

Source: SA1
Title: CRs to 22.041 on Operator Determined Barring – Zonal Barring
Document for: Approval
Agenda Item: 7.1.3

Spec	CR	Re v	Phas e	Subject	Cat	Versio n- Curren t	Versio n-New
22.041	007		R99	CR on Operator Determined Barring – Zonal Barring to 3GPP TSG SA WG1	F	3.1.0	3.2.0
22.041	008		Rel-4	CR on Operator Determined Barring – Zonal Barring to 3GPP TSG SA WG1	A	4.0.0	4.1.0

CR-Form-v3

CHANGE REQUEST

⌘ **TS 22.041** **CR** **007** ⌘ rev **-** ⌘ Current version: **3.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Definition of Zone		
Source:	⌘ SA1		
Work item code:	⌘ TEI	Date:	⌘ 6 th February 2001
Category:	⌘ F	Release:	⌘ REL-99
Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	
Detailed explanations of the above categories can be found in 3GPP TR 21.900.			

Reason for change:	⌘ GSM A SERG recommend that zones should be defined based on the international dialling plan.
Summary of change:	⌘ The definition of Zone is modified.
Consequences if not approved:	⌘

Clauses affected:	⌘ 5.1		
Other specs Affected:	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> 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/3G_Specs/CRs.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://www.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

5 Normal procedure

5.1 Circuit Oriented Services

As described in the following categories, the Service Provider may at any time activate this feature and this shall terminate any relevant calls in progress, including forwarded calls, and bar future calls covered by the barring category:

Independently, one of:

1.1 Barring outgoing calls;

or: 1.2 Barring outgoing international calls;

or: 1.3 Barring outgoing international calls except those directed to the home PLMN country;

or: 1.4 Barring of outgoing calls when roaming outside the home PLMN country;

or: 1.5 Barring of outgoing inter-zonal calls;

or: 1.6 Barring of outgoing inter-zonal calls except those directed to the home PLMN country;

or: 1.7 Barring of outgoing international calls except those directed to the home PLMN country AND barring of outgoing inter-zonal calls.

and/or one of:

2.1 Barring incoming calls;

or: 2.2 Barring incoming calls when roaming outside the home PLMN country;

or: 2.3 Barring incoming calls when roaming outside the zone of the home PLMN country.

and/or one of:

3.1 Barring of Roaming outside the home PLMN;

or: 3.2 Barring of Roaming outside the home PLMN country.

and/or one or both of:

4.1 Barring of outgoing Premium Rate Calls (Information);

4.2 Barring of outgoing Premium Rate Calls (Entertainment).

and/or one or more of:

5.1 When registered in the HPLMN, Operator Specific Barring (Type 1);

or: 5.2 When registered in the HPLMN, Operator Specific Barring (Type 2);

or: 5.3 When registered in the HPLMN, Operator Specific Barring (Type 3);

or: 5.4 When registered in the HPLMN, Operator Specific Barring (Type 4).

and/or

6.1 Barring of Supplementary Services Management, which prevents user control of any supplementary service (registration, erasure, activation, deactivation, user invocation, interrogation, password registration and mobile initiated USSD). However, this does not prevent invocation by other action - e.g. an existing call forwarding or barring state will remain.

and/or one of:

7.1 Barring of registration of any call forwarded-to number;

or: 7.2 Barring of registration of any international call forwarded-to number;

or: 7.3 Barring or registration of any international call forwarded-to number except to a number within the HPLMN country;

or: 7.4 Barring of registration of any inter-zone call forwarded-to number.

or: 7.5 Barring of registration of any inter-zone call forwarded-to number except to a number within the HPLMN country;

NOTE: The definition of an international call is based on the equivalent definition of an international call in TS 22.088 [2]. The principles for deciding whether a forwarded-to number is international or inter-zonal are the same as those given in TS 22.082 [4] to determine the interactions between call forwarding and call barring.

and/or one of:

8.1 Barring of invocation of call transfer;

or: 8.2 Barring of invocation of call transfer where at least one of the two calls is a call charged to the served subscriber; i.e. the call is either an outgoing call or an incoming call when the served subscriber roams outside the HPLMN;

or: 8.3 Barring of invocation of call transfer where at least one of the two calls is a call charged to the served subscriber at international rates, i.e. the call is either an outgoing international call or an incoming call when the served subscriber roams outside the HPLMN country;

or: 8.4 Barring of invocation of call transfer where at least one of the two calls is a call charged to the served subscriber at inter-zonal rates, i.e. the call is either an outgoing inter-zonal call or an incoming call when the served subscriber roams to a VPLMN in a different zone from the HPLMN.

and/or:

9 Barring of invocation of call transfer where both calls are calls charged to the served subscriber, i.e. both calls are either outgoing calls or incoming calls when the served subscriber roams outside the HPLMN;

and/or:

10 Barring of further invocation of call transfer if there is already one ongoing transferred call for the served subscriber in the serving MSC/VLR.

"User invocation", as it relates to ODB, consists of the following action:

- invocation of the call hold supplementary service.

"Zone" is based on the first digit of their international dialing code as defined in ITU-T Recommendation E.164 [3].

NOTE: For the purposes of this TS, zone 3 and zone 4 are treated as one zone.

NOTE: If control of Supplementary Services Management is barred, then the control of call forward will be barred as a consequence, so explicit barring of call forward activation is not necessary.

If a mobile subscriber attempts to use a mobile initiated service which is barred as described above (categories 1, 4, 5, 6, 7, 8, 9, and 10), an appropriate message shall be returned to the Mobile Station or alternatively (categories 1, 4, and 5), if located in the HPLMN, the mobile subscriber can be automatically connected to a destination address determined by the HPLMN operator. It is necessary for the message to indicate that the barring is due to Operator Determined Barring. It is not necessary to indicate the categories which are barred. For ongoing, or transferred calls, that are terminated due to ODB, the network operator may give an appropriate indication to the barred party.

A notification (announcement or ITU-T#7 cause value) may be returned to callers attempting to call a mobile subscriber who is appropriately barred incoming calls. It is not necessary to indicate to the called mobile station that an incoming call has been barred.

Only the HPLMN Operator can activate, change or deactivate application of this network feature.

In order to provide this feature securely when a subscriber roams to another network, the visited network needs to support the feature to ensure that the roaming subscriber cannot use a service which has been barred to him.

CR-Form-v3

CHANGE REQUEST

⌘ **TS 22.041** **CR** **008** ⌘ 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: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Definition of Zone		
Source:	⌘ SA1		
Work item code:	⌘ TEI	Date:	⌘ 6 th February 2001
Category:	⌘ A	Release:	⌘ REL-04
Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	
Detailed explanations of the above categories can be found in 3GPP TR 21.900.			

Reason for change:	⌘ GSM A SERG recommend that zones should be defined based on the international dialling plan.
Summary of change:	⌘ The definition of Zone is modified.
Consequences if not approved:	⌘

Clauses affected:	⌘ 5.1
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications ⌘ <input type="checkbox"/> O&M Specifications ⌘
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Independently, one of:

- 1.1 Barring outgoing calls;
- or: 1.2 Barring outgoing international calls;
- or: 1.3 Barring outgoing international calls except those directed to the home PLMN country;
- or: 1.4 Barring of outgoing calls when roaming outside the home PLMN country;
- or: 1.5 Barring of outgoing inter-zonal calls;
- or: 1.6 Barring of outgoing inter-zonal calls except those directed to the home PLMN country;
- or: 1.7 Barring of outgoing international calls except those directed to the home PLMN country AND barring of outgoing inter-zonal calls.

and/or one of:

- 2.1 Barring incoming calls;
- or: 2.2 Barring incoming calls when roaming outside the home PLMN country;
- or: 2.3 Barring incoming calls when roaming outside the zone of the home PLMN country.

and/or one of:

- 3.1 Barring of Roaming outside the home PLMN;
- or: 3.2 Barring of Roaming outside the home PLMN country.

and/or one or both of:

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and/or one or more of:

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- or: 5.4 When registered in the HPLMN, Operator Specific Barring (Type 4).

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or: 8.4 Barring of invocation of call transfer where at least one of the two calls is a call charged to the served subscriber at inter-zonal rates, i.e. the call is either an outgoing inter-zonal call or an incoming call when the served subscriber roams to a VPLMN in a different zone from the HPLMN.

and/or:

9 Barring of invocation of call transfer where both calls are calls charged to the served subscriber, i.e. both calls are either outgoing calls or incoming calls when the served subscriber roams outside the HPLMN;

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