

# ETSI TS 127 003 V13.0.0 (2016-01)



**Digital cellular telecommunications system (Phase 2+);  
Universal Mobile Telecommunications System (UMTS);  
Terminal Adaptation Functions (TAF)  
for services using synchronous bearer capabilities  
(3GPP TS 27.003 version 13.0.0 Release 13)**



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**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

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# Foreword

This Technical Specification (TS) has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The present document defines the interfaces and Terminal Adaptation Functions (TAF) integral to a Mobile Termination (MT) which enables the attachment of synchronous terminals to a MT within the 3GPP system.

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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# 1 Scope

The present document defines Terminal Adaptation Functions (TAF) which are integrated in a Mobile Termination (MT) and which enable the use of synchronous bearer services in the PLMN and the attachment of Synchronous synchronous Terminals terminals to an MT (see 3GPP TS 24.002 [3]). For the case where asynchronous terminals are attached to the TAF when using synchronous bearer services in the PLMN, the reader is referred to 3GPP TS 27.002 [36] for the asynchronous MT-TAF interface specifics and to the present document for synchronous bearer service specifics on the TAF-IWF interface. The general aspects of Terminal Adaptation Functions are contained in specification 3GPP TS 27.001 [9]. The present document covers support of synchronous data services (see 3GPP TS 22.002 [6]) for the following interfaces and procedures:

- V.22 [15] DTE/DCE Interface;
- V.22 bis [16] DTE/DCE Interface;
- V.26 ter [19] DTE/DCE Interface;
- X.21 bis [24] DTE/DCE Interface;
- X.32 [30] Procedure;
- V.25 bis [18] Procedure;

NOTE: From R99 onwards the support of the following services are no longer required by a PLMN:

- the dual Bearer Services "alternate speech/data" and "speech followed by data";
- the dedicated services for PAD and Packet access;
- BS 21 ... 26 and BS 31 ... 34.

From REL-4 onwards the support of the following service is no longer required by a PLMN:

- the synchronous Bearer Service non-transparent (BS 30 NT).

the Teleservice Facsimile non-transparent (TS 61/62 NT) for A/Gb mode.

The support of these services is still optional. The specification of these services is not within the scope of the present document. For that, the reader is referred to GSM R98 or R99 respectively.

NOTE: Please note that the Gb interface does not play any role in the scope of the present document although the term 'A/Gb mode' is used. GERAN Iu mode is for further study.

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# 2 References

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[1] Void

[2] 3GPP TS 43.010: "GSM Public Land Mobile Network (PLMN) connection types".