Australian Standard®

User terminals for accessing the mobilesat satellite communications system

This Australian Standard was prepared by Committee RC/2, Radiocommunications Equipment—Satellite and Telecommunications Networks. It was approved on behalf of the Council of Standards Australia on 31 October 1994 and published on 5 January 1995.

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Austel

Australian Confederation of Consumers Association

Australian Electronic and Electrical Manufacturers Association

Australian Maritime Safety Authority

Civil Aviation Authority

Communication Workers Union

Consumer Electronics Supplier Association

Department of Communications and the Arts

Department of Defence, Australia

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Ministry of Commerce, New Zealand

National Association of Testing Authorities, Australia

Optus Communications

Spectrum Management Agency, Australia

State Police/Emergency Services, Australia

Telecom, Australia

Additional interests participating in preparation of Standard:

Australian Broadcasting Corporation

CSIRO, Division of Radiophysics, Australia

Department of Communications and Electronic Engineering, RMIT

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee RC/2 on Radiocommunications Equipment—Satellite and Telecommunications Networks, to supersede AS 4080—1992.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard. It is based on material supplied by OPTUS, owners and operators of the mobilesat system and includes proprietary protocols whose intellectual property is owned by OPTUS, who have advised that all manufacturers will be able to obtain licences for the intellectual property on an unlimited, non-exclusive and equitable basis. The trademark **mobilesat** is a registered OPTUS trademark.

It is intended to assist designers and manufacturers of appropriate terminal equipment as well as users of mobilesat.

The Standard was reviewed to incorporate changes intended to clarify and expand the detail of requirements. The changes are contained throughout the document and include the addition of specifications for an additional class of mobilesat terminal, with its associated parameters, specification for transmitted data rate accuracy and transmitting, receiving and environmental testing instructions.

The topics containing changes include antenna tracking requirements, OBTDM carrier acquisition requirements, power output monitoring, definitions for class and DAMA as well as Figures 6 and 8. Appendix A, including the figures, has also changed. Clarification has been made to RF radiation requirements, person-to-machine interface requirements and Table 4.

This Standard applies to mobile satellite earth terminals for accessing mobilesat which provides a range of circuit-switched voice, data, facsimile and messaging services, using the B Series OPTUS satellites. The satellite transponders will enable a large number of mobilesat terminals transmitting and receiving at L-band to communicate via satellite with fixed earth stations transmitting and receiving at Ku-band.

AUSTEL Technical Standard TS 022 defines the mobilesat terminal compatibility requirements for access to the mobilesat system and through it where appropriate, to a carrier network.

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