

2 CAP v1.1 IPAWS Public Review Profile

The follow table specifies the required constraints placed by the CAP v1.1 IPAWS Profile on a CAP v1.1 message in order for the message to be a valid CAP IPAWS Profile message. This table contains only those elements of CAP v1.1 for which there is a Profile Note or Profile Specification. CAP v1.1 elements not included here simply means there is no specific constraint or condition in the use of those elements for the Profile.

CAP Element	Profile Specification (Normative)	Profile Note (Non-Normative)
	(Subcommittee)	(Subcommittee)
sent	(1) The XML dateTime value SHALL include the timezone offset.	
status	(1) A value of "Actual" SHALL be used for messages intended for dissemination to the public, including test messages intended for delivery to the public.	
source		(1) Implementers should be aware that the <source> value may be publicly presented as a "signature" line in some delivery systems.
code *	(1) Required. Value SHALL include the string "IPAWSv1.0" to indicate the profile version in use.	
info *	(1) All info blocks in a single alert MUST relate to a single incident or update, with the same category and eventCode values. (2) All info blocks SHALL be appropriate for immediate public release.	(1) Multiple info blocks may be used for different languages or area-specific details and may have different response types.

CAP Element	Profile Specification (Normative)	Profile Note (Non-Normative)
responseType *		<p>(1) Use of the non-standard value "Avoid" is a recognized exception to the CAP 1.1 specification.</p> <p>(2) Use of this value will not validate against the CAP v1.1 schema.</p>
eventCode *	<p>(1) Messages intended for EAS and HazCollect dissemination MUST include an instance of this with a valueName of "SAME" and using a SAME-standard three-letter value.</p> <p>(2) Other eventCode elements may also be present.</p>	
effective	<p>(1) Ignored if present. Alerts SHALL be effective upon issuance.</p> <p>(2) However, the description and/or instruction may refer to future events or actions.</p>	
onset	<p>(1) Ignored if present. Alerts SHALL be effective upon issuance.</p> <p>(2) However, the description and/or instruction may refer to future events or actions.</p>	
expires	<p>(1) Required. The XML dateTime value MUST include the timezone offset.</p>	
parameter *	<p>(1) Message intended for EAS and/or HazCollect dissemination MUST include a parameter with a valueName of "EAS-ORG" with a value of SAME ORG code.</p> <p>(2) Messages invoking the "Gubernatorial Must-Carry" rule SHALL also include a parameter with valueName of "EAS-Must-Carry" and value of "TRUE" for gubernatorial alerts.</p> <p>(3) Optional free-form text for CMAS MAY be included in a parameter with valueName of "CMAMtext".</p> <p>(4) There is a 90 English character limit in the free form text. Any free form text must comply with the FCC rules & CMSAAC recommendations.</p> <p>(5) Other parameter elements may also be present.</p>	

CAP Element	Profile Specification (Normative)	Profile Note (Non-Normative)
resourceDesc	(1) A value of "EAS Broadcast Content" SHALL be used to indicate that the audio, video or image content of the current <resource> is intended for EAS broadcast.	
mimeType	(1) Recorded audio SHALL be MP3 64kbps 22.05 or 44.1 kHz sampling, or WAV PCM, mono, 16-bit, 22.05 kHz sampling. (2) Streaming audio SHALL be MP3 via HTTP or Shoutcast/Icecast service.	
area *	(1) At least one <area> element MUST be present. (2) All <area> elements SHALL be considered in message distribution.	
geocode *	(1) At least one instance required with a valueName of "SAME" and value of a SAME 6-digit location code (extended FIPS).	(1) The 5-digit form, if needed, can be derived by removing the first digit from the 6 digit form.

*May have multiple occurrences in a message under CAP 1.1 spec

3 CAP v1.1 IPAWS Exchange Partner System Requirements (Non-Normative-Informational)

The follow table specifies the required constraints placed by the CAP v1.1 IPAWS Profile Exchange Partner Alert Systems on a CAP v1.1 message in order for the message to be processed by the EAS, the (CMAS) and the NOAA NWS HazCollect systems. This table contains only those elements of CAP v1.1 for which there is IPAWS Exchange Partner Alert System-specific annotation of interest. CAP v1.1 elements not included here simply means there is no specific constraint or condition in the use of those elements for any of these IPAWS Exchange Partner Alert Systems..

CAP Element	EAS	CMAS	Hazcollect NWEM
	(EAS-CAP Industry Group Recommendation 9/23/08)	(CMAS Architecture and Requirements, CMSAAC 2007)	(Instructions for Using the NOAA HazCollect Interface, v 0.3, 6 Nov 2008)
identifier			(1) Must be unique throughout HazCollect universe
sent	(1) Time zone mandatory.	(1) Time zone mandatory. Note: CMAS C-Interface requires UTC plus offset and must be consistent with any associated update or cancel messages	
status	(1) Must be "Actual" to be aired even for EAS test messages	(1) "Draft" will be rejected by CMAS Federal Alert gateway.	
msgType		(1) "Ack" will be rejected by CMAS Federal Alert Gateway.	
source			(1) Sender signature (name/initials).
scope		(1) Any value but "Public" will be rejected by CMAS Federal Alert Gateway.	(1) Must be "Public" or system will reject.

CAP Element	EAS	CMAS	Hazcollect NWEM
restriction		(1) If present CMAS Federal Alert Gateway will reject message.	
addresses		(2) If present CMAS Federal Alert Gateway will reject message.	
note	(1) If msgType is "Ack", should include "Ignored:", "Accepted:" or "Aired on:" plus station callsign		
info *			(1) Only one permitted.
language		(1) English only	(1) Required: May only be en-US or sp-US.
event			(1) Required. String must match NWEM name for corresponding eventCode
responseType *		(1) Value of "Assess" will result in rejection by CMAS Federal Alert Gateway. (2) Additional value of "Avoid" recommended.	
urgency	(1) Should be "Unknown" if the eventCode is DMO, NMN, NPT, RMT and RWT.	(1) Only messages with urgency of "Immediate" and "Expected" will be passed to the CMSPs	
severity	(1) Should be "Minor" if the eventCode is DMO, NMN, NPT, RMT and RWT.	(1) Only message with a severity of "Extreme" or "Severe" will be passed to CMSPs	

CAP Element	EAS	CMAS	Hazcollect NWEM
certainty	(1) Should be "Unknown" if the eventCode is DMO, NMN, NPT, RMT and RWT.	(1) Only message with a certainty of "Observed" or "Likely" will be passed to CMSPs	
eventCode *	(1) Required. The valueName must be "SAME", the value must be SAME three-letter event code.	(1) If value is "EAN" CMAS Federal Alert Gateway will process as Presidential. (2) If value is "CAE" CMAS Federal Alert Gateway will process as Child Abduction. (3) CMAS Federal Alert Gateway will ignore messages marked "NIC" or "EAT". (4) The CMAS specifications recommends that an eventCode also be present to assist in the generation of the alert text.	(1) Required: The valueName must be "SAME", the value must be SAME three-letter event code.
expires	(1) Required: Time zone mandatory.	(2) If already expired CMAS Federal Alert Gateway will reject. (3) If expires is missing, the Federal Alert Gateway will calculate a default expiration date and time. (4) UTC plus offset is mandatory. (1) Note: the CMAS C-Interface limits alerts to a maximum of 24 hours	(1) Required: Must conform to EAS expiration intervals (15 minute increments up to 120 minutes, 30 minute intervals up to 360, 360 max.)
senderName			(1) Required: String must match DMIS COG id used for login.

CAP Element	EAS	CMAS	Hazcollect NWEM
parameter *	(1) Two required for EAS transmission: (2) First valueName of "EAS-ORG" with value of SAME ORG code: (3) Second valueName of "EAS-STN-ID" with SAME station ID: (4) Third optional with valueName of "EAS-Must-Carry": and, (5) value of "TRUE" for gubernatorial alerts.	(1) Optional parameter with valueName of "CMAMtext" provides free text as alternative to the automatically constructed CMAS message. (2) There is a 90 English character limit in the free form text. (3) Any free form text must comply with the FCC rules & CMSAAC recommendations.	
resourceDesc	(4) If <resource> is used, value must be "EAS Audio" or "EAS Streaming Audio" as appropriate.	(1) Initial version the CMAS C-Interface is text only. (2) Multimedia formats such as audio and video are not pushed to the CMSPs on the C-Interface.	
mimeType	(1) Recorded audio must be MP3 64kbps 22.05 or 44.1 kHz sampling, or WAV PCM, mono, 16-bit, 22.05 kHz sampling. (2) Streaming audio must be MP3 via HTTP or Shoutcast/Icecast service.		
area *	(1) Only the first <area> block will be processed.		
geocode *	(1) Required: valueName of "SAME" and value of 6-digit location code (extended FIPS).	(1) CMAS specification currently uses a 5-digit FIPS code as well as codes for states and regions.	(1) Required: May have valueName of "fips" with 5-digit FIPS code, or "state" with two-letter state code, or "zone" with NOAA zone designator.

*May have multiple occurrences in a message under CAP 1.1 spec