

**3GPP TSG CN Plenary Meeting #25**  
**8<sup>th</sup> – 10<sup>th</sup> August 2004 Palm Springs, US.**

**NP-040400**

**Source:** TSG CN WG4  
**Title:** Corrections on TEI5 cause code mapping  
**Agenda item:** 8.8  
**Document for:** APPROVAL

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<b>Spec</b>	<b>CR</b>	<b>Rev</b>	<b>Doc-2nd-Level N4-040</b>	<b>Phase</b>	<b>Subject</b>	<b>Cat</b>	<b>Ver_C</b>
29.010	109		1196	Rel-5	Addition of cause code mapping for inter-system handover	F	5.6.0
29.010	110		1197	Rel-6	Addition of cause code mapping for inter-system handover	A	6.3.0

## CHANGE REQUEST

⌘ **29.010 CR 109** ⌘ rev **-** ⌘ Current version: **5.6.0** ⌘

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

<b>Title:</b>	⌘ Addition of cause code mapping for inter-system handover		
<b>Source:</b>	⌘ CN4		
<b>Work item code:</b>	⌘ TEI5	<b>Date:</b>	⌘ 19/08/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-5
	<i>Use one of the following categories:</i> <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		<i>Use one of the following releases:</i> <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	⌘ RAN3 and GERAN2 added a new cause code to the handover and relocation procedure. The change aligns the cause mapping in TS 29.010 with TS 25.413 and TS 48.008 <b>This is an essential correction</b>
<b>Summary of change:</b>	⌘ The cause mapping "Traffic Load in target cell higher than in source cell" is added to the section 4.6.6 and 4.7.6
<b>Consequences if not approved:</b>	⌘ Inconsistent specifications – with no specified mapping between the GERAN and UTRAN cause codes resulting in potentially differing implementation of the cause code mapping and inconsistent network behaviour.

<b>Clauses affected:</b>	⌘ 4.6.6 & 4.7.6										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘ TS 25.413-680	
Y	N										
X											
	X										
	X										
<b>Other comments:</b>	⌘										

**How to create CRs using this form:**

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- 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 modification

### 4.6.6 Cause Code Mapping

When a Mobile Station is handed over between UMTS and GSM, a mapping of the cause codes used in the RANAP and the BSSMAP protocols is needed. The mapping described here is applicable to the BSSMAP protocol even when used inside MAP in the E-interface.

The mapping between the cause codes received in RANAP Relocation Required and the cause codes sent in BSSMAP Handover Request is as follows:

25.413	48.008	Notes
RELOCATION REQUIRED	HANDOVER REQUEST	
-Time critical relocation	-'uplink quality'	
-Resource optimisation relocation	-Traffic	
-Relocation desirable for radio reasons	-Better cell	
-Directed retry	-Directed retry	
-Reduce Load in serving cell	-Reduce Load in serving cell	
-Any other value	-Better cell	

used at inter-system handover.

The mapping between the cause codes received in RANAP Relocation Cancel and the cause codes sent in BSSMAP Clear Command is as follows:

25.413	48.008	Notes
RELOCATION CANCEL	CLEAR COMMAND	
-Trellocprepexpiry	-Radio interface failure, reversion to old channel	
-Interaction with other procedure	-Radio interface failure, reversion to old channel	
-Any other value	-Radio interface failure, reversion to old channel	

The mapping between the cause codes received in BSSMAP Handover Failure and the cause codes sent in RANAP Relocation Preparation Failure is as follows:

48.008	25.413	Notes
HANDOVER FAILURE	RELOCATION PREP. FAILURE	
-Ciphering algorithm not supported	-Requested ciphering and/or integrity protection is not supported	
-Circuit pool mismatch	-Relocation failure in Target CN/RNC or target system	1
-Equipment failure	-Relocation failure in Target CN/RNC or target system	
-Invalid message contents	-Abstract Syntax Error	
-No radio resource available	-Relocation failure in Target CN/RNC or target system	
-O and M intervention	-O and M intervention	2
-Radio interface failure, reversion to old channel	-Relocation failure in Target CN/RNC or target system	
-Radio interface message failure	-Relocation failure in Target CN/RNC or target system	
-Requested speech version unavailable	-Relocation failure in Target CN/RNC or target system	
-Requested terrestrial resource unavailable	-Relocation failure in Target CN/RNC or target system	
-Requested transcoding/rate adaption unavailable	-Relocation failure in Target CN/RNC or target system	
-Switch circuit pool	-Relocation failure in Target CN/RNC or target system	1
-Terrestrial circuit already allocated	-Relocation failure in Target CN/RNC or target system	
<del>-Traffic load in the target cell higher than in the source cell</del>	<del>-Traffic load in the target cell higher than in the source cell</del>	
<del>-Any other value</del>	<del>-Relocation failure in Target CN/RNC or target system</del>	

NOTE 1: Cause code not used at inter-system handover.

NOTE 2: Cause code not applicable to this traffic case.

## Next modification

### 4.7.6 Cause Code Mapping

When a Mobile Station is handed over between GSM and UMTS, a mapping of the cause codes used in the BSSMAP and the RANAP protocols is needed. The mapping described here is applicable to the BSSMAP protocol even when used inside MAP in the E-interface.

The mapping between the cause codes received in BSSMAP Handover Required and the cause codes sent in RANAP Relocation Request is as follows:

48.008	25.413	Notes
HANDOVER REQUIRED	RELOCATION REQUEST	
-Better Cell	-Relocation Desirable for Radio Reasons	
-Directed retry	-Directed retry	
-Distance	-Time critical reloc.	
-Downlink quality	-Time critical reloc.	
-Downlink strength	-Time critical reloc.	
-O and M intervention	-O and M intervention	
-Preemption	-RAB pre-empted	
-Response to MSC invocation	-Network Optimisation	1
-Switch circuit pool	-Resource Optimisation Relocation	
-Traffic	-Time critical reloc.	
-Uplink quality	-Time critical reloc.	
-Uplink strength	-Reduce Load in serving cell	
-Reduce Load in serving cell	-Relocation Desirable For Radio Reasons	
-Any other value		

NOTE 1: Cause code not used at inter-system handover.

The mapping between the cause codes received in BSSMAP Handover Request and the cause codes sent in RANAP Relocation Request is as follows (the mapping is only used for the MAP-E interface):

48.008	25.413	Notes
HANDOVER REQUEST	RELOCATION REQUEST	
-Better Cell	-Relocation Desirable for Radio Reasons	
-Directed retry	- Directed retry	
-Distance	-Time critical reloc.	
-Downlink quality	-Time critical reloc.	
-Downlink strength	-Time critical reloc.	
-O and M intervention	-O and M intervention	
-Preemption	-RAB pre-empted	
-Response to MSC invocation	-Network Optimisation	1
-Switch circuit pool	-Resource Optimisation Relocation	
-Traffic	-Time critical reloc.	
-Uplink quality	-Time critical reloc.	
-Uplink strength	-Reduce Load in serving cell	
-Reduce Load in serving cell	-Relocation Desirable For Radio Reasons	
-Any other value		

NOTE 1: Cause code not used at inter-system handover.

The mapping between the cause codes received in BSSMAP Handover Failure and the cause codes sent in RANAP Iu Release Command is as follows:

48.008	25.413	Notes
HANDOVER FAILURE	IU RELEASE COMMAND	
-Ciphering algorithm not supported		2
-Circuit pool mismatch		1
-Equipment failure	-Relocation cancelled	
-Invalid message contents	-Abstract Syntax Error	
-No radio resource available		2
-O and M intervention	-O and M intervention	
-Radio interface failure, reversion to old channel	-Relocation cancelled	
-Radio interface message failure	-Relocation cancelled	
-Requested speech version unavailable		2
-Requested terrestrial resource unavailable		2
-Requested transcoding/rate adaption unavailable		2
-Switch circuit pool		1
-Terrestrial circuit already allocated	-Relocation cancelled	
-Any other value	-Relocation cancelled	

NOTE 1: Cause code not used at inter-system handover.

NOTE 2: Cause code not applicable to this traffic case.

The mapping between the cause codes received in RANAP Relocation Failure and the cause codes sent in BSSMAP Handover Failure is as follows (this mapping is only used for the MAP-E interface):

25.413	48.008	Notes
RELOCATION FAILURE	HANDOVER FAILURE	
-GERAN Iu-mode failure	-GERAN Iu-mode failure	
-Traffic load in the target cell higher than in the source cell	-Traffic load in the target cell higher than in the source cell	
-Any other value	-No radio resource available	

The mapping between the cause codes received in RANAP Relocation Failure and the cause codes sent in BSSMAP Handover Required Reject is as follows:

25.413	48.008	Notes
RELOCATION FAILURE	HANDOVER REQUIRED REJECT	
-GERAN Iu-mode failure	-GERAN Iu-mode failure	
-Incoming Relocation Not Supported Due To PUESBINE Feature	-Incoming Relocation Not Supported Due To PUESBINE Feature	
-Traffic load in the target cell higher than in the source cell	-Traffic load in the target cell higher than in the source cell	
-Any other value	-No radio resource available	

The mapping between the RANAP and the BSSMAP assignment messages is used in the MAP-E interface. RANAP RAB Assignment Response with successful result is mapped to BSSMAP Assignment Complete; RANAP RAB Assignment Response with unsuccessful result is mapped to BSSMAP Assignment Failure. The mapping between the cause codes received in RANAP RAB Assignment Response and the cause codes sent in BSSMAP Assignment Failure is as follows (this mapping is only used for the MAP-E interface):

25.413	48.008	Notes
RAB ASSIGNMENT RESPONSE	ASSIGNMENT FAILURE	
-Requested traffic class not available	-No radio resource available	
-Invalid RAB parameters value	-Invalid msg. contents	
-Requested max bit rate not available	-No radio resource available	
-Requested max bit rate for DL not available	-No radio resource available	
-Requested max bit rate for UL not available	-No radio resource available	
-Requested guaranteed bit rate not available	-No radio resource available	
-Requested guaranteed bit rate for DL not available	-No radio resource available	
-Requested guaranteed bit rate for UL not available	-No radio resource available	
-Requested transfer delay not achievable	-No radio resource available	
-Invalid RAB param. combination	-Invalid msg. contents	
-Condition violation for SDU parameters	-Invalid msg. contents	
-Condition violation for traffic handling priority	-Invalid msg. contents	
-Condition violation for guaranteed bit rate	-Invalid msg. contents	
-User plane not supported	-No radio resource available	
-Iu UP failure	-Equipment failure	
-Tqueuing expiry	-Radio interface message failure	
-Invalid RAB id	-Invalid msg. contents	
-Request superseded	-No radio resource available	
-Relocation triggered	-Relocation triggered	
-GERAN Iu-mode failure	-GERAN Iu-mode failure	
-Any other value	-Radio interface message failure	

The mapping between the cause codes received in RANAP Security Mode Reject and the cause codes sent in BSSMAP Cipher Mode Reject is as follows (this mapping is only used for the MAP-E interface):

25.413	48.008	Notes
SECURITY MODE REJECT	CIPHER MODE REJECT	
-Requested ciphering and/or integrity protection algorithms not supported	-Ciphering algorithm not supported	
-Failure in the radio interface procedure	-Radio interface message failure	
-Change of ciphering and/or integrity protection is not supported	-Invalid msg. contents	
-Relocation triggered	-Relocation triggered	
-Any other value	-Radio interface message failure	

The mapping between the cause codes received in RANAP Location Report and the cause codes sent in BSSMAP Handover Performed is as follows (this mapping is only used for the MAP-E interface):



25.413	48.008	Notes
LOCATION REPORT	HANDOVER PERFORMED	
-User restriction start ind.	-O&M intervention	
-User restriction start ind.	-O&M intervention	
-Requested report type not supported		1
-Any other value	-Better cell	

NOTE 1: In this case, no Handover Performed is sent.

## CHANGE REQUEST

⌘ **29.010 CR 110** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

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<b>Reason for change:</b>	⌘ RAN3 and GERAN2 added a new cause code to the handover and relocation procedure. The change aligns the cause mapping in TS 29.010 with TS 25.413 and TS 48.008
<b>Summary of change:</b>	⌘ The cause mapping "Traffic Load in target cell higher than in source cell" is added to the section 4.6.6 and 4.7.6
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Y	N										
X											
	X										
	X										
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The mapping between the cause codes received in RANAP Relocation Required and the cause codes sent in BSSMAP Handover Request is as follows:

25.413	48.008	Notes
RELOCATION REQUIRED	HANDOVER REQUEST	
-Time critical relocation	-'uplink quality'	
-Resource optimisation relocation	-Traffic	
-Relocation desirable for radio reasons	-Better cell	
-Directed retry	-Directed retry	
-Reduce Load in serving cell	-Reduce Load in serving cell	
-Any other value	-Better cell	

The mapping between the cause codes received in RANAP Relocation Cancel and the cause codes sent in BSSMAP Clear Command is as follows:

25.413	48.008	Notes
RELOCATION CANCEL	CLEAR COMMAND	
-Trellocprepexpiry	-Radio interface failure, reversion to old channel	
-Interaction with other procedure	-Radio interface failure, reversion to old channel	
-Any other value	-Radio interface failure, reversion to old channel	

The mapping between the cause codes received in BSSMAP Handover Failure and the cause codes sent in RANAP Relocation Preparation Failure is as follows:

48.008	25.413	Notes
HANDOVER FAILURE	RELOCATION PREP. FAILURE	
-Ciphering algorithm not supported	-Requested ciphering and/or integrity protection is not supported	
-Circuit pool mismatch	-Relocation failure in Target CN/RNC or target system	1
-Equipment failure	-Relocation failure in Target CN/RNC or target system	
-Invalid message contents	-Abstract Syntax Error	
-No radio resource available	-Relocation failure in Target CN/RNC or target system	
-O and M intervention	-O and M intervention	2
-Radio interface failure, reversion to old channel	-Relocation failure in Target CN/RNC or target system	
-Radio interface message failure	-Relocation failure in Target CN/RNC or target system	
-Requested speech version unavailable	-Relocation failure in Target CN/RNC or target system	
-Requested terrestrial resource unavailable	-Relocation failure in Target CN/RNC or target system	
-Requested transcoding/rate adaption unavailable	-Relocation failure in Target CN/RNC or target system	
-Switch circuit pool	-Relocation failure in Target CN/RNC or target system	1
-Terrestrial circuit already allocated	-Relocation failure in Target CN/RNC or target system	
<del>-Traffic load in the target cell higher than in the source cell</del>	<del>-Traffic load in the target cell higher than in the source cell</del>	
<del>-Any other value</del>	<del>-Relocation failure in Target CN/RNC or target system</del>	

NOTE 1: Cause code not used at inter-system handover.

NOTE 2: Cause code not applicable to this traffic case.

The mapping between the cause codes received in BSSMAP Clear Request and the cause codes sent in RANAP Iu Release Request is as follows:

48.008	25.413	Notes
CLEAR REQUEST	IU RELEASE REQUEST	
-Radio interface message failure	-Relocation failure in Target CN/RNC or target system	
-O and M intervention	-O and M intervention	
-Equipment failure	-Relocation failure in Target CN/RNC or target system	
-Joined group call channel	-Unspecified failure	
-Protocol failure between BSS and MSC	-Message not compatible with receiver state	
-Preemption	-RAB pre-empted	
-Access restricted due to shared networks	-Access restricted due to shared networks	
-Any other value	-Relocation failure in Target CN/RNC or target system	

## Next modification

### 4.7.6 Cause Code Mapping

When a Mobile Station is handed over between GSM and UMTS, a mapping of the cause codes used in the BSSMAP and the RANAP protocols is needed. The mapping described here is applicable to the BSSMAP protocol even when used inside MAP in the E-interface.

The mapping between the cause codes received in BSSMAP Handover Required and the cause codes sent in RANAP Relocation Request is as follows:

48.008	25.413	Notes
HANDOVER REQUIRED	RELOCATION REQUEST	
-Better Cell	-Relocation Desirable for Radio Reasons	
-Directed retry	-Directed retry	
-Distance	-Time critical reloc.	
-Downlink quality	-Time critical reloc.	
-Downlink strength	-Time critical reloc.	
-O and M intervention	-O and M intervention	
-Preemption	-RAB pre-empted	
-Response to MSC invocation	-Network Optimisation	1
-Switch circuit pool	-Resource Optimisation Relocation	
-Traffic	-Time critical reloc.	
-Uplink quality	-Time critical reloc.	
-Uplink strength	-Reduce Load in serving cell	
-Reduce Load in serving cell	-Relocation Desirable For Radio Reasons	
-Any other value		

NOTE 1: Cause code not used at inter-system handover.

The mapping between the cause codes received in BSSMAP Handover Request and the cause codes sent in RANAP Relocation Request is as follows (the mapping is only used for the MAP-E interface):

48.008	25.413	Notes
HANDOVER REQUEST	RELOCATION REQUEST	
-Better Cell	-Relocation Desirable for Radio Reasons	
-Directed retry	- Directed retry	
-Distance	-Time critical reloc.	
-Downlink quality	-Time critical reloc.	
-Downlink strength	-Time critical reloc.	
-O and M intervention	-O and M intervention	
-Preemption	-RAB pre-empted	
-Response to MSC invocation	-Network Optimisation	1
-Switch circuit pool	-Resource Optimisation Relocation	
-Traffic	-Time critical reloc.	
-Uplink quality	-Time critical reloc.	
-Uplink strength	-Reduce Load in serving cell	
-Reduce Load in serving cell	-Relocation Desirable For Radio Reasons	
-Any other value		

NOTE 1: Cause code not used at inter-system handover.

The mapping between the cause codes received in BSSMAP Handover Failure and the cause codes sent in RANAP Iu Release Command is as follows:

48.008	25.413	Notes
HANDOVER FAILURE	IU RELEASE COMMAND	
-Ciphering algorithm not supported		2
-Circuit pool mismatch		1
-Equipment failure	-Relocation cancelled	
-Invalid message contents	-Abstract Syntax Error	
-No radio resource available		2
-O and M intervention	-O and M intervention	
-Radio interface failure, reversion to old channel	-Relocation cancelled	
-Radio interface message failure	-Relocation cancelled	
-Requested speech version unavailable		2
-Requested terrestrial resource unavailable		2
-Requested transcoding/rate adaption unavailable		2
-Switch circuit pool		1
-Terrestrial circuit already allocated	-Relocation cancelled	
-Any other value	-Relocation cancelled	

NOTE 1: Cause code not used at inter-system handover.

NOTE 2: Cause code not applicable to this traffic case.

The mapping between the cause codes received in RANAP Relocation Failure and the cause codes sent in BSSMAP Handover Failure is as follows (this mapping is only used for the MAP-E interface):

25.413	48.008	Notes
RELOCATION FAILURE	HANDOVER FAILURE	
-GERAN Iu-mode failure	-GERAN Iu-mode failure	
-Traffic load in the target cell higher than in the source cell	-Traffic load in the target cell higher than in the source cell	
-Any other value	-No radio resource available	

The mapping between the cause codes received in RANAP Relocation Failure and the cause codes sent in BSSMAP Handover Required Reject is as follows:

25.413	48.008	Notes
RELOCATION FAILURE	HANDOVER REQUIRED REJECT	
-GERAN Iu-mode failure	-GERAN Iu-mode failure	
-Incoming Relocation Not Supported Due To PUESBINE Feature	-Incoming Relocation Not Supported Due To PUESBINE Feature	
-Traffic load in the target cell higher than in the source cell	-Traffic load in the target cell higher than in the source cell	
-Any other value	-No radio resource available	

The mapping between the RANAP and the BSSMAP assignment messages is used in the MAP-E interface. RANAP RAB Assignment Response with successful result is mapped to BSSMAP Assignment Complete; RANAP RAB Assignment Response with unsuccessful result is mapped to BSSMAP Assignment Failure. The mapping between the cause codes received in RANAP RAB Assignment Response and the cause codes sent in BSSMAP Assignment Failure is as follows (this mapping is only used for the MAP-E interface):

25.413	48.008	Notes
RAB ASSIGNMENT RESPONSE	ASSIGNMENT FAILURE	
-Requested traffic class not available	-No radio resource available	
-Invalid RAB parameters value	-Invalid msg. contents	
-Requested max bit rate not available	-No radio resource available	
-Requested max bit rate for DL not available	-No radio resource available	
-Requested max bit rate for UL not available	-No radio resource available	
-Requested guaranteed bit rate not available	-No radio resource available	
-Requested guaranteed bit rate for DL not available	-No radio resource available	
-Requested guaranteed bit rate for UL not available	-No radio resource available	
-Requested transfer delay not achievable	-No radio resource available	
-Invalid RAB param. combination	-Invalid msg. contents	
-Condition violation for SDU parameters	-Invalid msg. contents	
-Condition violation for traffic handling priority	-Invalid msg. contents	
-Condition violation for guaranteed bit rate	-Invalid msg. contents	
-User plane not supported	-No radio resource available	
-Iu UP failure	-Equipment failure	
-Tqueuing expiry	-Radio interface message failure	
-Invalid RAB id	-Invalid msg. contents	
-Request superseded	-No radio resource available	
-Relocation triggered	-Relocation triggered	
-GERAN Iu-mode failure	-GERAN Iu-mode failure	
-Any other value	-Radio interface message failure	

The mapping between the cause codes received in RANAP Security Mode Reject and the cause codes sent in BSSMAP Cipher Mode Reject is as follows (this mapping is only used for the MAP-E interface):

25.413	48.008	Notes
SECURITY MODE REJECT	CIPHER MODE REJECT	
-Requested ciphering and/or integrity protection algorithms not supported	-Ciphering algorithm not supported	
-Failure in the radio interface procedure	-Radio interface message failure	
-Change of ciphering and/or integrity protection is not supported	-Invalid msg. contents	
-Relocation triggered	-Relocation triggered	
-Any other value	-Radio interface message failure	

The mapping between the cause codes received in RANAP Location Report and the cause codes sent in BSSMAP Handover Performed is as follows (this mapping is only used for the MAP-E interface):



25.413	48.008	Notes
LOCATION REPORT	HANDOVER PERFORMED	
-User restriction start ind.	-O&M intervention	
-User restriction start ind.	-O&M intervention	
-Requested report type not supported		1
-Any other value	-Better cell	

NOTE 1: In this case, no Handover Performed is sent.

The mapping between the cause codes received in RANAP Iu Release Request and the cause codes sent in BSSMAP Clear Request is as follows:

25.413	48.008	Notes
IU RELEASE REQUEST	CLEAR REQUEST	
-O and M intervention	-O and M intervention	
-Unspecified failure	-Equipment failure	
-Repeated integrity checking failure	-Invalid message contents	
-Release due to UE generated signalling connection release	-Call control	
-Radio connection with UE lost	-Radio interface failure	
-Access restricted due to shared networks	-Access restricted due to shared networks	
-Any other value	-No radio resource available	