

ETSI TR 102 300-6 V1.1.1 (2011-12)



Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Designers' guide; Part 6: Air-Ground-Air

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Reference

DTR/TETRA-01191

Keywords

radio, TETRA

ETSI

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Terrestrial Trunked Radio (TETRA).

The present document is part 6 of a multi-part deliverable covering Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Designers' guide, as identified below:

- ETR 300-1: "Overview, technical description and radio aspects";
- ETR 300-2: "Radio channels, network protocols and service performance";
- TR 102 300-3: "Direct Mode Operation (DMO)";
- ETR 300-4: "Network management";
- TR 102 300-5: "Guidance on numbering and addressing";
- TR 102 300-6: "Air-Ground-Air".**

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1 Scope

The present document is written as a "Read-me-first" manual or "Getting started with TETRA Air-Ground-Air". It is not intended to be a guide to the TETRA Air-Ground-Air standard nor an authoritative interpretation of the standard. If any conflict is found between the present document and the corresponding sections in the TETRA standard then the standard takes precedence.

The reader of the present document is assumed to have a working knowledge TETRA technology. The guidance provided in the present document is prepared with the experience of implementing an Air-Ground-Air to an existing national network.

The aims of the present document are:

- to introduce and detail the different aspects of Air-to-Ground communication in a TETRA network;
- to show the reader that Air-Ground-Air is an integral part of a TETRA network when required;
- to provide the reader with sufficient knowledge to engage in qualified discussions with the equipment and service suppliers;
- to expose the reader to the specific language and technical terminology used in the present document;
- to enable the reader to understand the flexibility in system design, system network topography, system availability, various modes of operation and security features;
- to provide basic guidance on optimising a TETRA network when including an Air-Ground-Air element.

The present document provides guidance on the requirements for an Air-Ground-Air service and how best to implement an AGA service.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

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2.1 Normative references

The following referenced documents are necessary for the application of the present document.

Not applicable.

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ECC/DEC/(06)05: "ECC Decision of 7 July 2006 on the harmonised frequency bands to be designated for Air-Ground-Air operation (AGA) of the Digital Land Mobile Systems for the Emergency Services".
- [i.2] ETSI EN 300 392-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".