

Source: SA1

Title: CRs to 22.101 and 22.127 on Definitions of Home Environment
and HE-VASP

Document for: Approval

Agenda Item: 7.1.3

Doc-1st-Level	Spec	CR	Rev	Phase	Cat	Subject	Vers	Vers New	Doc-2nd-Level
SP-010436	22.101	086	1	Rel-5	F	Definition of Home Environment	5.3.0	5.4.0	S1-010889
SP-010436	22.127	024	1	Rel-5	F	Definitions of Home Environment and HE-VASP	5.0.0	5.1.0	S1-010890

CR-Form-v4	
CHANGE REQUEST	
⌘ 22.101 CR 086 ⌘ ev 1 ⌘	Current version: 5.3.0 ⌘

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:	⌘ Definition of Home Environment		
Source:	⌘ SA1		
Work item code:	⌘ VHE1	Date:	⌘ 13/072001
Category:	⌘ F	Release:	⌘ REL-5
	<i>Use one of the following categories:</i> 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 .		<i>Use one 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)

Reason for change:	⌘ To ensure consistent definitions of terms across specifications.
Summary of change:	⌘ Referring to definition on Home Environment in 21.905.
Consequences if not approved:	⌘ Risk for misalignment between specifications.

Clauses affected:	⌘ 2.1, 3.1		
Other specs affected:	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	21.905 22.121 22.127 22.228
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.
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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 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 UMTS and GSM 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] GSM 02.09: "Digital cellular telecommunications system (Phase 2+); 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.IM: "IP multimedia (IM) CN subsystem, stage 1"
- [28] RFC2543: "SIP: Session Initiation Protocol"
- [29] 3GPP ~~TSR-TSTR~~ 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"

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of this TS, the following definitions apply:

Authentication: a property by which the correct identity of an entity or party is established with a required assurance. The party being authenticated could be a user, subscriber, home environment or serving network.

Bearer: a bearer capability of defined capacity, delay and bit error rate, etc.

Bearer capability: a transmission function which the user equipment requests to the network.

Confidentiality: the avoidance of disclosure of information without the permission of its owner.

Home Environment: ~~the home environment is responsible for enabling a user to obtain services in a consistent manner regardless of the user's location or terminal used (within the limitations of the serving network and current terminal).see definition in [29]~~

IC Card: a card holding an Integrated Circuit containing subscriber, end user, authentication and/or application data for one or more applications.

Integrity: (in the context of security) is the avoidance of unauthorised modification of information.

Mobility: the ability for the user to communicate whilst moving independent of location.

Multimedia service: Multimedia services are services that handle several types of media such as audio and video in a synchronised way from the user's point of view. A multimedia service may involve multiple parties, multiple connections, and the addition or deletion of resources and users within a single communication session.

Number: A string of decimal digits that uniquely indicates the public network termination point. The number contains the information necessary to route the call to this termination point.

A number can be in a format determined nationally or in an international format. The international format is known as the International Public Telecommunication Number which includes the country code and subsequent digits, but not the international prefix.

Number portability: where the provision of directory numbers is independent of home environment and/or serving network.

One Stop Billing: one bill for all charges incurred using PLMN services.

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⌘ 22.127 CR 024 ⌘ ev 1 ⌘	Current version: 5.0.0 ⌘

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2.1 Normative references

- [1] 3GPP TS 22.121: Universal Mobile Telecommunications System (3G); “The Virtual Home Environment”
- [2] 3GPP TS 22.101: Service principles
- [3] 3GPP ~~TS~~ TR 21.905: Vocabulary for 3GPP Specifications
- [4] 3GPP TS 23.107: QoS Concept and Architecture
- [5] 3GPP TS 22.024: Description of Charge Advice Information (CAI)
- [6] 3GPP TS 29.198: Open Service Architecture; Application Programming Interface; Part 1

2.2 Informative references

- [10] World Wide Web Consortium Composite Capability/Preference Profiles (CC/PP): A user side framework for content negotiation (www.w3.org)

3 Definitions and abbreviations

3.1 Definitions

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

Applications: software components providing services to users by utilising service capability features.

Application Interface: standardised Interface used by applications to access service capability features.

Call: A logical association between several users (this could be connection oriented or connection less).

Charging: A function whereby information related to a chargeable event is formatted and transferred in order to make it possible to determine usage for which the charged party may be billed.

HE-VASP: Home Environment Value Added Service Provider. For the definition see [43]

Home Environment: For the definition see [43]

Local Service: For the definition see [1]

Personal Service Environment: For the definition see [1]

Policy: is a formalism that may be used to express business, engineering or management criteria. A policy is represented by a set of rules. Rules are expressed as condition(s)-actions(s) pairs. When the conditions associated with a rule are satisfied the associated actions are executed.

Note: Policies created by applications are matched against the policies of a Network.

Policy Event : A policy event is associated with the action part of designated rule(s). The event is generated when the action part is executed.

Policy Management: is the capability to create, modify and delete policy related information, including policy events.

Policy Enabled Service: is a Service which has some or all of its properties expressed in terms of policy rules. E.g. Charging Service wherein charging criteria are expressed in terms of policy rules

Policy Decision Point: A function of the network where the applicable policy is chosen.

Policy Enforcement Point: A function of the network where the chosen policy is applied.

Policy Repository: A function of the network where policies are stored.

Policy Enabled network: is a network that supports at least one instance of a Policy Repository and Policy Decision Point and Policy Enforcement Point.

Service Capabilities: bearers defined by parameters, and/or mechanisms needed to realise services. These are within networks and under network control.

Service Capability Feature: functionality offered by service capabilities that are accessible via the standardised application interface.

Service Provider: an organisation which delivers services to the subscriber. This can be e.g. the operator of the subscriber's Home Environment or an authorised VASP.

Note: In the context of this specification it is assumed, that at least one application providing the services of the Service Provider makes use of OSA functions

Services: a service is the user experience provided by one or more applications.

User: For the definition see [1]

Virtual Home Environment: For the definition see [1]

Further 3G related definitions are given in 3G ~~TS~~TR 21.905 [3].