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Standard Enumeration Master List

LONMARK®
Standard Enumeration Master List

Contents

Enumeration Master List Introduction

Standard enumeration types facilitate interoperability by providing standard definitions for enumerated values used for communication between devices or for configuring a device.

This document provides information on all available standard enumeration types. A standard enumeration type index is defined for each standard enumeration type that is used when defining enumeration type references in SNVT and SCPT definitions. The enumeration type names are provided for use in network and development tools.

address_type_t

Index: 81

DA_NUL:	-1	Invalid value; this enumeration is not currently used in any SNVTs or SCPTs
DA_SN:	1	Device address as subnet/node address
DA_NI:	2	Device address as unique node ID address

address_type_t is used in:

- SCPTdevListEntry

aham_appl_t

Index: 67

AHAM_NUL:	-1	Invalid Value
AHAM_CLOTHES_WASHER:	0	Clothes Washer
AHAM_REFRIGERATOR_FREEZER:	1	Refrigerator Freezer
AHAM_CLOTHES_DRYER:	2	Clothes Dryer
AHAM_DISHWASHER:	3	Dishwasher
AHAM_RANGE_OVEN_COOKTOP:	4	Range Oven Cooktop
AHAM_COUNTERTOP_MICROWAVE_OVEN:	5	Countertop Microwave Oven
AHAM_ROOM_AIR_CONDITIONER:	6	Room Air Conditioner

aham_appl_t is used in:

- SCPTahamApplianceModel

alarm_type_t

Index: 7

AL_HEADER:	-13	Update sequence header
AL_FOOTER:	-12	Update sequence footer
AL_DEBUG:	-11	Debug information (not an alarm)
AL_INFO:	-10	Information update (not an alarm)
AL_SYSTEM_INFO:	-6	System information (not an alarm)
AL_VALUE_INVALID:	-5	The value is invalid
AL_CONSTANT:	-4	The value is a constant value (not an alarm)
AL_OFFLINE:	-3	The device is offline
AL_UNKNOWN:	-2	Alarm condition unknown (may be due to a communication failure

		or hardware failure)
AL_NUL:	-1	Invalid alarm type value (alarm condition not specified)
AL_NO_CONDITION:	0	No alarm condition present
AL_ALM_CONDITION:	1	Unspecified alarm condition present
AL_TOT_SVC_ALM_1:	2	Total/service interval alarm 1 (component requires service or maintenance)
AL_TOT_SVC_ALM_2:	3	Total/service interval alarm 2
AL_TOT_SVC_ALM_3:	4	Total/service interval alarm 3
AL_LOW_LMT_CLR_1:	5	Alarm low limit alarm clear 1
AL_LOW_LMT_CLR_2:	6	Alarm low limit alarm clear 2
AL_HIGH_LMT_CLR_1:	7	Alarm high limit alarm clear 1
AL_HIGH_LMT_CLR_2:	8	Alarm high limit alarm clear 2
AL_LOW_LMT_ALM_1:	9	Alarm low limit alarm 1
AL_LOW_LMT_ALM_2:	10	Alarm low limit alarm 2
AL_HIGH_LMT_ALM_1:	11	Alarm high limit alarm 1
AL_HIGH_LMT_ALM_2:	12	Alarm high limit alarm 2
AL_FIR_ALM:	13	Fire alarm condition
AL_FIR_PRE_ALM:	14	Fire pre-alarm condition
AL_FIR_TRBL:	15	Fire-related trouble (fault) condition
AL_FIR_SUPV:	16	Fire-related supervisory condition (e.g., sprinkler pressure)
AL_FIR_TEST_ALM:	17	Fire-related test-mode alarm condition
AL_FIR_TEST_PRE_ALM:	18	Fire-related test-mode pre-alarm condition
AL_FIR_ENVCOMP_MAX:	19	Fire-related maximum environmental compensation level reached
AL_FIR_MONITOR_COND:	20	Fire-related abnormal input condition
AL_FIR_MAINT_ALERT:	21	Fire-related maintenance alert
AL_FATAL_ERROR:	30	Fatal application error
AL_ERROR:	31	Other error condition
AL_WARNING:	32	Other warning condition
alarm_type_t is used in: • SNVT_alarm • SNVT_alarm_2		

appl_cwc_t

Index: 63

CWC_NUL:	-1	Invalid Value
CWC_WASH:	0	Wash
CWC_RINSE:	1	Rinse
CWC_SPIN:	2	Spin
CWC_DRY:	3	Dry

appl_cwc_t is used in: • SNVT_clothes_w_c • SNVT_clothes_w_s

appl_cwp_t

Index: 65

CWP_NUL:	-1	Invalid Value
CWP_GENERAL:	0	Normal Wash
CWP_BOIL:	1	Boil
CWP_FAST_WASH:	2	Fast Wash
CWP_LINGERIE:	3	Lingerie
CWP_WOOL:	4	Wool
CWP_TOWEL:	5	Towel
CWP_BED_LINENS:	6	Bed Linens
CWP_CURTAIN:	7	Curtain
CWP_RINSE_SPIN_ONLY:	8	Rinse and Spin Only
CWP_DELICATE_RINSE:	9	Delicate Rinse
CWP_SPIN_ONLY:	10	Spin Only
CWP_DRY_ONLY:	11	Dry Only
appl_cwp_t is used in: • SNVT_clothes_w_c		

appl_cws_t

Index: 64

CWS_NUL:	-1	Invalid Value
CWS_LOAD_SENSING:	0	Sensing Load
CWS_WETTING:	1	Wetting
CWS_DETERGENT:	2	Detergent
CWS_WASHING:	3	Washing
CWS_WATERING:	4	Watering
CWS_RINSING:	5	Rinsing
CWS_ARRANGING:	6	Arranging
CWS_DRAIN:	7	Drain
CWS_SPINNING:	8	Spinning
CWS_FINAL_SPINNING:	9	In Final Spin

CWS_FLUFFING:	10	Fluffing
CWS_DRYING:	11	Drying
CWS_COOLING:	12	Cooling

appl_cws_t is used in:

- SNVT_clothes_w_c
- SNVT_clothes_w_s

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appl_rin_t

Index: 66

RIN_NUL:	-1	Invalid Value
RIN_PRE_WASH:	0	Pre-wash
RIN_WATER_PLUS:	1	Water Plus
RIN_DETERGENT_PLUS:	2	Detergent Plus
RIN_RINSE_HOLD:	3	Rinse Hold

appl_rin_t is used in:

- SNVT_clothes_w_c

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boolean_t

Index: 41

BOOL_NUL:	-1	Invalid Value
BOOL_FALSE:	0	False
BOOL_TRUE:	1	True

boolean_t is used in:

- SCPTautoAnswer
- SCPTcoolingResetEnable
- SCPTcurrentSenseEnable
- SCPTdefrostHold
- SCPTdefrostInternalSchedule
- SCPTheatingResetEnable
- SCPThighLimit1Enable
- SCPThighLimit2Enable
- SCPTlowLimit1Enable

- SCPTlowLimit2Enable
- SCPTscheduleInternal
- SNVT_clothes_w_c
- SNVT_pump_sensor
- SNVT_pumpset_mn
- SNVT_pumpset_sn

button_action_t

Index: 68

BTA_NUL:	-1	Invalid value
BTA_TOGGLE_STATE:	0	Toggle on-off state; same action as SW_SET_OFF if the on/off state was on, and SW_SET_ON if the on/off state was off; ignored for blinds, drapes, shades, and fans
BTA_TOGGLE_SCENE:	1	Toggle on-off state if specified scene is the current scene; recall the state from the specified scene if the scene is new
BTA_SET_STATE_ON:	2	Set the state to on; ignored for blinds, drapes, shades, and fans
BTA_RECALL_SCENE:	3	Recall a scene
BTA_SET_STATE_OFF:	4	Set the state to off; ignored for blinds, drapes, shades, and fans
BTA_SET_OCCUPIED:	5	Set the occupancy state
BTA_CLEAR_OCCUPIED:	6	Clear the occupancy state
BTA_SET_UNOCCUPIED:	7	Set the unoccupied state
BTA_CLEAR_UNOCCUPIED:	8	Clear the unoccupied state
BTA_SET_LEVEL:	9	Set the level to the specified value; ignored for blinds, drapes, shades, and fans
BTA_SET_UP_DIRECTION:	10	Set ceiling fan direction to up, with specified level
BTA_SET_DOWN_DIRECTION:	11	Set ceiling fan direction to down, with specified level
BTA_INCREASE:	12	Increase the level by specified amount; ignored for blinds, drapes, shades, and fans
BTA_DECREASE:	13	Decrease the level by the specified amount; ignored for blinds, drapes, shades, and fans
BTA_CYCLE:	14	Same as increase until 100% is reached, then same as descrease until 0% is reached, then repeat; ignored for blinds, drapes, shades, and fans;
BTA_ROTATE_OPEN:	15	Rotate blinds open by the setting
BTA_ROTATE_CLOSED:	16	Rotate blinds closed by the setting
BTA_SET_ANGLE:	17	Set the rotation angle of blinds to the setting
BTA_TOGGLE_DIRECTION:	18	Toggle ceiling fan direction, with specified level

BTA_TOGGLE_OCCUPANCY:	19	Toggle the occupancy state
BTA_LEARN_SCENE:	20	Learn a scene from current settings
BTA_SET_STANDBY:	21	Set standby mode
BTA_CLEAR_STANDBY:	22	Clear standby mode
BTA_TOGGLE_STANDBY:	23	Toggle standby mode
BTA_SET_FAN_ON:	24	Set the fan state to on
BTA_SET_FAN_OFF:	25	Set the fan state to off
BTA_TOGGLE_FAN_STATE:	26	Toggle the fan on-off state
BTA_INCREASE_FAN_LEVEL:	27	Increase fan speed by the specified amount
BTA_DECREASE_FAN_LEVEL:	28	Decrease fan speed by the specified amount
BTA_CYCLE_FAN_LEVEL:	29	Increase fan speed by the specified amount until the level reaches 100%, then decrease the fan speed by the specified amount
BTA_MOVE_OPEN:	30	Move blinds, drapes, or shades open by the specified amount
BTA_MOVE_CLOSED:	31	Move blinds, drapes, or shades open by the specified amount
BTA_SET_POSITION:	32	Set blinds, drapes, or shades to the specified position; 100% is fully open, 0% is fully closed
BTA_STOP:	33	Stop any motion of blinds, drapes, or shades
BTA_TOGGLE_GROUP:	34	Toggle group state
BTA_ENABLE_GROUP:	35	Enable a group; all groups are enabled by default
BTA_DISABLE_GROUP:	36	Disable a group
BTA_INCREASE_HUE:	37	Increase hue
BTA_DECREASE_HUE:	38	Decrease hue
BTA_SET_DR_EVENT:	39	Set demand-response mode
BTA_CLEAR_DR_EVENT:	40	Clear demand-reponse mode
BTA_TOGGLE_DR_EVENT:	41	Toggle demand-response mode
button_action_t is used in: • SCPTbuttonHoldAction • SCPTbuttonPressAction		

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calendar_type_t

Index: 29

CAL_NUL:	-1	Invalid Value
CAL_GREG:	0	Gregorian calendar
CAL_JUL:	1	Julian calendar
CAL_MEU:	2	Calendar Method European/US "MEU"
calendar_type_t is used in: • SNVT_time_zone		

cam_act_t

Index: 38

CMA_NUL:	-1	Invalid action call response
CMA_SAVE:	0	Save the values defined by the function
CMA_CALL:	1	Preposition tour tables
CMA_READ:	2	Absolute positions
cam_act_t is used in: • SNVT_pos_ctrl		

cam_func_t

Index: 37

CMF_NUL:	-1	Invalid function call response
CMF_REL:	0	Relative positions, prepositions
CMF_TOUR:	1	Preposition tour tables
CMF_ABS:	2	Absolute positions
cam_func_t is used in: • SNVT_pos_ctrl		

char_encoding_t

Index: 69

CE_NUL:	-1	Invalid value
CE_UTF_8:	0	UTF-8 encoding
CE_UTF_16:	1	UTF-16 encoding
CE_GB18030:	2	GB18030 encoding
char_encoding_t is used in: • SCPTname1 • SCPTsceneName		

chiller_t

Index: 25

CHLR_NUL:	-1	Invalid Value
CHLR_OFF:	0	Chiller off
CHLR_START:	1	Chiller in start mode
CHLR_RUN:	2	Chiller in run mode
CHLR_PRESHUTDN:	3	Chiller in pre shutdown mode
CHLR_SERVICE:	4	Chiller in service mode
chiller_t is used in: • SNVT_chlr_status		

color_encoding_t

Index: 72

COLOR_NUL:	-1	Invalid value
COLOR_CIE31_LUMEN:	0	CIE 1931 color space; Y output in lumen
COLOR_CIE31_PERCENT:	1	CIE 1931 color space; Y output in percent of maximum lumen output of the lamp
COLOR_RGB:	2	No color space, RGB color value
COLOR_TEMPERATURE:	3	Color temperature
color_encoding_t is used in: • SNVT_color_2		

config_source_t

Index: 4

CFG_NUL:	-1	Invalid Value
CFG_LOCAL:	0	Device will use self-installation functions to set its own network image
CFG_EXTERNAL:	1	Device's network image will be set by an outside source
config_source_t is used in: • SNVT_config_src		

control_resp_t

Index: 32

CTRLR_NUL:	-1	Invalid value
CTRLR_NO:	0	Number of current controller
CTRLR_PEND:	1	Request pending due to control query to current operator
CTRLR_REL:	2	Current control released
CTRLR_QUERY:	3	Query to current controller
CTRLR_RES:	4	Controllable device has been reset
CTRLR_ERR:	5	Error in control

control_resp_t is used in:

- SNVT_ctrl_resp

currency_t

Index: 9

CU_NUL:	-1	Invalid Value
CU_ARGENTINA_PESO:	0	Argentine Peso
CU_AUSTRALIA_DOLLAR:	1	Australian Dollar
CU_AUSTRIA_SCHILLING:	2	Austrian Schilling
CU_BAHRAIN_DINAR:	3	Bahraini Dinar
CU_BELGIUM_FRANC:	4	Belgian Franc
CU_BRAZIL_CRUZEIRO_REAL:	5	Brazilian Cruzeiro Real
CU_BRITAIN_POUND:	6	British Pound
CU_CANADA_DOLLAR:	7	Canadian Dollar
CU_CZECH_KORUNA:	8	Czechoslovakian Koruna
CU_CHILE_PESO:	9	Chilean Peso
CU_CHINA_RENMINBI:	10	Chinese Renminbi Yuan
CU_COLOMBIA_PESO:	11	Colombian Peso
CU_DENMARK_KRONE:	12	Danish Krone
CU_ECUADOR_SUCRE:	13	Ecuadorian Sucre
CU_EUROPEAN_CURRENCY_UNIT:	14	European Euro
CU_FINLAND_MARKKA:	15	Finnish Markka
CU_FRANCE_FRANC:	16	French Franc
CU_GERMANY_MARK:	17	German Mark
CU_GREECE_DRACHMA:	18	Greek Drachma
CU_HONG_KONG_DOLLAR:	19	Hong Kong Dollar
CU_HUNGARY_FORINT:	20	Hungarian Forint
CU_INDIA_RUPEE:	21	Indian Rupee

CU_INDONESIA_RUPIAH:	22	Indonesian Rupiah
CU_IRELAND_PUNT:	23	Irish Punt
CU_ISRAEL_SHEKEL:	24	Israeli Shekel
CU_ITALY_LIRA:	25	Italian Lira
CU_JAPAN_YEN:	26	Japanese Yen
CU_JORDAN_DINAR:	27	Jordanian Dinar
CU_KUWAIT_DINAR:	28	Kuwaiti Dinar
CU_LEBANON_POUND:	29	Lebanese Pound
CU_MALAYSIA_RINGGIT:	30	Malaysian Ringgit
CU_MALTA_LIRA:	31	Maltese Lira
CU_MEXICO_PESO:	32	Mexican New Peso
CU_NETHERLANDS_GUILDER:	33	Netherlands Guilder
CU_NEW_ZEALAND_DOLLAR:	34	New Zealand Dollar
CU_NORWAY_KRONE:	35	Norwegian Krone
CU_PAKISTAN_RUPEE:	36	Pakistani Rupee
CU_PERU_NEW_SOL:	37	Peruvian New Sol
CU_PHILIPPINES_PESO:	38	Philippine Peso
CU_POLAND_ZLOTY:	39	Polish Zloty
CU_PORTUGAL_ESCUDO:	40	Portuguese Escudo
CU_SAUDI_ARABIA_RIYAL:	41	Saudi Arabian Riyal
CU_SINGAPORE_DOLLAR:	42	Singaporean Dollar
CU_SLOVAK_KORUNA:	43	Slavic Koruna
CU_SOUTH_AFRICA_RAND:	44	South African Rand
CU_SOUTH_KOREA_WON:	45	South Korean Won
CU_SPAIN_PESETA:	46	Spanish Peseta
CU_SPECIAL_DRAWING_RIGHTS:	47	international governmental exchange
CU_SWEDEN_KRONA:	48	Swedish Krona
CU_SWITZERLAND_FRANC:	49	Swiss Franc
CU_TAIWAN_DOLLAR:	50	Taiwanese Dollar
CU_THAILAND_BAHT:	51	Thai Baht
CU_TURKEY_LIRA:	52	Turkish Lira
CU_UNITED_ARAB_DIRHAM:	53	United Arab Emirates Dirham
CU_UNITED_STATES_DOLLAR:	54	United States Dollar
CU_URUGUAY_NEW_PESO:	55	Uruguayan New Peso
CU_VENEZUELA_BOLIVAR:	56	Venezuelan Bolivar
currency_t is used in: • SNVT_currency		

days_of_month_t

Index: 54

DM_NUL:	-1	Invalid value
DM_EVERY_DAY:	0	Every day of month
DM_DAY_1:	1	First day of month
DM_DAY_2:	2	Second day of month
DM_DAY_3:	3	Third day of month
DM_DAY_4:	4	Fourth day of month
DM_DAY_5:	5	Fifth day of month
DM_DAY_6:	6	Sixth day of month
DM_DAY_7:	7	Seventh day of month
DM_DAY_8:	8	Eighth day of month
DM_DAY_9:	9	Ninth day of month
DM_DAY_10:	10	Tenth day of month
DM_DAY_11:	11	Eleventh day of month
DM_DAY_12:	12	Twelfth day of month
DM_DAY_13:	13	Thirteenth day of month
DM_DAY_14:	14	Fourteenth day of month
DM_DAY_15:	15	Fifteenth day of month
DM_DAY_16:	16	Sixteenth day of month
DM_DAY_17:	17	Seventeeth day of month
DM_DAY_18:	18	Eighteenth day of month
DM_DAY_19:	19	Nineteenth day of month
DM_DAY_20:	20	Twentieth day of month
DM_DAY_21:	21	Twenty-first day of month
DM_DAY_22:	22	Twenty-second day of month
DM_DAY_23:	23	Twenty-third day of month
DM_DAY_24:	24	Twenty-fourth day of month
DM_DAY_25:	25	Twenty-fifth day of month
DM_DAY_26:	26	Twenty-sixth day of month
DM_DAY_27:	27	Twenty-seventh day of month
DM_DAY_28:	28	Twenty-eighth day of month
DM_DAY_29:	29	Twenty-ninth day of month
DM_DAY_30:	30	Thirtieth day of month
DM_DAY_31:	31	Thirty-first day of month
DM_LAST_DAY_OF_MONTH:	32	Last day of month
DM_LAST_SECOND_DAY:	33	Second to last day of month
DM_LAST_THIRD_DAY:	34	Third to last day of month
DM_LAST_4TH_DAY:	35	Fourth to last day of month
DM_LAST_5TH_DAY:	36	Fifth to last day of month
DM_LAST_6TH_DAY:	37	Sixth to last day of month

DM_LAST_7TH_DAY:	38	Seventh to last day of month
DM_LAST_8TH_DAY:	39	Eighth to last day of month
DM_LAST_9TH_DAY:	40	Ninth to last day of month
DM_LAST_10TH_DAY:	41	Tenth to last day of month
DM_LAST_11TH_DAY:	42	Eleventh to last day of month
DM_LAST_12TH_DAY:	43	Twelfth to last day of month
DM_LAST_13TH_DAY:	44	Thirteenth to last day of month
DM_LAST_14TH_DAY:	45	Fourteenth to last day of month
DM_LAST_15TH_DAY:	46	Fifteenth to last day of month
DM_LAST_16TH_DAY:	47	Sixteenth to last day of month
DM_LAST_17TH_DAY:	48	Seventeeth to last day of month
DM_LAST_18TH_DAY:	49	Eighteenth to last day of month
DM_LAST_19TH_DAY:	50	Nineteenth to last day of month
DM_LAST_20TH_DAY:	51	Twentieth to last day of month
DM_LAST_21ST_DAY:	52	Twenty-first to last day of month
DM_LAST_22ND_DAY:	53	Twenty-second to last day of month
DM_LAST_23RD_DAY:	54	Twenty-third to last day of month
DM_LAST_24TH_DAY:	55	Twenty-fourth to last day of month
DM_LAST_25TH_DAY:	56	Twenty-fifth to last day of month
DM_LAST_26TH_DAY:	57	Twenty-sixth to last day of month
DM_LAST_27TH_DAY:	58	Twenty-seventh to last day of month
DM_LAST_28TH_DAY:	59	Twenty-eighth to last day of month
DM_LAST_29TH_DAY:	60	Twenty-ninth to last day of month
DM_LAST_30TH_DAY:	61	Thirtieth to last day of month
DM_FIRST_SUN:	62	First Sunday of month
DM_FIRST_MON:	63	First Monday of month
DM_FIRST_TUE:	64	First Tuesday of month
DM_FIRST_WED:	65	First Wednesday of month
DM_FIRST_THU:	66	First Thursday of month
DM_FIRST_FRI:	67	First Friday of month
DM_FIRST_SAT:	68	First Saturday of month
DM_SECOND_SUN:	69	Second Sunday of month
DM_SECOND_MON:	70	Second Monday of month
DM_SECOND_TUE:	71	Second Tuesday of month
DM_SECOND_WED:	72	Second Wednesday of month
DM_SECOND_THU:	73	Second Thursday of month
DM_SECOND_FRI:	74	Second Friday of month
DM_SECOND_SAT:	75	Second Saturday of month
DM_THIRD_SUN:	76	Third Sunnday of month
DM_THIRD_MON:	77	Third Monday of month
DM_THIRD_TUE:	78	Third Tuesday of month
DM_THIRD_WED:	79	Third Wednesday of month

DM_THIRD_THU:	80	Third Thursday of month
DM_THIRD_FRI:	81	Third Friday of month
DM_THIRD_SAT:	82	Third Saturday of month
DM_FOURTH_SUN:	83	Fourth Sunday of month
DM_FOURTH_MON:	84	Fourth Monday of month
DM_FOURTH_TUE:	85	Fourth Tuesday of month
DM_FOURTH_WED:	86	Fourth Wednesday of month
DM_FOURTH_THU:	87	Fourth Thursday of month
DM_FOURTH_FRI:	88	Fourth Friday of month
DM_FOURTH_SAT:	89	Fourth Saturday of month
DM_FIFTH_SUN:	90	Fifth Sunday of month
DM_FIFTH_MON:	91	Fifth Monday of month
DM_FIFTH_TUE:	92	Fifth Tuesday of month
DM_FIFTH_WED:	93	Fifth Wednesday of month
DM_FIFTH_THU:	94	Fifth Thursday of month
DM_FIFTH_FRI:	95	Fifth Friday of month
DM_FIFTH_SAT:	96	Fifth Saturday of month
DM_LAST_SUN:	97	Last Sunday of month
DM_LAST_MON:	98	Last Monday of month
DM_LAST_TUE:	99	Last Tuesday of month
DM_LAST_WED:	100	Last Wednesday of month
DM_LAST_THU:	101	Last Thursday of month
DM_LAST_FRI:	102	Last Friday of month
DM_LAST_SAT:	103	Last Saturday of month
DM_EVERY_SUN:	104	Every Sunday of the month
DM_EVERY_MON:	105	Every Monday of the month
DM_EVERY_TUE:	106	Every Tuesday of the month
DM_EVERY_WED:	107	Every Wednesday of the month
DM_EVERY_THU:	108	Every Thursday of the month
DM_EVERY_FRI:	109	Every Friday of the month
DM_EVERY_SAT:	110	Every Saturday of the month
DM_EVERY_SECOND_DAY:	111	Every second day (i.e. every other day) of the date
DM_EVERY_THIRD_DAY:	112	Every third day of the date interval
DM_EVERY_FOURTH_DAY:	113	Every fourth day of the date interval
DM_EVERY_FIFTH_DAY:	114	Every fifth day of the date interval
DM_EVERY_SIXTH_DAY:	115	Every sixth day of the date interval
DM_EVERY_WEEKDAY:	116	Every weekday (Monday - Friday)
DM_EVERY_WEEKEND_DAY:	117	Every weekend day (Saturday - Sunday)
days_of_month_t is used in: • SCPTscheduleDates • SNVT_sched_exc		

days_of_week_t

Index: 1

DAY_NUL:	-1	Invalid Value
DAY_SUN:	0	Sunday
DAY_MON:	1	Monday
DAY_TUE:	2	Tuesday
DAY_WED:	3	Wednesday
DAY_THU:	4	Thursday
DAY_FRI:	5	Friday
DAY_SAT:	6	Saturday
days_of_week_t is used in: • SCPTtimePeriod • SNVT_date_day • SNVT_time_zone		

defrost_mode_t

Index: 22

DFM_NUL:	-1	Invalid Value
DFM_MODE_AMBIENT:	0	No forced heating required
DFM_MODE_FORCED:	1	Start-up after defrost ignored
DFM_MODE_SYNC:	2	Synchronized
defrost_mode_t is used in: • SNVT_defr_mode		

defrost_state_t

Index: 24

DFS_NUL:	-1	Invalid Value
DFS_STANDBY:	0	Defrost in standby
DFS_PUMPDOWN:	1	Defrost in pump-down mode
DFS_DEFROST:	2	In defrost mode
DFS_DRAINDOWN:	3	Defrost in drain-down
DFS_INJECT_DLY:	4	Defrost in injection delay
defrost_state_t is used in:		

- SNVT_defr_state

defrost_term_t

Index: 23

DFT_NUL:	-1	Invalid Value
DFT_TERM_TEMP:	0	Terminate on temperature
DFT_TERM_TIME:	1	Terminate on time
DFT_TERM_FIRST:	2	Terminate on first occurring
DFT_TERM_LAST:	3	Terminate on last occurring
DFT_TERM_SENSOR:	4	Terminate on sensor
DFT_TERM_DISCHARGE:	5	Terminate on discharge
DFT_TERM_RETURN:	6	Terminate on return
DFT_TERM_SW_OPEN:	7	Terminate on "Switch Open"
DFT_TERM_SW_CLOSE:	8	Terminate on "Switch Closed"
DFT_TERM_MANUF:	100	Manufacturer-Defined termination state
defrost_term_t is used in: • SNVT_defr_term		

device_c_mode_t

Index: 44

DCM_NUL:	-1	Invalid Value
DCM_SPEED_CONST:	0	
DCM_PRESS_CONST:	1	
DCM_PRESS_COMP:	2	
DCM_FLOW_CONST:	3	
DCM_FLOW_COMP:	4	
DCM_TEMP_CONST:	5	
DCM_TEMP_COMP:	6	
DCM_PRESS_AUTO:	7	
DCM_QUICK_OPEN:	20	Valve works with Quick-Open flow characteristic
DCM_LINEAR:	21	Valve works with Linear flow characteristic
DCM_EQUAL_PERCENT:	22	Valve works with Equal Percent flow characteristic
DCM_QUADRATIC:	23	Valve works with Quadratic flow characteristic
DCM_FREE_DEFINED:	24	Valve works with free defined flow characteristic
DCM_2WAY_VALVE:	27	

DCM_MIXING_VALVE:	28	
DCM_DIVERTING_VALVE:	29	
DCM_INVFNC_QCK_OPN:	30	
DCM_INVFNC_EQL_PERC:	31	
DCM_INVFNC_QUAD:	32	

device_c_mode_t is used in:

- SNVT_dev_c_mode

---

device_select_t

Index: 50

DV_NUL:	-1	Invalid value
DV_PUMP_CTRL:	0	Use union for SFPTpumpController values
DV_VALVE_POS:	1	Use union for SFPTvalvePositioner values

device_select_t is used in:

- SNVT_dev_fault
- SNVT_dev_maint
- SNVT_dev_status

---

discrete_levels_t

Index: 2

ST_NUL:	-1	
ST_OFF:	0	
ST_LOW:	1	
ST_MED:	2	
ST_HIGH:	3	
ST_ON:	4	

discrete_levels_t is used in:

- SNVT_clothes_w_c
- SNVT_lev_disc

emerg_t

Index: 13

EMERG_NUL:	-1	Invalid Value
EMERG_NORMAL:	0	No emergency mode
EMERG_PRESSURIZE:	1	Emergency pressurize mode
EMERG_DEPRESSURIZE:	2	Emergency depressurize mode
EMERG_PURGE:	3	Emergency purge mode
EMERG_SHUTDOWN:	4	Emergency shutdown mode
EMERG_FIRE:	5	Emergency fire mode
emerg_t is used in: • SNVT_hvac_emerg		

ent_cmd_t

Index: 48

ES_NUL:	-1	Invalid Value
ES_UNDEFINED:	0	State is not yet defined
ES_OPEN_PULS:	1	Open the device and close it when back in normal position
ES_OPEN:	2	Open the device if not locked
ES_CLOSE:	3	Close the device
ES_STOP:	4	Stop the device
ES_STOP_RESUME:	5	Continue after stop command
ES_ENTRY_REQ:	6	Entry request, access in to the area
ES_EXIT_REQ:	7	Exit request, access out from the area
ES_KEY_REQ:	8	Exit request, access out from the area
ES_SAFETY_EXT_REQ:	9	Safety request, the device will go to a pre defined safety position/mode
ES_EMERGENCY_REQ:	10	Emergency request, the device will go to an pre defined emergency position/mode
ES_UPDATE_STATE:	11	Update the current state and mode
ES_SAF_EXT_RESUME:	12	Resume after Safety function
ES_EMERG_RESUME:	13	Resume after Emergency function
ent_cmd_t is used in: • SNVT_ent_state		

ent_opmode_cmd_t

Index: 47

EM_NUL:	-1	Invalid Value
EM_UNDEFINED:	0	Operation mode is not defined
EM_AUTO:	1	Operation mode is AUTOMATIC
EM_AUTO_RED:	2	Operation mode is AUTOMATIC with reduced width
EM_CLOSE_LOCK:	3	Operation mode is CLOSE AND LOCK
EM_CLOSE_UNLOCK:	4	Operation mode is CLOSE AND UNLOCK
EM_EXIT_ONLY:	5	Operation mode is EXIT ONLY
EM_OPEN:	6	Operation mode is OPEN
EM_OPEN_ONCE:	7	Operation mode is OPEN AND CLOSE ONCE
EM_MANUAL:	8	Operation mode is MANUAL
EM_FIRE:	9	Operation mode is FIRE
EM_EVAC:	10	Operation mode is EVACUATION
EM_WEATHER:	11	Operation mode is WEATHER MODE
EM_DAY_LOCKING:	12	Operation mode is DAY_LOCKING, locking with reduced level of security
EM_NIGHT_LOCKING:	13	Operation mode is NIGHT_LOCKING, locking with maximum level of security
EM_BLOCKED:	14	Operation mode is BLOCKED, no operations is allowed
EM_SERVICE:	15	Operation mode is SERVICE
EM_ENTRY_ONLY:	16	Operation mode is ENTRY_ONLY

ent_opmode_cmd_t is used in:

- SNVT_ent_opmode
- SNVT_ent_status

evap_t

Index: 20

EVAP_NUL:	-1	Invalid Value
EVAP_NO_COOLING:	0	Object not performing cooling (off cycle or disabled)
EVAP_COOLING:	1	Object currently cooling
EVAP_EMERG_COOLING:	2	Object performing emergency cooling

evap_t is used in:

- SNVT_evap_state

event_mode_type_t

Index: 51

EMT_NUL:	-1	Invalid Value
EMT_END_OF_LIST:	0	End of list indicator
EMT_SCENE:	1	Scene indicator
EMT_MODE:	2	Mode indicator
EMT_LIGHTS_ON:	3	
EMT_LIGHTS_OFF:	4	
event_mode_type_t is used in: • SCPTtimeEvent		

ex_control_t

Index: 42

EX_CONTROL_NUL:	-1	The control status of the item is unknown
EX_CONTROL_NONE:	0	Nothing has control of the item.
EX_CONTROL_OTHER:	1	Some unidentified entity has control of the item.
EX_CONTROL_THIS_ADDR:	2	A device has control of the item. The network address of this device is specified in the control_device_addr
ex_control_t is used in: • SNVT_ex_control		

fan_operation_t

Index: 53

HVF_NUL:	-1	Invalid Value
HVF_CONTINUOUS:	0	Fan runs continuously
HVF_CYCLE:	1	Fan cycles with heating and cooling
HVF_CON_CYCLE:	2	Continuous in occupied, cycles in occupiedstandby
HVF_CYCLE_HEAT:	3	Fan cycles with heating only
HVF_CYCLE_COOL:	4	Fan cycles with cooling only
fan_operation_t is used in: • SCPTfanOperation		

file_request_t

Index: 5

FR_NUL:	-1	Invalid Value
FR_OPEN_TO_SEND:	0	Sequential access read
FR_OPEN_TO_RECEIVE:	1	Sequential access write
FR_CLOSE_FILE:	2	Close and save file
FR_CLOSE_DELETE_FILE:	3	Close and delete file
FR_DIRECTORY_LOOKUP:	4	Retrieve directory entry
FR_OPEN_TO_SEND_RA:	5	Random access read
FR_OPEN_TO_RECEIVE_RA:	6	Random access write
file_request_t is used in: • SNVT_file_req		

file_status_t

Index: 6

FS_NUL:	-1	Invalid Value
FS_XFER_OK:	0	File transfer successful
FS_LOOKUP_OK:	1	Directory lookup successful
FS_OPEN_FAIL:	2	Error on opening file
FS_LOOKUP_ERR:	3	Error on directory lookup
FS_XFER_UNDERWAY:	4	File transfer in progress
FS_IO_ERR:	5	Error on reading/writing file
FS_TIMEOUT_ERR:	6	File transfer timed out
FS_WINDOW_ERR:	7	Window sequence error
FS_AUTH_ERR:	8	Authentication failure
FS_ACCESS_UNAVAIL:	9	Access mode not supported
FS_SEEK_INVALID:	10	Random access beyond EOF
FS_SEEK_WAIT:	11	
file_status_t is used in: • SNVT_file_status		

file_type_t

Index: 84

FILE_NUL:	-1	Invalid value

FILE_VALUE:	1	LW-FTP value file
FILE_TEMPLATE:	2	LW-FTP template file
FILE_DATALOG:	3	Data log file
FILE_PROGRAM:	4	Application program file

fire_indicator_t

Index: 28

FN_NUL:	-1	Invalid Value
FN_UNDEFINED:	0	Undefined indicator
FN_STROBE_U:	1	The indicator is un-synchronized
FN_STROBE_S:	2	The indicator is synchronized
FN_HORN:	3	The indicator is a DC input, pre coded Horn
FN_CHIME:	4	The indicator is a DC input, pre coded Chime
FN_BELL:	5	The indicator is a DC input
FN_SOUNDER:	6	The indicator is powered from the device
FN_SPEAKER:	7	The indicator is an AC input for the speaker
FN_UNIVERSAL:	8	General purpose indicator

fire_indicator_t is used in:

- SNVT_fire_indcte

fire_initiator_t

Index: 27

FI_NUL:	-1	Invalid Value
FI_UNDEFINED:	0	Initiator is undefined
FI_THERMAL_FIXED:	1	Initiator is thermal fixed (heat)
FI_SMOKE_ION:	2	Initiator is smoke and ion
FI_MULTI_ION_THERMAL:	3	Initiator is multi-ion and thermal
FI_SMOKE_PHOTO:	4	Initiator is smoke and photo
FI_MULTI_PHOTO_THERMAL:	5	Initiator is multi-photo and thermal
FI_MULTI_PHOTO_ION:	6	Initiator is multi-photo and ion
FI_MULTI_PHOTO_ION_THERMAL:	7	Initiator is multi-photo, ion and thermal
FI_THERMAL_ROR:	8	Initiator is thermal fixed and Rate of Rise
FI_MULTI_THERMAL_ROR:	9	Initiator is multi-thermal and Rate of Rise
FI_MANUAL_PULL:	10	Initiator is manual pull
FI_WATER_FLOW:	11	Initiator is water flow
FI_WATER_FLOW_TAMPER:	12	Initiator is water flow and tamper

FI_STATUS_ONLY:	13	Initiator is status only
FI_MANUAL_CALL:	14	Initiator is a manual call point
FI_FIREMAN_CALL:	15	Initiator is a fireman call point
FI_UNIVERSAL:	16	General purpose initiator definition
fire_initiator_t is used in: • SNVT_fire_init		

---

fire_test_t

Index: 26

FT_NUL:	-1	Invalid Value
FT_NORMAL:	0	Return object to normal status
FT_RESET:	1	Perform a RESET function (for smoke detectors)
FT_TEST:	2	Go into TEST mode
FT_NOTEST:	3	Exit TEST mode
fire_test_t is used in: • SNVT_fire_test		

---

flow_direction_t

Index: 49

FD_NUL:	-1	Invalid Value
FD_NONE:	0	No flow/movement allowed
FD_OUT:	1	Exit/out/away direction only
FD_IN:	2	Entry/in/toward direction only
FD_ANY:	3	No restriction on flow/movement
flow_direction_t is used in: • SNVT_flow_dir		

---

gfci_status_t

Index: 39

GFCI_NUL:	-1	Invalid Value
GFCI_UNKNOWN:	0	Unknown response
GFCI_NORMAL:	1	Normal GFCI operating condition

GFCI_TRIPPED:	2	A ground-fault has caused the GFCI to interrupt the circuit
GFCI_TEST_FAILED:	3	The GFCI failed testing
GFCI_TEST_PASSED:	4	The GFCI passed testing
GFCI_TEST_NOW:	5	The GFCI needs to be tested
gfci_status_t is used in: • SNVT_gfci_status		

hvac_hvt_t

Index: 31

HVT_NUL:	-1	Invalid Value
HVT_GENERIC:	0	Generic
HVT_FAN_COIL:	1	Fan Coil
HVT_VAV:	2	Variable Air Volume Terminal
HVT_HEAT_PUMP:	3	Heat Pump
HVT_ROOFTOP:	4	Rooftop Unit
HVT_UNIT_VENT:	5	Unit Ventilator
HVT_CHILL_CEIL:	6	Chilled Ceiling
HVT_RADIATOR:	7	Radiator
HVT_AHU:	8	Air Handling Unit
HVT_SELF_CONT:	9	Self-Contained Unit
hvac_hvt_t is used in: • SNVT_hvac_type		

hvac_overid_t

Index: 16

HVO_NUL:	-1	Invalid Value
HVO_OFF:	0	Not overridden
HVO_POSITION:	1	
HVO_FLOW_VALUE:	2	Override flow in liters/sec - use flow field
HVO_FLOW_PERCENT:	3	Override flow percentage - use percent field
HVO_OPEN:	4	Override to position = 100%
HVO_CLOSE:	5	Override to position = 0%
HVO_MINIMUM:	6	Override to configured minimum
HVO_MAXIMUM:	7	Override to configured maximum
HVO_UNUSED8:	8	

HVO_UNUSED9:	9	
HVO_UNUSED10:	10	
HVO_UNUSED11:	11	
HVO_UNUSED12:	12	
HVO_UNUSED13:	13	
HVO_UNUSED14:	14	
HVO_UNUSED15:	15	
HVO_UNUSED16:	16	
HVO_POSITION_1:	17	
HVO_FLOW_VALUE_1:	18	Override flow in liters/sec - use flow field
HVO_FLOW_PERCENT_1:	19	Override flow percentage - use percent field
HVO_OPEN_1:	20	Override to position = 100%
HVO_CLOSE_1:	21	Override to position = 0%
HVO_MINIMUM_1:	22	Override to configured minimum
HVO_MAXIMUM_1:	23	Override to configured maximum
HVO_UNUSED24:	24	
HVO_UNUSED25:	25	
HVO_UNUSED26:	26	
HVO_UNUSED27:	27	
HVO_UNUSED28:	28	
HVO_UNUSED29:	29	
HVO_UNUSED30:	30	
HVO_UNUSED31:	31	
HVO_UNUSED32:	32	
HVO_POSITION_2:	33	
HVO_FLOW_VALUE_2:	34	Override flow in liters/sec - use flow field
HVO_FLOW_PERCENT_2:	35	Override flow percentage - use percent field
HVO_OPEN_2:	36	Override to position = 100%
HVO_CLOSE_2:	37	Override to position = 0%
HVO_MINIMUM_2:	38	Override to configured minimum
HVO_MAXIMUM_2:	39	Override to configured maximum
HVO_UNUSED40:	40	
HVO_UNUSED41:	41	
HVO_UNUSED42:	42	
HVO_UNUSED43:	43	
HVO_UNUSED44:	44	
HVO_UNUSED45:	45	
HVO_UNUSED46:	46	
HVO_UNUSED47:	47	
HVO_UNUSED48:	48	
hvac_overid_t is used in: • SNVT_hvac_overid		

hvac_t

Index: 14

HVAC_NUL:	-1	Invalid value
HVAC_AUTO:	0	Controller automatically changes between application modes
HVAC_HEAT:	1	Heating only
HVAC_MRNG_WRMUP:	2	Application-specific morning warm-up
HVAC_COOL:	3	Cooling only
HVAC_NIGHT_PURGE:	4	Application-specific night purge
HVAC_PRE_COOL:	5	Application-specific pre-cool
HVAC_OFF:	6	Controller not controlling outputs
HVAC_TEST:	7	Equipment being tested
HVAC_EMERG_HEAT:	8	Emergency heat mode (heat pump)
HVAC_FAN_ONLY:	9	Air not conditioned, fan turned on
HVAC_FREE_COOL:	10	Cooling with compressor not running
HVAC_ICE:	11	Ice-making mode
HVAC_MAX_HEAT:	12	Maximum heating mode
HVAC_ECONOMY:	13	Economic Heat/Cool mode
HVAC_DEHUMID:	14	Dehumidification mode
HVAC_CALIBRATE:	15	Calibration mode
HVAC_EMERG_COOL:	16	Emergency cool mode
HVAC_EMERG_STEAM:	17	Emergency steam mode
HVAC_MAX_COOL:	18	
HVAC_HVC_LOAD:	19	
HVAC_NO_LOAD:	20	

hvac_t is used in:

- SNVT_chlr_status
- SNVT_hvac_mode
- SNVT_hvac_status

interval_of_month_t

Index: 58

IOM_NUL:	-1	Invalid Value
IOM_MINUTE:	0	Interval in minutes
IOM_HOUR:	1	Interval in hours
IOM_DAY:	2	Interval in days
IOM_WEEK:	3	Interval in weeks
IOM_MONTH:	4	Interval in months

interval_of_month_t is used in: • SCPTtimePeriod

learn_mode_t

Index: 11

LN_NUL:	-1	Invalid Value
LN_RECALL:	0	Recall
LN_LEARN_CURRENT:	1	Learn present value
LN_LEARN_VALUE:	2	Learn given value
LN_REPORT_VALUE:	3	Report the value
learn_mode_t is used in: • SNVT_preset		

log_access_req_t

Index: 79

LAR_NUL:	-1	Invalid value; this enumeration is not currently used in any SNVTs or SCPTs
LAR_GET_FIRST:	0	Get first record of a data log.
LAR_GET_NEXT:	1	Get next record of a data log.
LAR_CLEAR:	2	Clear data log.

log_record_t

Index: 76

LR_NUL:	-1	Invalid value
LR_DATA:	0	Point value
LR_LOG_STATUS:	1	Log status change
LR_TIME_CHANGE:	2	Time change

log_response_code_t

Index: 80

LRC_NUL:	-1	Invalid value; this enumeration is not currently used in any SNVTs or SCPTs
LRC_SUCCESS:	48	The operation was successful. The payload is the requested record.
LRC_END_OF_LOG:	49	The end of the log has been reached. No payload.
LRC_VER_MISMATCH:	50	Protocol version mismatch. The payload is the supported version number closest to the requested version number.
LRC_BAD_REQUEST:	51	Unknown request type. No payload.
LRC_BAD_LOG_INDEX:	52	Index is out of range. Payload will contain the number of logs in the device.

log_status_t

Index: 73

LS_NUL:	-1	Invalid value
LS_ENABLED:	0	Log enabled
LS_DISABLED:	1	Log disabled
LS_FULL:	2	Log enabled and full
LS_OVERFLOW_ERR:	3	Log enabled, overflow occured
LS_INVALID_LOG_ERR:	4	Invalid log selected
LS_APP_ERR:	5	Other application error
log_status_t is used in: • SCPTlogRecord • SNVT_log_status		

log_type_t

Index: 74

LT_NUL:	-1	Invalid value
LT_CIRCULAR:	0	Discard oldest data when full
LT_HISTORICAL:	1	Stop logging when full
LT_SNAPSHOT:	2	Only maintain the current value of each data point
log_type_t is used in: • SCPTlogType		

master_slave_t

Index: 52

MSC_NUL:	-1	Invalid Value
MSC_UNKNOWN:	0	Undefined or unused
MSC_SLAVE:	1	Slave control
MSC_MASTER:	2	Master control
master_slave_t is used in: • SCPTsluiceCnfg		

message_code_t

Index: 78

MC_NUL:	-1	Invalid value; this enumeration is not currently used in any SNVTs or SCPTs
MC_FIRST_RESERVED_CODE:	48	First reserved standard message code. Codes 48 - 62 are reserved for standard message codes.
MC_BROADCAST:	59	Broadcast message. See profile documentation for message data format.
MC_DATA_LOG_ACCESS:	60	Data log access request. See log_response_code_t for response codes.
MC_ISI:	61	Interoperable self-installation (ISI) message
MC_FILE_TRANSFER:	62	File transfer message

months_t

Index: 55

MN_NUL:	-1	Invalid value
MN_EVERY_MONTH:	0	Every month
MN_JAN:	1	January
MN_FEB:	2	February
MN_MAR:	3	March
MN_APR:	4	April
MN_MAY:	5	May
MN_JUN:	6	June
MN_JUL:	7	July
MN_AUG:	8	August
MN_SEP:	9	September
MN_OCT:	10	October

MN_NOV:	11	November
MN_DEC:	12	December
MN_EVERY_2_MONTH:	13	Every other month
MN_QUARTERLY:	14	Every third month
MN_EVERY_4_MONTH:	15	Every fourth month
MN_EVERY_5_MONTH:	16	Every fifth month
MN_EVERY_6_MONTH:	17	Every sixth month
MN_EVERY_7_MONTH:	18	Every seventh month
MN_EVERY_8_MONTH:	19	Every eighth month
MN_EVERY_9_MONTH:	20	Every ninth month
MN_EVERY_10_MONTH:	21	Every tenth month
MN_EVERY_11_MONTH:	22	Every eleventh month
MN_EVERY_ODD_MONTH:	23	Jan, Mar, May, Jul, Sep, Nov
MN_EVERY_EVEN_MONTH:	24	Feb, Apr, Jun, Aug, Oct, Dec
months_t is used in: • SCPTscheduleDates • SNVT_sched_exc		

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motor_state_t

Index: 40

MOTOR_NUL:	-1	The state of the motor is unknown (invalid value)
MOTOR_STOPPED:	0	The motor is not running
MOTOR_STARTING:	1	The motor is performing its start-up sequence
MOTOR_ACCELERATING:	2	The motor is running. Speed is increasing.
MOTOR_AT_STANDBY:	3	The motor is running in its standby mode
MOTOR_AT_NORMAL:	4	The motor is running in its normal operational mode
MOTOR_AT_REFERENCE:	5	The motor is running at its reference speed.
MOTOR_DECELERATING:	6	The motor is running. Speed is decreasing.
MOTOR_STOPPING:	7	The motor is running, beginning its shutdown sequence.
motor_state_t is used in: • SNVT_motor_state • SNVT_pumpset_mn		

nv_type_category_t

Index: 46

NVT_CAT_NUL:	-1	Invalid Value
NVT_CAT_INITIAL:	0	
NVT_CAT_SIGNED_CHAR:	1	8-bit signed character
NVT_CAT_UNSIGNED_CHAR:	2	8-bit unsigned character
NVT_CAT_SIGNED_SHORT:	3	8-bit signed integer
NVT_CAT_UNSIGNED_SHORT:	4	8-bit unsigned integer
NVT_CAT_SIGNED_LONG:	5	16-bit signed integer
NVT_CAT_UNSIGNED_LONG:	6	16-bit unsigned integer
NVT_CAT_ENUM:	7	8-bit enumeration
NVT_CAT_ARRAY:	8	Array
NVT_CAT_STRUCT:	9	Structure
NVT_CAT_UNION:	10	Union
NVT_CAT_BITFIELD:	11	Bitfield
NVT_CAT_FLOAT:	12	32-bit IEC 60559 (IEEE 754) floating-point value
NVT_CAT_SIGNED_QUAD:	13	32-bit signed integer
NVT_CAT_REFERENCE:	14	Reference type
nv_type_category_t is used in: • SNVT_nv_type		

object_request_t

Index: 10

RQ_NUL:	-1	Invalid Value
RQ_NORMAL:	0	Enable object and remove override
RQ_DISABLED:	1	Disable object
RQ_UPDATE_STATUS:	2	Report object status
RQ_SELF_TEST:	3	Perform object self-test
RQ_UPDATE_ALARM:	4	Update alarm status
RQ_REPORT_MASK:	5	Report status bit mask
RQ_OVERRIDE:	6	Override object
RQ_ENABLE:	7	Enable object
RQ_RMV_OVERRIDE:	8	Remove object override
RQ_CLEAR_STATUS:	9	Clear object status
RQ_CLEAR_ALARM:	10	Clear object alarm
RQ_ALARM_NOTIFY_ENABLED:	11	Enable alarm notification
RQ_ALARM_NOTIFY_DISABLED:	12	Disable alarm notification

RQ_MANUAL_CTRL:	13	Enable object for manual control
RQ_REMOTE_CTRL:	14	Enable object for remote control
RQ_PROGRAM:	15	Enable programming of special configuration properties
RQ_CLEAR_RESET:	16	Clear reset-complete flag (reset_complete)
RQ_RESET:	17	Execute reset-sequence of object
RQ_CLEAR_LOG:	18	Clear data log
RQ_LOAD_PROGRAM:	19	Load the program specified in SCPTprogSelect
RQ_RUN_PROGRAM:	20	Run the currently loaded program. If the program was halted manually, this will resume running from the point is was halted.
RQ_HALT_PROGRAM:	21	Halt the currently loaded program. This will preserve the program state and a subsequent Run command will resume the program from where it was halted.
RQ_RESTART_PROGRAM:	22	Restart the currently loaded program from the beginning.
RQ_UNLOAD_PROGRAM:	23	Unload the currently loaded program
RQ_STEP_PROGRAM:	24	Executes the next logical operation (line, statement, instruction, logic block, etc.) of the currently loaded program. The program state must be "idle" or "halted" to accept this command, otherwise it will be ignored. The program returns to "halted" state after execution of this command

object_request_t is used in:

- SCPTprogCmdHistory
- SNVT_obj_request

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occup_t

Index: 15

OC_NUL:	-1	Invalid Value
OC_OCCUPIED:	0	Area is occupied
OC_UNOCCUPIED:	1	Area is unoccupied
OC_BYPASS:	2	Area is temporarily occupied for the bypass period
OC_STANDBY:	3	Area is temporarily unoccupied

occup_t is used in:

- SCPToccupancyBehavior
- SNVT_occupancy
- SNVT_time_val_2
- SNVT_tod_event

olc_select_t

Index: 82

OLC_NUL:	-1	Invalid value
OLC_DEFAULT:	0	Standard (default)
OLC_RELAY:	1	Relay Actuation
OLC_ECO_MODE:	2	ECO Mode
OLC_1_to_10:	3	1-to-10 Volt
OLC_DALI:	4	DALI
olc_select_t is used in: • SCPTdeviceOutSelection		

override_t

Index: 12

OV_NUL:	-1	Invalid Value
OV_RETAIN:	0	Retain current level
OV_SPECIFIED:	1	Go to specified level
OV_DEFAULT:	2	Go to default level
override_t is used in: • SNVT_override		

pan_dir_t

Index: 33

PAN_NUL:	-1	Invalid Value
PAN_STOP:	0	Stop panning
PAN_RIGHT:	1	Pan to the right
PAN_LEFT:	2	Pan to the left
pan_dir_t is used in: • SNVT_ptz		

point_status_t

Index: 77

PS_NUL:	-1	Invalid value
PS_NORMAL:	0	Normal state
PS_IN_ALARM:	1	In alarm
PS_FAULT:	2	Fault not indicated by an alarm
PS_OVERRIDDEN:	3	Point value overridden
PS_OUT_OF_SERVICE:	4	Out of service
point_status_t is used in: • SCPTlogRecord		

priority_level_t

Index: 8

PR_NUL:	-1	Invalid Value
PR_LEVEL_0:	0	Lowest alarm priority level
PR_LEVEL_1:	1	
PR_LEVEL_2:	2	
PR_LEVEL_3:	3	Highest alarm priority level
PR_1:	4	Life Safety Fire Alarms (BACnet Priority 2)
PR_2:	5	Property Safety Fire Alarms (BACnet Priority 3)
PR_3:	6	Fire Supervisory Alarm (BACnet Priority 4)
PR_4:	7	Fire Trouble/Fault (Display) (BACnet Priority 5)
PR_6:	8	Fire Pre-Alarm, HVAC Critical Equipment Alarm (BACnet Priority 6)
PR_8:	9	HVAC Alarms (BACnet Priority 8)
PR_10:	10	HVAC Critical Equipment RTN, Fire RTN (Display) (BACnet Priority 10)
PR_16:	11	HVAC RTN (lowest priority) (BACnet Priority 16)
priority_level_t is used in: • SNVT_alarm • SNVT_alarm_2 • SNVT_pumpset_mn		

privacyzone_t

Index: 36

PZ_NUL:	-1	Invalid value
PZ_DISABLE:	0	Disable privacy zone warning
PZ_ENABLE:	1	Enable privacy zone warning
PZ_UPPER_LEFT:	2	Set upper left corner
PZ_LOWER_RIGHT:	3	Set lower right corner
PZ_ENTER:	4	Privacy zone enter warning
PZ_EXIT:	5	Privacy zone exit message
privacyzone_t is used in: • SNVT_privacyzone		

program_state_t

Index: 83

PRS_NUL:	-1	Invalid Value
PRS_NO_PROGRAM:	0	No Program
PRS_IDLE:	1	Idle (ready to run)
PRS_LOADING:	2	Loading (program is being loaded - will become Idle when done)
PRS_RUNNING:	3	Running (may be halted by user, or halted if error occurs)
PRS_HALTED:	4	Halted (program has stopped due to an error or user command)
PRS_UNLOADING:	5	Unloading (program is being unloaded - will become "No Program" when done)
program_state_t is used in: • SCPTprogStateHistory • SNVT_program_status		

program_status_error_t

Index: 85

PSE_NUL:	-1	Invalid value
PSE_NO_ERROR:	0	No Error
PSE_PROGRAM_FAULT_NOHALT:	1	Program fault (no halt)
PSE_INVALID_OPERATION_NOHALT:	2	Invalid operation (no halt)
PSE_INVALID_PARAMETER_NOHALT:	3	Invalid parameter (no halt)
PSE_STACK_OVERFLOW_NOHALT:	4	Stack overflow (no halt)

PSE_STACK_UNDERFLOW_NOHALT:	5	Stack underflow (no halt)
PSE_INSUFFICIENT_MEMORY_NOHALT:	6	Insufficient memory (no halt)
PSE_WATCHDOG_NOHALT:	7	Unknown error (resulted in a program halt)
PSE_UNKNOWN_ERROR_NOHALT:	31	Unknown error (no halt)
PSE_LOAD_ERROR_HALT:	32	Load error
PSE_PROGRAM_FAULT_HALT:	33	Program fault (resulted in a program halt)
PSE_INVALID_OPERATION_HALT:	34	Invalid operation (resulted in a program halt)
PSE_INVALID_PARAMETER_HALT:	35	Invalid operation (resulted in a program halt)
PSE_STACK_OVERFLOW_HALT:	36	Invalid operation (resulted in a program halt)
PSE_STACK_UNDERFLOW_HALT:	37	Stack underflow (resulted in a program halt)
PSE_INSUFFICIENT_MEMORY_HALT:	38	Insufficient Memory Halt
PSE_WATCHDOG_HALT:	39	Watchdog Halt
PSE_CORRUPTED_PROGRAM_HALT:	40	Corrupted program (resulted in a program halt)
PSE_UNKNOWN_ERROR_HALT:	63	Unknown error (resulted in a program halt)
program_status_error_t is used in: • SCPTprogErrorHistory • SNVT_program_status		

rail_audio_sensor_type_t

Index: 61

RAST_NUL:	-1	Invalid Value
RAST_CU_TYPE_1:	0	CU Type 1
RAST_CU_TYPE_2:	1	CU Type 2
RAST_CU_TYPE_3:	2	
RAST_CU_TYPE_4:	3	CU Type 4
RAST_LS_LINE_1:	4	LS Line 1
RAST_LS_LINE_2:	5	LS Line 2
RAST_LS_LINE_3:	6	LS Line 3
RAST_LS_LINE_4:	7	LS Line 4
RAST_LS_LINE_5:	8	LS Line 5
RAST_LS_LINE_6:	9	LS Line 6
RAST_LS_LINE_7:	10	LS Line 7
RAST_LS_LINE_8:	11	LS Line 8
RAST_PAU:	12	Public-Address Unit
RAST_CFA_TYPE_1:	13	CFA Type 1
RAST_CFA_TYPE_2:	14	CFA Type 2
RAST_CFA_TYPE_3:	15	CFA Type 3
RAST_CFA_TYPE_4:	16	CFA Type 4

RAST_DVA:	17	DVA
RAST_ET_TYPE_1:	18	ET Type 1
RAST_ET_TYPE_2:	19	ET Type 2
RAST_USERDEF_TYPE_1:	20	User-defined Type 1
RAST_USERDEF_TYPE_2:	21	User-defined Type 2
RAST_USERDEF_TYPE_3:	22	User-defined Type 3
RAST_USERDEF_TYPE_4:	23	User-defined Type 4

rail_audio_sensor_type_t is used in:

- SNVT_rac_ctrl
- SNVT_rac_req

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rail_audio_type_t

Index: 62

RAT_NUL:	-1	
RAT_IC_REQ:	0	
RAT_IC_JOIN:	1	
RAT_IC_QUIT:	2	
RAT_IC_END:	3	
RAT_HW_RADIO_REQ:	4	
RAT_HW_RADIO_END:	5	
RAT_HW_PA_REQ:	6	
RAT_HW_PA_END:	7	
RAT_SW_PA_REQ:	8	
RAT_SW_PA_END:	9	
RAT_SW_PA_OR_REQ:	10	
RAT_SW_PA_OR_END:	11	
RAT_PAU_REQ:	12	
RAT_PAU_ACCEPT:	13	
RAT_PAU_CALL:	14	
RAT_PAU_END:	15	
RAT_ENTERT_REQ:	16	
RAT_ENTERT_END:	17	

rail_audio_type_t is used in:

- SNVT_rac_ctrl
- SNVT_rac_req

reg_val_unit_t

Index: 30

RVU_NUL:	-1	invalid unit of measure (INVALID)
RVU_NONE:	0	no units specified ( )
RVU_W:	1	Watts (W)
RVU_KW:	2	kiloWatts (kW)
RVU_MW:	3	megaWatts (MW)
RVU_GW:	4	gigaWatts (GW)
RVU_VAR:	5	Volt-Amperes reactive (var)
RVU_KVAR:	6	kilo-Volt-Amperes reactive (kvar)
RVU_MVAR:	7	mega-Volt-Amperes reactive (Mvar)
RVU_GVAR:	8	giga-Volt-Amperes reactive (Gvar)
RVU_WH:	9	Watt-hour (Wh)
RVU_KWH:	10	kiloWatt-hour (kWh)
RVU_MWH:	11	megaWatt-hour (MWh)
RVU_GWH:	12	gigaWatt-hour (GWh)
RVU_VARH:	13	Volt-Amperes reactive -hour (varh)
RVU_KVARH:	14	kilo-Volt-Amperes reactive -hour (kvarh)
RVU_MVARH:	15	mega-Volt-Amperes reactive -hour (Mvarh)
RVU_GVARH:	16	giga-Volt-Amperes reactive -hour (Gvarh)
RVU_V:	17	Volts (V)
RVU_A:	18	Amps (A)
RVU_COSF:	19	(cosf)
RVU_M3:	20	cubic metres (m³)(cu.m)
RVU_L:	21	litres (l)
RVU_ML:	22	millilitres (ml)
RVU_USGAL:	23	U.S. Gallons (USG)
RVU_GJ:	24	giga-Joules (GJ)
RVU_MJ:	25	mega-Joules (MJ)
RVU_MCAL:	26	megacalories (Mcal)
RVU_KCAL:	27	kilocalories (kcal) / Calories (Cal)
RVU_MBTU:	28	mega-British thermal units (mBtu)
RVU_KBTU:	29	kilo-British thermal units (kBtu)
RVU_MJH:	30	mega-Joules per hour (MJ/h)
RVU_MLS:	31	millilitres per second (ml/s)
RVU_LS:	32	litres per second (l/s)
RVU_M3S:	33	cubic-metres per second (m³/s) (cu.m/s)
RVU_C:	34	(C)
RVU_LH:	35	litres per hour (l/h)
RVU_VA:	36	Volt-Amperes (VA)
RVU_KVA:	37	kiloVolt-Amperes (kVA)

RVU_MVA:	38	megaVolt-Amperes (MVA)
RVU_GVA:	39	gigaVolt-Amperes (GVA)
RVU_VAH:	40	Volt-Ampere hours (VAh)
RVU_KVAH:	41	kiloVolt-Ampere hours (kVAh)
RVU_MVAH:	42	megaVolt-Ampere hours (MVAh)
RVU_GVAH:	43	giga-Volt-Ampere hours (GVAh)
reg_val_unit_t is used in: • SNVT_reg_val • SNVT_reg_val_ts		

sblnd_cmd_source_t

Index: 59

SBCS_NUL:	-1	Invalid value
SBCS_LOCAL:	0	Local
SBCS_GROUP:	1	Group
SBCS_WIND_SPEED:	2	Wind speed
SBCS_SUN_LUX:	3	Sun lux level
SBCS_RAIN:	4	Rain
SBCS_FROST:	5	Frost
SBCS_DAWN:	6	Dawn
SBCS_DUSK:	7	Dusk
SBCS_OUTSIDE_TEMP:	8	Outside temperature
SBCS_INDOOR_TEMP:	9	Indoor temperature
SBCS_OUTDOOR_RH:	10	Outdoor relative humidity
SBCS_INDOOR_RH:	11	Indoor relative humidity
SBCS_ILLUM_LEVEL:	12	Illumination level
SBCS_SCENE:	13	Scene
SBCS_GLOBAL:	14	Global
SBCS_WINDOW_CONTACT:	15	Window contact
SBCS_AUTOMODE_CHANGED:	16	Auto-mode changed
SBCS_OVERRIDE:	17	Override
SBCS_EMERGENCY:	18	Emergency
SBCS_MAINTENANCE:	19	Maintenance
SBCS_INTRUSION:	20	Intrusion
SBCS_TERMINAL_LOAD:	21	Terminal load
SBCS_ALARM:	22	Alarm
SBCS_OCC_SENSOR:	23	Occupancy sensor
SBCS_OCC_MAN_CMD:	24	Occupancy manual command

SBCS_GLARE:	25	Glare
SBCS_ALARM_2:	26	Alarm 2
SBCS_NOTIFY:	27	Notify
SBCS_ELEVATION:	28	Elevation
SBCS_AZIMUTH:	29	Azimuth
SBCS_SET_OVERRIDE:	30	Set override
SBCS_SET_MAINTENANCE:	31	Set maintenance
SBCS_TIMER:	32	Timer
SBCS_UNKNOWN:	127	Unknown command source
sblnd_cmd_source_t is used in: • SNVT_sblnd_state		

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sblnd_error_t

Index: 60

SBE_NUL:	-1	Invalid Value
SBE_NO_ERROR:	0	No error
SBE_IN_PROGRESS:	1	In progress
SBE_LIMITS:	2	Limits
SBE_OBSTACLE_UP:	3	Obstacle up
SBE_OBSTACLE_DOWN:	4	Obstacle down
SBE_OVERHEAT:	5	Overheat
SBE_POWER:	6	Power
SBE_SENSOR:	7	Sensor
SBE_MOTOR_CIRCUIT:	8	Motor circuit
SBE_FUSE:	9	Fuse
SBE_REFERENCE_LOST:	10	Reference lost
SBE_HOST_COMM:	11	Host communication
SBE_VOLTAGE_1:	12	Voltage 1
SBE_VOLTAGE_2:	13	Voltage 2
SBE_CONTROLLER:	14	Controller
sblnd_error_t is used in: • SNVT_sblnd_state		

scene_config_t

Index: 18

SCF_NUL:	-1	Invalid Value
SCF_SAVE:	0	Overwrite this scene with new data
SCF_CLEAR:	1	Delete this scene from the list
SCF_REPORT:	2	Display this scene's data
SCF_SIZE:	3	Report the number of programmed scenes
SCF_FREE:	4	Report the number of free scene storage spaces
scene_config_t is used in: • SNVT_scene_cfg		

scene_t

Index: 17

SC_NUL:	-1	Invalid value
SC_RECALL:	0	Recall a specified scene.
SC_LEARN:	1	Store the current setting in the specified scene.
SC_DISPLAY:	2	Display the current scene.
SC_GROUP_OFF:	3	Report current group is off.
SC_GROUP_ON:	4	Report current group is on.
SC_STATUS_OFF:	5	Report current status is off.
SC_STATUS_ON:	6	Report current status is on.
SC_STATUS_MIXED:	7	Report current status is mixed.
SC_GROUP_STATUS:	8	Get group status.
SC_FLICK:	9	Toggle state off and then on.
SC_TIMEOUT:	10	Report a timeout occured.
SC_TIMEOUT_FLICK:	11	Report a timeout occured for a flick warning.
SC_DELAYOFF:	12	Set the state to off after a delay.
SC_DELAYOFF_FLICK:	13	Flick and then set the state to off after a delay.
SC_DELAYON:	14	Set the state to on after a delay.
SC_ENABLE_GROUP:	15	Enable the current group.
SC_DISABLE_GROUP:	16	Disable the current group.
SC_CLEANON:	17	Recall the cleaning scene.
SC_CLEANOFF:	18	Restore the previous scene.
SC_WINK:	19	Toggle to the opposite state and then restore the state.
SC_RESET:	20	Restore the factory default scene table.
SC_MODE1:	21	Manufacturer-specific mode 1.
SC_MODE2:	22	Manufacturer-specific mode 2.

SC_MODE3:	23	Manufacturer-specific mode 3.
scene_t is used in: • SNVT_scene		

scheduler_status_t

Index: 87

SCH_NUL:	-1	Invalid value
SCH_DAILY_SCHEDULE:	0	Daily schedule (lowest priority)
SCH_SCHED_SPECIAL:	1	Scheduled vacation or holiday event
SCH_SCHED_EXCEPTION:	2	Scheduled exception event
SCH_LOCAL_OCC_OVERRIDE:	3	Local occupancy override
SCH_EXCEPTION_SCH_OVERRIDE:	4	Exception schedule override
SCH_MANUAL_OVERRIDE:	5	Manual override (highest priority)
SCH_OTHER:	6	Undefined override
scheduler_status_t is used in: • SNVT_sched_status		

sec_state_t

Index: 57

SSE_NUL:	-1	
SSE_OFF:	0	
SSE_ON:	1	
SSE_INHIBIT_RESET:	2	
SSE_INHIBIT:	3	
SSE_WALK_TEST_OFF:	4	
SSE_WALK_TEST_ON:	5	
SSE_TEST_MODE_OFF:	6	
SSE_TEST_MODE_ON:	7	
SSE_POLL_STATUS:	8	
SSE_POLL_STATE:	9	
SSE_CONFIRM_ALARM_RESET:	10	
SSE_CONFIRM_ALARM:	11	
SSE_CONFIRM_TAMPER_RESET:	12	
SSE_CONFIRM_TAMPER:	13	
SSE_CONFIRM_MAINTENANCE:	14	

SSE_CONFIRM_TROUBLE:	15	
SSE_CONFIRM_FAULT:	16	
SSE_CONFIRM_RECOVERED_SENSOR:	17	
SSE_LOST_SENSOR:	18	
SSE_CONFIRM_UNSUPPORTED:	19	
sec_state_t is used in: • SNVT_sec_state		

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sec_status_t

Index: 56

SSS_NUL:	-1	
SSS_POWER_UP:	0	
SSS_ALARM_RESET:	1	
SSS_ALARM:	2	
SSS_TAMPER_RESET:	3	
SSS_TAMPER:	4	
SSS_MAINTENANCE:	5	
SSS_TROUBLE:	6	
SSS_FAULT:	7	
SSS_RECOVERED_SENSOR:	8	
SSS_LOST_SENSOR:	9	
SSS_POLL_ACTIVE:	10	
SSS_POLL_INACTIVE:	11	
SSS_POLL_TAMPER:	12	
SSS_POLL_ON:	13	
SSS_POLL_OFF:	14	
SSS_POLL_INHIBIT:	15	
SSS_POLL_TEST:	16	
SSS_CONFIRM_OFF:	17	
SSS_CONFIRM_ON:	18	
SSS_CONFIRM_INHIBIT_RESET:	19	
SSS_CONFIRM_INHIBIT:	20	
SSS_CONFIRM_WALK_TEST_OFF:	21	
SSS_CONFIRM_WALK_TEST_ON:	22	
SSS_CONFIRM_TEST_MODE_OFF:	23	
SSS_CONFIRM_TEST_MODE_ON:	24	
SSS_CONFIRM_UNSUPPORTED:	25	
sec_status_t is used in:		

- SNVT_sec_status

setting_t

Index: 19

SET_NUL:	-1	Invalid value
SET_OFF:	0	Change state to off
SET_ON:	1	Change state to on, restoring the last on setting
SET_DOWN:	2	Decrease the setting by the offset supplied in the setting field
SET_UP:	3	Increase the setting by the offset supplied in the setting field
SET_STOP:	4	Stop any motion, for example for blinds
SET_STATE:	5	Change the setting to the value specified

setting_t is used in:

- SNVT_setting

switch_state_t

Index: 71

SW_NUL:	-1	Invalid value
SW_SET_OFF:	0	Set the state to off; ignored for blinds, drapes, shades, and fans
SW_SET_ON:	1	Set the state to on; ignored for blinds, drapes, shades, and fans
SW_REPORT_OFF:	2	Report that the state is off; output only; ignored for input
SW_REPORT_ON:	3	Report that the state is on; output only; ignored for input
SW_TOGGLE_STATE:	4	Toggle on-off state; same action as SW_SET_OFF if the on/off state was on, and SW_SET_ON if the on/off state was off; ignored for blinds, drapes, shades, and fans
SW_SET_LEVEL:	5	Set the level to the specified value; ignored for blinds, drapes, shades, and fans
SW_INCREASE_LEVEL:	6	Increase the level by the specified value; ignored for blinds, drapes, shades, and fans
SW_DECREASE_LEVEL:	7	Decrease the level by the specified amount; ignored for blinds, drapes, shades, and fans
SW_RECALL_SCENE:	8	Recall the state and level from the specified scene
SW_STORE_SCENE:	9	Store setting for the specified scene
SW_LEARN_SCENE:	10	Learn setting for the specified scene
SW_SET_OCCUPIED:	11	Set the occupancy state
SW_SET_UNOCCUPIED:	12	Clear the occupancy state

SW_SET_MULTIPLIER:	13	Set a multiplier for the level for 60 minutes; ignored for blinds, drapes, shades, and fans
SW_ENABLE_GROUP:	14	Enable a group; all groups are enabled by default
SW_DISABLE_GROUP:	15	Disable a group
SW_WINK:	16	Blink state (toggle on-off state; pause; toggle on-off state again
SW_RESET:	17	Reset scene definitions, multiplier, occupancy state, group enable flags, and settings to factory defaults
SW_RESET_ENERGY_USAGE:	18	Reset energy usage value to zero
SW_RESET_RUNTIME:	19	Reset runtime value to zero
SW_INCREASE_HUE:	20	Increase color hue
SW_DECREASE_HUE:	21	Decrease color hue
SW_SET_BUTTON:	22	Trigger the actions for pressing and releasing the button specified in the value field
SW_SET_GROUP_STATE_LEVEL:	23	Set state and percent of full level (value field) for a group specified in the scene field
SW_SET_FAN_UP:	32	Set ceiling fan direction to up, with specified level
SW_SET_FAN_DOWN:	33	Set ceiling fan direction to down, with specified level
SW_TOGGLE_FAN_DIRECTION:	34	Toggle fan up-down direction
SW_INCREASE_FAN_LEVEL:	35	Increase fan speed by the setting
SW_DECREASE_FAN_LEVEL:	36	Decrease fan speed by the setting
SW_SET_FAN_ON:	37	Set the fan state to on
SW_SET_FAN_OFF:	38	Set the fan state to off
SW_TOGGLE_FAN_STATE:	39	Toggle the fan on-off state
SW_MOVE_OPEN:	48	Move blinds, drapes, or shades open by the setting
SW_MOVE_CLOSED:	49	Move blinds, drapes, or shades closed by the setting
SW_SET_ANGLE:	50	Set the rotation angle of blinds to the setting
SW_ROTATE_OPEN:	51	Rotate blinds open by the setting
SW_ROTATE_CLOSED:	52	Rotate blinds closed by the setting
SW_STOP:	53	Stop any motion of blinds, drapes, or shades
SW_SET_STANDBY:	54	Set Standby mode
SW_TOGGLE_STANDBY:	55	Toggle the standby state
SW_SET_POSITION:	56	Set blinds, drapes, or shades to the specified position; 100% is fully open, 0% is fully closed
SW_REPORT_POSITION:	57	Report the position of blinds, drapes, or shades output only; ignored for input
SW_REPORT_FAN_LEVEL:	58	Report the fan speed in percent of full level output only; ignored for input
switch_state_t is used in: • SNVT_switch_2		

telcom_states_t

Index: 3

TEL_NUL:	-1	Invalid Value
TEL_NOTINUSE:	0	"Null State (U0)" not in use
TEL_OFFHOOK:	1	"Call Initiated (U1)"
TEL_DIALING:	2	"Overlap Sending (U2)"
TEL_DIALCOMP:	3	"Outgoing Call Proceeding (U3)"
TEL_RINGBACK:	4	"Call Delivered (U4)" hearing ringback
TEL_INCOMING:	5	"Call Present (U6)" incoming call has not yet started ringing (only on ISDN line)
TEL_RINGING:	6	"Call Received (U7)" incoming call when the user has indicated alerting but has not yet answered
TEL_ANSWERED:	7	"Connect Request (U8)" user has answered the call and is waiting to be awarded the call
TEL_CONNECTED:	8	
TEL_TALKING:	9	"Active (U10)" two parties are exchanging data
TEL_HANGINGUP:	10	"Disconnect Request (U11)" user has hung up
TEL_HUNGUPX:	11	"Disconnect Indication (U12)" the other side hung up
TEL_HOLD:	12	"Suspend Request (U15)" user has requested the network suspend the call
TEL_UNHOLD:	13	"Resume Request (U17)" resume a held call (usually go back to TEL_TALKING)
TEL_RELEASE:	14	"Release Request (U19)" user has requested the network to release
TEL_FULLDUP:	15	"Overlap Receiving (U25)" user has acknowledged the call and is prepared to receive additional
TEL_BLOCKED:	16	connection with blocking, (call-waiting disabled)
TEL_CWAIT:	17	call-waiting coming in
TEL_DESTBUSY:	18	destination busy
TEL_NETBUSY:	19	problem, network
TEL_ERROR:	20	problem, non-network
telcom_states_t is used in: • SNVT_telcom		

therm_mode_t

Index: 21

THERM_NUL:	-1	Invalid Value
THERM_NO_CONTROL:	0	Thermostat disabled
THERM_IN_OUT:	1	Cut in/out control
THERM_MODULATING:	2	Modulating control

therm_mode_t is used in: • SNVT_therm_mode

tilt_dir_t

Index: 34

TILT_NUL:	-1	Invalid Value
TILT_STOP:	0	Stop tilting
TILT_UP:	1	Tilt up
TILT_DOWN:	2	Tilt down
tilt_dir_t is used in: • SNVT_ptz		

time_source_t

Index: 86

TMS_NUL:	-1	Invalid value
TMS_SCHEDULER_NV:	0	Time source is scheduler NV input
TMS_NODE_OBJECT_NV:	1	Time source is Node Object NV input
TMS_SE2_TIME_CLIENT_NV:	2	Time source is Smart Energy 2.0 Time Client NV input
TMS_HARDWARE:	3	Time source is local hardware real time clock
TMS_ALTERNATE:	4	Alternate time source such as an SNTP server
time_source_t is used in: • SCPTtimeSource		

timestamp_t

Index: 75

TS_NUL:	-1	Invalid value
TS_FULL:	0	Full timestamp
TS_OFFSET:	1	Offset since last full timestamp
TS_NONE:	2	No timestamp

unit_temp_t

Index: 43

TEMP_NUL:	-1	The status of the apparatus or unit is unknown, or not applicable (Invalid Value).
TEMP_INACTIVE:	0	The temperature-sensing apparatus is present, but not currently operating.
TEMP_AT_DESIRED:	1	The unit temperature is within the desired range.
TEMP_TOO_HOT:	2	The unit temperature is above the upper limit of the desired range.
TEMP_TOO_COLD:	3	The unit temperature is below the lower limit of the desired range.
unit_temp_t is used in: • SNVT_pump_sensor		

valve_mode_t

Index: 45

VALVE_NUL:	-1	Invalid value
VALVE_NORMAL:	0	Valve works as normal valve
VALVE_COOLING:	1	Valve works as cooling valve only
VALVE_HEATING:	2	Valve works as heating valve only
VALVE_EMERGENCY:	3	Valve works in emergency operation
VALVE_STROKE_ADP:	4	Valve adapt its stroke and its end positions
VALVE_STROKE_SYN:	5	Valve resynchronizes its position
VALVE_ERROR:	6	Valve is in error mode
VALVE_OVERRIDDEN:	7	Value is overridden
valve_mode_t is used in: • SNVT_valve_mode		

zoom_t

Index: 35

ZOOM_NUL:	-1	Invalid Value
ZOOM_STOP:	0	Stop zooming
ZOOM_TELE:	1	Telephoto zoom / zoom in
ZOOM_WIDE:	2	Wide zoom / zoom out
zoom_t is used in: • SNVT_ptz		