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1 Scope

The purpose of this technical report is to analyse the service requirements for push services as defined in TS 22.174 "Push service; Stage 1". It continues the work of TR 23.875 (3GPP internal report).

This technical report describes methods for supporting push services by 3GPP delivery networks. The mechanisms described apply to existing delivery networks for the 3GPP Packet Switched (PS) domain, Circuit Switched (CS) domain, IP Multimedia Core Network Subsystem (IMS), Multimedia Broadcast / Multicast Service (MBMS), and Wireless Local Area Network (WLAN). Any necessary changes identified during this work will be introduced by means of change requests to the appropriate specifications.

The definition of Push Functionality that applies to push Application Servers is outside the scope of this work. The definition of Push Functionality that is best implemented in push Application Servers such as a Push Proxy and Push Initiator will be undertaken by other standards bodies and industry forums.

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.
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- [1] 3GPP TR 21.905: " Vocabulary for 3GPP Specifications ".
- [2] 3GPP TS 22.060: "General Packet Radio Service (GPRS); Service description; Stage 1".
- [3] 3GPP TS 22.174: "Push service; Stage 1".
- [4] 3GPP TR 23.039: "Interface Protocols for the Connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs)".
- [5] 3GPP TS 23.040: " Technical realization of the Short Message Service (SMS)".
- [6] 3GPP TS 23.060: " General Packet Radio Service (GPRS); Service description; Stage 2".
- [7] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".
- [8] 3GPP TS 23.002: "Network architecture".
- [9] 3GPP TS 29.007: "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".
- [10] 3GPP TR 23.910: "Circuit switched data bearer services".
- [11] 3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
- [12] 3GPP TS 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [13] IETF RFC 3428: "Session Initiation Protocol (SIP) Extension for Instant Messaging".
- [14] IETF RFC 3265: "Session Initiation Protocol (SIP) - Specific Event Notification".