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

a) 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;

b) 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;

c) 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;

d) 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;

e) that network operators may wish to support both GSM(2G)/UMTS(3G)/LTE(4G)/5G and TETRA technologies including roaming with multiple mode terminals;

f) 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);

g) that the management of the allocation of terrestrial trunk radio (T)MCC is defined in Recommendation ITU-T E.218 [3];

h) 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.

ANNEX 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";

[5] ECC Recommendation (17)02: "Harmonised European Management and Assignment Principles for Geographic E.212 Mobile Network Codes (MNCs)", approved November 2017