

**Source:** SA1  
**Title:** CR to 22.101 v5.5.0 on REL5 clean up  
**Document for:** Approval  
**Agenda Item:** 7.1.3

---

SA Doc	Spec	CR	Rev	Phase	Cat	Subject	Old Vers	New Vers	SA1 Doc
SP-020280	22.101	095	1	Rel-5	F	CR to 22.101 v5.5.0 on REL5 clean up	5.5.0	5.6.0	S1-021167



## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

?? References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

?? For a specific reference, subsequent revisions do not apply.

?? For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

### 2.1 Normative references

- [1] 3GPP TS 22.105 “Services and Service Capabilities”
- [2] 3GPP TS 22.121: "Virtual Home Environment (VHE), Stage 1"
- [3] 3GPP TS 22.038: "SIM application toolkit, stage 1"
- [4] 3GPP TS 22.001: " Principles of Circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".
- [5] 3GPP TS 22.004: General on supplementary services"
- [6] 3GPP TS 22.030: "Man-Machine Interface (MMI) of the User Equipment (UE)"
- [7] 3GPP TS 22.066: "Support of Mobile Number Portability (MNP); Service description; Stage 1"
- [8] 3GPP TS 22.079: " Support of Optimal Routing; Stage 1"
- [9] 3GPP TS 22.129: "Handover Requirements between UTRAN and GERAN or other Radio Systems"
- [10] 3GPP TS 33.102: "Security Architecture"
- [11] 3GPP TS 22.011: "Service Accessibility"
- [12] 3GPP TS 22.016: "International mobile Station Equipment Identities (IMEI)"
- [13] 3GPP TS 24.008: " Mobile Radio Interface Layer 3 Specification"
- [14] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)"
- [15] 3GPP TS 21.133: "Security Threats and Requirements"
- [16] 3GPP TS 33.120: "Security Principles"
- [17] 3GPP TS 22.042: "Network Identity and Time Zone, Service Description, Stage 1"
- [18] 3GPP TS 42.009: " Security Aspects"
- [19] 3GPP TS 31.102: "USIM Application Characteristics"
- [20] 3GPP TS 23.221 “Architectural Requirements”
- [21] 3GPP TS 22.002: “Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)”
- [22] 3GPP TS 22.060: “General Packet Radio Service (GPRS)”
- [23] 3GPP TS 29.002: “Mobile Application Part (MAP) specification ”

- [24] 3GPP TR 23.972: "Circuit Switched Multimedia Telephony".
- [25] 3GPP TS 22.140: "Multimedia messaging service; Stage 1".
- [26] 3GPP TS 22.226: "Global Text Telephony, Stage 1."
- [27] 3GPP TS 22.[22814](#): "IP multimedia (IM) CN subsystem, stage 1"
- [28] RFC 3261: "SIP: Session Initiation Protocol"
- [29] 3GPP TR 21.905: " Vocabulary for 3GPP Specifications"
- [30] 3GPP TS 26.233: "Packet Switched Streaming Service (PSS) ; General Description"
- [31] 3GPP TS 26.234: "Packet Switched Streaming Service (PSS) ; Protocols and Codecs"

## 7.2.2 IP multimedia (IM) sessions

IP multimedia services are not the evolution of the circuit switched services but represent a new category of services, mobile terminals, services capabilities, and user expectations. Any new multimedia service, which may have a similar name or functionality to a comparable standardised service, does not necessarily have to have the same look and feel from the user's perspective of the standardised service. Voice communications (IP telephony) is one example of real-time service that would be provided as an IP multimedia application.

The following basic requirements are to be supported for IP multimedia [27]:

- ?? IP multimedia session control shall be based on SIP [28].
- ?? ~~All session scenarios shall be supported, i.e. Mobile Originating and Mobile Terminating sessions against Internet/Intranet, CS or IM Mobile, ISDN, PSTN call party.~~
- ?? MSISDN and SIP URL numbering and addressing schemes shall be supported.
- ?? IP multimedia applications shall as a principle, not be standardised, allowing service provider specific variations.

## 10.2 Emergency calls when attached to a CS CN Domain

PLMNs shall support an emergency call teleservice as defined in 3GPP TS 22.003 [14] (TS12).

## 10.3 Emergency calls when attached to a Data Only Network

If an UE with voice capability attempts to make an emergency call while camping on a PLMN that does not support voice service to the UE, a new PLMN selection shall immediately take place, and the UE shall select the first available PLMN that supports emergency calls to the UE.

## 10.4 Emergency calls when attached to an n IM CN subsystem

~~Emergency calls shall be not supported when attached to via an IM CN subsystem as specified at chapter 10.1. If the UE does not recognise the emergency call MMI(s) (i.e. the dialled number is not stored in USIM/ME) but the serving network recognises the dialled number as an emergency call number used in the country then the IM CN subsystem shall inform the UE to use a CS CN domain for emergency services.~~

~~If UE is attached simultaneously to both CS domain and IM CN subsystem, the operator shall be able to specify, which domain is used by default for emergency calls.~~

~~For further information see [27].~~

~~Note 1: It shall be possible to enable compliance with regional regulatory requirements related to emergency calls.~~

~~Note 2: Other forms than speech for emergency services are for further study.~~