Technical Specification Group Services and System Aspects   **TSGS#7(00)0070**
Meeting #7, Madrid, Spain, 15-17 March 2000

Source: **TSG SA1**

Title: **CRs to 22.101**

Document for: **Approval**

Agenda Item: **5.1.3**

Doc-1st-Level	Status-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New
SP-000070		22.101	031		R99	Fixed Dialing Number (FDN)	F	3.8.0	3.9.0

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

22.101	**CR**	**031**		Current Version:	**3.8.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑   ↑ *CR number as allocated by MCC support team*

For submission to:	**SA#7**	for approval	**X**	strategic		*(for SMG*
list expected approval meeting # here ↑		for information		non-strategic		*use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG   The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects: (U)SIM **X**   ME **X**   UTRAN / Radio ☐   Core Network ☐
(at least one should be marked with an X)

Source:	TSG SA1		**Date:**	10/02/00

Subject:	FDN

Work item:	

Category:

	F	Correction	**X**	**Release:**	Phase 2	
	A	Corresponds to a correction in an earlier release			Release 96	
(only one category	B	Addition of feature			Release 97	
shall be marked	C	Functional modification of feature			Release 98	
with an X)	D	Editorial modification			Release 99	**X**
					Release 00	

Reason for change:	To account for T3/SMG9 comments on the implementetion of FDN

Clauses affected:	A.24

Other specs affected:

Other 3G core specifications	☐	→ List of CRs:	
Other GSM core specifications	☐	→ List of CRs:	
MS test specifications	☐	→ List of CRs:	
BSS test specifications	☐	→ List of CRs:	
O&M specifications	☐	→ List of CRs:	

Other comments:	

help.doc

<--------- double-click here for help and instructions on how to create a CR.

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2.1 Normative References

[1]   TS 22.105 "Services and Service Capabilities"

[2]   TS 22.121: "Virtual Home Environment (VHE), Stage 1"

[3]   TS 22.038: "SIM application toolkit, stage 1"

[4]   TS 22.001: " Principles of Circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".

[5]   TS 22.004: General on supplementary services"

[6]   TS 22.030: "Man-Machine Interface (MMI) of the User Equipment (UE)"

[7]   TS 22.066: "Support of Mobile Number Portability (MNP); Service description; Stage 1"

[8]   TS 22.079: " Support of Optimal Routing; Stage 1"

[9]   TS 22.129: "Handover Requirements between UMTS and GSM or other Radio Systems"

[10]   TS 33.102: "Security Architecture"

[11]   TS 22.011: "Service Accessibility"

[12]   TS 22.016: "International mobile Station Equipment Identities (IMEI)"

[13]   GSM 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile Radio Interface Layer 3 Specification"

[14]   TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)"

[15]   TS 21.133: "Security Threats and Requirements"

[16]   TS 33.120: "Security Principles"

[17]   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]   TS 31.102: "USIM Application Characteristics"

[20]   TS 22.121: "Architectural Requirements for Release 99"

[21]   TS 22.002: "Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)"

[22]   TS 22.060: "General Packet Radio Service (GPRS)"

[23]   TS 29.002: "Mobile Application Part (MAP) specification "

A.24 Fixed number dialling

This feature provides a mechanism so that by the use of an electronic lock it is possible to place a bar on calling any numbers other than those pre-programmed in the SIM/USIM.
Under control of PIN 2, "Fixed Dialling Mode" may be enabled or disabled. The mode selected is stored in the SIM/USIM.
Fixed Dialling Numbers (FDNs) are stored in the SIM/USIM in the Fixed Dialling Number field. FDN entries are composed of a destination address/Supplementary Service Control and a service code. Destination addresses may have the format relevant to the bearer services/teleservices defined in [21] and, [14]. and [22] including Access Point Names for GPRS bearer services. The service codes which correspond to a type of bearer services/teleservices, are described in [6]. FDN entries may take the function of an Abbreviated Dialling Number/Supplementary Service Control (ADN/SSC), Overflow and/or sub-address. Fixed Dialling Numbers stored in the SIM/USIM may contain wild card characters.
The Fixed Dialling feature is optional, however when Fixed Dialling Mode is enabled, an ME supporting the feature shall;

- Prevent the establishment of bearer services/teleservices to destination adressess which are not in FDN entries on a per bearer service/teleservice basis. The list of bearer services/teleservices excluded from the FDN check shall be stored in the SIM/USIM. Those bearer services/teleservices are characterized by their service code as described in [23~~6~~]. For instance if the ~~GPRS bearer~~ SMS teleservice~~s~~ is~~are~~ indicated in this list, SMS~~a GPRS session~~ can be sent~~set up~~ to any destination. By default, the ME shall prevent the establishment of any bearer service/teleservice to destination addresses which are not in FDN entries.

- Only allow modification, addition or deletion of Fixed Number Dialling entries under control of PIN2.

- Allow the establishment of bearer services/teleservice to destination addresses stored in FDN entries~~. In case the required destination number is associated with a service code in the FDN entry, only the corresponding bearer services/teleservices shall be allowed~~. For SMS, the Service Center address and the end-destination address shall be checked.

- Support the reading and substitution of wildcards in any position of an FDN entry, via the ME MMI.

- Allow the user to replace each wildcard of an FDN entry by a single digit, on a per call basis without using PIN2. The digit replacing the wildcard may be used for network access or supplementary service operation.

- Only allow Supplementary Service (SS) Control (in Dedicated or Idle mode) if the SS control string is stored as an FDN entry.

- Allow the extension of an FDN entry by adding digits to the Fixed Dialling number on a per call basis.

- Allow the emergency numbers (see Section 8.4) to be called, even if it is not an FDN entry.

- Allow normal access to ADN fields (i.e. allow ADN entries to be modified, added or deleted) and the keyboard.

- Allow use of ADNs subject to the FDN filter.

When FDN is disabled, an ME supporting FDN shall;
- Allow FDN entries to be read as though they were normal ADN entries.

- Only allow modification, addition or deletion of Fixed Number Dialling entries under control of PIN2.

- Allow normal access to ADN fields and the keyboard.

If the ME does not support FDN, the UE shall not allow the making or receiving of calls when Fixed Dialling is enabled. However, emergency calls (112 and other user defined emergency numbers) shall still be possible.
    NOTE: Wildcards are stored on the SIM/USIM. The wildcard coding is given in TS 31.102 [19].