

Source: SA1

Title: CRs to 22.101 Rel-4 and Rel-5 on Clarification of PLMN Name Indication and Service Provider Name Indication feature.

Document for: Approval

Agenda Item: 7.1.3

Spec	CR	Rev	Phase	Cat	Subject	Version-Current	Version-New	Doc-2nd-Level
22.101	079		Rel-4	F	Clarification of PLMN Name Indication and Service Provider Name Indication feature.	4.3.0	4.4.0	S1-010594
22.101	080		Rel-5	A	Clarification of PLMN Name Indication and Service Provider Name Indication feature.	5.2.0	5.3.0	S1-010595

TSG-SA WG 1 (Services) meeting #12
 3GPP T3 Meeting #19
 St John, US VI, 8 - 11 May, 2001

TSG S1 (01) 0594
 Tdoc T3-010407

TSG-SA WG 1 (Services) meeting #12
 Helsinki, Finland, 7-11 May 2001

TSG S1 (01) 0587
 Agenda Item: 6.2.8

CR-Form-v3	
CHANGE REQUEST	
⌘ 22.101 CR 079 ⌘ rev - ⌘	Current version: 4.3.0 ⌘

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:	⌘ Clarification of PLMN Name Indication and Service Provider Name Indication feature.		
Source:	⌘ SA1		
Work item code:	⌘ SPNAME	Date:	⌘ 11 May 2001
Category:	⌘ F	Release:	⌘ Rel-4
	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) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		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)

Reason for change:	⌘ The description of Service Provider Name Indication is misleading. Clarification of conditions for display of service provider name and HPLMN name.
Summary of change:	⌘ Text to allow at least 10 PLMN Identifications to be associated with one PLMN name moved to PLMN Name section. Text to allow at least 10 PLMN Identifications to be associated with one SP name. Rules for display of SP name and PLMN name clarified.
Consequences if not approved:	⌘ Ambiguous requirement, possibly leading to incorrect implementation.

Clauses affected:	⌘ Annex A.3		
Other specs affected:	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	31.102
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.

A.3 Country/PLMN indication

The country/PLMN indicator shows in which PLMN the UE is currently registered. This indicator is necessary so that the user knows when “roaming” is taking place and that the choice of PLMN is correct. Both the country and PLMN will be indicated. When more than one visited PLMN is available in a given area such information will be indicated.

The PLMN name is either:

- stored in the ME and associated with the MCC+MNC combination received on the broadcast channel;
- NITZ (see 22.042 [17]) (in which case it overrides the name stored in the UE);
- stored in the USIM and associated with the MCC+MNC combination, and optionally the LAI, received on the broadcast channel (in which case it overrides the name stored in the UE and – if present – the NITZ name).

It shall be possible to store on the SIM/USIM at least 10 PLMN Identifications (MCC+MNC combination and optionally the LAI) for which the same PLMN name shall be displayed.

The PLMN name stored in the USIM has the highest priority, followed by the PLMN name provided by NITZ. The PLMN name stored in the ME has the lowest priority.

A.43.1 Service Provider Name indication

~~When the UE is in idle mode and the broadcasted network identification is identical to the respective entry on the USIM, the UE shall display the service provider name.~~ The service provider name is stored in the SIM/USIM in text and/or optionally graphic format. It shall be possible to associate at least 10 PLMN Identifications (MCC+MNC combination and optionally the LAI) with the same SP Name. If there is no association between PLMN Identifications and SP Name, one SP Name shall be used for all PLMN Identifications. These PLMN Identifications may be different from those used for PLMN Name display described above.

When registered on the HPLMN, or one of the PLMN Identifications used for Service Provider PLMN Name display above:

- (i) The SP Name shall be displayed;
- (ii) Display of the PLMN Name is optional (i.e. the Service Provider name shall be displayed either in parallel to the PLMN Name or instead of the PLMN Name).

When registered on neither the HPLMN, nor one of the PLMN Identifications used for Service Provider PLMN Name display above:

- (i) The PLMN name shall be displayed;
- (ii) Display of the SP Name is optional.

~~It shall be possible to indicate on the USIM at least 10 network identifications in which the service provider name shall be displayed.~~

~~In addition it shall be possible to indicate on the USIM whether the radio connectivity provider name (network operator), if different from the service provider, is also displayed in parallel with the service provider name.~~

~~When roaming, i.e. the broadcasted network identification does not match the respective entry on the USIM or the entries in which networks only the service provider should be displayed, and the UE is in idle mode, the visited network operator name shall always be displayed. As an option the service provider name can be also displayed in parallel to the visited network operator name.~~

If the UE is unable to display the full name of the Service Provider the name is cut from the tail end. The storage of Service Provider name and options, and choice of options, shall be under control of the network operator.

CR-Form-v3

CHANGE REQUEST

⌘ **22.101** CR **080** ⌘ rev **-** ⌘ Current version: **5.2.0** ⌘

*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:	⌘ Clarification of PLMN Name Indication and Service Provider Name Indication feature.		
Source:	⌘ SA1		
Work item code:	⌘ SPNAME	Date:	⌘ 11 May 2001
Category:	⌘ A	Release:	⌘ Rel-5
	<i>Use <u>one</u> of the following categories:</i> F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		<i>Use <u>one</u> of the following releases:</i> 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:	⌘ The description of Service Provider Name Indication is misleading. Clarification of conditions for display of service provider name and HPLMN name.		
Summary of change:	⌘ Text to allow at least 10 PLMN Identifications to be associated with one PLMN name moved to PLMN Name section. Text to allow at least 10 PLMN Identifications to be associated with one SP name. Rules for display of SP name and PLMN name clarified.		
Consequences if not approved:	⌘		

Clauses affected:	⌘ Annex A.3		
Other specs affected:	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	31.102
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.

A.3 Country/PLMN indication

The country/PLMN indicator shows in which PLMN the UE is currently registered. This indicator is necessary so that the user knows when “roaming” is taking place and that the choice of PLMN is correct. Both the country and PLMN will be indicated. When more than one visited PLMN is available in a given area such information will be indicated.

The PLMN name is either:

- stored in the ME and associated with the MCC+MNC combination received on the broadcast channel;
- NITZ (see 22.042 [17]) (in which case it overrides the name stored in the UE);
- stored in the USIM and associated with the MCC+MNC combination, and optionally the LAI, received on the broadcast channel (in which case it overrides the name stored in the UE and – if present – the NITZ name).

It shall be possible to store on the SIM/USIM at least 10 PLMN Identifications (MCC+MNC combination and optionally the LAI) for which the same PLMN name shall be displayed.

The PLMN name stored in the USIM has the highest priority, followed by the PLMN name provided by NITZ. The PLMN name stored in the ME has the lowest priority.

A.43.1 Service Provider Name indication

~~When the UE is in idle mode and the broadcasted network identification is identical to the respective entry on the USIM, the UE shall display the service provider name.~~ The service provider name is stored in the SIM/USIM in text and/or optionally graphic format. It shall be possible to associate at least 10 PLMN Identifications (MCC+MNC combination and optionally the LAI) with the same SP Name. If there is no association between PLMN Identifications and SP Name, one SP Name shall be used for all PLMN Identifications. These PLMN Identifications may be different from those used for PLMN Name display described above.

When registered on the HPLMN, or one of the PLMN Identifications used for Service Provider PLMN Name display above:

- (i) The SP Name shall be displayed;
- (ii) Display of the PLMN Name is optional (i.e. the Service Provider name shall be displayed either in parallel to the PLMN Name or instead of the PLMN Name).

When registered on neither the HPLMN, nor one of the PLMN Identifications used for Service Provider PLMN Name display above:

- (i) The PLMN name shall be displayed;
- (ii) Display of the SP Name is optional.

~~It shall be possible to indicate on the USIM at least 10 network identifications in which the service provider name shall be displayed.~~

~~In addition it shall be possible to indicate on the USIM whether the radio connectivity provider name (network operator), if different from the service provider, is also displayed in parallel with the service provider name.~~

~~When roaming, i.e. the broadcasted network identification does not match the respective entry on the USIM or the entries in which networks only the service provider should be displayed, and the UE is in idle mode, the visited network operator name shall always be displayed. As an option the service provider name can be also displayed in parallel to the visited network operator name.~~

If the UE is unable to display the full name of the Service Provider the name is cut from the tail end. The storage of Service Provider name and options, and choice of options, shall be under control of the network operator.