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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	5
Introduction	5
1 Scope	6
2 References	6
3 Definitions, symbols and abbreviations	7
3.1 Definitions	7
3.2 Symbols.....	7
3.3 Abbreviations	8
4 User Data Convergence architecture	8
4.1 UDC System architecture	8
4.2 Functional Entities.....	10
4.2.1 Application Front Ends	10
4.2.2 Provisioning Front Ends	10
4.2.3 User Data Repository.....	11
4.2.4 Other Network Elements	11
4.3 Reference point Ud.....	12
4.4 Front-End Session	12
4.5 UDR Session	13
5 User Data convergence information flows	13
5.1 General	13
5.2 Requirements.....	15
5.3 Querying data from the UDR	16
5.4 Creating data within the UDR	17
5.5 Deleting data from the UDR.....	18
5.6 Updating data within the UDR	19
5.7 Subscription to Notifications	20
5.8 Notification of data modification	21
5.8.1 Description.....	21
5.8.2 Notifications and transactions.....	23
Annex A (informative): Information flows.....	24
A.0 Introduction	24
A.1 Information flows with Query data procedure over Ud	24
A.1.1 General	24
A.1.2 CS terminating call information flow example	24
A.1.3 IMS re-registration information flow example.....	25
A.2 Information flows with Updating data procedure over Ud.....	26
A.2.1 General	26
A.2.2 CS location update information flow example	26
A.2.3 IMS service data change information flow example	28
A.3 Example Information flows for subscriptions to notifications	29
A.3.1 General	29
A.3.2 Application Server Subscription information flow example	29
A.4 Information flows with notification procedure over Ud.....	30
A.4.1 General	30
A.4.2 IMS user capability change with notification information flow example	31

A.4.3	Application Server Notification information flow example without Ud-Notify	32
A.4.4	Application Server Notification information flow example with Ud-Notify	33
A.4.5	Application Server Notification information flow example without Ud-Notify – Subscription expired	34
A.4.6	Application Server Notification information flow example with Ud-Notify – Subscription expired	35
Annex B (informative):	Applicability of the UDC concept to network nodes.....	36
B.1	Introduction.....	36
B.2	Basic Prerequisite.....	36
B.3	Step 1 – Separating User Data from Application Logic	36
B.4	Step 2 – Introducing Provisioning FEs	37
B.5	Step 3 - Storing outsourced user data in a logically single UDR.....	37
B.6	Step 4 –Full Load Sharing and Failover functionality	38
B.7	Step 5 – Converging user data in the UDR.....	39
B.8	Example analysis for HLR.....	39
B.9	Example analysis for S-CSCF	39
B.10	Example analysis for PCRF and SPR	40
B.11	Summary	40
Annex C (informative):	Change history	41
History	42	

Foreword

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Introduction

The UDC concept (3GPP TS 22.101 [3]) supports a layered architecture, separating the data from the application logic in the 3GPP system, so that user data is stored in a logically unique repository allowing access from core and service layer entities, named Application Front Ends.

Network elements and functionalities should be designed to access user data remotely and without storing them permanently locally, i.e. the Front Ends shall work in a subscriber dateless configuration.

1 Scope

The present document describes the procedures and signalling flows associated to the technical realization of the 3GPP User Data Convergence (UDC). It furthermore indicates some requirements for the stage 3 specifications.

Special consideration is put in the following areas:

- reference architecture for the UDC concept
- general description of procedures for the user data manipulation (e.g. create, delete, update, etc.)
- identification of the requirements on the UDC for the applicability of the mechanisms described in this document.

User data convergence is an optional concept to ensure data consistency and simplify creation of new services by providing easy access to the user data, as well as to ensure the consistency of storage and data models and to have minimum impact on traffic mechanisms, reference points and protocols of network elements.

Standardization of the Data Model for the Ud interface between Front-Ends and the UDR is out of the scope of 3GPP.

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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- 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*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TR 22.985: "Service requirement for the User Data Convergence (UDC)".
- [3] 3GPP TS 22.101: "Service aspects; Service principles".
- [4] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".
- [5] 3GPP TS 23.002: "Network architecture".
- [6] 3GPP TS 32.182: "User Data Convergence (UDC); Common Baseline Information Model (CBIM)".
- [7] 3GPP TS 33.210: "3G Security; Network Domain Security; IP network layer security".
- [8] 3GPP TS 32.181: "Telecommunication management; User Data Convergence (UDC); Framework for Model Handling and Management".
- [9] Void.
- [10] 3GPP TS 23.280: "Common functional architecture to support mission critical services".