



Telecommunications Technical Standard (Requirements for Connection to an Air Interface of a Telecommunications Network – AS/CA S042) 2015

Telecommunications Act 1997

The AUSTRALIAN COMMUNICATIONS AND MEDIA AUTHORITY makes this Technical Standard under subsection 376(1) of the *Telecommunications Act 1997*.

Dated 17th February 2015

Chris Chapman
[signed]
Member

Richard Bean
[signed]
Member /
~~General Manager~~

Australian Communications and Media Authority

Part 1 – Preliminary

1 Name of Technical Standard

- (1) This Technical Standard is the *Telecommunications Technical Standard (Requirements for Connection to an Air Interface of a Telecommunications Network – AS/CA S042) 2015*.
- (2) This Technical Standard may also be cited as AS/CA S042-2015.

2 Commencement

This Technical Standard commences on the day after it is registered.

Note All legislative instruments must be registered on the Federal Register of Legislative Instruments required to be maintained under the *Legislative Instruments Act 2003*.

3 Revocation

The following instruments are revoked:

- (a) *Telecommunications Technical Standard (Requirements for Connection to an Air Interface of a Telecommunications Network – Part 1: General – AS/CA S042.1:2010) 2011* [F2011L00675];
- (b) *Telecommunications Technical Standard (Requirements for Connection to an air interface of a Telecommunications Network – Part 3: GSM Customer Equipment – AS/ACIF S042.3:2005) 2005* [F2006L00086]; and
- (c) *Telecommunications Technical Standard (Requirements for Connection to an Air Interface of a Telecommunications Network – Part 4: IMT-2000 Customer Equipment – AS/CA S042.4:2010) 2011* [F2011L00682].

4 Objects of Technical Standard

The objects of this Technical Standard are to specify requirements that are necessary or convenient for:

- (a) protecting the integrity of a telecommunications network or a facility;
- (b) protecting the health or safety of persons who:
 - (i) operate;
 - (ii) work on;
 - (iii) use services supplied by means of; or
 - (iv) are otherwise reasonably likely to be affected by the operation of;a telecommunications network or a facility;
- (c) ensuring that customer equipment can be used to give access to an emergency call service; and

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- (d) ensuring, for the purposes of the supply of a standard telephone service, the interoperability of customer equipment with a telecommunications network to which the equipment is, or is proposed to be, connected.

Part 2 – Interpretation

5 Definitions

In this Technical Standard:

3GPP technical specifications means technical specifications developed and maintained by 3GPP.

Note “3GPP” stands for the 3rd Generation Partnership Project, being a collaboration of telecommunications standard development organisations that, among other things, develops and maintains technical specifications that define cellular telecommunications network technologies, including the GSM. 3GPP technical specifications are available on 3GPP’s website at <http://www.3gpp.org>.

ACMA transition period, in relation to an applicable Australian Standard, has the meaning given by section 7.

Act means the *Telecommunications Act 1997*.

addressable device means a device that enables a carriage service provider to identify the device when used for two-way communications on a public mobile telecommunications service or a satellite service supplied by the carriage service provider.

amendment instrument, in relation to an applicable Australian Standard, means an instrument that amends that standard.

applicable Australian Standard, in relation to an item, has the meaning given by section 6.

AS/ACIF S042.3:2005 means the Australian Standard AS/ACIF S042.3:2005 – *Requirements for connection to an air interface of a Telecommunications Network – Part 3: GSM Customer Equipment* published by the Australian Communications Industry Forum Limited (now known as Communications Alliance Ltd) in December 2005.

AS/CA S042.1:2010 means the Australian Standard AS/CA S042.1:2010 – *Requirements for connection to an air interface of a Telecommunications Network – Part 1: General* published by Communications Alliance Ltd in October 2010.

AS/CA S042.4:2010 means the Australian Standard AS/CA S042.4:2010 – *Requirements for connection to an air interface of a Telecommunications Network – Part 4: IMT-2000 Customer Equipment* published by Communications Alliance Ltd in October 2010.

Australian Standard transition period has the meaning given by section 8.

GSM means the Global System for Mobile Communications, as defined by the 3GPP technical specifications.

GSM item means an item that is designed or intended for use in connection with a public mobile telecommunications service that uses the GSM.

Note An IMT item can also be a GSM item if it is capable of being used in connection with a public mobile telecommunications service that uses the GSM.

IMT means the set of globally harmonised standards for third generation wireless telecommunication services and equipment which is termed “IMT” by the International Telecommunication Union.

Note IMT is available at the International Telecommunication Union’s website at <http://www.itu.int>.

IMT item means an item that:

- (a) is designed or intended for use in connection with a public mobile telecommunications service; and
- (b) uses any of the following technologies to which IMT applies:
 - (i) UTRA FDD;
 - (ii) E-UTRA FDD;
 - (iii) E-UTRA TDD;
 - (iv) OFDMA TDD WMAN.

Note “UTRA FDD” stands for Universal Terrestrial Radio Access Frequency Division Duplexing.

“E-UTRA FDD” stands for Evolved Universal Terrestrial Radio Access Frequency Division Duplexing.

“E-UTRA TDD” stands for Evolved Universal Terrestrial Radio Access Time Division Duplexing.

“OFDMA TDD WMAN” stands for Orthogonal Frequency Division Multiple Access Time Division Duplexing Wireless Metropolitan Area Network.

included in a class of items has the meaning given by section 9.

item means a thing that is customer equipment to which this Technical Standard applies, as provided by section 11, and includes a modified item.

manufacturer, in relation to an item, includes (but is not limited to) a person who modifies the item.

modified item means an item that has been modified, by or on behalf of the manufacturer or importer of the item, after the item was manufactured or imported and, for the avoidance of doubt, is the item as modified.

original item has the meaning given by subsection 9(1).

original modified item has the meaning given by subsection 9(2).

replacement standard, in relation to an applicable Australian Standard, means a standard that replaces the applicable Australian standard.

satellite service means a carriage service, where customer equipment used in connection with the supply of the service communicates directly with a satellite-based facility.

Note In accordance with paragraph 13(1)(b) of the *Legislative Instruments Act 2003*, other expressions in this Technical Standard have the same meaning as in the Act, including:

- carriage service (see section 7)
- carriage service provider (see sections 7 and 87)
- customer equipment (see sections 7 and 21)
- emergency call service (see section 7)
- facility (see section 7 and subsection 374(2))
- import (see section 7)
- manufacturer or importer of customer equipment or customer cabling (see section 406A)
- public mobile telecommunications service (see sections 7 and 32)
- satellite based-facility (see section 7)
- standard telephone service (see section 7)
- telecommunications network (see section 7 and subsection 374(1)).

6 Applicable Australian Standard

In this Technical Standard, each of the following is an **applicable Australian Standard** in relation to an item:

- (a) in all cases – AS/CA S042.1:2010;
- (b) if the item is a GSM item – AS/ACIF S042.3:2005;
- (c) if the item is an IMT item – AS/CA S042.4:2010.

Note AS/CA S042.1:2010, AS/ACIF S042.3:2005 and AS/CA S042.4:2010 are available on Communications Alliance Ltd’s website at <http://www.commsalliance.com.au>.

Example If an IMT item is also a GSM item (see the Note at the end of the definition of “GSM item”), AS/CA S042.1:2010, AS/ACIF S042.3:2005 and AS/CA S042.4:2010 are all applicable Australian Standards in relation to the IMT item.

7 ACMA transition period

In this Technical Standard, if an applicable Australian Standard is amended or replaced, there is an **ACMA transition period** in relation to the applicable Australian Standard, being:

- (a) in a case where there is an Australian Standard transition period for the amendment or replacement of the applicable Australian Standard – a period that is the same as the Australian Standard transition period; or
- (b) in any other case – a period of two years commencing on the day the applicable Australian Standard is amended or replaced.

Note 1 See subsections 13(3) and 14(4) in relation to an ACMA transition period.

Note 2 If the applicable Australian Standard is amended or replaced during an ACMA transition period, there is another ACMA transition period which overlaps with the first-mentioned transition period. See subsections 13(4) and 14(5) in relation to overlapping ACMA transition periods.

8 Australian Standard transition period

- (1) If:
- (a) an amendment instrument or a replacement standard, in relation to an applicable Australian Standard, determines arrangements to deal with any issues of a transitional nature that may arise as a result of the amendment or replacement of the applicable Australian Standard;
 - (b) the arrangements are for a specified period commencing on the day the applicable Australian Standard is amended or replaced; and
 - (c) the arrangements have the effect of allowing a relevant item to comply with:
 - (i) the applicable Australian Standard as in force immediately before the commencement of the specified period; or
 - (ii) the applicable Australian Standard, or the replacement standard, as in force at the commencement of the specified period;

the specified period is an *Australian Standard transition period* for the amendment or replacement of the applicable Australian Standard, for the purposes of section 7.

- (2) For the purposes of subsection (1), each of the following is a *relevant item*:
- (a) an item that is manufactured in Australia or imported during the specified period;
 - (b) a modified item that is made in Australia or imported during the specified period.

9 Class of items

- (1) In this Technical Standard:
- (a) an item (other than a modified item) is *included in a class of items* if the item:
 - (i) is identical to each other item of the class (irrespective of when the items were manufactured or imported); and
 - (ii) has the same manufacturer or importer as each other item; and
 - (b) the *original item*, in relation to the class, is the item of the class that was the first to be manufactured in Australia or imported.

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- (2) In this Technical Standard:
- (a) a modified item is *included in a class of items* if:
 - (i) the modification which resulted in that item is identical to the modification which resulted in each other item of the class (irrespective of when the items were so modified);
 - (ii) the modified item is, in all other respects, identical to each other item (irrespective of when the items were manufactured or imported); and
 - (iii) the modified item has the same manufacturer or importer as each other item; and
 - (b) the *original modified item*, in relation to the class, is the item of the class that was the first to be so modified in Australia or imported.

10 Time a modified item is made

In this Technical Standard, a reference to *the time a modified item is made* is a reference to the time of making of the modification which results in that item.

Part 3 – Application and requirements

11 Application of this Technical Standard

This Technical Standard applies to a thing that is customer equipment that:

- (a) is designed or intended for use in connection with a public mobile telecommunications service or a satellite service, or both; and
- (b) is an addressable device.

12 Requirements

- (1) An item (other than a modified item) must meet the requirements of subsection 13(1), (2), (3) or (4) in relation to each applicable Australian Standard.
- (2) A modified item must meet the requirements of subsection 14(1), (2), (3), (4) or (5) in relation to each applicable Australian Standard.

13 Standard for items (other than modified items)

- (1) If an item complies with an applicable Australian Standard as in force at the time the item is manufactured in Australia or imported, the item meets the requirements of this subsection in relation to the applicable Australian Standard.
- (2) If an item:
 - (a) is included in a class of items; and

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- (b) complies with an applicable Australian Standard as in force at the time the original item of the class was manufactured in Australia or imported;

the first-mentioned item meets the requirements of this subsection in relation to the applicable Australian Standard.

- (3) If:
 - (a) there is an ACMA transition period in relation to an applicable Australian Standard;
 - (b) an item is manufactured in Australia or imported during the transition period; and
 - (c) the item complies with:
 - (i) the applicable Australian Standard as in force immediately before the commencement of the transition period; or
 - (ii) the applicable Australian Standard, or a replacement standard, as in force at the commencement of the transition period;

the item meets the requirements of this subsection in relation to the applicable Australian Standard.

- (4) If:
 - (a) an ACMA transition period overlaps with another ACMA transition period in relation to an applicable Australian Standard;
 - (b) an item is manufactured in Australia or imported during the period of overlap; and
 - (c) the item complies with:
 - (i) the applicable Australian Standard as in force immediately before the commencement of the earliest of those transition periods; or
 - (ii) the applicable Australian Standard, or a replacement standard, as in force at the commencement of any one of those transition periods;

the item meets the requirements of this subsection in relation to the applicable Australian Standard.

14 Standard for modified items

- (1) If a modified item complies with an applicable Australian Standard as in force at the time that the modified item is made in Australia or imported, the modified item meets the requirements of this subsection in relation to the applicable Australian Standard.
- (2) If a modified item:

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- (a) is included in a class of items; and
 - (b) complies with an applicable Australian Standard as in force at the time the original modified item of the class was made in Australia or imported;

the first-mentioned item meets the requirements of this subsection in relation to the applicable Australian Standard.

(3) If:

- (a) a modified item would have been included in a class of items but for the making of the modification which resulted in that item; and
- (b) the modification is not material and, in particular, the modified item complies with the applicable Australian Standard as in force at the time the original item of the class was made in Australia or imported;

the first-mentioned item meets the requirements of this subsection in relation to the applicable Australian Standard.

Note The modification is **material** if the modification would or could reasonably be expected to affect whether the modified item complies with the applicable Australian Standard as in force at the time the original item of the class was made in Australia or imported.

(4) If:

- (a) there is an ACMA transition period in relation to an applicable Australian Standard;
- (b) a modified item is made in Australia or imported during the transition period; and
- (c) the modified item complies with:
 - (i) the applicable Australian Standard as in force immediately before the commencement of the transition period; or
 - (ii) the applicable Australian Standard, or a replacement standard, as in force at the commencement of the transition period;

the modified item meets the requirements of this subsection in relation to the applicable Australian Standard.

(5) If:

- (a) an ACMA transition period overlaps with another ACMA transition period in relation to an applicable Australian Standard;
- (b) a modified item is made in Australia or imported during the period of overlap; and
- (c) the modified item complies with:

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- (i) the applicable Australian Standard as in force immediately before the commencement of the earliest of those transition periods; or
 - (ii) the applicable Australian Standard, or a replacement standard, as in force at the commencement of any one of those transition periods;

the modified item meets the requirements of this subsection in relation to the applicable Australian Standard.

Part 4 – Savings and transitional arrangements

15 Items manufactured, imported or modified before commencement

- (1) If:
 - (a) an item (other than a modified item) was manufactured or imported before the commencement of this Technical Standard;
 - (b) the item complies with the *Telecommunications Technical Standard (Requirements for Connection to an Air Interface of a Telecommunications Network — Part 1: General — AS/CA S042.1:2010) 2011* as in force immediately before the commencement of this Technical Standard;
 - (c) in a case where the item is a GSM item – the item also complies with the *Telecommunications Technical Standard (Requirements for Connection to an air interface of a Telecommunications Network — Part 3: GSM Customer Equipment – AS/ACIF S042.3:2005) 2005* as in force immediately before the commencement of this Technical Standard; and
 - (d) in a case where the item is an IMT item – the item also complies with the *Telecommunications Technical Standard (Requirements for Connection to an Air Interface of a Telecommunications Network — Part 4: IMT-2000 Customer Equipment – AS/CA S042.4:2010) 2011* as in force immediately before the commencement of this Technical Standard;the item is taken to comply with this Technical Standard.
- (2) If:
 - (a) a modified item was made in Australia or imported before the commencement of this Technical Standard;

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- (b) the modified item complies with the *Telecommunications Technical Standard (Requirements for Connection to an Air Interface of a Telecommunications Network — Part 1: General — AS/CA S042.1:2010) 2011* as in force immediately before the commencement of this Technical Standard;
 - (c) in a case where the modified item is a GSM item – the modified item also complies with the *Telecommunications Technical Standard (Requirements for Connection to an air interface of a Telecommunications Network — Part 3: GSM Customer Equipment – AS/ACIF S042.3:2005) 2005* as in force immediately before the commencement of this Technical Standard; and
 - (d) in a case where the modified item is an IMT item – the modified item also complies with the *Telecommunications Technical Standard (Requirements for Connection to an Air Interface of a Telecommunications Network — Part 4: IMT-2000 Customer Equipment – AS/CA S042.4:2010) 2011* as in force immediately before the commencement of this Technical Standard;

the modified item is taken to comply with this Technical Standard.