

SAF User Documentation : C2_TRMD Common Terms Definition Viewpoint

Domain	Aspect	Maturity
Common	Taxonomy & Structure	under construction

Example

#	△ Term	Synonyms	Description Animal Pohaviar Classification	Active Hyperlink
1	t Animal Behavior	ABC	Animal Behavior Classification A combustion is a fast and exothermic	
2	t Combustion		oxidative reaction that releases heat, requiring an oxidizing agent to burn the fuel. In the case of a forest fire this oxidizing agent is the air in the atmosphere with the vegetation being the fuel.	
3	t Distress Signal		A distress signal, also known as a distress call, is an internationally recognized means for obtaining help. Distress signals are communicated by transmitting radio signals, displaying a visually observable item or illumination, or making a sound audible from a distance.	
4	Empirical Model	Empirical Models	Fully empirical models rely on statistical correlation between variables known to influence fire spread, such as wind speed, slope, and fuel moisture content, with field observations of rates of spread. Empirical methods are incorporated into the national operational models of fire spread used in Canada, the Canadian Fire Behavior Prediction Model (Forestry Canada Fire Danger Group, 1992), and in Australia, the McArthur grassland	
5	t Environment Interface	EIF	Environment Interface	
6	t Fire Detection		It is essential to set up an effective surveillance network which allows to reduce the time between the ignition and the detection of the forest fire. It focuses particularly on all activities which can cause a fire. The surveillance is based on the combination of various observation and detection means, either mobile or fixed, terrestrial or aerial. The combination of the surveillance and the first intervention, performed by the same team having terrestrial	
7	Fire Information	FIMS	Fire Information Management System	
8	t Forest Fire	FF	A forest fire involves combustion of organic material (fuel) that releases a large quantity of energy. The combustion energy is transferred from the burning fuel to unburned fuels ahead of the fire front. This phenomenon ensures the fire spread. The fire start depends on the flammability of the vegetation. The fire spread depends on a number of variables, including fuel characteristics (size, moisture content and arrangement), weather and topography.	
9	t Forest Fire Detection	FFDS	Forest Fire Detection System	
10	† Forest Fire Information	FFIM	Forest Fire Information Management	
11	Forest Fire Information Management Control	FFIMC2	Forest Fire Information Management Control Center	
12	Forest Sensor Ecosystem	FSE	Forest Sensor Ecosystem	
13	t Geolocation		Geolocation is the identification or estimation of the real-world geographic location of an object, such as a radar source, mobile phone, or Internet-connected computer terminal. In its simplest form, geolocation involves the generation of a set of geographic coordinates and is closely related to the use of positioning systems, but its usefulness is enhanced by the use of these coordinates to determine a meaningful location, such as a street address.	
14	t Human Interface	HIF Physical Models	Human Interface Physical models of fire spread estimate the flux between burning and unburned fuel in order to determine the rate of fire spread. The prevailing assumption of this approach is that all heat	
15	t Physical Model		transfer involved in the combustion reaction satisfies the conservation of energy. The conservation of energy is expressed as an equation in the figure to the right. This equation states that, under steady-state conditions, the rate of fire spread, R, in m/s, is equal to the ratio	
16	t Remote Sensing		Remote sensing is the acquisition of information about an object or phenomenon without making physical contact with the object, in contrast to in situ or on-site observation.	https://en.wikipedia.org/wiki/en
17	t Smoke and Fire Detection	SFDS	Smoke and Fire Detection Software	
18	System Interface	SIF WSN	System Interface Wireless sensor networks refer to networks of spatially dispersed and dedicated sensors that monitor and record the physical conditions of	
19	t Wireless Sensor Network		the environment and forward the collected data to a central location. WSNs can measure environmental conditions such as temperature, sound, pollution levels, humidity and wind.	

1	Term	Synonyms	Description	Active Hyperlink
	t byte	octet	8-bit binary integer in the range [0, 255] where the most significant bit is bit 7 and the least	
			significant bit is bit 0	
!	t) byte order		ordering of bytes for multi-byte data values	
	-th-manus of the		pair of x and y values in the xyY space specified at [COLORIMETRY]	
	t chromaticity		Note: Chromaticity is a measure of the quality of a color regardless of its luminance.	
			form an image by merging a foreground image and a background image, using transparency	
			information to determine where and to what extent the background should be visible	
	t composite (verb)		Note	
			The foreground image is said to be composited against the background.	
	t datastream		sequence of bytes	
	t deflate		member of the LZ77 family of compression methods	https://www.rfc-editor.org/rfc/rfc
			For static PNG, the static image is considered to be the first (and only) frame. For animated PNG,	
	t frame		each image that forms part of the frame-based animation sequence is a frame. Thus, for animated PNG, when the static image is not the first frame, the static image is not considered to	
			be a frame.	
			the final digital storage area for the image shown by most types of computer display.	
	frame buffer		Note	
	_		Software causes an image to appear on screen by loading the image into the frame buffer.	
	t fully transparent black		pixel where the red, green, blue and alpha components are all equal to zero	
	t gamma value		value of the exponent of a gamma transfer function	
	t gamma		power-law transfer function	
		HDR	an image format capable of storing images with a relatively high dynamic range similar to or in	
2	thigh dynamic range		excess of the human visual system's instantaneous dynamic range (~12-14 stops). PNG allows	
			the use of two HDR formats, HLG and PQ.	D
	thybrid log-gamma	HLG	transfer function defined in [ITU-R-BT.2100] Table 5. (A relative scene-referred system)	https://www.itu.int/rec/R-REC-B
	full-range image		image where reference black and white correspond, respectively, to sample values 0 and 2^(bit	
4			depth) - 1	
	image data		1-dimensional array of scanlines within an image	
	interlaced PNG image		sequence of reduced images generated from the PNG image by pass extraction	
	t lossless		method of data compression that permits reconstruction of the original data exactly, bit-for-bit	
	t LZ77		data compression algorithm described in [Ziv-Lempel].	https://ieeexplore.ieee.org/do
T			perceived brightness of a colour	
	t luminance		Note	
	ummunec		Luminance and chromaticity together fully define a perceived colour. A formal definition of	
4			luminance is found at [COLORIMETRY].	
	1 narrow-range image		Image where reference black and white do not correspond, respectively, to sample values 0 and	
4			2^(bit depth)-1	
	F		byte order in which the most significant byte comes first, then the less significant bytes in	
	t network byte order		descending order of significance (MSB LSB for two-byte integers, MSB B2 B1 LSB for four-byte integers)	
		PQ	transfer function defined in ITU-R BT.2100 Table 4. (An absolute display-referred system)	
		۲۷	Note	
	t perceptual quantiser			
			Only RGB may be used in PNG, ICtCp is NOT supported.	
	t PNG decoder		process or device that reconstructs the reference image from a PNG datastream and generates a	
	- I No decoder		corresponding delivered image	
			process or device that creates a modification of an existing PNG datastream, preserving	
			unmodified ancillary information wherever possible, and obeying the chunk ordering rules, even	
1	t PNG editor			
	t PNG editor		for unknown chunk types	
	t PNG editor PNG encoder		process or device which constructs a reference image from a source image, and generates a PNG	
	t PNG encoder		process or device which constructs a reference image from a source image, and generates a PNG datastream representing the reference image	
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Purpose

The Common Terms Definition Viewpoint supports the definition of applicable terms used in standards or defined during the systems engineering activities.

Applicability

The Common Terms Definition Viewpoint supports the definition of glossaries and terms during the technical processes and according to the information management process of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2023.

Presentation

A table format listing terms included in glossaries, or standards if applicable.

A table format listing abbreviations included in glossaries, orstandards if applicable.

Stakeholder

- Hardware Developer
- Mechanic Developer
- Software Developer

Concern

- What are the sources (e.g. a standard) of terms?
- Which terms and abbreviations are applicable to the system of interest or its system elements and their interfaces and interactions?

Profile Model Reference

The following Stereotypes / Model Elements are used in the Viewpoint:

- SAF_Glossary contained in SAF_Standard
- SAF Term contained in SAF Glossary
- · SAF_Term contained in SAF_Standard
- SAF_C2_TRMD_Table
- SAF_Glossary
- SAF Standard
- SAF_Term

Input from other Viewpoints

Required Viewpoints

none

Recommended Viewpoints

· Common Standards Definition Viewpoint