor As for the EventsDescriptor in "Bearer Modification Support" in Support subclause 15.1.4.2. Bearer modification As for the ObserverdEventDescriptor in "Bearer Modification ObservedEvent

Table 1: Additional parameters required

**** NEXT MODIFIED SECTION ****

Support" in subclause 15.1.4.2.

As for the property" Bitrate" in subclause 15.1.7.1

14.2.4 Establish Bearer

descriptor

Local contro

possible

Bitrate

This procedure is the same as that defined in the subclause "Establish BNC_notify" in ITU-T Recommendation Q.1950 (see 3GPP TS 29.205 [7]) with additions as shown below.

Address Information	Control information	Bearer information
	UP mode = Mode	PLMN bearer capability =
	UP version = version	PLMN capability
	Delivery of erroneous SDUs = value	
	Interface = interface	GSM channel coding = coding
	Initdirerection = initdirection	
	Bitrate = bitrate	
	If indication on Protocol Negotiation Result requested: NotificationRequested (Event ID = x, "Prot Negotiation Result")	
	If indication on Rate Change requested:	
	NotificationRequested (Event ID = x, "RateChange")	

The parameter logical port is not used.

14.2.5 Prepare Bearer

This procedure is the same as that defined in the subclause "Prepare_BNC_notify" in ITU-T Recommendation Q.1950 (see 3GPP TS 29.205 [7]) with additions as shown below:

Address Information	Control information	Bearer information
	UP mode = mode	PLMN bearer capability =
	UP version = version	PLMN capability
	Delivery of erroneous SDUs = value	
	Interface = interface	GSM channel coding = coding
	Initdirerection = initdirection	
	Bitrate = bitrate	
	If indication on Protocol Negotiation Result requested:	
	NotificationRequested (Event ID = x, "Prot Negotiation Result")	
	If indication on Rate Change requested:	
	NotificationRequested (Event ID = x, "RateChange")	
	If indication on Bearer Modification	
	requested:	
	NotificationRequested (Event ID = x ,	
	"Bearer Modification Support")	

The parameter logical port is not used.



14.2.36 Modify Bearer Characteristics

This procedure is the same as that defined in the subclause "Modify Char" in ITU-T Recommendation Q.1950 (see 3GPP TS 29.205 [7]) with additions as shown below.

Address Information	Control information	Bearer information
	If framing protocol used:	If data call:
	UP mode = mode UPversion =version Delivery of erroneous SDUs=value Interface=interface Initdirerection=initdirection	PLMN bearer capbility = PLMN capability GSM channel coding=coding
	Bitrate = bitrate	
	If indication on Protocol Negotiation Result requested: NotificationRequested (Event ID = x, "Prot Negotiation Result")	
	If indication on Rate Change requested: NotificationRequested (Event ID = x, "RateChange")	

**** NEXT MODIFIED SECTION ****

15.1.7 Enhanced Circuit Switched Data package

PackageID: threegcsden (0x00??) [Editor's note: This needs to be registered with IANA]

Version: 1

Extends: threegesd (0x030) Version 1

This package extends "Circuit Switched Data Package", as defined in clause 15.1.2. Thise package adds a new property to define the user bitrate at a Nb/Iu termination.

15.1.7.1 Properties

Bitrate

PropertyID: bitrate (0x0003)

Description: user bitrate

Type: Integer.

Possible Values:

transmission rate in bits per second, rounded to the nearest integer value. The value must be a valid bitrate (e.g. 33 600, 28 800).

Defined in: Local Control Descriptor

Characteristics: Read/Write

15.1.7.2 Events

None

<u>15.1.7.3</u> Signals

None.

15.1.7.4 Statistics

None

15.1.7.5 Procedures

This package is used in addition to the 3GCSD package for CS data calls. It is used for indicating the user data rates for Inter-MSC SRNS Relocation and handover cases. If the Bitrate is not 64kb/s at one termination in the MGW but its opposing termination has properties that define its bitrate to be 64kb/s (e.g. TMR=UDI) then A-TRAU' protocol shall be applied by the MGW. For further details see 3G TS 29.007 [6].

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

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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 ****

10 Formats and codes

actprot

Signal descriptor

EventDescriptor

ObservedEvent

descriptor

Local control

Table 1 shows the parameters which are required, in addition to those defined in the subclause "Formats and Codes" of ITU—T Recommendation Q.1950 (see 3GPP TS 29.205 [7]).

The coding rules applied in ITU-T Recommendation H.248 [10] for the applicable coding technique shall be followed for the UMTS capability set.

Mode Local control As for the property "UP mode of operation" in subclause 15.1.1.1 As for the property "Upversion" in subclause 15.1.1.1 Version Local control As for the property " Delivery of errounous SDUs" in subclause Value Local control 15.1.1.1 As for the property "Interface" in subclause 15.1.1.1 Interface Local control As for the property "Initialisation Direction" in subclause 15.1.1.1 Initdirection Local control As for the property "PLMN BC" in subclause 15.1.2.1 PLMN bearer capability Local control As for the property " GSM channel coding" in subclause 15.1.2.1 Coding Local control As for the property "TFO activity control" in subclause 15.1.3.1 Tfoenable Local control As for the property" TFO Codec List" in subclause 15.1.3.1 Codeclist Local control Result ObservedEvent As for the ObservedEventDescriptor parameter "Protocol Negotiation descriptor Result" in subclause 15.1.2.2 As for the ObservedEventDescriptor parameter "Protocol Negotiation Cause ObservedEvent Result" in subclause 15.1.2.2 descriptor Rate ObservedEvent As for the ObservedEventDescriptor parameter "Rate Change" in subclause 15.1.2.2 descriptor Optimalcodec ObservedEvent As for the ObservedEventDescriptor parameter "Optimal Codec descriptor Type" in subclause 15.1.3.2 Distlist As for the ObservedEventDescriptor parameter "Distant TFO List" in ObservedEvent descriptor subclause 15.1.3.2 Off / value As for the property "Echo cancelling" in subclause E.13.1 in ITU-T Local control Recommendation H.248 [10] As defined in the subclause "Command error code" in ITU-T Error Error descriptor Recommendation H.248 [10]

subclause 15.1.4.2.

Support" in subclause 15.1.4.2.

Table 1: Additional parameters required

As for the signal "Activate protocol" in subclause 15.1.2.3

As for the property" Bitrate" in subclause 15.1.7.1

As for the EventsDescriptor in "Bearer Modification Support" in

As for the ObserverdEventDescriptor in "Bearer Modification

14.2.4 Establish Bearer

Bearer Modification

Bearer modification

Support

possible

Bitrate

This procedure is the same as that defined in the subclause "Establish BNC_notify" in ITU-T Recommendation Q.1950 (see 3GPP TS 29.205 [7]) with additions as shown below.

Address Information	Control information	Bearer information
	UP mode = Mode	PLMN bearer capability =
	UP version = version	PLMN capability
	Delivery of erroneous SDUs = value	
	Interface = interface	GSM channel coding = coding
	Initdirerection = initdirection	
	Bitrate = bitrate	
	If indication on Protocol Negotiation Result requested: NotificationRequested (Event ID = x, "Prot Negotiation Result")	
	If indication on Rate Change requested:	
	NotificationRequested (Event ID = x, "RateChange")	

The parameter logical port is not used.

14.2.5 Prepare Bearer

This procedure is the same as that defined in the subclause "Prepare_BNC_notify" in ITU-T Recommendation Q.1950 (see 3GPP TS 29.205 [7]) with additions as shown below:

Address Information	Control information	Bearer information
	UP mode = mode	PLMN bearer capability =
	UP version = version	PLMN capability
	Delivery of erroneous SDUs = value	
	Interface = interface	GSM channel coding = coding
	Initdirerection = initdirection	
	Bitrate = bitrate	
	If indication on Protocol Negotiation Result requested:	
	NotificationRequested (Event ID = x, "Prot Negotiation Result")	
	If indication on Rate Change requested:	
	NotificationRequested (Event ID = x, "RateChange")	
	If indication on Bearer Modification	
	requested:	
	NotificationRequested (Event ID = x ,	
	"Bearer Modification Support")	

The parameter logical port is not used.



14.2.36 Modify Bearer Characteristics

This procedure is the same as that defined in the subclause "Modify Char" in ITU-T Recommendation Q.1950 (see 3GPP TS 29.205 [7]) with additions as shown below.

Address Information	Control information	Bearer information
	If framing protocol used:	If data call:
	UP mode = mode UPversion =version Delivery of erroneous SDUs=value Interface=interface Initdirerection=initdirection	PLMN bearer capbility = PLMN capability GSM channel coding=coding
	Bitrate = bitrate	
	If indication on Protocol Negotiation Result requested: NotificationRequested (Event ID = x, "Prot Negotiation Result")	
	If indication on Rate Change requested: NotificationRequested (Event ID = x, "RateChange")	

**** NEXT MODIFIED SECTION ****

15.1.7 Enhanced Circuit Switched Data package

PackageID: threegcsden (0x00??) [Editor's note: This needs to be registered with IANA]

Version: 1

Extends: threegesd (0x030) Version 1

This package extends "Circuit Switched Data Package", as defined in clause 15.1.2. Thise package adds a new property to define the user bitrate at a Nb/Iu termination.

15.1.7.1 Properties

Bitrate

PropertyID: bitrate (0x0003)

Description: user bitrate

Type: Integer.

Possible Values:

transmission rate in bits per second, rounded to the nearest integer value. The value must be a valid bitrate (e.g. 33 600, 28 800).

Defined in: Local Control Descriptor

Characteristics: Read/Write

15.1.7.2 Events

None

<u>15.1.7.3</u> Signals

None.

15.1.7.4 Statistics

None

15.1.7.5 Procedures

This package is used in addition to the 3GCSD package for CS data calls. It is used for indicating the user data rates for Inter-MSC SRNS Relocation and handover cases. If the Bitrate is not 64kb/s at one termination in the MGW but its opposing termination has properties that define its bitrate to be 64kb/s (e.g. TMR=UDI) then A-TRAU' protocol shall be applied by the MGW. For further details see 3G TS 29.007 [6].