ECC Recommendation (21)01

TETRA ITSI numbering resource and its relationship to E.212 IMSI numbering resource

**approved 24 November 2021**

# introduction

The Individual TETRA Subscriber Identity (ITSI) and the International Mobile Subscriber Identity (IMSI) are two different identifiers of two distinct networks: the TETRA mobile services in primarily private trunk networks and the public mobile service in public networks and subscriptions. Nevertheless, both are identified by a Country Code (TETRA networks by (T)MCC) according to Recommendation ITU-T E.218 [3] and public mobile networks by MCC according to Recommendation ITU-T E.212) and a Mobile Network Code ((T)MNC for TETRA networks according to ETSI EG 202 118 [4] and MNC for public mobile networks according to Recommendation ITU-T E.212 [2]), which can create confusion.

This Recommendation gives some guidance to National Regulatory Authorities (NRAs) on the assignment of TETRA resources. For the assignment of E.212 resources, ECC Recommendation (17)02 [5] is valid.

# ECC recommendation (21)01 of 24 November 2021 on TETRA ITSI numbering resource and its relationship to E.212 IMSI numbering resource

“The European Conference of Postal and Telecommunications Administrations,

*considering*

1. that the Individual TETRA Subscriber Identity (ITSI) resource is a numbering resource needed to provide private and/or public TETRA mobile services in trunk networks;
2. that the International Mobile Subscriber Identity (IMSI) resource, defined in Recommendation ITU-T E.212, is a numbering resource needed to provide public networks and subscriptions;
3. that the assignment of ITSI resource which is identified by the value of the TETRA Mobile Country Code and TETRA Mobile Network Code ((T)MCC+(T)MNC) should be transparent and non-discriminatory;
4. that the assignment of IMSI resource which is identified by the value of the E.212 Mobile Country Code and Mobile Network Code (MCC+MNC) should be transparent and non-discriminatory;
5. that network operators may wish to support both GSM(2G)/UMTS(3G)/LTE(4G)/5G and TETRA technologies including roaming with multiple mode terminals;
6. that the responsibility for assigning MCC+MNC values and (T)MCC+(T)MNC values may be held by different organisations in the same country, but mostly by the same National Regulatory Authorities (NRA);
7. that the management of the allocation of terrestrial trunk radio (T)MCC is defined in Recommendation ITU-T E.218 [3];
8. that in consequence it may not be possible to establish a simple relationship between MCC+MNC values and (T)MCC+(T)MNC values.

*recommends*

1. that when National Regulatory Authorities (NRAs) assign TETRA numbering resources ((T)MCC+(T)MNC) it does not imply the assignment of the corresponding E.212 identification resources (MCC+MNC) and vice versa.
2. that the NRAs should ensure that the assignments of TETRA numbering resources are published.”

*Note:*

*This recommendation supersedes the Recommendation of 4 July 2001 on TETRA ITSI numbering resource and its relationship to E.212 IMSI numbering resource* *ECTRA/REC(01)04.*

1. List of references

This annex contains the list of relevant reference documents.

1. ETSI ETS 300 392-1 V.1.6.1 (2020-04); “Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 1: General network design;”
2. Recommendation ITU-T E.212: “The international identification plan for public networks and subscriptions”;
3. Recommendation ITU-T E.218: “Management of the allocation of terrestrial trunk radio Mobile Country Codes”;
4. ETSI EG 202 118: “Services and Protocols for Advanced Networks (SPAN); The structure of the TETRA numbering resource, interworking and high level policy for administration”;

1. [ECC Recommendation (17)02](https://docdb.cept.org/document/951): “Harmonised European Management and Assignment Principles for Geographic E.212 Mobile Network Codes (MNCs)”, approved November 2017