

# Emergency Data Exchange Language (EDXL) Common Alerting Protocol (CAP) v1.2 Australia (AU) Profile Version 1.0

# **Committee Specification 02**

# 05 September 2013

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#### Related work:

This specification is related to:

- Common Alerting Protocol Version 1.2. 01 July 2010. OASIS Standard. http://docs.oasisopen.org/emergency/cap/v1.2/CAP-v1.2.html.
- Emergency Data Exchange Language (EDXL) Guidance on Common Alerting Protocol Logos and Symbols (CAP-Logo) Version 1.0. Latest version. http://docs.oasisopen.org/emergency/edxl-cap-logo/v1.0/edxl-cap-logo-v1.0.html. (Use of the CAP logo is to be in accordance with this document.)
- Example Practices: CAP Elements Version 1.0. OASIS Committee Note 01. Latest version. http://docs.oasis-open.org/emergency-adopt/cap-elements/v1.0/cap-elements-v1.0.html.
- Example Practices: CAP Feeds Version 1.0. OASIS Committee Note 01. Latest version. http://docs.oasis-open.org/emergency-adopt/cap-feeds/v1.0/cap-feeds-v1.0.html.

#### Abstract:

This Profile of the XML-based Common Alerting Protocol (CAP) describes an interpretation of the OASIS CAP v1.2 standard necessary to meet the needs of the Australian Government.

#### Status:

This document was last revised or approved by the OASIS Emergency Management TC on the above date. The level of approval is also listed above. Check the "Latest version" location noted above for possible later revisions of this document.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at http://www.oasis-open.org/committees/emergency/.

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## 1 Introduction

## 2 1.1 Purpose

- 3 In order to meet the needs of the Australian emergency management community, this Common Alerting
- 4 Protocol (CAP) Australia Profile constrains the CAP v1.2 Standard for receipt and translation with and
- 5 among Australian CAP Users.

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- The CAP provides an open, non-proprietary digital message format for all types of alerts and notifications.
- 8 It does not address any particular application or telecommunications method. The CAP format is
- 9 compatible with emerging techniques, such as Web services, as well as existing formats while offering
- 10 enhanced capabilities that include:
- Flexible geographic targeting using latitude/longitude shapes and other geospatial representations in three dimensions;
- Multilingual and multi-audience messaging;
- Enhanced message update and cancellation features;
- Template support for framing complete and effective warning messages;
- Compatible with digital encryption and signature capability; and
- Facility for digital images and audio.

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- 19 The purpose of this document is to:
- Facilitate the adoption of the international CAP standard within Australia;
- Provide the Profile for the Common Alerting Protocol Australia (CAP-AU);
- Provide guidance and reference material to assist Australian agencies and organisations to implement the CAP Standard; and
- Define the set of rules and managed lists of values that are recommended for CAP use within hazard
   alerting systems that are implemented in Australia, and systems that seek to interoperate with
   Australian CAP systems.

### 1.2 Process

- 28 This profile was developed in accordance with OASIS Technical Committee Process, for inclusion as an
- 29 attachment within the Australian Government Standard for the CAP Australia Profile (CAP-AU-STD) that
- 30 was developed in parallel by the Australian Commonwealth Attorney-General's Department using the
- 31 Australian Government National Standards Framework (NSF) process.

# 1.3 Terminology

- 33 The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD
- NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described
- 35 in RFC 2119.
- 36 The words warning, alert and notification are used interchangeably throughout this document.
- 37 **Managed List** As used in this document refers to a collection of permitted values specific to a given element within a CAP-AU file (for example, the AUeventLIST).
- Profile As used in this document, a Profile refers to a collection of rules, managed lists, and other references, which pertain to the CAP v1.2 Standard. A Profile is accepted as necessary to address needs specific to a country or system using the CAP v1.2 Standard, and to the full

community of users identifying with the profile. Profile elements are identified by using a valueName URN prefix unique to that Profile and only Profile elements should use this prefix.

The Internet Engineering Task Force (IETF) RFC 3121 Namespace memo is applied to create valueNames for a Profile, and the character formatting complies with IETF RFC 2141, including case in-sensitivity.

Example: urn:oasis:names:tc:emergency:cap:1.2:profile:CAP-AU:1.0

**Layer** – As used in this document, a Layer refers to message elements that are not required by the CAP v1.2 Standard nor a Profile but may involve other information for a specific community of users

The IETF RFC 3121 Namespace memo is applied to create valueNames for a Layer, and the character formatting complies with IETF RFC 2141, including case in-sensitivity.

<type> will be "layer"

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- <sub-type> is a unique string identifying additional information about the <type>. This might also be the Agency who publishes the information.
- <document identifier> is further information such as a further identifying name, subsegment, or version number.

Layer creators should ensure that their valueNames follow this format, do not conflict with established CAP-AU valueNames, and uniquely identify their organisation.

Example: layer:Agency Name:Name of Layer

**Rule Set** – As used in this document refers to a collection of rules which are applied to the use of the CAP v1.2 Standard, which impose usage requirements beyond those of the Standard, but also remain in compliance with the Standard.

## 1.4 Normative References

65 66 67	[AUeventLIST]	Australian Government, Attachment B to CAP-AU-STD, Australian All-Hazards Event Code List. Latest version. https://govshare.gov.au/xmlui/handle/10772/6495			
68 69 70	[dateTime]	N. Freed, XML Schema Part 2: Datatypes Second Edition, http://www.w3.org/TR/xmlschema-2/#dateTime, W3C REC-xmlschema-2, October 2004.			
71 72	[ISO 639.2]	Codes for the Representation of Names of Languages, 18 October 2010. http://www.loc.gov/standards/iso639-2/php/English_list.php			
73 74	[namespaces]	T. Bray, Namespaces in XML, W3C REC-xml-names-19990114, January 1999. http://www.w3.org/TR/REC-xml-names/			
75 76 77	[National Standard	ds Framework (NSF)] Australian Government Information Management Office, August 2009.  http://www.finance.gov.au/publications/national-standards-framework/index.html			
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80 81	[RFC2119]	S. Bradner, Key words for use in RFCs to Indicate Requirement Levels, IETF RFC 2119, March 1997. http://www.ietf.org/rfc/rfc2119.txt			
82 83	[RFC2141]	R. Moats, URN Syntax, IETF RFC2141, May 1997. http://www.ietf.org/rfc/rfc2141.txt			
84 85	[RFC3066]	H. Alvestrand, Tags for the Identification of Languages, IETF RFC 3066, January 2001. http://www.ietf.org/rfc/rfc3066.txt			
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93 94 95	[XMLSIG]	Eastlake, D., Reagle, J. and Solo, D. (editors), XML-Signature Syntax and Processing, W3C Recommendation, February 2002. http://www.w3.org/TR/2002/REC-xmldsig-core-20020212/
96 97 98	[XMLENC]	Eastlake, D. and Reagle, J. (editors), XML Encryption Syntax and Processing, W3C Recommendation, December 2002. http://www.w3.org/TR/2002/REC-xmlenc-core-20021210/

## 1.5 Non-Normative References

100	[Requirements -	CAP Australian Profile] Buchanan, K., Trott, G. (editors), Discussion Paper			
101		Common Alerting Protocol - Australian Profile, Version 1.0, 30 September 2010.			
102	[CAP-AU-STD]	STD] Australian Government, Australian Government Standard for the Common			
103		Alerting Protocol – Australia Profile. Latest version.			
104		https://govshare.gov.au/xmlui/handle/10772/6380			
105	[GDA94]	Australian Government, Geocentric Datum of Australia 1994.			
106		http://www.ga.gov.au/earth-monitoring/geodesy/geodetic-datums/GDA.html			

The implementation of the Common Alerting Protocol within Australia is defined within the CAP-AU-STD, which is a multi-part document that provides background, guidance, rules, managed lists and reference information to enable CAP-AU to be implemented.

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## 1.6 Requirements

112 The requirements for the CAP-AU were gathered from numerous sources including emerging CAP Country Profiles, and existing CAP Users within Australian emergency management organisations. All 113 requirements were collated into the Requirements - CAP Australian Profile document that was reviewed 114 by the Australian CAP Stakeholder Group during the period October 2010 - December 2010, resulting in 115 an agreed list of CAP-AU requirements. The requirements were finalised as a result of the outcomes 116 117 from a CAP event codes workshop conducted in February 2011, including establishment of the initial list 118 of Australian event codes.

# 2 CAP v1.2 Australia Profile

120 The Element and Sub-elements tables in the following sub-sections specify the constraints placed by the 121 CAP-AU Profile on the CAP v1.2 message in order for the message to be a valid CAP-AU message. The 122 CAP-AU constraints are additional to any constraints imposed by the OASIS CAP v1.2 Standard. The tables contain only those elements and sub-elements that apply a specific constraint or condition 123 124 prescribed by the CAP-AU Profile. The value and description for each element and sub element are 125 found in the CAP v1.2 Standard. The value for the <code> element provides the version of the CAP-AU 126 Profile to be used for this version of the Profile. CAP-AU alert messages exist in a lifecycle, which has a 127 beginning, middle and end. Messages are transactions on a hazard alert and each message updates the

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state of the alert.

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#### Definitions applying to the CAP-AU Profile Element and Sub-elements Tables

The elements tables below represent the requirements and guidelines that are intended to apply to all CAP-AU messages. The following definitions apply to the components shown in the tables:

Element - a CAP-XML element as described in the CAP v1.2 Standard:

- A bold listed Element name denotes that the element is REQUIRED to be used by this
  Profile to assure conformance with the CAP v1.2 Standard.
- A non-bolded Element name denotes that this Profile and the CAP v1.2 Standard will accept that use of the element is OPTIONAL.

**Use** - a rule outlining the usage specifics of an element. As per the CAP v1.2 Standard, one of "REQUIRED", or "Optional", and as per CAP-AU Profile one of "REQUIRED", "CONDITIONAL" or "Optional". Any sub-elements of the <info>, <resource> or <area> elements whose use is specified as REQUIRED, are only mandatory inclusions when the <info>,<resource> or <area> element is included in a CAP-AU message.

**Type** - a categorisation of "Technical" in relation to format or structure that relates to the CAP v1.2 Standard or CAP-AU Profile, or "Policy" if the element relates to the business of public alerting.

- Notes any special notes regarding implementation of a rule.
- 147 **Example** XML examples or snippets, which illustrate a typical use of a rule.

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative					
2.1 "alert" E	2.1 "alert" Elements and Sub-elements								
alert	REQUIRED	Note: The <alert> element is not specific to any included <info> element, but is to serve as a general reference to all associated <info> elements and their content.</info></info></alert>	Technical						
identifier	REQUIRED	Notes: 1) SHALL be assigned by the message producer. 2) For messages that are to be shared between organisations, the <identifier> SHOULD enable the message to be associated with a specific hazard event and originating organisation. 3) A national database of hazard event identifiers does not yet exist in Australia.</identifier>	Technical	Example: CAP v1.2 Standard					
sender	REQUIRED	Notes:  1) It is RECOMMENDED that a valid email address in the format example@domain that identifies the agency that assembled the message, or another agency that originated the message be used.  2) Use of Third Level Domain (example@bom.gov.au) or Fourth Level Domain (example@ses.sa.gov.au) names as the <sender> value, are considered acceptable methods to create uniqueness.</sender>	Technical	Example (note 3):  When the Duty Operations Officer at the Department of Fire and Emergency Services (DFES) in Western Australia (WA) receives hazard alerting information from the WA Police (WAPOL) in non-CAP format (i.e. it was received via a telephone call), the DFES Duty Operations Officer reformats the data into CAP format using that State's alerting system, then redistributes the message on behalf of WAPOL.					

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
		3) If an alert message created by another agency is being passed through a system, such as a data aggregator, with no alterations, then the <sender> can remain as is. However, if any changes are made to the message, or if the aggregator is the authority to its clients, the <sender> value should change to reflect the aggregator, and the original message's extended identifier (sender, identifier, sent) is to be added to the <incidents> block, with a <source/> value added identifying the original sender and what was changed.</incidents></sender></sender>		<alert> <sender>example@dfes.wa.gov.au</sender> <info></info></alert>
status	REQUIRED	Notes:  1) Value of "Actual" SHALL be used when messages are intended for public dissemination.  2) Value of "Test" denotes that alert SHALL be treated as a log-only event and not be broadcast as a valid alert.	Technical	Example: CAP v1.2 Standard

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
msgType	REQUIRED	Notes:  1) Processing of "Ack" or "Error" messages is optional, and systems may impose their own associated rules.  2) Message states, and the transition from one state to another, are implied with the use of the <msgtype> and <references> elements.  3) For alert messages intended for public distribution, a <msgtype> of "Alert", "Update" or "Cancel" does affect the message state, and an <info> element is REQUIRED.  4) For alert messages with a <msgtype> of "Ack" or "Error", an info element is not required, as these messages are primarily intended for system level purposes and not for distribution to the public.</msgtype></info></msgtype></references></msgtype>	Technical	Example A. Weather alert for public distribution: <alert></alert>

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
				<pre><code>urn:oasis:names:tc:emergency:cap :1.2:profile:CAP-AU:1.0</code> <note>Invalid eventCode</note> <references>TEST-1,2011-01- 01T12:00:00+10:00 </references> <info> </info> </pre>
restriction	CONDITIONAL	Notes:  1) Can be used to reflect the combined classification of all of the <info> elements and the handling of the entire message.  2) Classifications SHALL be in accordance with national security classifications and non-national security markings listed in the Australian Government Protective Security Policy Framework (PSPF).</info>	Technical	Example: <alert> <scope>Restricted</scope> <restriction>CONFIDENTIAL</restriction> <addresses>insert valid recipient addresses </addresses> <info> </info></alert>

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
code	REQUIRED	Notes:  1) The value for <code> SHALL be "urn:oasis:names:tc:emergency:cap:1.2:profile:CAP-AU:1.0"  2) A value used to identify which version(s) of the CAP-AU Profile the alert message is intended to be compliant with. Used by the message producer to assure conformance with the Profile approved for use within the Australian environment.  3) Does not preclude the option of using <code> for other purposes, such as version referencing, interoperability, layer identification, system specific functions, user-defined values, flags, special codes, etc.</code></code>	Policy	Example. To denote interoperability where a message can be processed using profiles from different countries or organisations – this example identifies compatibility with the Australian (CAP-AU) and Canadian (CAP-CP) Profiles: <alert> <scope>Public</scope> <code>urn:oasis:names:tc:emergency:cap:1.2:profile:CAP-AU:1.0</code> <code>profile:CAP-CP:0.4</code> </alert>
references	OPTIONAL	Notes:  1) For "Update" and "Cancel" messages, all related messages that have not yet expired MUST be included as a reference, as a missed message could result in an alert playing beyond its intended time. Include the entire update trail, not just the most recent update.  2) Referencing all alert messages with <info> elements that still have an <expires> time in the future, ensures that any messages that may still be playing incorrectly are properly superseded by the most recent Update or Cancel message. This resolves issues caused by transmission delays and/or lost messages that may result in message chains being broken.</expires></info>	Technical	Example A. The first Alert message with a <expires> time of 0001UTC: <alert></alert></expires>

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
				Example B. Subsequent UPDATE message with a 3 hour <expires> time:</expires>
				<alert></alert>
				<identifier>IDS20211</identifier>
				<pre><sender>example@bom.gov.au</sender></pre>
				<sent>2011-05-11T02:00:00+09:30</sent>
				<status>Actual</status>
				<msgtype>Update</msgtype>
				<pre><references>example@bom.gov.au,IDS20210, 2011-05-11T00:35:00+09:30</references></pre>
				<info></info>
				<pre><expires>2011-05- 11T05:00:00+09:30</expires></pre>
				Example C. Another subsequent UPDATE message with a 3 hour <expires> time that references the first two related messages:</expires>
				<alert></alert>
				<id>didntifier&gt;IDS20212</id>
				<pre><sender>example@bom.gov.au</sender></pre>
				<pre><sent>2011-05-11T03:00:00+09:30</sent></pre>

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
				<status>Actual</status>
				<msgtype>Update</msgtype>
				<pre><references>example@bom.gov.au,IDS20210, 2011-05-11T00:35:00+09:30 example@bom.gov.au,IDS20211,2011-05- 11T02:00:00+09:30</references></pre> /references>
				···· <info></info>
				Example D. A further subsequent UPDATE message with a 3 hour <expires> time referencing the most recent two messages as the earliest one has expired and should not be playing anymore for two possible reasons – a) it has been superseded, or b) it has expired:</expires>
				<alert></alert>
				<identifier>IDS20213</identifier>
				<pre><sender>example@bom.gov.au</sender> <sent>2011-05-11T04:00:00+09:30</sent></pre>
				<status>Actual</status>
				<msgtype>Update</msgtype>

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification Non-Normative
				<pre><references>example@bom.gov.au,IDS20211, 2011-05-11T02:00:00+09:30 example@bom.gov.au,IDS20212,2011-05- 11T03:00:00+09:30</references></pre>
incidents	OPTIONAL		Technical	Example. To denote that all messages showing this sub-element are related to the same hazard event: <alert> <identifier>IDS20213</identifier> <sender>example@bom.gov.au</sender> <incidents>"Cyclone Yasi:2011"</incidents> </alert>

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
		Notes:  1) This element MUST be included for all alert messages intended for public distribution.  2) Different <info> elements MAY be used to support two separate <area/>s that are experiencing different levels of threat, where each <area/> uses the same <category>, <event> and <eventcode> values in both <info> elements, but requires different <urgency>/<severity>/<certainty> values.  3) Multilingual messages MUST use separate <info> elements for each language, with all non free-form text elements repeated verbatim in each element. Each element must be identical (i.e., they MUST have the same <eventcode>, urgency, severity, certainty, geocodes) except for those elements which will differ because of language such as free form text and resource links.</eventcode></info></certainty></severity></urgency></info></eventcode></event></category></info>	s when the <inf< th=""><th>o&gt; element is to be included in a CAP-AU  Example: Weather alert for public distribution: <alert> <status>Actual</status> <msgtype>Alert</msgtype> <source/>example@bom.gov.au <scope>Public</scope> <code>urn:oasis:names:tc:emergency:cap :1.2:profile:CAP-AU:1.0</code> <info> </info></alert></th></inf<>	o> element is to be included in a CAP-AU  Example: Weather alert for public distribution: <alert> <status>Actual</status> <msgtype>Alert</msgtype> <source/>example@bom.gov.au <scope>Public</scope> <code>urn:oasis:names:tc:emergency:cap :1.2:profile:CAP-AU:1.0</code> <info> </info></alert>
		4) Multiple <eventcode> elements MAY be included in order to support interoperability between message producer and consumer systems e.g. interpretation of AUeventLIST codes and other nations event code lists.</eventcode>		
language	OPTIONAL	Notes:  1) If this sub-element is used, the value SHALL be blank or "en-AU" or an alternate language code that is identified in accordance with country codes specified in the "Codes for the Representation of Names of Languages (ISO 639.2)"	Technical	Example A. Original INFO element expressed in Australian English and enumerated <urgency> value of "immediate" written in english: <info></info></urgency>

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification Non-Normative
		<ul> <li>2) CAP v1.2 assumes that a blank or null value in this element SHALL be considered equivalent to US English or "en-US".</li> <li>3) "en-AU" SHALL be used when the CAPv1.2 default value of "en-US" is not acceptable for the content of the message</li> </ul>		<li><language>en-AU</language> <urgency>lmmediate</urgency> <headline>Chemical spill Highway 1 </headline></li>
		(standard language code for Australian English defined by ISO 3166-1 alpha-2).		
		4) When this sub-element is to be included, the alert message producer MUST ensure an appropriate value is used.		Example B. INFO element translated into Italian and enumerated <urgency> value of "immediate" written in English:</urgency>
		5) The language value is important for message distributors.      6) Mixing public display content or text from different languages within the same <info> element is not allowed, except for inherently multilingual content (people, places, things) that may</info>		<info> <language>ita</language></info>
		inherently multilingual content (people, places, things) that may or may not include accented characters. Where fixed CAP values, which often appear as a word from a specific language, are used for software processing purposes and not for display, these values are not translated between <info> elements (e.g. <category>, <urgency>, <severity>, <certainty>, <responsetype>, etc).</responsetype></certainty></severity></urgency></category></info>		<pre> <urgency>Immediate</urgency> <headline>Chimica fuoriuscita Highway 1 </headline> </pre>
		7) When creating public alert messages in languages other than English, a translation of the event list to the appropriate language should be conducted in advance for inclusion in alerts.		

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
event	REQUIRED	Note:  A CAP-AU Profile message SHALL include only one <event> value that is extracted from either the Tier I or Tier II column of the Australian Event Code List for CAP-AU Profile (AUeventLIST). Using these pre-defined values ensures that all public alert messages are using common terminology to describe hazard events.</event>	Policy	
responseType	OPTIONAL	Note:  It is RECOMMENDED that alert message producers include response types when applicable, along with a corresponding <instruction> value. Using <responsetype> allows for automated dissemination in all included languages, of the actions the end user is expected to take when instructions may not be available, or not available in all languages</responsetype></instruction>	Technical	Example: <alert> <info> <responsetype>Shelter</responsetype> <responsetype>Monitor</responsetype> <instruction>Take cover as threatening conditions approach and monitor local media broadcasts for further updates</instruction> </info> <alert></alert></alert>
urgency	REQUIRED	Note: Australian jurisdictions / organisations MAY need to further restrict the urgency values for use within their particular jurisdiction / organisation. However consuming systems should accept the entire set of values.	Technical	Example: The Bushfire Alerts Levels used in Australia could be mapped to the CAP v1.2 enumerations as follows: Advice = Expected Watch and Act = Expected Emergency Warning = Immediate

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
severity	REQUIRED	Note: Australian jurisdictions / organisations MAY need to further restrict the severity values for use within their particular jurisdiction / organisation. However consuming systems should accept the entire set of values.	Technical	Example: The Bushfire Alerts Levels used in Australia could be mapped to the CAP v1.2 enumerations as follows: Advice = Moderate Watch and Act = Severe Emergency Warning = Extreme
certainty	REQUIRED	Note: Australian jurisdictions / organisations MAY need to further restrict the certainty values for use within their particular jurisdiction / organisation. However consuming systems should accept the entire set of values.	Technical	Example: CAP v1.2 Standard
eventCode	OPTIONAL	Notes:  1) <valuename> SHALL be "https://govshare.gov.au/xmlui/handle/10772/6495" or alternate event code list if authorised.  2) <valuename> MUST reflect the unique short title or URL of the authorised event code list that is to be the source for the</valuename></valuename>	Technical	Example A. For the AUeventLIST: <valuename>https://govshare.gov.au/xmlui /handle/10772/6495</valuename> Example B. Acceptable – shows two <info> elements with same <event> code, but different <area/> data indicating a different <severity></severity></event></info>
		<event> value. 3) The CAP-AU Profile SHALL constrain each alert message to one single value from an authorised <eventcode> list in order to avoid any potential confusion or difficulty handling a single alert message containing multiple events.</eventcode></event>		value is relevant to each area. <alert> <info> <event>Thunderstorm</event></info></alert>
		4) Conventions regarding Event Codes: Code lists not defined by this Profile or not recognised by a receiver SHALL be passed through by CAP-AU Profile-compliant devices. This acknowledges the possible existence of other Australian and non-Australian codes which may appear in alert messages.		<severity>Extreme</severity>

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
		5) The version suffix shown in <valuename> (e.g. ":2.0") will change as new versions of the AUeventLIST document are</valuename>		<eventcode> <valuename>https://govshare.gov.au</valuename></eventcode>
		published. As <eventcode> is a multi-use element, messages may be created that use codes from different versions of the Event References document in order to provide backward</eventcode>		/xmlui/handle/10772/6495 <value>thunderstorm</value>
		compatibility and to ease transition between list updates.		<pre> <area/>   <areadesc>area 1</areadesc></pre>
				<geocode></geocode>
				<pre><valuename>http://www.ga.gov.au /place-name/</valuename></pre>
				<value>XXX</value>
				<info></info>
				<event>Thunderstorm</event>
				<pre><severity>Moderate</severity> <eventcode></eventcode></pre>
				<pre><valuename>https://govshare.gov.au/xml /handle/10772/6495</valuename></pre>
				<value>thunderstorm</value>

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
				<area/>
				<areadesc>area 2</areadesc>
				<geocode></geocode>
				Example C. Not Acceptable – shows two <info> elements with different <event> codes:</event></info>
				<alert></alert>
				<info></info>
				<event>Thunderstorm</event>
				<eventcode></eventcode>
				<valuename>https://govshare.gov.au /xmlui/handle/10772/6495</valuename>
				<value>thunderstorm</value>
				<area/>
				<areadesc>area 1</areadesc>
				Example C. Not Acceptable – shows two <info> elements with different <event> code: <alert></alert></event></info>

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
				<geocode></geocode>
				<info></info>
				<event>Tornado</event>
				<eventcode></eventcode>
				<valuename>https://govshare.gov.au /xmlui/handle/10772/6495</valuename>
				<value>tornado</value>
				<area/>
				<areadesc>area 2</areadesc>
				<geocode></geocode>
				Example D. For an updated version of the AUeventLIST where codes may need to be used from the previous list during transition to the new list:
				<eventcode></eventcode>
				<valuename>https://govshare.gov.au/xmlui</valuename>

CAP Element	Use	Profile Specification	Type	Profile Specification
		Normative		Non-Normative
				/handle/10772/6495
				<value>civilEmerg</value>
				<eventcode></eventcode>
				<valuename>https://govshare.gov.au/xmlui/handle/10772/6495</valuename>
				<value>cccccccccc</value>
				Example E. For the Canadian event code list:
				<eventcode></eventcode>
				<pre><valuename>profile:CAP-CP:xxxxxxxx:n.n </valuename></pre>
				<value>cccccccccc</value>
				Where xxxxxxx denotes the short title of the Canadian list; n.n denotes the version number of the Canadian list; and cccccccccc denotes the actual event code to be used.
effective	OPTIONAL	Notes:	Technical	Example A. Correctly formatted <effective></effective>
		1) Messages are considered to be effective when sent, so if this element is not included, the effective time SHALL be		time in Hobart, Tasmania at 0700 AEST:
		assumed to be the same as in <sent>.</sent>		<alert></alert>
				<pre></pre>
		2) Usually only included when <msgtype> <value> is Alert, in</value></msgtype>		
		order to direct the effective time of the alert message.		···· <info></info>
				•••

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
		3) DO NOT use when <msgtype> <value> is Cancel.</value></msgtype>		<effective>2011-05-13T07:00:00+10:00 </effective>
		4) When the content of a message applies across multiple timezones, the message producer SHOULD use UTC times in preference to local times. The message producer SHOULD consider whether the message consumer is capable of converting UTC to the correct local time		<li></li>
		converting of C to the correct local time		Example B. Same as A) but using UTC equivalent to 0700 AEST: 12 May 2011 at 2100 hours.
				<pre><alert> <sent>2011-05-12T21:00:00-00:00</sent></alert></pre>
				<info></info>
				 <effective>2011-05-12T21:00:00-00:00 </effective>
expires	OPTIONAL	Notes:  1) It is RECOMMENDED that alert message producers provide an <expires> value so that distributors, aggregators, recipients and message consumers can interpret how long the information within an <info> element of an alert message should remain in effect.</info></expires>	Technical	Example A. Correctly formatted <expires> time in Darwin at 0700 UTC: <alert> <info></info></alert></expires>
		2) When the content of a message applies across multiple timezones, the message producer SHOULD use UTC times in preference to local times. The message producer SHOULD		

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
		consider whether the message consumer is capable of converting UTC to the correct local time.		
				Example B. Invalid formats: <expires></expires> <expires>0</expires> <expires>0000-00-00T00:00:00- 00:00</expires> <expires>""</expires> <expires>2011-05-13T07:00:00</expires> (missing UTC zone)
senderName	OPTIONAL	Notes:  1) It is strongly RECOMMENDED that this element be populated by alert message producers as this value is expected to be used for public presentation purposes.  2) To be the publicly-recognisable name of the agency issuing the alert.  3) The full text, or at least the first ten words, of this element could be used in the construction of recorded audio or text-to-speech audio.  4) The full text, or at least the first 60 characters, of this element could be used in the construction of video display text.	Technical	Example: <alert> <sender>example@dfes.wa.gov.au</sender> <info> <sendername>Western Australia Police </sendername> </info></alert>
headline	OPTIONAL	Notes:  1) Headline SHALL include human readable adaptations of the following sub-elements that message consumers can be	Technical	Example: CAP v1.2 Standard

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
		expected to understand:		
		a) text associated with <event>,</event>		
		b) text associated with <areadesc> value(s), and</areadesc>		
		c) the word "to" followed by value for <expires>.</expires>		
		2) The full text, or at least the first ten words, of this element could be used in the construction of recorded audio or text-to-speech audio.		
		3) The full text, or at least the first 60 characters, of this element could be used in the construction of video display text.		
description	OPTIONAL	Notes:	Technical	Example:
		Address essential information first as content may get truncated during transmission.		CAP v1.2 Standard
		2) The full text, or at least the first ten words, of this element could be used in the construction of recorded audio or text-to-speech audio.		
		3) The full text, or at least the first 60 characters, of this element could be used in the construction of video display text.		
instruction	OPTIONAL	Notes:	Technical	Example:
		1) Should be completed by alert message producers to improve clarity and provide public with direction concerning what actions to take in order to stay out of harm's way.		The Bureau of Meteorology issues a cyclone warning using a CAP message. The Bureau has no authority to issue evacuation notices, so an alternate authority like Emergency
		2) In circumstances where the <instruction> information is to be added by an alternate authority; the message producer will distribute the initial alert message (without an <instruction> element included) and the alternate authority will receive that</instruction></instruction>		Management Queensland (EMQ) would redistribute the cyclone warning with an <instruction> element included.</instruction>

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
		message and add the <instruction> element as well as identify the new authoritative source for the information through the <sendername> and other applicable values then re-distribute the message accordingly.</sendername></instruction>		
		3) Address essential information first as content may get truncated during transmission.		
		4) The full text, or at least the first ten words, of this element could be used in the construction of recorded audio or text-to-speech audio.		
		5) The full text, or at least the first 60 characters, of this element could be used in the construction of video display text.		
parameter	CONDITIONAL	Notes:	Technical	Example:
		The values are not case sensitive, and SHALL NOT be translated. Multiple MinorChange elements are allowed.		<pre><parameter>   <valuename></valuename></parameter></pre>
		2) It is recommended that alert message producers indicate when an update message contains non-substantive content changes in order to support advanced distribution decisions associated with reducing the number of cases of over-alerting.		urn:oasis:names:tc:emergency:cap: 1.2:profile:CAP-AU:1.0:MinorChange  correction
		3) When an alert message is considered a minor update, all <info> elements MAY contain a "MinorChange" parameter value(s) with an appropriate value setting that details the extent of the minor change:</info>		
		<pre><valuename>urn:oasis:names:tc:emergency:cap:1.2 :profile:CAP-AU:1.0:MinorChange</valuename></pre>		
		4) When no change has occurred in an <info> element relative</info>		

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative
		to the previous message, the value of "none" SHOULD be used.		
		5) Substantive changes. Adding or removing an <info> element relative to the previous message is considered a substantive change. If a message consumer chooses to ignore this parameter and value, all update messages should be considered substantive as per the intent of the CAP v1.2.</info>		
		6) If a transmission error occurs and the message consumer does not receive the referenced previous message to which the non-substantive change applies, the current message SHOULD be considered substantive.		
		7) Non-Substantive changes. This element MUST only be used when all <info> elements in a message contain non-substantive content changes or no change. The addition, removal, or change of the following elements MAY be considered non-substantive: <audience>, <headline>, <description>, <instruction>, <web>, <contact>, <parameter>, <areadesc>, and <resource> sub-elements. Electing to process non-substantive content is left up to the message producer or consumer.</resource></areadesc></parameter></contact></web></instruction></description></headline></audience></info>		
		8) Both message producer and consumer systems are free to impose additional constraints on what they consider to be non-substantive changes.		
		9) When a change has occurred between <info> elements, the value of "text" SHOULD be used in the <info> element(s) where applicable. For example: some free form text content may have been added or modified.</info></info>		

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
		10) When a correction is made to some free form content, the value of "correction" SHOULD be used in the <info> element(s) where applicable.</info>		
		11) When the addition, modification, or removal of a <resource> sub-element and its associated content takes place relative to the previous message, the value of "resource" SHOULD be used in the <info> element(s) where applicable.</info></resource>		
		12) When the addition, modification, or removal of layer based values takes place relative to the previous message, the value of "layer" SHOULD be used in the <info> element(s) where applicable.</info>		
		13) When the content change does not meet the criteria of the other parameter values, the value of "other" SHOULD be used in the <info> element(s) where applicable. A <note> element should always be used with "other" changes.</note></info>		
		14) A <note> element MAY be used to further explain the reason for the minor changes in this update.</note>		

CAP Element	Use	Profile Specification	Туре	Profile Specification
		Normative		Non-Normative

## 2.3 "resource" Element and Sub-elements

Any <resource> sub-elements whose use is specified as REQUIRED, are only mandatory inclusions when the <resource> element is to be included in a CAP-AU message. The <resource> sub-elements SHOULD be used to provide supplemental information, such as images or audio files, to assist a message consumer to better understand the context of the event. [There are no profile considerations for this element.]

## 2.4 "area" Element and Sub-elements

Any <area> sub-elements whose use is specified as REQUIRED, are only mandatory inclusions when the <area> element is to be included in a CAP-AU message.

Geographic locations in Australia SHOULD be referenced to the Geocentric Datum of Australia 1994 (GDA94). The Intergovernmental Committee on Surveying and Mapping advises that for most practical applications, [GDA94] coordinates can be considered the same as [WGS 84]; therefore, CAP-AU accepts that for the practical purposes of public alerting, the coordinates derived from a [GDA94] reference system SHALL be considered to be equivalent to [WGS 84] coordinates that are required by CAP v1.2.

area	OPTIONAL	Notes:	Technical	Example:
		MUST include a minimum of one recognised <geocode> value.</geocode>		<info> <area/></info>
		2) Where multiple <area/> elements are used, consolidation of <area/> elements into as few <area/> elements as possible is RECOMMENDED.		<areadesc>Near Bowen, QLD</areadesc> <circle>-20.085,147.764 10</circle> <geocode> <valuename>http://www.iso.org/iso</valuename></geocode>
		3) Area descriptions (like events) MUST be translated by the message producer in cases where the name is not derived from the preferred Location Reference source to ensure the intended audience for the message recognises the area being described.		/country_codes.html <value>AU-QLD</value>

CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
		4) In the case of both single and multiple <area/> elements, each <areadesc> MUST have one value and will be in the language of the <info> element.</info></areadesc>		Where: -20.085,147.764 is the Lat/Long for the area near Bowen; and 10 is the radius value in kilometres (Note there is a space character separating the radius value from the lat/long).
		5) It is RECOMMENDED that an associated geospatial value for the <polygon> or <circle> elements be included in the <area/> element as well. The use of <polygon> and <circle> are preferred where the message consumer has the ability to interpret the geospatial information in those sub-elements.</circle></polygon></circle></polygon>		
		6) Avoid using both <polygon> and <circle> in a single message when possible; however, if both are used then the <area/> should be considered to be the union of the <polygon> and <circle> sub-elements.</circle></polygon></circle></polygon>		
areaDesc	REQUIRED	REQUIRED Notes:  1) Textual description of the area SHALL be defined by the combination of area elements that is recognisable to the message consumers.		Example: CAP v1.2 Standard
		2) The value SHALL be derived from the Location Reference document specified under <geocode> or other location source providing the source is recognised by the message consumer.</geocode>		
		3) The full text, or at least the first ten words, of this element MAY be used in the construction of recorded audio or text-to-speech audio.		
		4) The full text, or at least the first 60 characters, of this element MAY be used in the construction of video display text.		

1) <geocode> SHOULD be used as the backup method to define alert areas whenever the consumer system has no </geocode>
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CAP Element	Use	Profile Specification  Normative	Туре	Profile Specification  Non-Normative
	5) Messages MAY include <geocode>s from different Location Reference sources in order to provide backward compatibility and to ease transition between list updates.</geocode>			

# 3 Conformance

- 154 Conformance Requirements for CAP-AU Profile
- An implementation conforms to this specification if it satisfies all of the MUST or REQUIRED level requirements defined within this specification.

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This specification references a number of other specifications. In order to comply with this specification, an implementation MUST implement the portions of referenced specifications necessary to comply with the required provisions of this specification. Additionally, the implementation of the portions of the referenced specifications that are specifically cited in this specification MUST comply with the rules for those portions as established in the referenced specification.

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## 3.1 Conformance Targets

The three following conformance targets are defined in order to support the specification of conformance to this standard:

- a) CAP-AU Profile Message
- b) CAP-AU Profile Message Producer
- c) CAP-AU Profile Message Consumer

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- 171 A CAP-AU Profile Message is an XML 1.0 document whose syntax and semantics are specified in this standard.
- 173 A CAP-AU Profile Message Producer is a software entity that produces CAP-AU Profile Messages.
- 174 A CAP-AU Profile Message Consumer is a software entity that consumes CAP-AU Profile Messages.

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# 3.2 Conformance as a CAP-AU Profile Message

- 177 An XML 1.0 document is a conforming CAP-AU Profile Message if and only if:
  - it is valid according to the schema in Section 3.4 of the specification located at http://docs.oasisopen.org/emergency/cap/v1.2/ and
  - the content of its elements and the values of its attributes meet all the additional mandatory requirements specified in Section 2.

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# 3.3 Conformance as a CAP-AU Profile Message Producer

A software entity is a conforming CAP-AU Profile Message Producer if and only if it is constructed in such a way that any XML document produced by it and present in a place in which a conforming CAP-AU Profile Message is expected (based on contextual information) is indeed a conforming CAP-AU Profile Message according to this standard.

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- The condition above can be satisfied in many different ways. Here are some examples of possible scenarios:
  - a standard protocol (for example, EDXL-DE) transfers messages carrying CAP-AU Profile
    Messages; a client has sent a request for an CAP-AU Profile Message to a server which claims to
    be a conforming CAP-AU Profile Message Producer, and has received a response which is
    therefore expected to carry a conforming CAP-AU Profile Message;
  - a local test environment has been set up, and the application under test (which claims to be a
    conforming CAP-AU Profile Message Producer) has the ability to produce a CAP-AU Profile
    Message and write it to a file in a directory in response to a request coming from the testing tool;
    the testing tool has sent many requests to the application under test and is now verifying all the
    files present in the directory, which is expected to contain only conforming CAP-AU Profile
    Messages;

# 3.4 Conformance as a CAP-AU Profile Message Consumer

A software entity is a conforming CAP-AU Profile Message Consumer if and only if it is constructed in such a way that it is able to successfully validate and ingest a CAP-AU Profile Message, as defined in Sec 3.2

The condition above can be satisfied in many different ways. Here is one example of a possible scenario:

 a client receives and processes a CAP-AU Profile Message from a server which claims to be a conforming CAP-AU Profile Message Producer

Conformance to the CAP-AU Profile SHALL be measured in three steps:

- 1. the message produced by the CAP-AU system contains the REQUIRED elements from both the CAP v1.2 and the CAP-AU Profile standards;
- 2. the message producer can successfully construct a CAP message that conforms to the CAP v1.2 and the CAP-AU Profile standards; and
- 220 3. the message consumer can successfully validate and ingest a conforming CAP message.

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# Appendix A. Acknowledgments

Content within this document was also derived from contributions provided by the CAP – Canadian Profile
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Revision	Date	Editor	Changes Made
WD01	30 Nov 2011	Elysa Jones	First complete draft with base provided by Greg Trott and CAP Profile Subcommittee decisions included
WD02	1 Dec 2011	Elysa Jones	Changes addressed during CAP Profile Subcommittee meeting 30 Nov 2011:
			a. Added lines 101-102 in non-normative section 1.5 and note into header of "area" element on page 31 regarding GDA94
			b. Removed note from page 13 and updated all occurrences of the URN for the profile on pages 5, 10, 11, 12, 16, 18, 19, 20, 21, 22, 23, 27, 28, 31, 32, 33 to "urn:oasis:names:tc:emergency:cap:1.2:profile:CAP-AU:1.0"
			c. Removed note from page 34 and updated all occurrences of the conformance target names on pages 33 and 34 "CAP-AU"
			d. Corrected the company names for Trott, Leinenweber and Grapes in the acknowledgements
			e. Updated the table of contents
WD03	9 Dec 2011	Elysa Jones	Changes addressed during the EM-TC meeting 6 Dec 2011:
			a. Removed the reference to CAP Logo and guidance from the last line of the Notices section. It will now appear on the front page in the related works section.
			b. Deleted lines 105-113 of the non-normative section which referenced attachments to an Australian document.
WD04	30 Jan 2012	Elysa Jones	Changes addressed by the CAP Profiles subcommittee in response to public review comments:
			a. Removed brackets around copyright in the OASIS notice, added related works section to cite the CAP logo Committee Note, and fixed formatting of the pdf.
			b. Corrections to Table 1: corrected a document name; added clarifying sentence to Note 1 <event> sub-element; corrected sentence in Note 1 of <eventcode>; added words to Note 2 of <eventcode>; added sentence to Note 3 of <eventcode>; fixed <value> in Example B of <eventcode>; added clarification to Note 7 of <area/>; clarified Note 1 of <geocode>; added new <area/> Note 8; fixed typo in Note 2 of <effective>;</effective></geocode></eventcode></value></eventcode></eventcode></eventcode></event>

			corrected <expires> time in the example; added examples to <urgency> and <severity>; clarified Notes for <urgency>, <severity> and <certainty>; fixed typos in <effective> and <resource> elements; clarified Notes for <urgency>, <severity> and <certainty> c. Add term "Layer" and definition to 1.3 d. Additional changes to Table 1: removed Note 2 from <alert>; added recommendation to Note 1 of <sender>; changed Note 3 of <sender> to use message identifier and source element; removed Note 4 and Example 4 of <sender>; changed <source/> to <sender> and corrected placement of <sender> in Example A of <msgtype>; removed Note 3 and renumber subsequent notes of <info>; added clarification of what must be identical in multilingual messages of <info>; deleted Note 2 and Note 3 and moved examples from <event> to <eventcode>; clarified Note 3 and Note 4 of <eventcode>; clarified Note 3 and Note 4 of <eventcode>; changed <effective> and <expires> from REQUIRED to OPTIONAL; clarified Note 1 and removed Note 2 from <expires>; reworded Note 1 and removed Note 2 from <expires>; removed Note 1 of <parameter>; corrected Note 2 of <instruction>; added sentence to Note 1 of <parameter>; corrected Note 2 of <parameter>; corrected Note 2 of <parameter>; corrected Note 3 of <parameter>; removed Note 15 and 16 from <parameter>; removed Note 2 of <area/>; removed Note 6 of <area/>; removed Note 2 of <area/>; removed Note 6 of <area/>; removed Note 2 of <area/>; removed Note 6 of <area/>; removed Note 10 of <a <="" href="#percentage=" percentage="percentage=" th=""></a></parameter></parameter></parameter></parameter></parameter></instruction></parameter></expires></expires></expires></effective></eventcode></eventcode></eventcode></event></info></info></msgtype></sender></sender></sender></sender></sender></alert></certainty></severity></urgency></resource></effective></certainty></severity></urgency></severity></urgency></expires>
WD05	14 Mar 2012	Elysa Jones	Minor corrections to update publication dates, address minor spelling and spacing errors.
	16 Mar 2012	Werner Joerg	Fixed formatting and footers.
CSD03	9 Aug 2013	Greg Trott	Minor corrections requested by the Australian CAP Stakeholder Group, and a subsequent review of proposed changes conducted on behalf of the EM-TC by Darrell O'Donnell, Gary Ham and Norm Paulsen.