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**Source:** SA1  
**Title:** CRs to 21.905, 22.121 and 22.228 on Defintion of Local Services for Rel-5  
**Document for:** Approval  
**Agenda Item:** 7.1.3

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Doc-1st-Level	Spec	CR	Rev	Phase	Cat	Subject	Vers	Vers New	Doc-2nd-Level
SP-010671	21.905	021	1	Rel-5	F	Defintion of Local Services	5.1.0	5.2.0	1276
SP-010671	22.121	021	1	Rel-5	F	Defintion of Local Services	5.1.0	5.2.0	1277
SP-010671	22.228	005	1	Rel-5	F	Defintion of Local Services	5.3.0	5.4.0	1278

CR-Form-v4

## CHANGE REQUEST

⌘ **21.905** CR **021** ⌘ ev **1** ⌘ Current version: **5.1.0** ⌘

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

<b>Title:</b>	⌘ Definition of Local services		
<b>Source:</b>	⌘ SA1		
<b>Work item code:</b>	⌘ IMS	<b>Date:</b>	⌘ 09.11.2001
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)	<b>2</b> (GSM Phase 2)	
	<b>A</b> (corresponds to a correction in an earlier release)	<b>R96</b> (Release 1996)	
	<b>B</b> (addition of feature),	<b>R97</b> (Release 1997)	
	<b>C</b> (functional modification of feature)	<b>R98</b> (Release 1998)	
	<b>D</b> (editorial modification)	<b>R99</b> (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP <a href="http://www.3gpp.org/ftp/Specs/IR_21.900">TR 21.900</a> .		<b>REL-4</b> (Release 4)
			<b>REL-5</b> (Release 5)

<b>Reason for change:</b>	⌘ Clarification of definition of Local service.
<b>Summary of change:</b>	⌘ Change of definition of Local service.
<b>Consequences if not approved:</b>	⌘ Misalignment of definitions with TS 22.121.

<b>Clauses affected:</b>	⌘ 3
<b>Other specs affected:</b>	⌘ <input checked="" type="checkbox"/> Other core specifications ⌘ 22.121, 22.228
	<input type="checkbox"/> Test specifications
	<input type="checkbox"/> O&M Specifications
<b>Other comments:</b>	⌘

### 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](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/](http://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.

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## 3 Terms and definitions

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### L

**Local Service:** Services, which are provided by current roamed to network that are not HE services. The same service can be provided by a network as a local service to inbound roamers and as a HE service to the subscribers of this network. ~~A service, which can be exclusively provided in the current serving network by a Value-added Service Provider.~~

**Localised Service Area (LSA):** A LSA is an operator-defined group of cells, for which specific access conditions apply. This may correspond to an area in which the Core Network offers specific services. A LSA may be defined within a PLMN or globally. Therefore, a LSA may offer a non-contiguous radio coverage.

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CR-Form-v4

## CHANGE REQUEST

⌘ **22.121 CR 021** ⌘ ev **1** ⌘ Current version: **5.1.0** ⌘

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

<b>Title:</b>	⌘ Definition of Local services		
<b>Source:</b>	⌘ SA1		
<b>Work item code:</b>	⌘ IMS	<b>Date:</b>	⌘ 09.11.2001
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)	<b>2</b> (GSM Phase 2)	
	<b>A</b> (corresponds to a correction in an earlier release)	<b>R96</b> (Release 1996)	
	<b>B</b> (addition of feature),	<b>R97</b> (Release 1997)	
	<b>C</b> (functional modification of feature)	<b>R98</b> (Release 1998)	
	<b>D</b> (editorial modification)	<b>R99</b> (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP <a href="http://www.3gpp.org/ftp/Specs/3G/22.1900">TR 21.900</a> .		<b>REL-4</b> (Release 4)
			<b>REL-5</b> (Release 5)

<b>Reason for change:</b>	⌘ Alignment with TR 21.905 for the definition of Local service.		
<b>Summary of change:</b>	⌘ Replacement of the definition of Local service with a reference to the definition in TR 21.905.		
<b>Consequences if not approved:</b>	⌘ Risk that definitions are not aligned between specifications.		

<b>Clauses affected:</b>	⌘ 2.1, 3.1		
<b>Other specs affected:</b>	⌘ <input checked="" type="checkbox"/> Other core specifications	⌘ 21.905, 22.228	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		
<b>Other comments:</b>	⌘		

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- 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.

## 2.1 Normative references

- [1] 3GPP TR 21.905: “Vocabulary for 3GPP Specifications” ~~-(Release 1999)~~
- [2] 3GPP TS 22.057 Mobile Execution Environment (MExE); Service description”.
- [3] 3GPP TS 22.078: “Customised Applications for Mobile network Enhanced Logic (CAMEL); Service definition - Stage 1”.
- [4] 3GPP TS 22.038: “3<sup>rd</sup> Generation Partnership Project; Technical Specification Group Services and System Aspects; USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1”.
- [5] 3GPP TS 22.101: “Service Aspects; Service Principles”.
- [6] 3GPP TS 22.105: “Services and Service Capabilities”.
- [7] ITU-T Recommendation Q.1701: “Framework for IMT-2000 networks”.
- [8] ITU-T Recommendation Q.1711: “Network Functional Model for IMT-2000”.
- [9] 3GPP TS 22.100: “UMTS phase 1”.
- [10] 3GPP TS 23.127: “Virtual Home Environment/Open Service Architecture”.
- [11] 3GPP TS 22.127: “Open Services Access (OSA) ”.

## 2.2 Informative references

- [12] World Wide Web Consortium Composite Capability/Preference Profiles (CC/PP): A user side framework for content negotiation ([www.w3.org](http://www.w3.org)).
- [13] 3G TS 22.115 “Charging and Billing”

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# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

**HE Services:** services, which are provided by the home environment

**HE-VASP:** Home Environment Value Added Service Provider. This is a VASP that has an agreement with the Home Environment to provide services. The Home Environment provides services to the user in a managed way, possibly by collaborating with HE-VASPs, but this is transparent to the user. The same service could be provided by more than one HE-VASP and each HE-VASP can provide more than one service.

**Home Environment:** responsible for overall provision and control of the Personal Service Environment of its subscribers.

**Local Service:** ~~services, which are provided by current roamed to network that are not HE services~~ See definition in [1].

**OPERATOR SPECIFIC SERVICES (OSS)** are not standardised and could be implemented at the PLMN entities (e.g. HLR) on a vendor specific basis or using GSM ph 2+ mechanisms (CAMEL, USAT, MExE). These tool-kits use standardised interfaces to the underlying network (e.g. CAP, MAP) or use GSM Bearers to transport data, for example, from the MExE service environment of USAT server to the UE/USIM. The implementation of these operator specific services on the different platforms (CSE, MExE service environment or USAT Server, UEs) is done in a completely vendor specific way and uses only proprietary interfaces.

**Personal Service Environment:** contains personalised information defining how subscribed services are provided and presented towards the user. Each subscriber of the Home Environment has her own Personal Service Environment. The Personal Service Environment is defined in terms of one or more **User Profiles**.

**Services:** set of functions offered to a user by an organisation.

**Service Toolkits :** bearers defined by parameters, and/or mechanisms needed to realise services.

**Standardised services:** standardised services (Supplementary Services, Tele-Services, etc.) are implemented on existing PLMN entities (e.g. HLR , MSC/VLR and terminal) on a vendor specific basis, using standardised interfaces (MAP, etc.) for service communication (e.g. downloading of service data). Availability and maintenance of these Services is also vendor dependent.

**User:** is a logical entity, which uses PLMN services.

**User Services Profile:** contains identification of subscriber services, their status and reference to service preferences. This is part of the User profile information.

**User Profile:** A set of information necessary to provide a user with a consistent, personalised service environment, irrespective of the user location or the terminal used (within the limitations of the terminal and the serving network). The user can define one or more User Profiles according to the user's needs. The user's Home Environment manages the User Profile(s).

**Value Added Service Provider:** provides services other than basic telecommunications service for which additional charges may be incurred. The user may access services directly from Value Added Service Providers and the serving network. The Home Environment does not support services obtained directly from VASPs or serving network outside home network. VASP has no service agreement with the Home Environment.

**Virtual Home Environment:** concept for personal service environment portability across network boundaries and between terminals.

Further definitions are given in [5]

CR-Form-v4

## CHANGE REQUEST

⌘ **22.228 CR 005** ⌘ ev **1** ⌘ Current version: **5.3.0** ⌘

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<b>Title:</b>	⌘ Definition of Local services		
<b>Source:</b>	⌘ SA1		
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<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
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	<b>D</b> (editorial modification)	<b>R99</b> (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.	<b>REL-4</b> (Release 4)	
		<b>REL-5</b> (Release 5)	

<b>Reason for change:</b>	⌘ Alignment with TR 21.905 for the definition of Local service.		
<b>Summary of change:</b>	⌘ Replacement of the definition of Local service with a reference to the definition in TR 21.905.		
<b>Consequences if not approved:</b>	⌘ Risk that definitions are not aligned between specifications.		

<b>Clauses affected:</b>	⌘ 2.1, 3.1		
<b>Other specs affected:</b>	⌘ <input checked="" type="checkbox"/> Other core specifications	⌘ 21.905, 22.121	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		
<b>Other comments:</b>	⌘		

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## 2.1 Normative references

- [1] 3GPP TS 22.003: "CS Teleservices supported by a PLMN".
- [2] 3GPP TS 22.011: "Service Accessibility".
- [3] 3GPP TS 22.060: "General Packet Radio Service (GPRS) stage 1".
- [4] 3GPP TS 22.066: "Support of Mobile Number Portability (MNP)".
- [5] 3GPP TS 22.101: "Service principles".
- [6] 3GPP TS 22.105: "Services and Service Capabilities".
- [7] 3GPP TS 22.121: "3<sup>rd</sup> Generation Partnership Project; Technical Specification Group Services and System Aspects; The Virtual Home Environment"
- [8] 3GPP TS 22.129: "Handover requirements between UMTS and GSM and other Radio Systems".
- [9] RFC2543: "SIP: Session Initiation Protocol"
- [10] 3GPP TS 22.078: "3GPP TS 22.078: "3GPP TS 22.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL); Service definition - Stage 1"
- [11] 3GPP TS 22.057: "3GPP TS 22.057: "3GPP TS 22.057: "Mobile Execution Environment (MExE); Service description, Stage 1"
- [12] 3GPP TS 22.038: "3<sup>rd</sup> Generation Partnership Project; Technical Specification Group Services and System Aspects; USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1"
- [13] 3GPP TS 22.127: "3<sup>rd</sup> Generation Partnership Project; Technical Specification Group Services and System Aspects; Stage 1 Service Requirement for the Open Service Access (OSA)"
- [14] 3GPP TR 21.905: "Vocabulary for 3GPP specifications"

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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of this TS the following definitions apply:

**Basic Voice Call:** A Basic Voice Call (BVC) is a call that conveys only a speech component. The definition of the BVC pertains only to the boundary between the IMS and the CS/PSTN. If more than one IMS party is involved in a communication with a PSTN party/parties, the communication between the IMS parties shall not be adversely impacted by the presence of a PSTN party. Please note that this boundary may still be subject to regulatory requirements associated with communications with the PSTN including, but not limited to, lawful interception of voice calls and number portability.

**IM CN subsystem:** (IP Multimedia CN subsystem) comprises of all CN elements for the provision of IP multimedia applications over IP multimedia sessions

**IP multimedia application:** an application that handles one or more media simultaneously such as speech, audio, video and data (e.g. chat text, shared whiteboard) in a synchronised way from the user's point of view. A multimedia application may involve multiple parties, multiple connections, and the addition or deletion of resources within a single IP multimedia session. A user may invoke concurrent IP multimedia applications in an IP multimedia session.

**IP multimedia service:** an IP multimedia service is the user experience provided by one or more IP multimedia applications.



**IP multimedia session:** an IP multimedia session is a set of multimedia senders and receivers and the data streams flowing from senders to receivers. IP multimedia sessions are supported by the IP multimedia CN Subsystem and are enabled by IP connectivity bearers (e.g. GPRS as a bearer). A user may invoke concurrent IP multimedia sessions.

**Local service:** ~~services which are provided by a current serving (home or visited) network.~~ See definition in [14].