

## INDUSTRY GUIDELINE

### G557.6:2026

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## Location Information for Emergency Calls

### Part 6: Advanced Mobile Location

May 2026



# G557.6:2026 LOCATION INFORMATION FOR EMERGENCY CALLS

## PART 6: ADVANCED MOBILE LOCATION

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## INTRODUCTORY STATEMENT

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The **Location Information for Emergency Calls Part 6: Advanced Mobile Location (AML)** Industry Guideline (G557.6:2026) replaces the **Location Information for Emergency Calls Part 6: Advanced Mobile Location (AML)** Industry Guideline (G557.6:2021).

G557.6:2026 is designed to:

- specify the arrangements for the transfer of Advanced Mobile Location (AML) information which is received from Customer Equipment (CE) in accordance with AS/CA S042.1 associated with calls in Australia to 000 and 112 between Mobile Carriers and the Emergency Call Person (ECP) for 000 and 112; and
- specify the transport mechanism for the transfer of AML information between Mobile Carriers and the ECP for 000 and 112.

The purpose of the change is to:

- Clarify the status of roaming in the scope, given the Government plans to introduce temporary disaster roaming in Australia; and
- Include editorial updates.

Albert Chittenden

**Mobile Location Revision Working Committee**

May 2026

## PUBLICATION HISTORY

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First published as G557.6:2019  
Second edition as G557.6:2021  
This edition as G557.6:2026

## TABLE OF CONTENTS

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<b>1. GENERAL</b>	<b>5</b>
<hr/>	
1.1 Introduction	5
1.2 Scope	5
1.3 Objectives	7
1.4 Guideline Review	7
<b>2. ACRONYMS, DEFINITIONS AND INTERPRETATIONS</b>	<b>8</b>
<hr/>	
2.1 Acronyms	8
2.2 Definitions	8
2.3 Interpretations	10
<b>3. MOBILE CARRIER ECP CONNECTION</b>	<b>11</b>
<hr/>	
3.1 Mobile Carrier-ECP connection	11
3.2 AML Information Sent via Short Message (SM)	12
3.3 O&M for Mobile Carrier-ECP connection	12
3.4 PRIVACY	12
3.5 SECURITY	12
3.6 TESTING	12
<b>4. REFERENCES</b>	<b>13</b>
<b>PARTICIPANTS</b>	<b>15</b>
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## 1. GENERAL

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### 1.1 INTRODUCTION

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1.1.1 The development of the Guideline has been facilitated by Communications Alliance through a Working Committee comprised of representatives from the telecommunications industry.

1.1.2 The Guideline has been developed to support:

- a. the Government announcement of 16 December 2020 that “*Advanced Mobile Location (AML) technology is now being deployed for the Australian Triple Zero (000) Emergency Call Service*”.
- b. The interest of the National Emergency Communications Working Group Australia / New Zealand, which includes representatives of Emergency Service Organisations (ESOs) and Carriers, in the implementation of AML.

**NOTES:**

1. The Government announcement of 16 December 2020 is available from <https://www.infrastructure.gov.au/media-centre/advanced-mobile-location>

2. Refer to other parts of G557 for information on other forms of location information associated with Emergency Calls from CE.

1.1.3 The Guideline should be read in the context of other relevant Industry Codes, Standards, Guidelines, Industry Guidance Notes and documents.

1.1.4 The Guideline should be read in conjunction with related legislation and determinations, including:

- a. the Telecommunications Act 1997 (the Act);
- b. the Privacy Act 1988 (Cth); and
- c. Telecommunications (Emergency Call Service) Determination 2019 (the Determination).

1.1.5 If there is a conflict between the requirements of the Guideline and any requirements imposed on a Supplier by statute, the Supplier will not be in breach of the Guideline by complying with the requirements of the statute.

1.1.6 Compliance with this Guideline does not guarantee compliance with any legislation. The Guideline is not a substitute for legal advice.

1.1.7 Statements in boxed text are a guide to interpretation only and not binding as Guideline rules.

### 1.2 SCOPE

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1.2.1 The Guideline applies to the Carriers and Carriage Service Providers (CSPs) sections of the telecommunications industry under section 110 of the Act.

1.2.2 The Guideline deals with the following telecommunications activities as defined in section 109 of the Act:

- c. carrying on business as a Carrier; or
- d. carrying on business activities as a CSP; or
- e. supplying goods or service(s) for use in connection with the supply of a Listed Carriage Service.

- 1.2.3 The Guideline applies to:
- a. Mobile Carriers; and
  - b. The Emergency Call Person (ECP) for 000 and 112.
- 1.2.4 The Guideline does not apply to ESOs.
- 1.2.5 The Guideline does not apply to the ECP for 106.
- 1.2.6 The Guideline does not apply to CE vendors.
- 1.2.7 The Guideline does not apply to AML requirements for Emergency Calls:
- a. to 106;
  - b. from services which are not a Public Mobile Telecommunications Service (PMTS);
  - c. from Voice over the Internet Protocol (VoIP) services that are PMTS but operate independently of a MSC Server (MSS) (e.g. 'over the top' of an underlying mobile data service);
  - d. from CE for which the Mobile Carrier is unable to determine the unique calling line identification (CLI), e.g. no Subscriber Identity Module (SIM), or SIM not authorised to roam on the visited Public Land Mobile Network (PLMN) (as happens in 'emergency camp-on');
  - e. International Authorised Roamers (inbound or outbound);
  - f. National outbound Authorised Roamers that are not roaming under Temporary Disaster Roaming (TDR); and
  - g. From CE or services that do not register for a Short Message Service (SMS) or enable for SMS.

*NOTE: Examples of exclusions are:*

*(a) User opts out for SMS.*

*(b) User has been barred by the Mobile Carrier, including:*

*(i) financial barring of postpaid mobile customers;*

*(ii) service suspension; and*

*(iii) blocking.*

*(c) Prepaid mobile customers who are out of credit.*

*(d) Emergency camp-on, in which case there is:*

*(i) no SMS associated with an Emergency Call, so the CE is unable to send an AML SM; and*

*(ii) no CLI associated with an Emergency Call, so it is not possible to match an AML SM to the Emergency Call.*

*(e) Use in Australia of a mobile service from a service provider not in Australia i.e. international inbound roaming. An AML SM sent to the SMSC in the end user's home country cannot be reliably routed to the destination number 1262612626 in Australia.*

- 1.2.8 The Guideline does not deal with situations where a Mobile Carrier is technically unable to transfer an AML Short Message (SM) due to a matter beyond its control, including:
- a. when the network(s) of the Mobile Carrier and/or the ECP are experiencing major faults such as the failure of an MSS, or data links to the ECP; or
  - b. there is a level of SM traffic above the forecast of a Mobile Carrier.

**NOTES:**

1. When a Mobile Carrier is unable to transfer an AML SM, the MoLI based on G557.2, G557.4 and G557.5 may still be available.
2. Refer to AS/CA S042.1 for AML requirements for CE.

### 1.3 OBJECTIVES

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The objectives of the Guideline are:

- a. Specify the arrangements for the transfer of an AML SM which is received from CE in accordance with AS/CA S042.1:
- b. associated with calls in Australia to 000 and 112; and
- c. between Mobile Carriers and the ECP for 000 and 112;
- d. Specify the transport mechanism for the transfer of an AML SM from a Mobile Carrier to the ECP for 000 and 112.

*NOTE: The European Emergency Number Association originally specified the format of an AML SM (refer to <https://eena.org/aml/> for more information). The set of AML attributes is defined in ETSI TS 103 625.*

### 1.4 GUIDELINE REVIEW

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The Guideline will be reviewed after 5 years of the Guideline being published and every 5 years subsequently, or earlier in the event of significant developments that impact on the Guideline.

## 2. ACRONYMS, DEFINITIONS AND INTERPRETATIONS

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### 2.1 ACRONYMS

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2.1.1 For the purposes of the Guideline:

**ACMA** – Australian Communications and Media Authority.

**AML** – Advanced Mobile Location.

**CE** – Customer Equipment.

**CLI** – Calling Line Identification.

**CSP** – Carriage Service Provider.

**DOS** – Denial Of Service

**ECP** – Emergency Call Person.

**EENA** – European Emergency Number Association.

**ESO** – Emergency Service Organization.

**ETSI** – European Telecommunications Standards Institute.

**MoLI** – Mobile Location Information.

**MSC** – Mobile services Switching Centre.

**MSS** – MSC Server.

**O&M** – Operations and Maintenance.

**PLMN** – Public Land Mobile Network.

**PMTS** – Public Mobile Telecommunications Service.

**SIM** – Subscriber Identity Module.

**SM** – Short Message.

**SMPP** – Short Message Peer to Peer.

**SMS** – Short Message Service.

**SMSC** – Short Message Service Centre.

**TDR** - Temporary Disaster Roaming

**VoIP** – Voice over the Internet Protocol.

### 2.2 DEFINITIONS

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2.2.1 For the purposes of the Guideline:

**Act** – means the *Telecommunications Act 1997 (Cth)*.

**Advanced Mobile Location** - means location information derived by mobile station equipment using its built-in positioning methods, including:

- a. assisted global navigation satellite system (GNSS);

- b. GNSS;
- c. Wi-Fi; or
- d. cellular.

**NOTES:**

1. Refer to ETSI TS 103 625 and G557.6.
2. Mobile Station Equipment is the term used in ETSI Publications to describe Customer Equipment.

**Authorised Roamer** – means a subscriber whose PLMN is present in roaming agreements at the gateway station to which the subscriber is attempting to reregister.

NOTE: Refer to ETSI TS 101 376-3-19.

**Carriage Service Provider** – has the meaning given by section 87 of the Act.

**Carrier** – has the meaning given by section 7 of the Act.

**Customer Equipment** – has the meaning given by section 21 of the Act.

**Determination** – means the Telecommunications (Emergency Call Service) Determination 2019.

**Emergency Call** – has the meaning given by the Determination.

**Emergency Call Person** – has the meaning given by section 7 of the Act.

**Emergency Call Person for 000 and 112** – has the meaning given by the Determination.

**Emergency Call Person for 106** – has the meaning given by the Determination.

**Emergency Call Service** - has the meaning given by section 7 of the Act.

**Emergency Service Organisation** – has the meaning given by the Determination.

**Listed Carriage Service** – has the meaning given by section 16 of the Act.

**Mobile Carrier** – means a Carrier that owns or operates a controlled network or controlled facility used to supply a PMTS.

**Mobile Location Information** – means information that is available about the approximate location of the CE of an end user on a PMTS.

**Public Mobile Telecommunications Service** – has the meaning given by section 32 of the Act.

**Short Message** – means information that may be conveyed by means of a Short Message Service.

**Temporary Disaster Roaming** – means roaming onto a non-home mobile network in a defined area and for a defined time duration during a localised natural disaster or major emergency.

**NOTES:**

1. TDR supports continued access to essential services by supporting voice calls and text messaging, particularly to contact emergency service organisations and to receive disaster alerts.
2. TDR is not a precondition to make an Emergency Call during a natural disaster or major emergency. CE may register on a network that is not a home network to make an Emergency Call without using TDR e.g. via 'emergency camp on'.

**Triple Zero** - means the Emergency Call Service for calls to 000 and 112.

## 2.3 INTERPRETATIONS

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### 2.3.1 In the Guideline, unless the contrary appears:

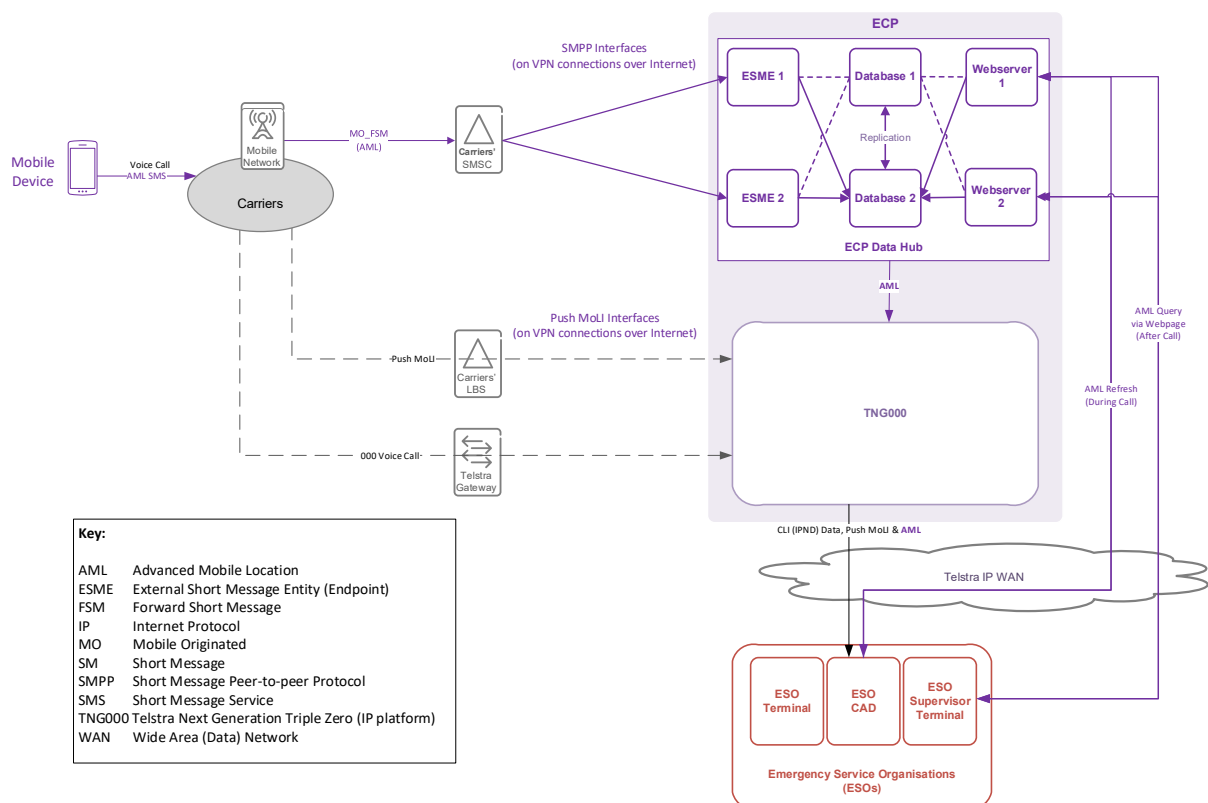
- a. headings are for convenience only and do not affect interpretation;
- b. a reference to a statute, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments, re-enactments or replacements of any of them;
- c. words in the singular includes the plural and vice versa;
- d. words importing persons include a body whether corporate, politic or otherwise;
- e. where a word or phrase is defined, its other grammatical forms have a corresponding meaning;
- f. mentioning anything after include, includes or including does not limit what else might be included;
- g. words and expressions which are not defined have the meanings given to them in the Act; and
- h. a reference to a person includes a reference to the person's executors, administrators, successors, agents, assignees and novatees.

### 3. MOBILE CARRIER ECP CONNECTION

#### 3.1 MOBILE CARRIER-ECP CONNECTION

- 3.1.1 A Mobile Carrier and the ECP for 000 and 112 should establish dedicated links between one another for the transfer of an AML SM.
- 3.1.2 The transfer of an AML SM may be achieved via encapsulation in a SM over an SMPP link.
- 3.1.3 The telecommunications link between a Mobile Carrier and the ECP for 000 and 112 shall be via a secure transport layer (refer to Figure 1).
- 3.1.4 The telecommunications link between a Mobile Carrier and the ECP for 000 and 112 should have redundancy (refer to Figure 1).
- 3.1.5 The details of a telecommunications link between a Mobile Carrier and the ECP for 000 and 112 should be:
  - a. Agreed via bilateral agreement; and
  - b. Aligned with this Guideline.

*NOTE: The interface between the Mobile Carrier and ECP for 000 and 112 will be managed via a bilateral agreement e.g. the ECP document AATWG-750601106-124.*



**FIGURE 1**

**Inter Carrier AML and Push MoLI Architecture for Australia**

### 3.2 AML INFORMATION SENT VIA SHORT MESSAGE (SM)

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- 3.2.1 AML information sent via SM should be sent from a Mobile Carrier's Short Message Service Centre (SMSC) to the ECP for 000 and 112.
- 3.2.2 Refer to AS/CA S042.1 for information on the format of an AML SM.

*NOTE: Refer to Industry Guidance Note (IGN) 021 for information on AML operational arrangements.*

- 3.2.3 The destination Australian number for the AML SM should be 1262612626.

### 3.3 O&M FOR MOBILE CARRIER-ECP CONNECTION

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- 3.3.1 The details of operations and maintenance (O&M) processes between a Carrier and the ECP for 000 and 112 should be:
- Agreed via bilateral agreement; and
  - Aligned with this Guideline.

### 3.4 PRIVACY

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The Mobile Carrier's SMSC is not expected to interrogate or analyse the contents of a SM that contains AML information unless required to do so under legislation.

### 3.5 SECURITY

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- 3.5.1 Communication of AML information between the Mobile Carrier and ECP for 000 and 112 should be secure.

*NOTE: Security between the Mobile Carrier and ECP for 000 and 112 will be managed via a bilateral agreement e.g. the Telstra Interface Asset Service Specification (IASS) – For Service Name: Advanced Mobile Location (AML).*

- 3.5.2 Management of denial of service (DOS) attacks is via existing Mobile Carrier network management processes.

*NOTE: Communications Alliance Guideline G644 has more information on DOS attacks on involving emergency communications. G644 is not publicly available – contact Communications Alliance for more information.*

### 3.6 TESTING

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- 3.6.1 AML information sent via SM should be tested between the Mobile Carrier and ECP for 000 and 112.
- 3.6.2 Testing of AML information sent via SM should be consistent with agreed test specification(s).

*NOTE: Testing between the Mobile Carrier and ECP for 000 and 112 will be managed via a bilateral agreement e.g. the Telstra Interface Planning and Testing Agreement (IPTA) - Mobile Carriers - Triple Zero - Advanced Mobile Location (AML).*

## 4. REFERENCES

Publication	Title
<b>Australian Standards</b>	
AS/CA S042.1:2025	Requirements for connection to an air interface of a Telecommunications Network - Part 1: General <a href="https://www.austelco.org.au/publication/as-ca-s042-1-2025/">https://www.austelco.org.au/publication/as-ca-s042-1-2025/</a>
<b>Emergency Call Person Documents</b>	
AATWG-750601106-124	Interface Asset Service Specification (IASS) For Service Name: Advanced Mobile Location (AML)
AATWG-750601106-126	Telstra Interface Planning and Testing Agreement (IPTA) – Mobile Carriers Triple Zero – Advanced Mobile Location (AML)
<b>Industry Guidelines and Specifications</b>	
G557	Location Information for Emergency Calls <a href="https://www.austelco.org.au/publication/g557/">https://www.austelco.org.au/publication/g557/</a>
G557.1:2026	Part 1 General
G557.2:2014	Part 2 Standardised Mobile Service Area (SMSA) and Location Indicator Register
G557.3:2022	Part 3 Location Independent Communications Service Location Indicator for Emergency Services Signalling
G557.4:2026	Part 4 Mobile Location Information (MOLI) Processes for Emergency Calling and Rescue Coordination
G557.5:2025	Part 5 Push Mobile Location Information (MoLI) Interface to Enhanced Calling Line Identification System (ECLIPS)
G557.6:2026	Part 6 Advanced Mobile Location (AML)
G644:2020	Emergency Call Service Requirements <a href="https://www.austelco.org.au/g644_2020/">https://www.austelco.org.au/g644_2020/</a>
<b>Industry Guidance Notes</b>	
IGN 021	AML Operational Arrangements
<b>ETSI</b>	
ETSI TS 103 625 V1.3.1 (2023-03)	EMTEL; Transporting Handset Location to PSAPs for Emergency Calls – Advanced Mobile Location <a href="https://www.etsi.org/deliver/etsi_ts/103600_103699/103625/01.03.01_60/ts_103625v010301p.pdf">https://www.etsi.org/deliver/etsi_ts/103600_103699/103625/01.03.01_60/ts_103625v010301p.pdf</a>
ETSI TS 101 376-3-19 V1.1.1 (2001-03)	GEO-Mobile Radio Interface Specifications; Part 3: Network specifications;

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Sub-part 19: Optimal Routing technical realization;

GMR-1 03.297

[https://www.etsi.org/deliver/etsi\\_TS/101300\\_101399/1013760319/01.01.01\\_60/ts\\_1013760319v010101p.pdf](https://www.etsi.org/deliver/etsi_TS/101300_101399/1013760319/01.01.01_60/ts_1013760319v010101p.pdf)

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### **Legislation**

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Privacy Act 1988

<https://www.legislation.gov.au/C2004A03712/latest/text>

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Telecommunications Act 1997

<https://www.legislation.gov.au/C2004A05145/latest/text>

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### **Regulatory Instruments**

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Telecommunications (Emergency Call Service) Determination 2019

<https://www.legislation.gov.au/F2019L01509/latest/text>

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Telecommunications Numbering Plan 2025

<https://www.legislation.gov.au/F2025L00409/asmade/text>

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## PARTICIPANTS

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The Working Committee responsible for the development of this Guideline consisted of the following organisations and their representatives:

<b>Organisation</b>	<b>Membership</b>	<b>Representative</b>
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