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|---|---|
| **Source:** | **SA1** |
| **Title:** | **CRs to 22.011 R99/Rel-4 on clarification of the term 'country'** |
| **Document for:** | **Approval** |
| **Agenda Item:** | **7.1.3** |

| SA Doc | Spec | CR | Rev | Phase | Cat | Subject | Old Vers | New Vers | SA1 Doc |
|---|---|---|---|---|---|---|---|---|---|
| SP-010042 | 22.011 | 044 | | R99 | F | CR to 22.011 R99: clarification of the term 'country' | 3.6.0 | 3.7.0 | S1-020662 |
| SP-010042 | 22.011 | 045 | | Rel-4 | A | CR to 22.011 Rel-4: clarification of the term 'country' | 4.5.0 | 4.6.0 | S1-020663 |

*CR-Form-v4*

# CHANGE REQUEST

| ⌘ | **22.011** CR **044** | ⌘ | ev | **-** | ⌘ | Current version: | **3.6.0** | ⌘ |

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

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

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|---|---|---|
| **Title:** | ⌘ | Clarification on the interpretation of the term "country" in 22.011 |
| **Source:** | ⌘ | SA1 |
| **Work item code:** | ⌘ TEI | **Date:** ⌘ 04 – Feb – 2002 |

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| **Category:** | ⌘ **F** | **Release:** ⌘ R99 |

*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)

| | | |
|---|---|---|
| **Reason for change:** | ⌘ | Clarify that a country in 22.011 shall be interpreted as one mobile country code |
| **Summary of change:** | ⌘ | A note has been added to 3.2.2.5 to indicate that in this specification the term country signifies one mobile country code |
| **Consequences if not approved:** | ⌘ | Possible misinterpretation of the term "country" which is often used to describe procedures such as national roaming and selection of higher priority PLMN. Even if a country could have more than one MCC, in the context of this specification (and the corresponding implementation in the stage 2 and 3 – when applicable) the term country is used to identify a single MCC. |

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| **Clauses affected:** | ⌘ | 3.2.2.5 |
| **Other specs affected:** | ⌘ | ☐ Other core specifications ⌘ |
| | | ☐ Test specifications |
| | | ☐ 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://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.

## 3.2.2.5 Periodic network selection attempts

A UE in Automatic Mode shall make periodic attempts to look for a higher priority PLMN of the same country as the currently received PLMN.

NOTE: In the context of this TS, the term country is to be interpreted not as a political entity but as a single Mobile Country Code (MCC). For instance the USA has multiple MCC. The USA case is in fact treated as an exception in the 3GPP specifications. For all other countries, multiple MCCs may be used, however the specifications have not taken this into account and there could be adverse effects such as the mobile being unable to detect that multiple MCCs are within the same country.

The UE shall only select a PLMN if it has a higher priority than any of the PLMNs, in the list of equivalent PLMNs, which are of the same country as the currently registered PLMN. For the ranking of PLMNs the UE shall use the order used in subclause 3.2.2.2 (i.e. HPLMN, followed by PLMNs in the "User Controlled PLMN Selector", followed by PLMNs in the "Operator Controlled PLMN Selector").

The UE shall only make reselection attempts while in idle mode for circuit services.

The interval between attempts shall be stored in the SIM/USIM. Only the service provider shall be able to select for which of the previous situations, periodic network selection shall be attempted and to set the interval, which shall be between 6 minutes and 8 hours, with a step size of 6 minutes. One value shall be designated to indicate that no periodic attempts shall be made.

In the absence of a permitted value in the SIM/USIM, or the SIM/USIM is phase 1 and therefore does not contain the datafield, then a default value of 60 minutes, shall be used by the UE.

NOTE: Use of values less than 60 minutes may result in excessive ME battery drain.

*CR-Form-v4*

# CHANGE REQUEST

| ⌘ | **22.011** CR **045** | ⌘ | ev | **-** | ⌘ | Current version: | **4.5.0** | ⌘ |

*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 **X**  ME/UE **X**  Radio Access Network ☐  Core Network ☐

| | | |
|---|---|---|
| **Title:** ⌘ | Clarification on the interpretation of the term "country" in 22.011 | |
| **Source:** ⌘ | SA1 | |
| **Work item code:** ⌘ | TEI | **Date:** ⌘  04 – Feb – 2002 |

**Category:** ⌘ **A**

Use <u>one</u> 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.

**Release:** ⌘ *REL-4*

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)

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|---|---|
| **Reason for change:** ⌘ | Clarify that a country in 22.011 shall be interpreted as one mobile country code |
| **Summary of change:** ⌘ | A note has been added to 3.2.2.5 to indicate that in this specification the term country signifies one mobile country code |
| **Consequences if not approved:** ⌘ | Possible misinterpretation of the term "country" which is often used to describe procedures such as national roaming and selection of higher priority PLMN. Even if a country could have more than one MCC, in the context of this specification (and the corresponding implementation in the stage 2 and 3 – when applicable) the term country is used to identify a single MCC. |

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| **Clauses affected:** ⌘ | 3.2.2.5 |

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| **Other specs Affected:** ⌘ | ☐ Other core specifications | ⌘ | |
| | ☐ Test specifications | | |
| | ☐ O&M Specifications | | |

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| **Other comments:** ⌘ | |

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## 3.2.2.5 Periodic network selection attempts

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> NOTE: In the context of this TS, the term country is to be interpreted not as a political entity but as a single Mobile Country Code (MCC). For instance the USA has multiple MCC. The USA case is in fact treated as an exception in the 3GPP specifications. For all other countries, multiple MCCs may be used, however the specifications have not taken this into account and there could be adverse effects such as the mobile being unable to detect that multiple MCCs are within the same country.

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> NOTE: Use of values less than 60 minutes may result in excessive ME battery drain.