

WIFI Reference Manual

C API Reference

© NXP Semiconductors, 2008-2020

Generated by Doxygen 1.8.18

11	Main Page	1
	1.1 Introduction	1
	1.1.1 Developer Documentation	1
٠.	Data Otrosatoro Indon	•
21	Data Structure Index	3
	2.1 Data Structures	3
3 I	File Index	7
	3.1 File List	7
		•
4 1	Data Structure Documentation 4.1 _Cipher_t Struct Reference	9
	4.1 _ Cipner_t Struct Reference	9
		9
	4.1.1.1 none	9
	4.1.1.2 wep40	10
	4.1.1.3 wep104	10
	4.1.1.4 tkip	10
	4.1.1.5 ccmp	10
	4.1.1.6 aes_128_cmac	10
	4.1.1.7 gcmp	10
	4.1.1.8 sms4	10
	4.1.1.9 gcmp_256	10
	4.1.1.10 ccmp_256	11
	4.1.1.11 rsvd	11
	4.1.1.12 bip_gmac_128	11
	4.1.1.13 bip_gmac_256	11
	4.1.1.14 bip_cmac_256	11
	4.1.1.15 gtk_not_used	11
	4.1.1.16 rsvd2	11
	4.2 _SecurityMode_t Struct Reference	12
	4.2.1 Field Documentation	12
	4.2.1.1 noRsn	12
	4.2.1.2 wepStatic	12
	4.2.1.3 wepDynamic	12
	4.2.1.4 wpa	13
	4.2.1.5 wpaNone	13
	4.2.1.6 wpa2	13
	4.2.1.7 wpa2_sha256	13
	4.2.1.8 owe	13
	4.2.1.9 wpa3_sae	13
	4.2.1.10 wpa2_entp	13
	4.2.1.11 wpa2_entp_sha256	13
	4.2.1.12 ft_1x	14
	T-E-1-1E-1C-1A	14



4.2.1.13 ft_1x_sha384	
4.2.1.14 ft_psk	
4.2.1.15 ft_sae	
4.2.1.16 wpa3_1x_sha256	14
4.2.1.17 wpa3_1x_sha384	14
4.2.1.18 rsvd	14
4.3 BandConfig_t Struct Reference	15
4.3.1 Field Documentation	15
4.3.1.1 chanBand	15
4.3.1.2 chanWidth	15
4.3.1.3 chan2Offset	15
4.3.1.4 scanMode	15
4.4 ChanBandInfo_t Struct Reference	15
4.4.1 Field Documentation	16
4.4.1.1 bandConfig	16
4.4.1.2 chanNum	16
4.5 cli_command Struct Reference	16
4.5.1 Detailed Description	16
4.5.2 Field Documentation	16
4.5.2.1 name	16
4.5.2.2 help	16
4.5.2.3 function	17
4.6 csi_local_buff_statu Struct Reference	17
4.6.1 Member Function Documentation	17
4.6.1.1 OSA_SEMAPHORE_HANDLE_DEFINE()	17
4.6.2 Field Documentation	17
4.6.2.1 write_index	17
4.6.2.2 read_index	18
4.6.2.3 valid_data_cnt	18
4.7 Event_Radar_Detected_Info Struct Reference	18
4.7.1 Field Documentation	18
4.7.1.1 detect_count	18
4.7.1.2 reg_domain	18
4.7.1.3 main_det_type	19
4.7.1.4 pw_chirp_type	19
4.7.1.5 pw_chirp_idx	19
4.7.1.6 pw_value	19
4.7.1.7 pri_radar_type	19
4.7.1.8 pri_binCnt	19
4.7.1.9 binCounter	19
4.7.1.10 numDfsRecords	19
4.7.1.11 dfsRecordHdrs	



4.7.1.12 reallyPassed	20
4.8 ipv4_config Struct Reference	20
4.8.1 Detailed Description	20
4.8.2 Field Documentation	20
4.8.2.1 addr_type	20
4.8.2.2 address	20
4.8.2.3 gw	21
4.8.2.4 netmask	21
4.8.2.5 dns1	21
4.8.2.6 dns2	21
4.9 ipv6_config Struct Reference	21
4.9.1 Detailed Description	. 21
4.9.2 Field Documentation	21
4.9.2.1 address	22
4.9.2.2 addr_type	22
4.9.2.3 addr_state	22
4.10 net_ip_config Struct Reference	22
4.10.1 Detailed Description	22
4.10.2 Field Documentation	. 22
4.10.2.1 ipv6	. 22
4.10.2.2 ipv6_count	23
4.10.2.3 ipv4	23
4.11 net_ipv4_config Struct Reference	23
4.11.1 Detailed Description	23
4.11.2 Field Documentation	23
4.11.2.1 addr_type	23
4.11.2.2 address	. 24
4.11.2.3 gw	. 24
4.11.2.4 netmask	. 24
4.11.2.5 dns1	24
4.11.2.6 dns2	24
4.12 net_ipv6_config Struct Reference	24
4.12.1 Detailed Description	24
4.12.2 Field Documentation	25
4.12.2.1 address	25
4.12.2.2 addr_type	25
4.12.2.3 addr_state	25
4.13 osa_rw_lock_t Struct Reference	25
4.13.1 Member Function Documentation	25
4.13.1.1 OSA_MUTEX_HANDLE_DEFINE() [1/2]	26
4.13.1.2 OSA_MUTEX_HANDLE_DEFINE() [2/2]	. 26
4.13.1.3 OSA_SEMAPHORE_HANDLE_DEFINE()	26



4.13.2 Field Documentation	26
4.13.2.1 reader_cb	26
4.13.2.2 reader_count	26
4.14 test_cfg_param_t Struct Reference	26
4.14.1 Field Documentation	27
4.14.1.1 name	27
4.14.1.2 offset	27
4.14.1.3 len	27
4.14.1.4 notes	27
4.15 test_cfg_table_t Struct Reference	27
4.15.1 Field Documentation	27
4.15.1.1 name	28
4.15.1.2 data	28
4.15.1.3 len	28
4.15.1.4 param_list	
4.15.1.5 param_num	
4.16 tx_ampdu_prot_mode_para Struct Reference	
4.16.1 Detailed Description	
4.16.2 Field Documentation	29
4.16.2.1 mode	
4.17 txrate_setting Struct Reference	29
4.17.1 Detailed Description	
4.17.2 Field Documentation	29
4.17.2.1 preamble	29
4.17.2.2 bandwidth	29
4.17.2.3 shortGl	30
4.17.2.4 stbc	30
4.17.2.5 dcm	30
4.17.2.6 adv_coding	30
4.17.2.7 doppler	30
4.17.2.8 max_pktext	30
4.17.2.9 reserverd	30
4.18 wifi_11ax_config_t Struct Reference	31
4.18.1 Detailed Description	31
4.18.2 Field Documentation	31
4.18.2.1 band	31
4.18.2.2 id	31
4.18.2.3 len	31
4.18.2.4 ext_id	
4.18.2.5 he_mac_cap	32
4.18.2.6 he_phy_cap	32
4.18.2.7 he txrx mcs support	32



4.18.2.8 val	. 32
4.19 wifi_antcfg_t Struct Reference	. 32
4.19.1 Detailed Description	. 32
4.19.2 Field Documentation	. 32
4.19.2.1 ant_mode	. 33
4.19.2.2 evaluate_time	. 33
4.19.2.3 current_antenna	. 33
4.20 wifi_auto_reconnect_config_t Struct Reference	. 33
4.20.1 Detailed Description	. 33
4.20.2 Field Documentation	. 33
4.20.2.1 reconnect_counter	. 33
4.20.2.2 reconnect_interval	. 34
4.20.2.3 flags	. 34
4.21 wifi_bandcfg_t Struct Reference	. 34
4.21.1 Detailed Description	. 34
4.21.2 Field Documentation	. 34
4.21.2.1 config_bands	. 34
4.21.2.2 fw_bands	. 34
4.22 wifi_btwt_config_t Struct Reference	. 35
4.22.1 Detailed Description	. 35
4.22.2 Field Documentation	. 35
4.22.2.1 action	. 35
4.22.2.2 sub_id	. 35
4.22.2.3 nominal_wake	. 35
4.22.2.4 max_sta_support	. 35
4.22.2.5 twt_mantissa	. 36
4.22.2.6 twt_offset	. 36
4.22.2.7 twt_exponent	. 36
4.22.2.8 sp_gap	. 36
4.23 wifi_cal_data_t Struct Reference	. 36
4.23.1 Detailed Description	. 36
4.23.2 Field Documentation	. 36
4.23.2.1 data_len	. 37
4.23.2.2 data	. 37
4.24 wifi_chan_info_t Struct Reference	. 37
4.24.1 Detailed Description	. 37
4.24.2 Field Documentation	. 37
4.24.2.1 chan_num	. 37
4.24.2.2 chan_freq	. 37
4.24.2.3 passive_scan_or_radar_detect	. 38
4.25 wifi_chan_list_param_set_t Struct Reference	. 38
4.25.1 Detailed Description	. 38



4.25.2 Field Documentation	. 38
4.25.2.1 no_of_channels	. 38
4.25.2.2 chan_scan_param	. 38
4.26 wifi_chan_scan_param_set_t Struct Reference	. 39
4.26.1 Detailed Description	. 39
4.26.2 Field Documentation	. 39
4.26.2.1 chan_number	. 39
4.26.2.2 min_scan_time	. 39
4.26.2.3 max_scan_time	. 39
4.27 wifi_chanlist_t Struct Reference	. 39
4.27.1 Detailed Description	. 40
4.27.2 Field Documentation	. 40
4.27.2.1 num_chans	. 40
4.27.2.2 chan_info	. 40
4.28 wifi_channel_desc_t Struct Reference	. 40
4.28.1 Detailed Description	. 40
4.28.2 Field Documentation	. 41
4.28.2.1 start_freq	. 41
4.28.2.2 chan_width	. 41
4.28.2.3 chan_num	. 41
4.29 wifi_clock_sync_gpio_tsf_t Struct Reference	. 41
4.29.1 Detailed Description	. 41
4.29.2 Field Documentation	. 41
4.29.2.1 clock_sync_mode	. 42
4.29.2.2 clock_sync_Role	. 42
4.29.2.3 clock_sync_gpio_pin_number	. 42
4.29.2.4 clock_sync_gpio_level_toggle	. 42
4.29.2.5 clock_sync_gpio_pulse_width	. 42
4.30 wifi_cloud_keep_alive_t Struct Reference	. 42
4.30.1 Detailed Description	. 43
4.30.2 Field Documentation	. 43
4.30.2.1 mkeep_alive_id	. 43
4.30.2.2 enable	. 43
4.30.2.3 reset	. 43
4.30.2.4 cached	. 43
4.30.2.5 send_interval	. 43
4.30.2.6 retry_interval	. 43
4.30.2.7 retry_count	. 44
4.30.2.8 src_mac	. 44
4.30.2.9 dst_mac	. 44
4.30.2.10 src_ip	. 44
4.30.2.11 dst_ip	. 44



4.30.2.12 src_port	. 44
4.30.2.13 dst_port	
4.30.2.14 pkt_len	
4.30.2.15 packet	
4.31 wifi_csi_config_params_t Struct Reference	
4.31.1 Detailed Description	
4.31.2 Field Documentation	
4.31.2.1 bss_type	
4.31.2.2 csi_enable	
4.31.2.3 head_id	
4.31.2.4 tail id	
4.31.2.5 csi_filter_cnt	
4.31.2.6 chip_id	
4.31.2.7 band_config	
4.31.2.8 channel	
4.31.2.9 csi_monitor_enable	
4.31.2.10 ra4us	
4.31.2.11 csi_filter	
4.32 wifi_csi_filter_t Struct Reference	
4.32.1 Detailed Description	
4.32.2 Field Documentation	
4.32.2.1 mac_addr	
4.32.2.2 pkt_type	
4.32.2.3 subtype	
4.32.2.4 flags	
4.33 wifi_cw_mode_ctrl_t Struct Reference	
4.33.1 Detailed Description	
4.33.2 Field Documentation	
4.33.2.1 mode	
4.33.2.2 channel	
4.33.2.3 chanInfo	
4.33.2.4 txPower	
4.33.2.5 pktLength	
4.33.2.6 rateInfo	
4.34 wifi_data_rate_t Struct Reference	
4.34.1 Detailed Description	
4.34.2 Field Documentation	
4.34.2.1 tx_data_rate	
4.34.2.2 rx_data_rate	
4.34.2.3 tx_bw	
4.34.2.4 tx gi	
4.34.2.5 rx_bw	



4.34.2.6 rx_gi	50
4.35 wifi_ds_rate Struct Reference	50
4.35.1 Detailed Description	51
4.35.2 Field Documentation	51
4.35.2.1 sub_command	51
4.35.2.2 rate_cfg	51
4.35.2.3 data_rate	51
4.35.2.4 param	51
4.36 wifi_ecsa_info Struct Reference	51
4.36.1 Field Documentation	52
4.36.1.1 bss_type	52
4.36.1.2 band_config	52
4.36.1.3 channel	52
4.37 wifi_ed_mac_ctrl_t Struct Reference	52
4.37.1 Detailed Description	52
4.37.2 Field Documentation	52
4.37.2.1 ed_ctrl_2g	53
4.37.2.2 ed_offset_2g	53
4.37.2.3 ed_ctrl_5g	53
4.37.2.4 ed_offset_5g	53
4.38 wifi_ext_coex_config_t Struct Reference	53
4.38.1 Detailed Description	53
4.38.2 Field Documentation	54
4.38.2.1 Enabled	54
4.38.2.2 IgnorePriority	54
4.38.2.3 DefaultPriority	54
4.38.2.4 EXT_RADIO_REQ_ip_gpio_num	54
4.38.2.5 EXT_RADIO_REQ_ip_gpio_polarity	54
4.38.2.6 EXT_RADIO_PRI_ip_gpio_num	54
4.38.2.7 EXT_RADIO_PRI_ip_gpio_polarity	54
4.38.2.8 WLAN_GRANT_op_gpio_num	55
4.38.2.9 WLAN_GRANT_op_gpio_polarity	55
4.38.2.10 reserved_1	55
4.38.2.11 reserved_2	55
4.39 wifi_ext_coex_stats_t Struct Reference	55
4.39.1 Detailed Description	55
4.39.2 Field Documentation	55
4.39.2.1 ext_radio_req_count	56
4.39.2.2 ext_radio_pri_count	56
4.39.2.3 wlan_grant_count	56
4.40 wifi_flt_cfg_t Struct Reference	56
4.40.1 Detailed Description	56



4.40.2 Field Documentation	56
4.40.2.1 criteria	56
4.40.2.2 nentries	57
4.40.2.3 mef_entry	57
4.41 wifi_frame_t Struct Reference	57
4.41.1 Field Documentation	57
4.41.1.1 frame_type	57
4.42 wifi_fw_version_ext_t Struct Reference	57
4.42.1 Detailed Description	57
4.42.2 Field Documentation	58
4.42.2.1 version_str_sel	58
4.42.2.2 version_str	58
4.43 wifi_fw_version_t Struct Reference	58
4.43.1 Detailed Description	58
4.43.2 Field Documentation	58
4.43.2.1 version_str	58
4.44 wifi_indrst_cfg_t Struct Reference	59
4.44.1 Detailed Description	59
4.44.2 Field Documentation	59
4.44.2.1 ir_mode	59
4.44.2.2 gpio_pin	59
4.45 wifi_mac_addr_t Struct Reference	59
4.45.1 Detailed Description	59
4.45.2 Field Documentation	60
4.45.2.1 mac	60
4.46 wifi_mef_entry_t Struct Reference	60
4.46.1 Detailed Description	60
4.46.2 Field Documentation	60
4.46.2.1 mode	60
4.46.2.2 action	60
4.46.2.3 filter_num	61
4.46.2.4 filter_item	61
4.46.2.5 rpn	61
4.47 wifi_mef_filter_t Struct Reference	61
4.47.1 Detailed Description	61
4.47.2 Field Documentation	61
4.47.2.1 fill_flag	62
4.47.2.2 type	62
4.47.2.3 pattern	62
4.47.2.4 offset	62
4.47.2.5 num_bytes	62
4.47.2.6 repeat	62



4.47.2.7 num_byte_seq	. 62
4.47.2.8 byte_seq	. 62
4.47.2.9 num_mask_seq	. 63
4.47.2.10 mask_seq	. 63
4.48 wifi_message Struct Reference	. 63
4.48.1 Field Documentation	. 63
4.48.1.1 event	. 63
4.48.1.2 reason	. 63
4.48.1.3 data	. 63
4.49 wifi_mfg_cmd_generic_cfg_t Struct Reference	. 64
4.49.1 Detailed Description	. 64
4.49.2 Field Documentation	. 64
4.49.2.1 mfg_cmd	. 64
4.49.2.2 action	. 64
4.49.2.3 device_id	. 64
4.49.2.4 error	. 64
4.49.2.5 data1	. 65
4.49.2.6 data2	. 65
4.49.2.7 data3	. 65
4.50 wifi_mfg_cmd_he_tb_tx_t Struct Reference	. 65
4.50.1 Field Documentation	. 65
4.50.1.1 mfg_cmd	
4.50.1.2 action	. 66
4.50.1.3 device_id	. 66
4.50.1.4 error	. 66
4.50.1.5 enable	. 66
4.50.1.6 qnum	. 66
4.50.1.7 aid	. 66
4.50.1.8 axq_mu_timer	. 66
4.50.1.9 tx_power	. 67
4.51 wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t Struct Reference	. 67
4.51.1 Field Documentation	. 67
4.51.1.1 mfg_cmd	. 67
4.51.1.2 action	. 67
4.51.1.3 device_id	. 68
4.51.1.4 error	. 68
4.51.1.5 enable_tx	. 68
4.51.1.6 standalone_hetb	. 68
4.51.1.7 frmCtl	. 68
4.51.1.8 duration	. 68
4.51.1.9 dest_addr	
4.51.1.10 src_addr	. 68



4.51.1.11 trig_common_field	69
4.51.1.12 trig_user_info_field	69
4.51.1.13 basic_trig_user_info	69
4.52 wifi_mfg_cmd_otp_cal_data_rd_wr_t Struct Reference	69
4.52.1 Field Documentation	69
4.52.1.1 mfg_cmd	69
4.52.1.2 action	70
4.52.1.3 device_id	70
4.52.1.4 error	70
4.52.1.5 cal_data_status	70
4.52.1.6 cal_data_len	70
4.52.1.7 cal_data	70
4.53 wifi_mfg_cmd_otp_mac_addr_rd_wr_t Struct Reference	70
4.53.1 Field Documentation	71
4.53.1.1 mfg_cmd	71
4.53.1.2 action	71
4.53.1.3 device_id	71
4.53.1.4 error	71
4.53.1.5 mac_addr	71
4.54 wifi_mfg_cmd_tx_cont_t Struct Reference	71
4.54.1 Detailed Description	72
4.54.2 Field Documentation	72
4.54.2.1 mfg_cmd	72
4.54.2.2 action	72
4.54.2.3 device_id	72
4.54.2.4 error	72
4.54.2.5 enable_tx	72
4.54.2.6 cw_mode	72
4.54.2.7 payload_pattern	73
4.54.2.8 cs_mode	73
4.54.2.9 act_sub_ch	73
4.54.2.10 tx_rate	73
4.54.2.11 rsvd	73
4.55 wifi_mfg_cmd_tx_frame_t Struct Reference	74
4.55.1 Detailed Description	74
4.55.2 Field Documentation	74
4.55.2.1 mfg_cmd	74
4.55.2.2 action	75
4.55.2.3 device_id	75
4.55.2.4 error	75
4.55.2.5 enable	75
4.55.2.6 data_rate	75



4.55.2.7 frame_pattern	. 75
4.55.2.8 frame_length	. 75
4.55.2.9 bssid	. 75
4.55.2.10 adjust_burst_sifs	. 76
4.55.2.11 burst_sifs_in_us	. 76
4.55.2.12 short_preamble	. 76
4.55.2.13 act_sub_ch	. 76
4.55.2.14 short_gi	. 76
4.55.2.15 adv_coding	. 76
4.55.2.16 tx_bf	. 76
4.55.2.17 gf_mode	. 76
4.55.2.18 stbc	. 77
4.55.2.19 rsvd	. 77
4.55.2.20 signal_bw	. 77
4.55.2.21 NumPkt	. 77
4.55.2.22 MaxPE	. 77
4.55.2.23 BeamChange	. 77
4.55.2.24 Dcm	. 77
4.55.2.25 Doppler	. 77
4.55.2.26 MidP	. 78
4.55.2.27 QNum	. 78
4.56 wifi_mgmt_frame_t Struct Reference	. 78
4.56.1 Detailed Description	. 78
4.56.2 Field Documentation	. 78
4.56.2.1 frm_len	. 78
4.56.2.2 frame_type	. 79
4.56.2.3 frame_ctrl_flags	. 79
4.56.2.4 duration_id	. 79
4.56.2.5 addr1	. 79
4.56.2.6 addr2	. 79
4.56.2.7 addr3	. 79
4.56.2.8 seq_ctl	. 79
4.56.2.9 addr4	. 79
4.56.2.10 payload	. 80
4.57 wifi_nat_keep_alive_t Struct Reference	. 80
4.57.1 Detailed Description	. 80
4.57.2 Field Documentation	. 80
4.57.2.1 interval	. 80
4.57.2.2 dst_mac	. 80
4.57.2.3 dst_ip	. 80
4.57.2.4 dst_port	. 81
4.58 wifi_os_mem_info Struct Reference	. 81



4.58.1 Field Documentation	. 81
4.58.1.1 name	. 81
4.58.1.2 size	. 81
4.58.1.3 line_num	. 81
4.58.1.4 alloc_cnt	. 81
4.58.1.5 free_cnt	. 82
4.59 wifi_pmf_params_t Struct Reference	. 82
4.59.1 Field Documentation	. 82
4.59.1.1 mfpc	. 82
4.59.1.2 mfpr	. 82
4.60 wifi_rate_cfg_t Struct Reference	. 82
4.60.1 Detailed Description	. 83
4.60.2 Field Documentation	. 83
4.60.2.1 rate_format	. 83
4.60.2.2 rate_index	. 83
4.60.2.3 rate	. 83
4.60.2.4 nss	. 83
4.60.2.5 rate_setting	. 83
4.61 wifi_remain_on_channel_t Struct Reference	. 84
4.61.1 Detailed Description	. 84
4.61.2 Field Documentation	. 84
4.61.2.1 remove	. 84
4.61.2.2 status	. 84
4.61.2.3 bandcfg	. 84
4.61.2.4 channel	. 84
4.61.2.5 remain_period	. 85
4.62 wifi_rf_channel_t Struct Reference	. 85
4.62.1 Detailed Description	. 85
4.62.2 Field Documentation	. 85
4.62.2.1 current_channel	. 85
4.62.2.2 rf_type	. 85
4.63 wifi_rssi_info_t Struct Reference	. 86
4.63.1 Detailed Description	. 86
4.63.2 Field Documentation	. 86
4.63.2.1 data_rssi_last	. 86
4.63.2.2 data_nf_last	. 86
4.63.2.3 data_rssi_avg	. 86
4.63.2.4 data_nf_avg	. 86
4.63.2.5 bcn_snr_last	
4.63.2.6 bcn_snr_avg	
4.63.2.7 data_snr_last	
4.63.2.8 data_snr_avg	



4.63.2.9 bcn_rssi_last	 87
4.63.2.10 bcn_nf_last	 87
4.63.2.11 bcn_rssi_avg	 87
4.63.2.12 bcn_nf_avg	 88
4.64 wifi_rupwrlimit_config_t Struct Reference	 88
4.64.1 Field Documentation	 88
4.64.1.1 start_freq	 88
4.64.1.2 width	 88
4.64.1.3 chan_num	 88
4.64.1.4 ruPower	 89
4.65 wifi_rutxpwrlimit_t Struct Reference	 89
4.65.1 Detailed Description	 89
4.65.2 Field Documentation	 89
4.65.2.1 num_chans	 89
4.65.2.2 rupwrlimit_config	 89
4.66 wifi_scan_chan_list_t Struct Reference	 90
4.66.1 Detailed Description	 90
4.66.2 Field Documentation	 90
4.66.2.1 num_of_chan	 90
4.66.2.2 chan_number	 90
4.67 wifi_scan_channel_list_t Struct Reference	 90
4.67.1 Detailed Description	 90
4.67.2 Field Documentation	 91
4.67.2.1 radio_type	 91
4.67.2.2 chan_number	 91
4.67.2.3 scan_type	 91
4.67.2.4 scan_time	 91
4.68 wifi_scan_params_t Struct Reference	 91
4.68.1 Field Documentation	 91
4.68.1.1 bssid	 92
4.68.1.2 ssid	 92
4.68.1.3 channel	 92
4.68.1.4 bss_type	 92
4.68.1.5 scan_duration	 92
4.68.1.6 split_scan_delay	 92
4.69 wifi_scan_params_v2_t Struct Reference	 92
4.69.1 Detailed Description	 93
4.69.2 Field Documentation	 93
4.69.2.1 scan_only	 93
4.69.2.2 is_bssid	 93
4.69.2.3 is_ssid	 93
4.69.2.4 bssid	 93



4.69.2.5 ssid	 . 93
4.69.2.6 num_channels	 . 93
4.69.2.7 chan_list	 . 94
4.69.2.8 num_probes	 . 94
4.69.2.9 scan_chan_gap	 . 94
4.69.2.10 cb	 . 94
4.70 wifi_scan_result2 Struct Reference	 . 94
4.70.1 Detailed Description	 . 95
4.70.2 Field Documentation	 . 95
4.70.2.1 bssid	
4.70.2.2 is_ibss_bit_set	 . 95
4.70.2.3 ssid	 . 95
4.70.2.4 ssid_len	 . 96
4.70.2.5 Channel	 . 96
4.70.2.6 RSSI	
4.70.2.7 beacon_period	 . 96
4.70.2.8 dtim_period	 . 96
4.70.2.9 WPA_WPA2_WEP	 . 96
4.70.2.10 wpa_mcstCipher	 . 96
4.70.2.11 wpa_ucstCipher	 . 96
4.70.2.12 rsn_mcstCipher	 . 97
4.70.2.13 rsn_ucstCipher	 . 97
4.70.2.14 is_pmf_required	 . 97
4.70.2.15 ap_mfpc	 . 97
4.70.2.16 ap_mfpr	 . 97
4.70.2.17 ap_pwe	 . 97
4.70.2.18 phtcap_ie_present	 . 97
4.70.2.19 phtinfo_ie_present	 . 98
4.70.2.20 pvhtcap_ie_present	 . 98
4.70.2.21 phecap_ie_present	 . 98
4.70.2.22 wmm_ie_present	 . 98
4.70.2.23 band	 . 98
4.70.2.24 wps_IE_exist	 . 98
4.70.2.25 wps_session	 . 98
4.70.2.26 wpa2_entp_IE_exist	 . 98
4.70.2.27 trans_mode	 . 99
4.70.2.28 trans_bssid	 . 99
4.70.2.29 trans_ssid	 . 99
4.70.2.30 trans_ssid_len	 . 99
4.70.2.31 mbo_assoc_disallowed	 . 99
4.70.2.32 mdid	 . 99
4.70.2.33 neighbor report supported	 . 99



4.70.2.34 bss_transition_supported
4.71 wifi_sta_info_t Struct Reference
4.71.1 Detailed Description
4.71.2 Field Documentation
4.71.2.1 mac
4.71.2.2 power_mgmt_status
4.71.2.3 rssi
4.72 wifi_sta_list_t Struct Reference
4.72.1 Detailed Description
4.72.2 Field Documentation
4.72.2.1 count
4.73 wifi_sub_band_set_t Struct Reference
4.73.1 Detailed Description
4.73.2 Field Documentation
4.73.2.1 first_chan
4.73.2.2 no_of_chan
4.73.2.3 max_tx_pwr
4.74 wifi_tbtt_offset_t Struct Reference
4.74.1 Detailed Description
4.74.2 Field Documentation
4.74.2.1 min_tbtt_offset
4.74.2.2 max_tbtt_offset
4.74.2.3 avg_tbtt_offset
4.75 wifi_tcp_keep_alive_t Struct Reference
4.75.1 Detailed Description
4.75.2 Field Documentation
4.75.2.1 enable
4.75.2.2 reset
4.75.2.3 timeout
4.75.2.4 interval
4.75.2.5 max_keep_alives
4.75.2.6 dst_mac
4.75.2.7 dst_ip
4.75.2.8 dst_tcp_port
4.75.2.9 src_tcp_port
4.75.2.10 seq_no
4.76 wifi_tsf_info_t Struct Reference
4.76.1 Detailed Description
4.76.2 Field Documentation
4.76.2.1 tsf_format
4.76.2.2 tsf_info
4.76.2.3 tsf



4.76.2.4 tsf_offset
4.77 wifi_twt_information_t Struct Reference
4.77.1 Field Documentation
4.77.1.1 flow_identifier
4.77.1.2 suspend_duration
4.77.1.3 information_state
4.78 wifi_twt_report_t Struct Reference
4.78.1 Detailed Description
4.78.2 Field Documentation
4.78.2.1 type
4.78.2.2 length
4.78.2.3 reserve
4.78.2.4 data
4.79 wifi_twt_setup_config_t Struct Reference
4.79.1 Detailed Description
4.79.2 Field Documentation
4.79.2.1 implicit
4.79.2.2 announced
4.79.2.3 trigger_enabled
4.79.2.4 twt_info_disabled
4.79.2.5 negotiation_type
4.79.2.6 twt_wakeup_duration
4.79.2.7 flow_identifier
4.79.2.8 hard_constraint
4.79.2.9 twt_exponent
4.79.2.10 twt_mantissa
4.79.2.11 twt_request
4.80 wifi_twt_teardown_config_t Struct Reference
4.80.1 Detailed Description
4.80.2 Field Documentation
4.80.2.1 flow_identifier
4.80.2.2 negotiation_type
4.80.2.3 teardown_all_twt
4.81 wifi_tx_power_t Struct Reference
4.81.1 Detailed Description
4.81.2 Field Documentation
4.81.2.1 current_level
4.81.2.2 max_power
4.81.2.3 min_power
4.82 wifi_txpwrlimit_config_t Struct Reference
4.82.1 Detailed Description
4 82 2 Field Documentation



4.82.2.1 num_mod_grps
4.82.2.2 chan_desc
4.82.2.3 txpwrlimit_entry
4.83 wifi_txpwrlimit_entry_t Struct Reference
4.83.1 Detailed Description
4.83.2 Field Documentation
4.83.2.1 mod_group
4.83.2.2 tx_power
4.84 wifi_txpwrlimit_t Struct Reference
4.84.1 Detailed Description
4.84.2 Field Documentation
4.84.2.1 subband
4.84.2.2 num_chans
4.84.2.3 txpwrlimit_config
4.85 wifi_uap_client_disassoc_t Struct Reference
4.85.1 Field Documentation
4.85.1.1 reason_code
4.85.1.2 sta_addr
4.86 wifi_wowlan_pattern_t Struct Reference
4.86.1 Field Documentation
4.86.1.1 pkt_offset
4.86.1.2 pattern_len
4.86.1.3 pattern
4.86.1.4 mask
4.87 wifi_wowlan_ptn_cfg_t Struct Reference
4.87.1 Detailed Description
4.87.2 Field Documentation
4.87.2.1 enable
4.87.2.2 n_patterns
4.87.2.3 patterns
4.88 wlan_cipher Struct Reference
4.88.1 Detailed Description
4.88.2 Field Documentation
4.88.2.1 none
4.88.2.2 wep40
4.88.2.3 wep104
4.88.2.4 tkip
4.88.2.5 ccmp
4.88.2.6 aes_128_cmac
4.88.2.7 gcmp
4.88.2.8 sms4
4.88.2.9 gcmp_256



4.88.2.10 ccmp_256	18
4.88.2.11 rsvd	18
4.88.2.12 bip_gmac_128	18
4.88.2.13 bip_gmac_256	18
4.88.2.14 bip_cmac_256	18
4.88.2.15 gtk_not_used	19
4.88.2.16 rsvd2	19
4.89 wlan_ieeeps_config Struct Reference	19
4.89.1 Field Documentation	19
4.89.1.1 ps_null_interval	19
4.89.1.2 multiple_dtim_interval	19
4.89.1.3 listen_interval	20
4.89.1.4 adhoc_awake_period	20
4.89.1.5 bcn_miss_timeout	20
4.89.1.6 delay_to_ps	20
4.89.1.7 ps_mode	20
4.90 wlan_ip_config Struct Reference	20
4.90.1 Detailed Description	20
4.90.2 Field Documentation	21
4.90.2.1 ipv6	21
4.90.2.2 ipv6_count	21
4.90.2.3 ipv4	21
4.91 wlan_message Struct Reference	21
4.91.1 Field Documentation	21
4.91.1.1 id	21
4.91.1.2 data	22
4.92 wlan_network Struct Reference	22
4.92.1 Detailed Description	23
4.92.2 Field Documentation	23
4.92.2.1 id	23
4.92.2.2 wps_network	23
4.92.2.3 name	23
4.92.2.4 ssid	23
4.92.2.5 bssid	24
4.92.2.6 channel	24
4.92.2.7 sec_channel_offset	24
4.92.2.8 acs_band	24
4.92.2.9 rssi	24
4.92.2.10 ht_capab	24
4.92.2.11 vht_capab	24
4.92.2.12 vht_oper_chwidth	25
4.92.2.13 he oper chwidth	25



4.92.2.14 type	 125
4.92.2.15 role	 125
4.92.2.16 security	 125
4.92.2.17 ip	 125
4.92.2.18 ssid_specific	 125
4.92.2.19 bssid_specific	 126
4.92.2.20 channel_specific	 126
4.92.2.21 security_specific	 126
4.92.2.22 dot11n	 126
4.92.2.23 dot11ac	
4.92.2.24 dot11ax	 126
4.92.2.25 mdid	
4.92.2.26 ft_1x	 127
4.92.2.27 ft_psk	 127
4.92.2.28 ft_sae	
4.92.2.29 beacon_period	 127
4.92.2.30 dtim_period	
4.92.2.31 wlan_capa	 127
4.92.2.32 btm_mode	 127
4.92.2.33 bss_transition_supported	 128
4.92.2.34 neighbor_report_supported	 128
4.93 wlan_network_security Struct Reference	 128
4.93.1 Detailed Description	 129
4.93.2 Field Documentation	 129
4.93.2.1 type	 129
4.93.2.2 key_mgmt	 130
4.93.2.3 mcstCipher	 130
4.93.2.4 ucstCipher	 130
4.93.2.5 pkc	 130
4.93.2.6 group_cipher	 130
4.93.2.7 pairwise_cipher	 130
4.93.2.8 group_mgmt_cipher	 130
4.93.2.9 is_pmf_required	 130
4.93.2.10 psk	 131
4.93.2.11 psk_len	 131
4.93.2.12 password	 131
4.93.2.13 password_len	 131
4.93.2.14 sae_groups	 131
4.93.2.15 pwe_derivation	 131
4.93.2.16 transition_disable	 131
4.93.2.17 pmk	 132
4.93.2.18 pmk_valid	 132



4.93.2.19 mfpc
4.93.2.20 mfpr
4.93.2.21 wpa3_sb
4.93.2.22 wpa3_sb_192
4.93.2.23 eap_ver
4.93.2.24 peap_label
4.93.2.25 eap_crypto_binding
4.93.2.26 eap_result_ind
4.93.2.27 tls_cipher
4.93.2.28 identity
4.93.2.29 anonymous_identity
4.93.2.30 eap_password
4.93.2.31 ca_cert_data
4.93.2.32 ca_cert_len
4.93.2.33 client_cert_data
4.93.2.34 client_cert_len
4.93.2.35 client_key_data
4.93.2.36 client_key_len
4.93.2.37 client_key_passwd
4.93.2.38 ca_cert_hash
4.93.2.39 domain_match
4.93.2.40 domain_suffix_match
4.93.2.41 ca_cert2_data
4.93.2.42 ca_cert2_len
4.93.2.43 client_cert2_data
4.93.2.44 client_cert2_len
4.93.2.45 client_key2_data
4.93.2.46 client_key2_len
4.93.2.47 client_key2_passwd
4.93.2.48 dh_data
4.93.2.49 dh_len
4.93.2.50 server_cert_data
4.93.2.51 server_cert_len
4.93.2.52 server_key_data
4.93.2.53 server_key_len
4.93.2.54 server_key_passwd
4.93.2.55 nusers
4.93.2.56 identities
4.93.2.57 passwords
4.93.2.58 pac_opaque_encr_key
4.93.2.59 a_id
4.93.2.60 fast_prov



4.93.2.61 dpp_connector	37
4.93.2.62 dpp_c_sign_key	38
4.93.2.63 dpp_net_access_key	38
4.94 wlan_nlist_report_param Struct Reference	38
4.94.1 Field Documentation	38
4.94.1.1 nlist_mode	38
4.94.1.2 num_channels	38
4.94.1.3 channels	39
4.94.1.4 btm_mode	39
4.94.1.5 bssid	39
4.94.1.6 dialog_token	39
4.94.1.7 dst_addr	39
4.94.1.8 protect	39
4.95 wlan_rrm_beacon_report_data Struct Reference	39
4.95.1 Field Documentation	40
4.95.1.1 token	40
4.95.1.2 ssid	40
4.95.1.3 ssid_length	40
4.95.1.4 bssid	40
4.95.1.5 channel	40
4.95.1.6 channel_num	40
4.95.1.7 last_ind	40
4.95.1.8 duration	41
4.95.1.9 report_detail	41
4.95.1.10 bits_field	41
4.96 wlan_rrm_neighbor_ap_t Struct Reference	41
4.96.1 Field Documentation	41
4.96.1.1 ssid	41
4.96.1.2 bssid	41
4.96.1.3 bssidInfo	42
4.96.1.4 op_class	42
4.96.1.5 channel	42
4.96.1.6 phy_type	42
4.96.1.7 freq	42
4.97 wlan_rrm_neighbor_report_t Struct Reference	42
4.97.1 Field Documentation	42
4.97.1.1 neighbor_ap	43
4.97.1.2 neighbor_cnt	43
4.98 wlan_rrm_scan_cb_param Struct Reference	43
4.98.1 Field Documentation	43
4.98.1.1 rep_data	43
4.98.1.2 dialog_tok	43



4.98.1.3 dst_addr	43
4.98.1.4 protect	14
4.99 wlan_scan_result Struct Reference	14
4.99.1 Detailed Description	
4.99.2 Field Documentation	1 5
4.99.2.1 ssid	45
4.99.2.2 ssid_len	1 5
4.99.2.3 bssid	45
4.99.2.4 channel	1 5
4.99.2.5 type	1 5
4.99.2.6 role	1 5
4.99.2.7 dot11n	1 6
4.99.2.8 dot11ac	1 6
4.99.2.9 dot11ax	1 6
4.99.2.10 wmm	1 6
4.99.2.11 wps	46
4.99.2.12 wps_session	1 6
4.99.2.13 wep	1 6
4.99.2.14 wpa	17
4.99.2.15 wpa2	17
4.99.2.16 wpa2_sha256	17
4.99.2.17 wpa3_sae	17
4.99.2.18 wpa2_entp	17
4.99.2.19 wpa2_entp_sha256	17
4.99.2.20 wpa3_1x_sha256	47
4.99.2.21 wpa3_1x_sha384	47
4.99.2.22 ft_1x	1 8
4.99.2.23 ft_1x_sha384	1 8
4.99.2.24 ft_psk	1 8
4.99.2.25 ft_sae	48
4.99.2.26 rssi	48
4.99.2.27 trans_ssid	1 8
4.99.2.28 trans_ssid_len	1 8
4.99.2.29 trans_bssid	49
4.99.2.30 beacon_period	49
4.99.2.31 dtim_period	49
4.99.2.32 ap_mfpc	49
4.99.2.33 ap_mfpr	1 9
4.99.2.34 ap_pwe	1 9
4.99.2.35 neighbor_report_supported	1 9
4.99.2.36 bss_transition_supported	50
4.100 wnm_sleep_result_t Struct Reference	50



4.100.1 Field Documentation	150
4.100.1.1 action	150
4.100.1.2 result	150
5 File Documentation	151
5.1 cli.h File Reference	
5.1.1 Detailed Description	
5.1.2 Usage	
5.1.3 Function Documentation	
5.1.3.1 lookup_command()	
5.1.3.2 cli_register_command()	
5.1.3.3 cli_unregister_command()	
5.1.3.4 cli_init()	
5.1.3.5 cli_deinit()	
5.1.3.6 cli_stop()	
5.1.3.7 cli_register_commands()	
5.1.3.8 cli_unregister_commands()	
5.1.3.9 cli_get_cmd_buffer()	
5.1.3.10 cli_submit_cmd_buffer()	
5.1.3.11 cli_add_history_hook()	
5.1.3.12 help_command()	
5.1.4 Macro Documentation	
5.1.4.1 CONFIG_APP_FRM_CLI_HISTORY	
5.1.5 Typedef Documentation	
5.1.5.1 cli name val get	
5.1.5.2 cli name val set	
5.2 dhcp-server.h File Reference	
5.2.1 Detailed Description	
5.2.2 Function Documentation	
5.2.2.1 dhcpd_cli_init()	
5.2.2.2 dhcpd_cli_deinit()	
5.2.2.3 dhcp_server_start()	
5.2.2.4 dhcp_enable_dns_server()	
5.2.2.5 dhcp_server_stop()	
5.2.2.6 dhcp_server_lease_timeout()	
5.2.2.7 dhcp_get_ip_from_mac()	
5.2.2.8 dhcp_stat()	
5.2.3 Macro Documentation	
5.2.3.1 MAX_QNAME_SIZE	
5.2.4 Enumeration Type Documentation	
5.2.4.1 wm_dhcpd_errno	
5.3 iperf.h File Reference	



5.3.1 Function Documentation
5.3.1.1 iperf_cli_init()
5.3.1.2 iperf_cli_deinit()
5.3.2 Macro Documentation
5.3.2.1 iperf_e
5.3.2.2 iperf_w
5.4 osa.h File Reference
5.4.1 Function Documentation
5.4.1.1 OSA_TimerCreate()
5.4.1.2 OSA_TimerActivate()
5.4.1.3 OSA_TimerChange()
5.4.1.4 OSA_TimerIsRunning()
5.4.1.5 OSA_TimerGetContext()
5.4.1.6 OSA_TimerReset()
5.4.1.7 OSA_TimerDeactivate()
5.4.1.8 OSA_TimerDestroy()
5.4.1.9 OSA_RWLockCreateWithCB()
5.4.1.10 OSA_RWLockCreate()
5.4.1.11 OSA_RWLockDestroy()
5.4.1.12 OSA_RWLockWriteLock()
5.4.1.13 OSA_RWLockWriteUnlock()
5.4.1.14 OSA_RWLockReadLock()
5.4.1.15 OSA_RWLockReadUnlock()
5.4.1.16 OSA_SetupIdleFunction()
5.4.1.17 OSA_SetupTickFunction()
5.4.1.18 OSA_RemoveIdleFunction()
5.4.1.19 OSA_RemoveTickFunction()
5.4.1.20 OSA_Srand()
5.4.1.21 OSA_Rand()
5.4.1.22 OSA_RandRange()
5.4.1.23 OSA_DumpThreadInfo()
5.4.1.24 OSA_ThreadSelfComplete()
5.4.1.25 OSA_MsgQWaiting()
5.4.2 Macro Documentation
5.4.2.1 MAX_CUSTOM_HOOKS
5.4.3 Typedef Documentation
5.4.3.1 cb_fn
5.4.4 Variable Documentation
5.4.4.1 g_osa_tick_hooks
5.4.4.2 g_osa_idle_hooks
5.4.4.3 wm_rand_seed
5.5 README tyt File Reference



5.6 wifi-decl.h File Reference	171
5.6.1 Macro Documentation	171
5.6.1.1 MLAN_MAC_ADDR_LENGTH	172
5.6.1.2 MLAN_MAX_VER_STR_LEN	172
5.6.1.3 WIFI_MAX_CHANNEL_NUM	172
5.6.1.4 PMK_BIN_LEN	172
5.6.1.5 PMK_HEX_LEN	172
5.6.1.6 MOD_GROUPS	172
5.6.1.7 WIFI_SUPPORT_11AX	172
5.6.1.8 WIFI_SUPPORT_11AC	
5.6.1.9 WIFI_SUPPORT_11N	173
5.6.1.10 WIFI_SUPPORT_LEGACY	
5.6.1.11 BSS_TYPE_STA	173
5.6.1.12 BSS_TYPE_UAP	173
5.6.1.13 UAP_DEFAULT_CHANNEL	
5.6.1.14 UAP_DEFAULT_BANDWIDTH	173
5.6.1.15 UAP_DEFAULT_BEACON_PERIOD	
5.6.1.16 UAP_DEFAULT_HIDDEN_SSID	173
5.6.1.17 MLAN_MAX_SSID_LENGTH	174
5.6.1.18 MLAN_MAX_PASS_LENGTH	174
5.6.1.19 BIT	174
5.6.1.20 WOWLAN_MAX_PATTERN_LEN	174
5.6.1.21 WOWLAN_MAX_OFFSET_LEN	174
5.6.1.22 MAX_NUM_FILTERS	174
5.6.1.23 MEF_MODE_HOST_SLEEP	174
5.6.1.24 MEF_MODE_NON_HOST_SLEEP	175
5.6.1.25 MEF_ACTION_WAKE	175
5.6.1.26 MEF_ACTION_ALLOW	175
5.6.1.27 MEF_ACTION_ALLOW_AND_WAKEUP_HOST	175
5.6.1.28 MEF_AUTO_ARP	175
5.6.1.29 MEF_AUTO_PING	175
5.6.1.30 MEF_NS_RESP	175
5.6.1.31 MEF_MAGIC_PKT	175
5.6.1.32 CRITERIA_BROADCAST	176
5.6.1.33 CRITERIA_UNICAST	176
5.6.1.34 CRITERIA_MULTICAST	176
5.6.1.35 MAX_NUM_ENTRIES	176
5.6.1.36 MAX_NUM_BYTE_SEQ	176
5.6.1.37 MAX_NUM_MASK_SEQ	176
5.6.1.38 OPERAND_DNUM	176
5.6.1.39 OPERAND_BYTE_SEQ	176
5.6.1.40 MAX_OPERAND	177



5.6.1.41 TYPE_BYTE_EQ	1//
5.6.1.42 TYPE_DNUM_EQ	177
5.6.1.43 TYPE_BIT_EQ	177
5.6.1.44 RPN_TYPE_AND	177
5.6.1.45 RPN_TYPE_OR	177
5.6.1.46 ICMP_OF_IP_PROTOCOL	177
5.6.1.47 TCP_OF_IP_PROTOCOL	177
5.6.1.48 UDP_OF_IP_PROTOCOL	178
5.6.1.49 IPV4_PKT_OFFSET	178
5.6.1.50 IP_PROTOCOL_OFFSET	
5.6.1.51 PORT_PROTOCOL_OFFSET	
5.6.1.52 FILLING_TYPE	
5.6.1.53 FILLING_PATTERN	
5.6.1.54 FILLING_OFFSET	
5.6.1.55 FILLING_NUM_BYTES	
5.6.1.56 FILLING_REPEAT	
5.6.1.57 FILLING_BYTE_SEQ	
5.6.1.58 FILLING_MASK_SEQ	179
5.6.1.59 MKEEP_ALIVE_IP_PKT_MAX	
5.6.1.60 WLAN_BTWT_REPORT_LEN	179
5.6.1.61 WLAN_BTWT_REPORT_MAX_NUM	179
5.6.1.62 BAND_SPECIFIED	179
5.6.1.63 MAX_CHANNEL_LIST	179
5.6.1.64 MAX_NUM_SSID	180
5.6.1.65 MAX_FUNC_SYMBOL_LEN	180
5.6.1.66 OS_MEM_STAT_TABLE_SIZE	
5.6.1.67 CSI_FILTER_MAX	180
5.6.2 Enumeration Type Documentation	180
5.6.2.1 wifi_bss_security	180
5.6.2.2 wifi_bss_features	180
5.6.2.3 wlan_type	181
5.6.2.4 wifi_ds_command_type	181
5.6.2.5 wifi_SubBand_t	181
5.6.2.6 wifi_frame_type_t	182
5.7 wifi.h File Reference	182
5.7.1 Function Documentation	182
5.7.1.1 wifi_init()	182
5.7.1.2 wifi_init_fcc()	183
5.7.1.3 wifi_deinit()	183
5.7.1.4 wifi_set_tx_status()	183
5.7.1.5 wifi_set_rx_status()	184
5.7.1.6 reset_ie_index()	184



5.7.1.7 wifi_register_data_input_callback()
5.7.1.8 wifi_deregister_data_input_callback()
5.7.1.9 wifi_register_amsdu_data_input_callback()
5.7.1.10 wifi_deregister_amsdu_data_input_callback()
5.7.1.11 wifi_register_deliver_packet_above_callback()
5.7.1.12 wifi_deregister_deliver_packet_above_callback()
5.7.1.13 wifi_register_wrapper_net_is_ip_or_ipv6_callback()
5.7.1.14 wifi_deregister_wrapper_net_is_ip_or_ipv6_callback()
5.7.1.15 wifi_add_to_bypassq()
5.7.1.16 wifi_low_level_output()
5.7.1.17 wifi_set_packet_retry_count()
5.7.1.18 wifi_sta_ampdu_tx_enable()
5.7.1.19 wifi_sta_ampdu_tx_disable()
5.7.1.20 wifi_sta_ampdu_tx_enable_per_tid()
5.7.1.21 wifi_sta_ampdu_tx_enable_per_tid_is_allowed()
5.7.1.22 wifi_sta_ampdu_rx_enable()
5.7.1.23 wifi_sta_ampdu_rx_enable_per_tid()
5.7.1.24 wifi_sta_ampdu_rx_enable_per_tid_is_allowed()
5.7.1.25 wifi_uap_ampdu_rx_enable()
5.7.1.26 wifi_uap_ampdu_rx_enable_per_tid()
5.7.1.27 wifi_uap_ampdu_rx_enable_per_tid_is_allowed()
5.7.1.28 wifi_uap_ampdu_rx_disable()
5.7.1.29 wifi_uap_ampdu_tx_enable()
5.7.1.30 wifi_uap_ampdu_tx_enable_per_tid()
5.7.1.31 wifi_uap_ampdu_tx_enable_per_tid_is_allowed()
5.7.1.32 wifi_uap_ampdu_tx_disable()
5.7.1.33 wifi_sta_ampdu_rx_disable()
5.7.1.34 wifi_get_device_mac_addr()
5.7.1.35 wifi_get_device_uap_mac_addr()
5.7.1.36 wifi_get_device_firmware_version_ext()
5.7.1.37 wifi_get_last_cmd_sent_ms()
5.7.1.38 wifi_get_value1()
5.7.1.39 wifi_get_outbuf()
5.7.1.40 wifi_config_roaming()
5.7.1.41 wifi_config_bgscan_and_rssi()
5.7.1.42 wifi_stop_bgscan()
5.7.1.43 wifi_update_last_cmd_sent_ms()
5.7.1.44 wifi_register_event_queue()
5.7.1.45 wifi_unregister_event_queue()
5.7.1.46 wifi_get_scan_result()
5.7.1.47 wifi_get_scan_result_count()
5.7.1.48 wifi uap bss sta list()



5.7.1.49 wifi_sta_deauth()
5.7.1.50 wifi_enable_low_pwr_mode()
5.7.1.51 wifi_set_cal_data()
5.7.1.52 wifi_set_mac_addr()
5.7.1.53 _wifi_set_mac_addr()
5.7.1.54 wifi_get_wpa_ie_in_assoc()
5.7.1.55 wifi_add_mcast_filter()
5.7.1.56 wifi_remove_mcast_filter()
5.7.1.57 wifi_get_ipv4_multicast_mac()
5.7.1.58 wifi_get_ipv6_multicast_mac()
5.7.1.59 wifi_set_antenna()
5.7.1.60 wifi_get_antenna()
5.7.1.61 wifi_process_hs_cfg_resp()
5.7.1.62 wifi_process_ps_enh_response()
5.7.1.63 wifi_uap_rates_getset()
5.7.1.64 wifi_uap_sta_ageout_timer_getset()
5.7.1.65 wifi_uap_ps_sta_ageout_timer_getset()
5.7.1.66 wifi_mem_access()
5.7.1.67 wifi_scan_process_results()
5.7.1.68 wifi_get_region_code()
5.7.1.69 wifi_set_region_code()
5.7.1.70 wifi_set_country_code()
5.7.1.71 wifi_get_country_code()
5.7.1.72 wifi_set_country_ie_ignore()
5.7.1.73 wifi_get_uap_channel()
5.7.1.74 wifi_uap_pmf_getset()
5.7.1.75 wifi_uap_enable_11d_support()
5.7.1.76 wifi_11d_is_channel_allowed()
5.7.1.77 get_sub_band_from_region_code()
5.7.1.78 get_sub_band_from_region_code_5ghz()
5.7.1.79 wifi_enable_11d_support()
5.7.1.80 wifi_enable_uap_11d_support()
5.7.1.81 wifi_disable_11d_support()
5.7.1.82 wifi_disable_uap_11d_support()
5.7.1.83 wifi_set_region_power_cfg()
5.7.1.84 wifi_set_txbfcap()
5.7.1.85 wifi_set_htcapinfo()
5.7.1.86 wifi_set_httxcfg()
5.7.1.87 wifi_uap_set_httxcfg()
5.7.1.88 wifi_uap_set_httxcfg_int()
5.7.1.89 wifi_get_tx_power()
5.7.1.90 wifi_set_tx_power()



5.7.1.91 wrapper_wlan_cmd_get_hw_spec()
5.7.1.92 set_event_chanswann()
5.7.1.93 clear_event_chanswann()
5.7.1.94 wifi_set_ps_cfg()
5.7.1.95 wifi_send_hs_cfg_cmd()
5.7.1.96 wrapper_wlan_11d_support_is_enabled()
5.7.1.97 wrapper_wlan_11d_clear_parsedtable()
5.7.1.98 wrapper_clear_media_connected_event()
5.7.1.99 wifi_uap_ps_inactivity_sleep_exit()
5.7.1.100 wifi_uap_ps_inactivity_sleep_enter()
5.7.1.101 wifi_enter_ieee_power_save()
5.7.1.102 wifi_exit_ieee_power_save()
5.7.1.103 wifi_enter_wnm_power_save()
5.7.1.104 wifi_exit_wnm_power_save()
5.7.1.105 wifi_enter_deepsleep_power_save()
5.7.1.106 wifi_exit_deepsleep_power_save()
5.7.1.107 wifi_set_power_save_mode()
5.7.1.108 wifi_get_wakeup_reason()
5.7.1.109 send_sleep_confirm_command()
5.7.1.110 wifi_configure_listen_interval()
5.7.1.111 wifi_configure_delay_to_ps()
5.7.1.112 wifi_get_listen_interval()
5.7.1.113 wifi_get_delay_to_ps()
5.7.1.114 wifi_configure_null_pkt_interval()
5.7.1.115 wrapper_wifi_assoc()
5.7.1.116 wifi_uap_enable_sticky_bit()
5.7.1.117 wifi_get_xfer_pending()
5.7.1.118 wifi_set_xfer_pending()
5.7.1.119 wrapper_wlan_cmd_11n_ba_stream_timeout()
5.7.1.120 wifi_set_txratecfg()
5.7.1.121 wifi_get_txratecfg()
5.7.1.122 wifi_wake_up_card()
5.7.1.123 wifi_tx_card_awake_lock()
5.7.1.124 wifi_tx_card_awake_unlock()
5.7.1.125 wrapper_wlan_11d_enable()
5.7.1.126 wrapper_wlan_uap_11d_enable()
5.7.1.127 wifi_11h_enable()
5.7.1.128 wrapper_wlan_cmd_11n_addba_rspgen()
5.7.1.129 wrapper_wlan_cmd_11n_delba_rspgen()
5.7.1.130 wrapper_wlan_ecsa_enable()
5.7.1.131 wifi_uap_start()
5.7.1.132 wrapper wlan sta ampdu enable()



5.7.1.133 wrapper_wlan_uap_ampdu_enable()
5.7.1.134 wifi_set_packet_filters()
5.7.1.135 wifi_uap_stop()
5.7.1.136 wifi_uap_do_acs()
5.7.1.137 wifi_uap_config_wifi_capa()
5.7.1.138 wifi_get_fw_info()
5.7.1.139 wifi_get_data_rate()
5.7.1.140 wifi_uap_set_bandwidth()
5.7.1.141 wifi_uap_get_bandwidth()
5.7.1.142 wifi_uap_get_pmfcfg()
5.7.1.143 wifi_set_rts()
5.7.1.144 wifi_set_frag()
5.7.1.145 wifi_same_ess_ft()
5.7.1.146 wifi_host_11k_cfg()
5.7.1.147 wifi_host_11k_neighbor_req()
5.7.1.148 wifi_host_11v_bss_trans_query()
5.7.1.149 wifi_clear_mgmt_ie()
5.7.1.150 wifi_set_sta_mac_filter()
5.7.1.151 wifi_set_auto_arp()
5.7.1.152 wifi_tcp_keep_alive()
5.7.1.153 wifi_cloud_keep_alive()
5.7.1.154 wifi_raw_packet_send()
5.7.1.155 wifi_raw_packet_recv()
5.7.1.156 wifi_set_11ax_tx_omi()
5.7.1.157 wifi_set_11ax_tol_time()
5.7.1.158 wifi_set_11ax_rutxpowerlimit()
5.7.1.159 wifi_set_11ax_rutxpowerlimit_legacy()
5.7.1.160 wifi_get_11ax_rutxpowerlimit_legacy()
5.7.1.161 wifi_set_11ax_cfg()
5.7.1.162 wifi_set_btwt_cfg()
5.7.1.163 wifi_set_twt_setup_cfg()
5.7.1.164 wifi_set_twt_teardown_cfg()
5.7.1.165 wifi_get_twt_report()
5.7.1.166 wifi_twt_information()
5.7.1.167 wifi_set_clocksync_cfg()
5.7.1.168 wifi_get_tsf_info()
5.7.1.169 wifi_set_rf_test_mode()
5.7.1.170 wifi_unset_rf_test_mode()
5.7.1.171 wifi_set_rf_channel()
5.7.1.172 wifi_set_rf_radio_mode()
5.7.1.173 wifi_get_rf_channel()
5.7.1.174 wifi get rf radio mode()



5.7.1.175 wifi_set_rf_band()
5.7.1.176 wifi_get_rf_band()
5.7.1.177 wifi_set_rf_bandwidth()
5.7.1.178 wifi_get_rf_bandwidth()
5.7.1.179 wifi_get_rf_per()
5.7.1.180 wifi_set_rf_tx_cont_mode()
5.7.1.181 wifi_set_rf_tx_antenna()
5.7.1.182 wifi_get_rf_tx_antenna()
5.7.1.183 wifi_set_rf_rx_antenna()
5.7.1.184 wifi_get_rf_rx_antenna()
5.7.1.185 wifi_set_rf_tx_power()
5.7.1.186 wifi_cfg_rf_he_tb_tx()
5.7.1.187 wifi_rf_trigger_frame_cfg()
5.7.1.188 wifi_set_rf_tx_frame()
5.7.1.189 wifi_set_rf_otp_mac_addr()
5.7.1.190 wifi_get_rf_otp_mac_addr()
5.7.1.191 wifi_set_rf_otp_cal_data()
5.7.1.192 wifi_get_rf_otp_cal_data()
5.7.1.193 wifi_register_fw_dump_cb()
5.7.1.194 wifi_wmm_init()
5.7.1.195 wifi_wmm_get_pkt_prio()
5.7.1.196 wifi_wmm_get_packet_cnt()
5.7.1.197 wifi_handle_event_data_pause()
5.7.1.198 wifi_wmm_tx_stats_dump()
5.7.1.199 wifi_set_rssi_low_threshold()
5.7.1.200 wifi_show_os_mem_stat()
5.7.1.201 wifi_inject_frame()
5.7.1.202 wifi_supp_inject_frame()
5.7.1.203 wifi_is_wpa_supplicant_input()
5.7.1.204 wifi_wpa_supplicant_eapol_input()
5.7.1.205 wifi_get_sec_channel_offset()
5.7.1.206 wifi_nxp_scan_res_get()
5.7.1.207 wifi_nxp_survey_res_get()
5.7.1.208 wifi_nxp_set_default_scan_ies()
5.7.1.209 wifi_nxp_reset_scan_flag()
5.7.1.210 wifi_host_mbo_cfg()
5.7.1.211 wifi_mbo_preferch_cfg()
5.7.1.212 wifi_mbo_send_preferch_wnm()
5.7.1.213 wifi_csi_cfg()
5.7.1.214 register_csi_user_callback()
5.7.1.215 unregister_csi_user_callback()
5.7.1.216 csi_local_buff_init()



5.7.1.217 csi_save_data_to_local_buff()	228
5.7.1.218 csi_deliver_data_to_user()	228
5.7.1.219 wifi_send_mgmt_auth_request()	228
5.7.1.220 wifi_send_scan_cmd()	229
5.7.1.221 wifi_deauthenticate()	229
5.7.1.222 wifi_get_turbo_mode()	229
5.7.1.223 wifi_get_uap_turbo_mode()	229
5.7.1.224 wifi_set_turbo_mode()	229
5.7.1.225 wifi_set_uap_turbo_mode()	229
5.7.1.226 wifi_get_default_ht_capab()	230
5.7.1.227 wifi_get_default_vht_capab()	230
5.7.1.228 wifi_uap_client_assoc()	230
5.7.1.229 wifi_uap_client_deauth()	230
5.7.1.230 region_string_2_region_code()	230
5.7.1.231 wifi_set_indrst_cfg()	230
5.7.1.232 wifi_get_indrst_cfg()	231
5.7.1.233 wifi_test_independent_reset()	231
5.7.1.234 wifi_trigger_oob_indrst()	231
5.7.1.235 hostapd_connected_sta_list()	231
5.7.1.236 wifi_is_remain_on_channel()	231
5.7.2 Macro Documentation	231
5.7.2.1 CONFIG_STA_AUTO_DHCPV4	231
5.7.2.2 CONFIG_WIFI_STA_RECONNECT	232
5.7.2.3 CONFIG_WIFI_AUTO_POWER_SAVE	232
5.7.2.4 CONFIG_GTK_REKEY_OFFLOAD	232
5.7.2.5 CONFIG_TCP_ACK_ENH	232
5.7.2.6 CONFIG_FW_VDLL	232
5.7.2.7 WIFI_REG8	232
5.7.2.8 WIFI_REG16	232
5.7.2.9 WIFI_REG32	233
5.7.2.10 WIFI_WRITE_REG8	233
5.7.2.11 WIFI_WRITE_REG16	233
5.7.2.12 WIFI_WRITE_REG32	233
5.7.2.13 WIFI_COMMAND_RESPONSE_WAIT_MS	233
5.7.2.14 BANDWIDTH_20MHZ	233
5.7.2.15 BANDWIDTH_40MHZ	233
5.7.2.16 BANDWIDTH_80MHZ	234
5.7.2.17 MAX_NUM_CHANS_IN_NBOR_RPT	234
5.7.2.18 MBIT	234
5.7.2.19 WIFI_MGMT_DIASSOC	234
5.7.2.20 WIFI_MGMT_AUTH	234
5.7.2.21 WIFI_MGMT_DEAUTH	234



234
235
235
235
235
235
235
236
236
236
237
237
237
237
237
237
237
237
238
238
238
238
238
238
238
240
240
240
241
241
241
241
242
242
242
242
242
242
243
243
243
243



5.9.2.8 PING_MAX_SIZE	243
5.9.2.9 PING_MAX_COUNT	243
5.10 wlan.h File Reference	243
5.10.1 Detailed Description	243
5.10.2 Usage	244
5.10.3 Function Documentation	244
5.10.3.1 is_valid_security()	244
5.10.3.2 is_ep_valid_security()	244
5.10.3.3 verify_scan_duration_value()	244
5.10.3.4 verify_scan_channel_value()	244
5.10.3.5 verify_split_scan_delay()	245
5.10.3.6 set_scan_params()	245
5.10.3.7 get_scan_params()	245
5.10.3.8 wlan_get_current_rssi()	245
5.10.3.9 wlan_get_current_nf()	245
5.10.3.10 wlan_init()	245
5.10.3.11 wlan_start()	246
5.10.3.12 wlan_stop()	246
5.10.3.13 wlan_deinit()	247
5.10.3.14 wlan_remove_all_network_profiles()	
5.10.3.15 wlan_initialize_uap_network()	247
5.10.3.16 wlan_initialize_sta_network()	247
5.10.3.17 wlan_add_network()	248
5.10.3.18 wlan_remove_network()	249
5.10.3.19 wlan_connect()	249
5.10.3.20 wlan_connect_opt()	251
5.10.3.21 wlan_reassociate()	252
5.10.3.22 wlan_disconnect()	252
5.10.3.23 wlan_start_network()	253
5.10.3.24 wlan_stop_network()	253
5.10.3.25 wlan_get_mac_address()	254
5.10.3.26 wlan_get_mac_address_uap()	254
5.10.3.27 wlan_get_address()	255
5.10.3.28 wlan_get_uap_address()	255
5.10.3.29 wlan_get_uap_channel()	256
5.10.3.30 wlan_get_current_network()	256
5.10.3.31 wlan_get_current_network_ssid()	257
5.10.3.32 wlan_get_current_network_bssid()	257
5.10.3.33 wlan_get_current_uap_network()	
5.10.3.34 wlan_get_current_uap_network_ssid()	
5.10.3.35 is_uap_started()	258
5.10.3.36 is_sta_connected()	259



5.10.3.37 is_sta_ipv4_connected()
5.10.3.38 is_sta_ipv6_connected()
5.10.3.39 wlan_get_network()
5.10.3.40 wlan_get_network_byname()
5.10.3.41 wlan_get_network_count()
5.10.3.42 wlan_get_connection_state()
5.10.3.43 wlan_get_uap_connection_state()
5.10.3.44 wlan_scan()
5.10.3.45 wlan_scan_with_opt()
5.10.3.46 wlan_get_scan_result()
5.10.3.47 wlan_enable_low_pwr_mode()
5.10.3.48 wlan_set_ed_mac_mode()
5.10.3.49 wlan_set_uap_ed_mac_mode()
5.10.3.50 wlan_get_ed_mac_mode()
5.10.3.51 wlan_get_uap_ed_mac_mode()
5.10.3.52 wlan_set_cal_data()
5.10.3.53 wlan_set_mac_addr()
5.10.3.54 wlan_set_sta_mac_addr()
5.10.3.55 wlan_set_uap_mac_addr()
5.10.3.56 wlan_set_roaming()
5.10.3.57 wlan_get_roaming_status()
5.10.3.58 wlan_set_ieeeps_cfg()
5.10.3.59 wlan_configure_listen_interval()
5.10.3.60 wlan_configure_delay_to_ps()
5.10.3.61 wlan_get_listen_interval()
5.10.3.62 wlan_get_delay_to_ps()
5.10.3.63 wlan_is_power_save_enabled()
5.10.3.64 wlan_configure_null_pkt_interval()
5.10.3.65 wlan_set_antcfg()
5.10.3.66 wlan_get_antcfg()
5.10.3.67 wlan_get_firmware_version_ext()
5.10.3.68 wlan_version_extended()
5.10.3.69 wlan_get_tsf()
5.10.3.70 wlan_ieeeps_on()
5.10.3.71 wlan_ieeeps_off()
5.10.3.72 wlan_deepsleepps_on()
5.10.3.73 wlan_deepsleepps_off()
5.10.3.74 wlan_tcp_keep_alive()
5.10.3.75 wlan_get_beacon_period()
5.10.3.76 wlan_get_dtim_period()
5.10.3.77 wlan_get_data_rate()
5.10.3.78 wlan get pmfcfg()



5.10.3.79 wlan_uap_get_pmfcfg()
5.10.3.80 wlan_set_packet_filters()
5.10.3.81 wlan_set_auto_arp()
5.10.3.82 wlan_wowlan_cfg_ptn_match()
5.10.3.83 wlan_set_ipv6_ns_offload()
5.10.3.84 wlan_get_current_bssid()
5.10.3.85 wlan_get_current_channel()
5.10.3.86 wlan_get_ps_mode()
5.10.3.87 wlan_wlcmgr_send_msg()
5.10.3.88 wlan_wfa_basic_cli_init()
5.10.3.89 wlan_wfa_basic_cli_deinit()
5.10.3.90 wlan_basic_cli_init()
5.10.3.91 wlan_basic_cli_deinit()
5.10.3.92 wlan_cli_init()
5.10.3.93 wlan_cli_deinit()
5.10.3.94 wlan_enhanced_cli_init()
5.10.3.95 wlan_enhanced_cli_deinit()
5.10.3.96 wlan_test_mode_cli_init()
5.10.3.97 wlan_test_mode_cli_deinit()
5.10.3.98 wlan_get_uap_supported_max_clients()
5.10.3.99 wlan_get_uap_max_clients()
5.10.3.100 wlan_set_uap_max_clients()
5.10.3.101 wlan_set_htcapinfo()
5.10.3.102 wlan_set_httxcfg()
5.10.3.103 wlan_set_txratecfg()
5.10.3.104 wlan_get_txratecfg()
5.10.3.105 wlan_get_sta_tx_power()
5.10.3.106 wlan_set_sta_tx_power()
5.10.3.107 wlan_set_wwsm_txpwrlimit()
5.10.3.108 wlan_get_wlan_region_code()
5.10.3.109 wlan_get_mgmt_ie()
5.10.3.110 wlan_set_mgmt_ie()
5.10.3.111 wlan_get_ext_coex_stats()
5.10.3.112 wlan_set_ext_coex_config()
5.10.3.113 wlan_clear_mgmt_ie()
5.10.3.114 wlan_get_11d_enable_status()
5.10.3.115 wlan_get_current_signal_strength()
5.10.3.116 wlan_get_average_signal_strength()
5.10.3.117 wlan_remain_on_channel()
5.10.3.118 wlan_get_otp_user_data()
5.10.3.119 wlan_get_cal_data()
5.10.3.120 wlan_set_region_power_cfg()



5.10.3.121 wlan_set_chanlist_and_txpwrlimit()
5.10.3.122 wlan_set_chanlist()
5.10.3.123 wlan_get_chanlist()
5.10.3.124 wlan_set_txpwrlimit()
5.10.3.125 wlan_get_txpwrlimit()
5.10.3.126 wlan_auto_reconnect_enable()
5.10.3.127 wlan_auto_reconnect_disable()
5.10.3.128 wlan_get_auto_reconnect_config()
5.10.3.129 wlan_set_reassoc_control()
5.10.3.130 wlan_uap_set_beacon_period()
5.10.3.131 wlan_uap_set_bandwidth()
5.10.3.132 wlan_uap_get_bandwidth()
5.10.3.133 wlan_uap_set_hidden_ssid()
5.10.3.134 wlan_uap_ctrl_deauth()
5.10.3.135 wlan_uap_set_ecsa()
5.10.3.136 wlan_uap_set_htcapinfo()
5.10.3.137 wlan_uap_set_httxcfg()
5.10.3.138 wlan_sta_ampdu_tx_enable()
5.10.3.139 wlan_sta_ampdu_tx_disable()
5.10.3.140 wlan_sta_ampdu_rx_enable()
5.10.3.141 wlan_sta_ampdu_rx_disable()
5.10.3.142 wlan_uap_ampdu_tx_enable()
5.10.3.143 wlan_uap_ampdu_tx_disable()
5.10.3.144 wlan_uap_ampdu_rx_enable()
5.10.3.145 wlan_uap_ampdu_rx_disable()
5.10.3.146 wlan_uap_set_scan_chan_list()
5.10.3.147 wlan_set_rts()
5.10.3.148 wlan_set_uap_rts()
5.10.3.149 wlan_set_frag()
5.10.3.150 wlan_set_uap_frag()
5.10.3.151 wlan_set_sta_mac_filter()
5.10.3.152 print_mac()
5.10.3.153 wlan_set_rf_test_mode()
5.10.3.154 wlan_unset_rf_test_mode()
5.10.3.155 wlan_set_rf_channel()
5.10.3.156 wlan_set_rf_radio_mode()
5.10.3.157 wlan_get_rf_channel()
5.10.3.158 wlan_get_rf_radio_mode()
5.10.3.159 wlan_set_rf_band()
5.10.3.160 wlan_get_rf_band()
5.10.3.161 wlan_set_rf_bandwidth()
5.10.3.162 wlan_get_rf_bandwidth()



5.10.3.163 wlan_get_rf_per()
5.10.3.164 wlan_set_rf_tx_cont_mode()
5.10.3.165 wlan_cfg_rf_he_tb_tx()
5.10.3.166 wlan_rf_trigger_frame_cfg()
5.10.3.167 wlan_set_rf_tx_antenna()
5.10.3.168 wlan_get_rf_tx_antenna()
5.10.3.169 wlan_set_rf_rx_antenna()
5.10.3.170 wlan_get_rf_rx_antenna()
5.10.3.171 wlan_set_rf_tx_power()
5.10.3.172 wlan_set_rf_tx_frame()
5.10.3.173 wlan_set_rf_otp_mac_addr()
5.10.3.174 wlan_get_rf_otp_mac_addr()
5.10.3.175 wlan_set_rf_otp_cal_data()
5.10.3.176 wlan_get_rf_otp_cal_data()
5.10.3.177 wlan_register_fw_dump_cb()
5.10.3.178 wlan_set_crypto_RC4_encrypt()
5.10.3.179 wlan_set_crypto_RC4_decrypt()
5.10.3.180 wlan_set_crypto_AES_ECB_encrypt()
5.10.3.181 wlan_set_crypto_AES_ECB_decrypt()
5.10.3.182 wlan_set_crypto_AES_WRAP_encrypt()
5.10.3.183 wlan_set_crypto_AES_WRAP_decrypt()
5.10.3.184 wlan_set_crypto_AES_CCMP_encrypt()
5.10.3.185 wlan_set_crypto_AES_CCMP_decrypt()
5.10.3.186 wlan_set_crypto_AES_GCMP_encrypt()
5.10.3.187 wlan_set_crypto_AES_GCMP_decrypt()
5.10.3.188 wlan_send_hostcmd()
5.10.3.189 wlan_send_debug_htc()
5.10.3.190 wlan_enable_disable_htc()
5.10.3.191 wlan_set_11ax_tx_omi()
5.10.3.192 wlan_set_11ax_tol_time()
5.10.3.193 wlan_set_11ax_rutxpowerlimit()
5.10.3.194 wlan_set_11ax_rutxpowerlimit_legacy()
5.10.3.195 wlan_get_11ax_rutxpowerlimit_legacy()
5.10.3.196 wlan_set_11ax_cfg()
5.10.3.197 wlan_get_11ax_cfg()
5.10.3.198 wlan_set_btwt_cfg()
5.10.3.199 wlan_get_btwt_cfg()
5.10.3.200 wlan_set_twt_setup_cfg()
5.10.3.201 wlan_get_twt_setup_cfg()
5.10.3.202 wlan_set_twt_teardown_cfg()
5.10.3.203 wlan_get_twt_teardown_cfg()
5.10.3.204 wlan get twt report()



5.10.3.205 wlan_twt_information()
5.10.3.206 wlan_set_clocksync_cfg()
5.10.3.207 wlan_get_tsf_info()
5.10.3.208 wlan_show_os_mem_stat()
5.10.3.209 wlan_ft_roam()
5.10.3.210 wlan_rx_mgmt_indication()
5.10.3.211 wlan_wmm_tx_stats_dump()
5.10.3.212 wlan_set_scan_channel_gap()
5.10.3.213 wlan_host_11k_cfg()
5.10.3.214 wlan_get_host_11k_status()
5.10.3.215 wlan_host_11k_neighbor_req()
5.10.3.216 wlan_host_11v_bss_trans_query()
5.10.3.217 wlan_set_okc()
5.10.3.218 wlan_pmksa_list()
5.10.3.219 wlan_pmksa_flush()
5.10.3.220 wlan_set_scan_interval()
5.10.3.221 wlan_tx_ampdu_prot_mode()
5.10.3.222 wlan_mef_set_auto_arp()
5.10.3.223 wlan_mef_set_auto_ping()
5.10.3.224 wlan_config_mef()
5.10.3.225 wlan_set_ipv6_ns_mef()
5.10.3.226 wlan_csi_cfg()
5.10.3.227 wlan_register_csi_user_callback()
5.10.3.228 wlan_unregister_csi_user_callback()
5.10.3.229 wlan_set_rssi_low_threshold()
5.10.3.230 wlan_wps_generate_pin()
5.10.3.231 wlan_start_wps_pin()
5.10.3.232 wlan_start_wps_pbc()
5.10.3.233 wlan_wps_cancel()
5.10.3.234 wlan_start_ap_wps_pin()
5.10.3.235 wlan_start_ap_wps_pbc()
5.10.3.236 wlan_wps_ap_cancel()
5.10.3.237 wlan_set_entp_cert_files()
5.10.3.238 wlan_get_entp_cert_files()
5.10.3.239 wlan_free_entp_cert_files()
5.10.3.240 wlan_check_11n_capa()
5.10.3.241 wlan_check_11ac_capa()
5.10.3.242 wlan_check_11ax_capa()
5.10.3.243 wlan_get_signal_info()
5.10.3.244 wlan_set_rg_power_cfg()
5.10.3.245 wlan_get_turbo_mode()
5.10.3.246 wlan get uap turbo mode()



	5.10.3.24/ wlan_set_turbo_mode()
	5.10.3.248 wlan_set_uap_turbo_mode()
	5.10.3.249 wlan_set_ps_cfg()
	5.10.3.250 wlan_save_cloud_keep_alive_params()
	5.10.3.251 wlan_cloud_keep_alive_enabled()
	5.10.3.252 wlan_start_cloud_keep_alive()
	5.10.3.253 wlan_stop_cloud_keep_alive()
	5.10.3.254 wlan_set_country_code()
	5.10.3.255 wlan_set_country_ie_ignore()
	5.10.3.256 wlan_set_region_code()
	5.10.3.257 wlan_get_region_code()
	5.10.3.258 wlan_set_11d_state()
	5.10.3.259 wlan_dpp_configurator_add()
	5.10.3.260 wlan_dpp_configurator_params()
	5.10.3.261 wlan_dpp_mud_url()
	5.10.3.262 wlan_dpp_bootstrap_gen()
	5.10.3.263 wlan_dpp_bootstrap_get_uri()
	5.10.3.264 wlan_dpp_qr_code()
	5.10.3.265 wlan_dpp_auth_init()
	5.10.3.266 wlan_dpp_listen()
	5.10.3.267 wlan_dpp_stop_listen()
	5.10.3.268 wlan_dpp_pkex_add()
	5.10.3.269 wlan_dpp_chirp()
	5.10.3.270 wlan_dpp_reconfig()
	5.10.3.271 wlan_dpp_configurator_sign()
	5.10.3.272 wlan_host_set_sta_mac_filter()
	5.10.3.273 wlan_set_indrst_cfg()
	5.10.3.274 wlan_get_indrst_cfg()
	5.10.3.275 wlan_independent_reset()
	5.10.3.276 wlan_set_network_ip_byname()
	5.10.3.277 wlan_string_dup()
	5.10.3.278 wlan_get_board_type()
	5.10.3.279 wlan_uap_disconnect_sta()
5.10.4	Macro Documentation
	5.10.4.1 WLAN_DRV_VERSION
	5.10.4.2 ARG_UNUSED
	5.10.4.3 CONFIG_WLAN_KNOWN_NETWORKS
	5.10.4.4 wlcm_e
	5.10.4.5 wlcm_w
	5.10.4.6 wlcm_d
	5.10.4.7 ACTION_GET
	5.10.4.8 ACTION_SET



5.10.4.9 IEEEtypes_SSID_SIZE
5.10.4.10 IEEEtypes_ADDRESS_SIZE
5.10.4.11 WLAN_REASON_CODE_PREV_AUTH_NOT_VALID
5.10.4.12 WLAN_RESCAN_LIMIT
5.10.4.13 WLAN_11D_SCAN_LIMIT
5.10.4.14 WLAN_RECONNECT_LIMIT
5.10.4.15 WLAN_NETWORK_NAME_MIN_LENGTH
5.10.4.16 WLAN_NETWORK_NAME_MAX_LENGTH
5.10.4.17 WLAN_PSK_MIN_LENGTH
5.10.4.18 WLAN_PSK_MAX_LENGTH
5.10.4.19 WLAN_PASSWORD_MIN_LENGTH
5.10.4.20 WLAN_PASSWORD_MAX_LENGTH
5.10.4.21 IDENTITY_MAX_LENGTH
5.10.4.22 PASSWORD_MAX_LENGTH
5.10.4.23 MAX_USERS
5.10.4.24 PAC_OPAQUE_ENCR_KEY_MAX_LENGTH
5.10.4.25 A_ID_MAX_LENGTH
5.10.4.26 HASH_MAX_LENGTH
5.10.4.27 DOMAIN_MATCH_MAX_LENGTH
5.10.4.28 WLAN_MAX_KNOWN_NETWORKS
5.10.4.29 WLAN_PMK_LENGTH
5.10.4.30 WLAN_MAX_STA_FILTER_NUM
5.10.4.31 WLAN_MAC_ADDR_LENGTH
5.10.4.32 WLAN_ERROR_NONE
5.10.4.33 WLAN_ERROR_PARAM
5.10.4.34 WLAN_ERROR_NOMEM
5.10.4.35 WLAN_ERROR_STATE
5.10.4.36 WLAN_ERROR_ACTION
5.10.4.37 WLAN_ERROR_PS_ACTION
5.10.4.38 WLAN_ERROR_NOT_SUPPORTED
5.10.4.39 HOST_WAKEUP_GPIO_PIN
5.10.4.40 CARD_WAKEUP_GPIO_PIN
5.10.4.41 WLAN_MGMT_DIASSOC
5.10.4.42 WLAN_MGMT_AUTH
5.10.4.43 WLAN_MGMT_DEAUTH
5.10.4.44 WLAN_MGMT_ACTION
5.10.4.45 WLAN_KEY_MGMT_IEEE8021X
5.10.4.46 WLAN_KEY_MGMT_PSK
5.10.4.47 WLAN_KEY_MGMT_NONE
5.10.4.48 WLAN_KEY_MGMT_IEEE8021X_NO_WPA
5.10.4.49 WLAN_KEY_MGMT_WPA_NONE
5.10.4.50 WLAN_KEY_MGMT_FT_IEEE8021X



5.10.4.51 WLAN_KEY_MGMT_FT_PSK	374
5.10.4.52 WLAN_KEY_MGMT_IEEE8021X_SHA256	374
5.10.4.53 WLAN_KEY_MGMT_PSK_SHA256	374
5.10.4.54 WLAN_KEY_MGMT_WPS	374
5.10.4.55 WLAN_KEY_MGMT_SAE	374
5.10.4.56 WLAN_KEY_MGMT_FT_SAE	374
5.10.4.57 WLAN_KEY_MGMT_WAPI_PSK	374
5.10.4.58 WLAN_KEY_MGMT_WAPI_CERT	374
5.10.4.59 WLAN_KEY_MGMT_CCKM	375
5.10.4.60 WLAN_KEY_MGMT_OSEN	
5.10.4.61 WLAN_KEY_MGMT_IEEE8021X_SUITE_B	375
5.10.4.62 WLAN_KEY_MGMT_IEEE8021X_SUITE_B_192	375
5.10.4.63 WLAN_KEY_MGMT_FILS_SHA256	375
5.10.4.64 WLAN_KEY_MGMT_FILS_SHA384	375
5.10.4.65 WLAN_KEY_MGMT_FT_FILS_SHA256	375
5.10.4.66 WLAN_KEY_MGMT_FT_FILS_SHA384	375
5.10.4.67 WLAN_KEY_MGMT_OWE	
5.10.4.68 WLAN_KEY_MGMT_DPP	376
5.10.4.69 WLAN_KEY_MGMT_FT_IEEE8021X_SHA384	376
5.10.4.70 WLAN_KEY_MGMT_PASN	376
5.10.4.71 WLAN_KEY_MGMT_SAE_EXT_KEY	376
5.10.4.72 WLAN_KEY_MGMT_FT	376
5.10.4.73 WLAN_CIPHER_NONE	376
5.10.4.74 WLAN_CIPHER_WEP40	377
5.10.4.75 WLAN_CIPHER_WEP104	377
5.10.4.76 WLAN_CIPHER_TKIP	377
5.10.4.77 WLAN_CIPHER_CCMP	377
5.10.4.78 WLAN_CIPHER_AES_128_CMAC	
5.10.4.79 WLAN_CIPHER_GCMP	377
5.10.4.80 WLAN_CIPHER_SMS4	377
5.10.4.81 WLAN_CIPHER_GCMP_256	377
5.10.4.82 WLAN_CIPHER_CCMP_256	
5.10.4.83 WLAN_CIPHER_BIP_GMAC_128	378
5.10.4.84 WLAN_CIPHER_BIP_GMAC_256	378
5.10.4.85 WLAN_CIPHER_BIP_CMAC_256	378
5.10.4.86 WLAN_CIPHER_GTK_NOT_USED	378
5.10.4.87 NUM_CHAN_BAND_ENUMS	378
5.10.4.88 DFS_REC_HDR_LEN	
5.10.4.89 DFS_REC_HDR_NUM	
5.10.4.90 BIN_COUNTER_LEN	
5.10.4.91 MAX_CHANNEL_LIST	379
5.10.4.92 TX AMPDU RTS CTS	379



379
379
379
379
379
380
380
380
380
380
380
380
380
381
381
381
381
381
381
381
381
382
382
382
382
382
382
382
382
383
383
383
383
383
383
383
383
384
384
384
384
384



5.10.5.24 wlan_clock_sync_gpio_tsf_t	384
5.10.5.25 wlan_tsf_info_t	384
5.10.5.26 wlan_mgmt_frame_t	384
5.10.5.27 wlan_csi_config_params_t	385
5.10.5.28 wlan_indrst_cfg_t	385
5.10.5.29 wlan_txrate_setting	385
5.10.5.30 wlan_rssi_info_t	385
5.10.5.31 wlan_uap_client_disassoc_t	385
5.10.6 Enumeration Type Documentation	385
5.10.6.1 IEEEtypes_Bss_t	385
5.10.6.2 wm_wlan_errno	386
5.10.6.3 wlan_event_reason	386
5.10.6.4 wlan_wakeup_event_t	387
5.10.6.5 wlan_connection_state	388
5.10.6.6 wlan_ps_mode	388
5.10.6.7 wlan_ps_state	389
5.10.6.8 ENH_PS_MODES	389
5.10.6.9 Host_Sleep_Action	389
5.10.6.10 wlan_csi_opt	390
5.10.6.11 wlan_monitor_opt	390
5.10.6.12 ChanBand_e	390
5.10.6.13 ChanWidth_e	390
5.10.6.14 Chan2Offset_e	391
5.10.6.15 ScanMode_e	391
5.10.6.16 wlan_security_type	391
5.10.6.17 eap_tls_cipher_type	393
5.10.6.18 address_types	393
5.10.6.19 wlan_mef_type	393
5.11 wlan_11d.h File Reference	393
5.11.1 Function Documentation	394
5.11.1.1 wlan_enable_11d()	394
5.11.1.2 wlan_enable_uap_11d()	394
5.12 wlan_tests.h File Reference	395
5.12.1 Function Documentation	395
5.12.1.1 test_wlan_cfg_process()	395
5.12.1.2 print_txpwrlimit()	395
5.12.2 Enumeration Type Documentation	395
5.12.2.1 anonymous enum	395
5.13 wm_net.h File Reference	396
5.13.1 Detailed Description	396
5.13.2 Function Documentation	396
5.13.2.1 net_dhcp_hostname_set()	396



5	.13.2.2 net_stop_dhcp_timer()	6
5	.13.2.3 net_socket_blocking()	6
5	.13.2.4 net_get_sock_error()	7
5	.13.2.5 net_inet_aton()	7
5	.13.2.6 net_wlan_set_mac_address()	8
5	.13.2.7 net_stack_buffer_skip()	8
5	.13.2.8 net_inet_ntoa()	8
5	.13.2.9 net_sock_to_interface()	9
5	.13.2.10 net_wlan_init()	9
5	.13.2.11 net_wlan_deinit()	9
5	.13.2.12 net_get_sta_interface()	0
5	.13.2.13 net_get_uap_interface()	0
5	.13.2.14 net_alloc_client_data_id()	0
5	.13.2.15 net_get_sta_handle()	0
5	.13.2.16 net_get_uap_handle()	1
5	.13.2.17 net_interface_up()	1
5	.13.2.18 net_interface_down()	1
5	.13.2.19 net_interface_dhcp_stop()	2
5	.13.2.20 net_interface_dhcp_cleanup()	2
5	.13.2.21 net_configure_address()	2
5	.13.2.22 net_configure_dns()	3
5	.13.2.23 net_get_if_addr()	3
5	.13.2.24 net_get_if_ipv6_addr()	4
5	.13.2.25 net_get_if_ipv6_pref_addr()	4
5	.13.2.26 ipv6_addr_state_to_desc()	4
5	.13.2.27 ipv6_addr_addr_to_desc()	5
5	.13.2.28 ipv6_addr_type_to_desc()	5
5	.13.2.29 net_get_if_name()	6
5	.13.2.30 net_get_if_ip_addr()	6
5	.13.2.31 net_get_if_ip_mask()	6
5	.13.2.32 net_ipv4stack_init()	8
5	13.2.33 net_stat()	8
5.13.3 Ma	acro Documentation	8
5	.13.3.1 NET_SUCCESS	8
5	.13.3.2 NET_ERROR	9
5	.13.3.3 NET_ENOBUFS	9
5	.13.3.4 NET_BLOCKING_OFF	9
5	.13.3.5 NET_BLOCKING_ON	9
5	.13.3.6 net_socket	9
5	.13.3.7 net_select	9
5	.13.3.8 net_bind	0
5	.13.3.9 net_listen	0



5.13.3.10 net_close	. 410
5.13.3.11 net_accept	. 410
5.13.3.12 net_shutdown	. 410
5.13.3.13 net_connect	. 410
5.13.3.14 net_read	. 411
5.13.3.15 net_write	. 411
5.13.3.16 net_get_mlan_handle	. 411
5.13.4 Enumeration Type Documentation	. 411
5.13.4.1 net_address_types	. 411
5.14 wm_utils.h File Reference	. 411
5.14.1 Detailed Description	. 411
5.14.2 Function Documentation	. 412
5.14.2.1 wmpanic()	. 412
5.14.2.2 wm_hex2bin()	. 412
5.14.2.3 wm_bin2hex()	
5.14.2.4 random_register_handler()	. 413
5.14.2.5 random_unregister_handler()	. 413
5.14.2.6 random_register_seed_handler()	. 414
5.14.2.7 random_unregister_seed_handler()	. 414
5.14.2.8 random_initialize_seed()	. 414
5.14.2.9 sample_initialise_random_seed()	. 415
5.14.2.10 get_random_sequence()	. 415
5.14.2.11 wm_frac_part_of()	. 415
5.14.2.12 strdup()	. 416
5.14.2.13 soft_crc32()	. 416
5.14.2.14 wm_strtof()	. 417
5.14.2.15 fill_sequential_pattern()	. 417
5.14.2.16 verify_sequential_pattern()	. 417
5.14.3 Macro Documentation	. 418
5.14.3.1 ffs	. 418
5.14.3.2 WARN_UNUSED_RET	. 418
5.14.3.3 PACK_START	. 418
5.14.3.4 PACK_END	. 418
5.14.3.5 NORETURN	. 418
5.14.3.6WM_ALIGN	. 418
5.14.3.7 WM_MASK	. 419
5.14.3.8 dump_hex	. 419
5.14.3.9 dump_hex_ascii	. 419
5.14.3.10 dump_ascii	. 419
5.14.3.11 print_ascii	. 420
5.14.3.12 dump_json	. 420
5.14.3.13 wm int part of	. 420



5.14.4 Typedef Documentation	 															420
5 14 4 1 random hdlr t																120



Chapter 1

Main Page

1.1 Introduction

NXP's WiFi functionality enables customers to quickly develop applications of interest to add connectivity to different sensors and appliances.

1.1.1 Developer Documentation

This manual provides developer reference documentation for WiFi driver and WLAN Connection Manager.

In addition to the reference documentation in this manual, you can also explore the source code.

Note

The File Documentation provides documentation for all the APIs that are available in WiFi driver and connection manager.



2 Main Page





Chapter 2

Data Structure Index

2.1 Data Structures

Here are the data structures with brief descriptions:

_Cipher_t	9
_SecurityMode_t	12
BandConfig_t	15
	15
cli_command	16
	17
	18
	20
ipv6_config	21
=1= 0	22
net_ipv4_config	23
=1 = 0	24
	25
	26
	27
	28
_ • • • • • • • • • • • • • • • • • • •	29
	31
	32
	33
	34
9	35
	36
	37
	38
	39
	39
	40
	41
	42
<u></u>	45
	47
	48
	49 50
WIII US TALE	วป



4 Data Structure Index

	51
	52
wifi_ext_coex_config_t	53
wifi_ext_coex_stats_t	55
wifi_flt_cfg_t	56
wifi_frame_t	57
wifi_fw_version_ext_t	57
wifi_fw_version_t	58
wifi_indrst_cfg_t	59
wifi_mac_addr_t	59
wifi_mef_entry_t	60
wifi_mef_filter_t	61
wifi_message	63
wifi_mfg_cmd_generic_cfg_t	64
	65
	67
	69
	70
	71
	74
	78
	80
	81
	82
	82
	84
	85
	86
	88
_ ·	89
	90
	90 90
	90 91
	91 92
	92 94
wifi_sta_info_t	
wifi_sta_list_t 10 wifi sub band set t 10	
	02
	03
	05
	06
	07
=	80
	10
	10
	11
= P = = = = = = = = = = = = = = = = = =	12
	13
	14
wifi_wowlan_pattern_t	_
_ · · · · · — · · — · · · — · · · · · ·	15
	16
	19
1 0	20
wlan_message	21
wlan_network	
wlan_network_security	28



2.1 Data Structures 5

wlan_nlist_report_param	138
wlan_rrm_beacon_report_data	139
wlan_rrm_neighbor_ap_t	141
wlan_rrm_neighbor_report_t	142
wlan_rrm_scan_cb_param	143
wlan_scan_result	144
wnm slaan rasult t	150



6 Data Structure Index



Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

cli.h		
	CLI module	151
dhcp-ser		
	DHCP server	156
iperf.h		
	This file provides the support for network utility iperf	160
osa.h . wifi-decl.	h	161
	Wifi structure declarations	171
wifi.h		
	This file contains interface to wifi driver	182
wifi_ever		
	Wi-Fi events	238
wifi_ping		
wlan.h	This file provides the support for network utility ping	241
	WLAN Connection Manager	243
wlan_11	d.h	
	WLAN module 11d API	393
wlan_tes		
	WLAN Connection Manager Tests	395
wm_net.		
	Network Abstraction Layer	396
wm_utils		
	Utility functions	411



8 File Index





Chapter 4

Data Structure Documentation

4.1 _Cipher_t Struct Reference

Data Fields

```
• uint16_t none: 1
• uint16_t wep40: 1
• uint16_t wep104: 1
• uint16_t tkip: 1

    uint16_t ccmp: 1

• uint16_t aes_128_cmac: 1
• uint16_t gcmp: 1
• uint16_t sms4: 1
• uint16_t gcmp_256: 1
• uint16_t ccmp_256: 1

    uint16_t rsvd: 1

• uint16_t bip_gmac_128: 1
• uint16_t bip_gmac_256: 1
• uint16_t bip_cmac_256: 1
• uint16_t gtk_not_used: 1
uint16_t rsvd2: 2
```

4.1.1 Field Documentation

```
4.1.1.1 none
uint16_t _Cipher_t::none
```

1 bit value can be set for none



```
4.1.1.2 wep40
uint16_t _Cipher_t::wep40
1 bit value can be set for wep40
4.1.1.3 wep104
uint16_t _Cipher_t::wep104
1 bit value can be set for wep104
4.1.1.4 tkip
uint16_t _Cipher_t::tkip
1 bit value can be set for tkip
4.1.1.5 ccmp
uint16_t _Cipher_t::ccmp
1 bit valuecan be set for ccmp
4.1.1.6 aes_128_cmac
uint16_t _Cipher_t::aes_128_cmac
1 bit valuecan be set for aes 128 cmac
4.1.1.7 gcmp
uint16_t _Cipher_t::gcmp
1 bit value can be set for gcmp
4.1.1.8 sms4
uint16_t _Cipher_t::sms4
1 bit value can be set for sms4
4.1.1.9 gcmp_256
```



uint16_t _Cipher_t::gcmp_256

1 bit value can be set for gcmp 256

```
4.1.1.10 ccmp_256
uint16_t _Cipher_t::ccmp_256
1 bit valuecan be set for ccmp 256
4.1.1.11 rsvd
uint16_t _Cipher_t::rsvd
1 bit is reserved
4.1.1.12 bip_gmac_128
uint16_t _Cipher_t::bip_gmac_128
1 bit value can be set for bip gmac 128
4.1.1.13 bip_gmac_256
uint16_t _Cipher_t::bip_gmac_256
1 bit value can be set for bip gmac 256
4.1.1.14 bip_cmac_256
uint16_t _Cipher_t::bip_cmac_256
1 bit value can be set for bip cmac 256
4.1.1.15 gtk_not_used
uint16_t _Cipher_t::gtk_not_used
1 bit valuecan be set for gtk not used
4.1.1.16 rsvd2
```

4 bits are reserved

uint16_t _Cipher_t::rsvd2

The documentation for this struct was generated from the following file:

· wifi-decl.h



4.2 _SecurityMode_t Struct Reference

Data Fields

```
• uint32_t noRsn: 1
• uint32_t wepStatic: 1
• uint32_t wepDynamic: 1
• uint32_t wpa: 1
• uint32_t wpaNone: 1
• uint32_t wpa2: 1
• uint32_t wpa2_sha256: 1

    uint32_t owe: 1

• uint32_t wpa3_sae: 1
• uint32_t wpa2_entp: 1
• uint32_t wpa2_entp_sha256: 1
• uint32_t ft_1x: 1
uint32_t ft_1x_sha384: 1
uint32_t ft_psk: 1
• uint32_t ft_sae: 1
• uint32_t wpa3_1x_sha256: 1
uint32_t wpa3_1x_sha384: 1

    uint32_t rsvd: 16
```

4.2.1 Field Documentation

uint32_t _SecurityMode_t::noRsn No security

4.2.1.2 wepStatic

4.2.1.1 noRsn

```
uint32_t _SecurityMode_t::wepStatic
```

WEP static

4.2.1.3 wepDynamic

```
uint32_t _SecurityMode_t::wepDynamic
```

WEP dynamic



4.2.1.4 wpa uint32_t _SecurityMode_t::wpa **WPA** 4.2.1.5 wpaNone uint32_t _SecurityMode_t::wpaNone WPA none 4.2.1.6 wpa2 uint32_t _SecurityMode_t::wpa2 WPA 2 4.2.1.7 wpa2_sha256 uint32_t _SecurityMode_t::wpa2_sha256 WPA 2 sha256 4.2.1.8 owe uint32_t _SecurityMode_t::owe OWE 4.2.1.9 wpa3_sae uint32_t _SecurityMode_t::wpa3_sae **WPA3 SAE** 4.2.1.10 wpa2_entp uint32_t _SecurityMode_t::wpa2_entp 802.1x 4.2.1.11 wpa2_entp_sha256



uint32_t _SecurityMode_t::wpa2_entp_sha256



```
4.2.1.12 ft_1x
uint32_t _SecurityMode_t::ft_1x
FT 802.1x
4.2.1.13 ft_1x_sha384
uint32_t _SecurityMode_t::ft_1x_sha384
FT 802.1x sha384
4.2.1.14 ft_psk
uint32_t _SecurityMode_t::ft_psk
FT PSK
4.2.1.15 ft_sae
uint32_t _SecurityMode_t::ft_sae
FT SAE
4.2.1.16 wpa3_1x_sha256
uint32_t _SecurityMode_t::wpa3_1x_sha256
WPA3 802.1x sha256
4.2.1.17 wpa3_1x_sha384
uint32_t _SecurityMode_t::wpa3_1x_sha384
WPA3 802.1x sha384
4.2.1.18 rsvd
uint32_t _SecurityMode_t::rsvd
```

Reserved 16 bits

The documentation for this struct was generated from the following file:

· wifi-decl.h



4.3 BandConfig_t Struct Reference

Data Fields

- ChanBand e chanBand: 2
- ChanWidth_e chanWidth: 2
- Chan2Offset_e chan2Offset: 2
- ScanMode_e scanMode: 2

4.3.1 Field Documentation

4.3.1.1 chanBand

ChanBand_e BandConfig_t::chanBand

4.3.1.2 chanWidth

ChanWidth_e BandConfig_t::chanWidth

4.3.1.3 chan2Offset

Chan2Offset_e BandConfig_t::chan2Offset

4.3.1.4 scanMode

ScanMode_e BandConfig_t::scanMode

The documentation for this struct was generated from the following file:

• wlan.h

4.4 ChanBandInfo_t Struct Reference

Data Fields

- BandConfig_t bandConfig
- uint8_t chanNum



4.4.1 Field Documentation

4.4.1.1 bandConfig

```
BandConfig_t ChanBandInfo_t::bandConfig
```

4.4.1.2 chanNum

```
uint8_t ChanBandInfo_t::chanNum
```

The documentation for this struct was generated from the following file:

· wlan.h

4.5 cli_command Struct Reference

Data Fields

- const char * name
- const char * help
- void(* function)(int argc, char **argv)

4.5.1 Detailed Description

Structure for registering CLI commands

4.5.2 Field Documentation

```
4.5.2.1 name
```

```
const char* cli_command::name
```

The name of the CLI command

4.5.2.2 help

```
const char* cli_command::help
```

The help text associated with the command



4.5.2.3 function

```
void(* cli_command::function) (int argc, char **argv)
```

The function that should be invoked for this command.

The documentation for this struct was generated from the following file:

• cli.h

4.6 csi_local_buff_statu Struct Reference

Public Member Functions

OSA_SEMAPHORE_HANDLE_DEFINE (csi_data_sem)

Data Fields

- t_u8 write_index
- t_u8 read_index
- t_u8 valid_data_cnt

4.6.1 Member Function Documentation

4.6.1.1 OSA_SEMAPHORE_HANDLE_DEFINE()

Semaphore to protect data parameters

4.6.2 Field Documentation

4.6.2.1 write_index

```
t_u8 csi_local_buff_statu::write_index
```



4.6.2.2 read_index

t_u8 csi_local_buff_statu::read_index

4.6.2.3 valid_data_cnt

```
t_u8 csi_local_buff_statu::valid_data_cnt
```

The documentation for this struct was generated from the following file:

· wifi.h

4.7 Event_Radar_Detected_Info Struct Reference

Data Fields

- t_u32 detect_count
- t_u8 reg_domain
- t_u8 main_det_type
- t_u16 pw_chirp_type
- t_u8 pw_chirp_idx
- t_u8 pw_value
- t_u8 pri_radar_type
- t_u8 pri_binCnt
- t_u8 binCounter [BIN_COUNTER_LEN]
- t_u8 numDfsRecords
- t_u8 dfsRecordHdrs [DFS_REC_HDR_NUM][DFS_REC_HDR_LEN]
- t_u32 reallyPassed

4.7.1 Field Documentation

4.7.1.1 detect_count

t_u32 Event_Radar_Detected_Info::detect_count

4.7.1.2 reg_domain

t_u8 Event_Radar_Detected_Info::reg_domain



4.7.1.3 main_det_type

t_u8 Event_Radar_Detected_Info::main_det_type

4.7.1.4 pw_chirp_type

t_u16 Event_Radar_Detected_Info::pw_chirp_type

4.7.1.5 pw_chirp_idx

t_u8 Event_Radar_Detected_Info::pw_chirp_idx

4.7.1.6 pw_value

t_u8 Event_Radar_Detected_Info::pw_value

4.7.1.7 pri_radar_type

t_u8 Event_Radar_Detected_Info::pri_radar_type

4.7.1.8 pri_binCnt

t_u8 Event_Radar_Detected_Info::pri_binCnt

4.7.1.9 binCounter

t_u8 Event_Radar_Detected_Info::binCounter[BIN_COUNTER_LEN]

4.7.1.10 numDfsRecords

t_u8 Event_Radar_Detected_Info::numDfsRecords



4.7.1.11 dfsRecordHdrs

t_u8 Event_Radar_Detected_Info::dfsRecordHdrs[DFS_REC_HDR_NUM][DFS_REC_HDR_LEN]

4.7.1.12 reallyPassed

```
t_u32 Event_Radar_Detected_Info::reallyPassed
```

The documentation for this struct was generated from the following file:

· wlan.h

4.8 ipv4_config Struct Reference

Data Fields

- enum address_types addr_type
- unsigned address
- unsigned gw
- · unsigned netmask
- unsigned dns1
- unsigned dns2

4.8.1 Detailed Description

This data structure represents an IPv4 address

4.8.2 Field Documentation

4.8.2.1 addr_type

```
enum address_types ipv4_config::addr_type
```

Set to ADDR_TYPE_DHCP to use DHCP to obtain the IP address or ADDR_TYPE_STATIC to use a static IP. In case of static IP address ip, gw, netmask and dns members must be specified. When using DHCP, the ip, gw, netmask and dns are overwritten by the values obtained from the DHCP server. They should be zeroed out if not used.

4.8.2.2 address

unsigned ipv4_config::address

The system's IP address in network order.



4.8.2.3 gw

unsigned ipv4_config::gw

The system's default gateway in network order.

4.8.2.4 netmask

unsigned ipv4_config::netmask

The system's subnet mask in network order.

4.8.2.5 dns1

unsigned ipv4_config::dns1

The system's primary dns server in network order.

4.8.2.6 dns2

unsigned ipv4_config::dns2

The system's secondary dns server in network order.

The documentation for this struct was generated from the following file:

• wlan.h

4.9 ipv6_config Struct Reference

Data Fields

- unsigned address [4]
- unsigned char addr_type
- unsigned char addr_state

4.9.1 Detailed Description

This data structure represents an IPv6 address

4.9.2 Field Documentation



4.9.2.1 address

```
unsigned ipv6_config::address[4]
```

The system's IPv6 address in network order.

4.9.2.2 addr_type

```
unsigned char ipv6_config::addr_type
```

The address type: linklocal, site-local or global.

4.9.2.3 addr_state

```
unsigned char ipv6_config::addr_state
```

The state of IPv6 address (Tentative, Preferred, etc).

The documentation for this struct was generated from the following file:

· wlan.h

4.10 net_ip_config Struct Reference

Data Fields

- struct net_ipv6_config ipv6 [CONFIG_MAX_IPV6_ADDRESSES]
- size_t ipv6_count
- · struct net_ipv4_config ipv4

4.10.1 Detailed Description

Network IP configuration.

This data structure represents the network IP configuration for IPv4 as well as IPv6 addresses

4.10.2 Field Documentation

4.10.2.1 ipv6

```
struct net_ipv6_config net_ip_config::ipv6[CONFIG_MAX_IPV6_ADDRESSES]
```

The network IPv6 address configuration that should be associated with this interface.



4.10.2.2 ipv6_count

```
size_t net_ip_config::ipv6_count
```

The network IPv6 valid addresses count

4.10.2.3 ipv4

```
struct net_ipv4_config net_ip_config::ipv4
```

The network IPv4 address configuration that should be associated with this interface.

The documentation for this struct was generated from the following file:

• wm_net.h

4.11 net_ipv4_config Struct Reference

Data Fields

- · enum net_address_types addr_type
- · unsigned address
- · unsigned gw
- · unsigned netmask
- unsigned dns1
- unsigned dns2

4.11.1 Detailed Description

This data structure represents an IPv4 address

4.11.2 Field Documentation

4.11.2.1 addr_type

```
enum net_address_types net_ipv4_config::addr_type
```

Set to ADDR_TYPE_DHCP to use DHCP to obtain the IP address or ADDR_TYPE_STATIC to use a static IP. In case of static IP address ip, gw, netmask and dns members must be specified. When using DHCP, the ip, gw, netmask and dns are overwritten by the values obtained from the DHCP server. They should be zeroed out if not used.



4.11.2.2 address

```
unsigned net_ipv4_config::address
```

The system's IP address in network order.

4.11.2.3 gw

```
unsigned net_ipv4_config::gw
```

The system's default gateway in network order.

4.11.2.4 netmask

```
unsigned net_ipv4_config::netmask
```

The system's subnet mask in network order.

4.11.2.5 dns1

```
unsigned net_ipv4_config::dns1
```

The system's primary dns server in network order.

4.11.2.6 dns2

```
unsigned net_ipv4_config::dns2
```

The system's secondary dns server in network order.

The documentation for this struct was generated from the following file:

• wm_net.h

4.12 net_ipv6_config Struct Reference

Data Fields

- unsigned address [4]
- unsigned char addr_type
- unsigned char addr_state

4.12.1 Detailed Description

This data structure represents an IPv6 address



4.12.2 Field Documentation

4.12.2.1 address

```
unsigned net_ipv6_config::address[4]
```

The system's IPv6 address in network order.

4.12.2.2 addr_type

```
unsigned char net_ipv6_config::addr_type
```

The address type: linklocal, site-local or global.

4.12.2.3 addr_state

```
unsigned char net_ipv6_config::addr_state
```

The state of IPv6 address (Tentative, Preferred, etc).

The documentation for this struct was generated from the following file:

wm_net.h

4.13 osa_rw_lock_t Struct Reference

Public Member Functions

- OSA_MUTEX_HANDLE_DEFINE (reader_mutex)
- OSA_MUTEX_HANDLE_DEFINE (write_mutex)
- OSA_SEMAPHORE_HANDLE_DEFINE (rw_lock)

Data Fields

- · cb_fn reader_cb
- unsigned int reader_count

4.13.1 Member Function Documentation



4.13.1.1 OSA_MUTEX_HANDLE_DEFINE() [1/2]

Mutex for reader mutual exclusion

4.13.1.2 OSA_MUTEX_HANDLE_DEFINE() [2/2]

Mutex for write mutual exclusion

4.13.1.3 OSA_SEMAPHORE_HANDLE_DEFINE()

Lock which when held by reader, writer cannot enter critical section

4.13.2 Field Documentation

4.13.2.1 reader_cb

```
cb_fn osa_rw_lock_t::reader_cb
```

Function being called when first reader gets the lock

4.13.2.2 reader_count

```
unsigned int osa_rw_lock_t::reader_count
```

Counter to maintain number of readers in critical section

The documentation for this struct was generated from the following file:

• osa.h

4.14 test_cfg_param_t Struct Reference

Data Fields

- const char * name
- int offset
- int len
- const char * notes



4.14.1 Field Documentation

4.14.1.1 name

const char* test_cfg_param_t::name

4.14.1.2 offset

int test_cfg_param_t::offset

4.14.1.3 len

int test_cfg_param_t::len

4.14.1.4 notes

const char* test_cfg_param_t::notes

The documentation for this struct was generated from the following file:

• wlan_tests.h

4.15 test_cfg_table_t Struct Reference

Data Fields

- const char * name
- uint8_t * data
- int len
- const test_cfg_param_t * param_list
- int param_num

4.15.1 Field Documentation



4.15.1.1 name

const char* test_cfg_table_t::name

4.15.1.2 data

uint8_t* test_cfg_table_t::data

4.15.1.3 len

int test_cfg_table_t::len

4.15.1.4 param_list

const test_cfg_param_t* test_cfg_table_t::param_list

4.15.1.5 param_num

int test_cfg_table_t::param_num

The documentation for this struct was generated from the following file:

• wlan_tests.h

4.16 tx_ampdu_prot_mode_para Struct Reference

Data Fields

• int mode

4.16.1 Detailed Description

tx_ampdu_prot_mode parameters



4.16.2 Field Documentation

4.16.2.1 mode

int tx_ampdu_prot_mode_para::mode

set prot mode

The documentation for this struct was generated from the following file:

· wlan.h

4.17 txrate_setting Struct Reference

Data Fields

- t_u16 preamble: 2
- t_u16 bandwidth: 3
- t_u16 shortGI: 2
- t_u16 stbc: 1
- t_u16 dcm: 1
- t_u16 adv_coding: 1
- t_u16 doppler: 2
- t_u16 max_pktext: 2
- t_u16 reserverd: 2

4.17.1 Detailed Description

TX Rate Setting

4.17.2 Field Documentation

4.17.2.1 preamble

t_u16 txrate_setting::preamble

Preamble

4.17.2.2 bandwidth

t_u16 txrate_setting::bandwidth

Bandwidth



```
4.17.2.3 shortGI
t_u16 txrate_setting::shortGI
Short GI
4.17.2.4 stbc
t_u16 txrate_setting::stbc
STBC
4.17.2.5 dcm
t_u16 txrate_setting::dcm
DCM
4.17.2.6 adv_coding
t_u16 txrate_setting::adv_coding
Adv coding
4.17.2.7 doppler
t_u16 txrate_setting::doppler
Doppler
4.17.2.8 max_pktext
t_u16 txrate_setting::max_pktext
Max PK text
4.17.2.9 reserverd
t_u16 txrate_setting::reserverd
Reserved
```

• wifi-decl.h

The documentation for this struct was generated from the following file:



4.18 wifi_11ax_config_t Struct Reference

Data Fields

- t_u8 band
- t_u16 id
- t_u16 len
- t_u8 ext_id
- t_u8 he_mac_cap [6]
- t_u8 he_phy_cap [11]
- t_u8 he_txrx_mcs_support [4]
- t_u8 val [4]

4.18.1 Detailed Description

Wi-Fi 11AX Configuration

4.18.2 Field Documentation

4.18.2.1 band

t_u8 wifi_11ax_config_t::band

Band

4.18.2.2 id

t_u16 wifi_11ax_config_t::id

tlv id of he capability

4.18.2.3 len

t_u16 wifi_11ax_config_t::len

length of the payload

4.18.2.4 ext_id

t_u8 wifi_11ax_config_t::ext_id

extension id



```
4.18.2.5 he_mac_cap

t_u8 wifi_11ax_config_t::he_mac_cap[6]

he mac capability info

4.18.2.6 he_phy_cap

t_u8 wifi_11ax_config_t::he_phy_cap[11]

he phy capability info

4.18.2.7 he_txrx_mcs_support
```

4.10.2.7 IIC_txtx_IIIC3_3upport

```
t_u8 wifi_11ax_config_t::he_txrx_mcs_support[4]
```

he txrx mcs support for 80MHz

4.18.2.8 val

```
t_u8 wifi_11ax_config_t::val[4]
```

val for PE thresholds

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.19 wifi_antcfg_t Struct Reference

Data Fields

- t_u32 * ant_mode
- t_u16 * evaluate_time
- t u16 * current antenna

4.19.1 Detailed Description

Type definition of wifi_antcfg_t

4.19.2 Field Documentation



4.19.2.1 ant_mode

t_u32* wifi_antcfg_t::ant_mode

Antenna Mode

4.19.2.2 evaluate_time

t_u16* wifi_antcfg_t::evaluate_time

Evaluate Time

4.19.2.3 current_antenna

t_u16* wifi_antcfg_t::current_antenna

Current antenna

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.20 wifi_auto_reconnect_config_t Struct Reference

Data Fields

- t_u8 reconnect_counter
- t_u8 reconnect_interval
- t_u16 flags

4.20.1 Detailed Description

Auto reconnect structure

4.20.2 Field Documentation

4.20.2.1 reconnect_counter

t_u8 wifi_auto_reconnect_config_t::reconnect_counter

Reconnect counter



4.20.2.2 reconnect_interval

```
t_u8 wifi_auto_reconnect_config_t::reconnect_interval
```

Reconnect interval

4.20.2.3 flags

```
t_u16 wifi_auto_reconnect_config_t::flags
```

Flags

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.21 wifi_bandcfg_t Struct Reference

Data Fields

- t_u16 config_bands
- t_u16 fw_bands

4.21.1 Detailed Description

Type definition of wifi_bandcfg_t

4.21.2 Field Documentation

4.21.2.1 config_bands

```
t_u16 wifi_bandcfg_t::config_bands
```

Infra band

4.21.2.2 fw_bands

```
t_u16 wifi_bandcfg_t::fw_bands
```

fw supported band

The documentation for this struct was generated from the following file:

· wifi-decl.h



4.22 wifi_btwt_config_t Struct Reference

Data Fields

- t_u16 action
- t_u16 sub_id
- t_u8 nominal_wake
- t_u8 max_sta_support
- t_u16 twt_mantissa
- t_u16 twt_offset
- t_u8 twt_exponent
- t_u8 sp_gap

4.22.1 Detailed Description

Wi-Fi BTWT Configuration

4.22.2 Field Documentation

4.22.2.1 action

 $t_ul6 \ wifi_btwt_config_t::action$

Only support 1: Set

4.22.2.2 sub_id

t_u16 wifi_btwt_config_t::sub_id

Broadcast TWT AP config

4.22.2.3 nominal_wake

t_u8 wifi_btwt_config_t::nominal_wake

Range 64-255

4.22.2.4 max_sta_support

t_u8 wifi_btwt_config_t::max_sta_support

Max STA Support



4.22.2.5 twt_mantissa

t_u16 wifi_btwt_config_t::twt_mantissa

TWT Mantissa

4.22.2.6 twt_offset

t_u16 wifi_btwt_config_t::twt_offset

TWT Offset

4.22.2.7 twt_exponent

t_u8 wifi_btwt_config_t::twt_exponent

TWT Exponent

4.22.2.8 sp_gap

t_u8 wifi_btwt_config_t::sp_gap

SP Gap

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.23 wifi_cal_data_t Struct Reference

Data Fields

- t_u16 data_len
- t_u8 * data

4.23.1 Detailed Description

Calibration Data

4.23.2 Field Documentation



4.23.2.1 data_len

t_u16 wifi_cal_data_t::data_len

Calibration data length

4.23.2.2 data

t_u8* wifi_cal_data_t::data

Calibration data

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.24 wifi_chan_info_t Struct Reference

Data Fields

- t_u8 chan_num
- t_u16 chan_freq
- bool passive_scan_or_radar_detect

4.24.1 Detailed Description

Data structure for Channel attributes

4.24.2 Field Documentation

4.24.2.1 chan_num

t_u8 wifi_chan_info_t::chan_num

Channel Number

4.24.2.2 chan_freq

t_u16 wifi_chan_info_t::chan_freq

Channel frequency for this channel



4.24.2.3 passive_scan_or_radar_detect

```
bool wifi_chan_info_t::passive_scan_or_radar_detect
```

Passice Scan or RADAR Detect

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.25 wifi_chan_list_param_set_t Struct Reference

Data Fields

- t_u8 no_of_channels
- wifi_chan_scan_param_set_t chan_scan_param [1]

4.25.1 Detailed Description

Channel list parameter set

4.25.2 Field Documentation

4.25.2.1 no_of_channels

```
t_u8 wifi_chan_list_param_set_t::no_of_channels
```

number of channels

4.25.2.2 chan_scan_param

```
\label{limits} {\tt wifi\_chan\_scan\_param\_set\_t} \ {\tt wifi\_chan\_list\_param\_set\_t::chan\_scan\_param[1]}
```

channel scan array

The documentation for this struct was generated from the following file:

• wifi-decl.h



4.26 wifi_chan_scan_param_set_t Struct Reference

Data Fields

- t_u8 chan_number
- t_u16 min_scan_time
- t_u16 max_scan_time

4.26.1 Detailed Description

Channel scan parameters

4.26.2 Field Documentation

4.26.2.1 chan_number

t_u8 wifi_chan_scan_param_set_t::chan_number

channel number

4.26.2.2 min_scan_time

t_u16 wifi_chan_scan_param_set_t::min_scan_time

minimum scan time

4.26.2.3 max_scan_time

t_u16 wifi_chan_scan_param_set_t::max_scan_time

maximum scan time

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.27 wifi_chanlist_t Struct Reference

Data Fields

- t_u8 num_chans
- wifi_chan_info_t chan_info [54]



4.27.1 Detailed Description

Data structure for Channel List Config

4.27.2 Field Documentation

4.27.2.1 num_chans

t_u8 wifi_chanlist_t::num_chans

Number of Channels

4.27.2.2 chan_info

wifi_chan_info_t wifi_chanlist_t::chan_info[54]

Channel Info

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.28 wifi_channel_desc_t Struct Reference

Data Fields

- t_u16 start_freq
- t_u8 chan_width
- t_u8 chan_num

4.28.1 Detailed Description

Data structure for Channel descriptor

Set CFG data for Tx power limitation

start_freq: Starting Frequency of the band for this channel

2407, 2414 or 2400 for 2.4 GHz

5000 4000

chan_width: Channel Width

20

chan_num : Channel Number



4.28.2 Field Documentation

4.28.2.1 start_freq

t_u16 wifi_channel_desc_t::start_freq

Starting frequency of the band for this channel

4.28.2.2 chan_width

t_u8 wifi_channel_desc_t::chan_width

Channel width

4.28.2.3 chan_num

t_u8 wifi_channel_desc_t::chan_num

Channel Number

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.29 wifi_clock_sync_gpio_tsf_t Struct Reference

Data Fields

- t_u8 clock_sync_mode
- t_u8 clock_sync_Role
- t_u8 clock_sync_gpio_pin_number
- t_u8 clock_sync_gpio_level_toggle
- t_u16 clock_sync_gpio_pulse_width

4.29.1 Detailed Description

Wi-Fi Clock sync configuration

4.29.2 Field Documentation



4.29.2.1 clock_sync_mode t_u8 wifi_clock_sync_gpio_tsf_t::clock_sync_mode clock sync Mode 4.29.2.2 clock_sync_Role t_u8 wifi_clock_sync_gpio_tsf_t::clock_sync_Role

4.29.2.3 clock_sync_gpio_pin_number

t_u8 wifi_clock_sync_gpio_tsf_t::clock_sync_gpio_pin_number

clock sync GPIO Pin Number

clock sync Role

4.29.2.4 clock_sync_gpio_level_toggle

t_u8 wifi_clock_sync_gpio_tsf_t::clock_sync_gpio_level_toggle

clock sync GPIO Level or Toggle

4.29.2.5 clock_sync_gpio_pulse_width

t_u16 wifi_clock_sync_gpio_tsf_t::clock_sync_gpio_pulse_width

clock sync GPIO Pulse Width

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.30 wifi_cloud_keep_alive_t Struct Reference

Data Fields

- t_u8 mkeep_alive_id
- t_u8 enable
- t_u8 reset
- t u8 cached
- t_u32 send_interval
- t_u16 retry_interval
- t_u16 retry_count
- t_u8 src_mac [MLAN_MAC_ADDR_LENGTH]
- t_u8 dst_mac [MLAN_MAC_ADDR_LENGTH]
- t_u32 src_ip
- t u32 dst ip
- t_u16 src_port
- t u16 dst port
- t_u16 pkt_len
- t_u8 packet [MKEEP_ALIVE_IP_PKT_MAX]



4.30.1 Detailed Description

Cloud keep alive information

4.30.2 Field Documentation

4.30.2.1 mkeep_alive_id

t_u8 wifi_cloud_keep_alive_t::mkeep_alive_id

Keep alive id

4.30.2.2 enable

t_u8 wifi_cloud_keep_alive_t::enable

Enable keep alive

4.30.2.3 reset

t_u8 wifi_cloud_keep_alive_t::reset

Enable/Disable tcp reset

4.30.2.4 cached

t_u8 wifi_cloud_keep_alive_t::cached

Saved in driver

4.30.2.5 send_interval

t_u32 wifi_cloud_keep_alive_t::send_interval

Period to send keep alive packet(The unit is milliseconds)

4.30.2.6 retry_interval

t_u16 wifi_cloud_keep_alive_t::retry_interval

Period to send retry packet(The unit is milliseconds)



```
4.30.2.7 retry_count
t_u16 wifi_cloud_keep_alive_t::retry_count
Count to send retry packet
4.30.2.8 src_mac
t_u8 wifi_cloud_keep_alive_t::src_mac[MLAN_MAC_ADDR_LENGTH]
Source MAC address
4.30.2.9 dst_mac
t_u8 wifi_cloud_keep_alive_t::dst_mac[MLAN_MAC_ADDR_LENGTH]
Destination MAC address
4.30.2.10 src_ip
t_u32 wifi_cloud_keep_alive_t::src_ip
Source IP
4.30.2.11 dst_ip
t_u32 wifi_cloud_keep_alive_t::dst_ip
Destination IP
4.30.2.12 src_port
t_u16 wifi_cloud_keep_alive_t::src_port
Source Port
4.30.2.13 dst_port
t_u16 wifi_cloud_keep_alive_t::dst_port
Destination Port
4.30.2.14 pkt_len
t_u16 wifi_cloud_keep_alive_t::pkt_len
```



Packet length

4.30.2.15 packet

```
t_u8 wifi_cloud_keep_alive_t::packet[MKEEP_ALIVE_IP_PKT_MAX]
```

Packet buffer

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.31 wifi_csi_config_params_t Struct Reference

Data Fields

- t_u8 bss_type
- t_u16 csi_enable
- t_u32 head_id
- t_u32 tail_id
- t_u8 csi_filter_cnt
- t_u8 chip_id
- t_u8 band_config
- t_u8 channel
- t_u8 csi_monitor_enable
- t_u8 ra4us
- wifi_csi_filter_t csi_filter [CSI_FILTER_MAX]

4.31.1 Detailed Description

Structure of CSI parameters

4.31.2 Field Documentation

4.31.2.1 bss_type

t_u8 wifi_csi_config_params_t::bss_type

4.31.2.2 csi_enable

t_u16 wifi_csi_config_params_t::csi_enable

CSI enable flag. 1: enable, 2: disable



```
4.31.2.3 head_id
t_u32 wifi_csi_config_params_t::head_id
Header ID
4.31.2.4 tail_id
t_u32 wifi_csi_config_params_t::tail_id
Tail ID
4.31.2.5 csi_filter_cnt
t_u8 wifi_csi_config_params_t::csi_filter_cnt
Number of CSI filters
4.31.2.6 chip_id
t_u8 wifi_csi_config_params_t::chip_id
Chip ID
4.31.2.7 band_config
t_u8 wifi_csi_config_params_t::band_config
band config
4.31.2.8 channel
t_u8 wifi_csi_config_params_t::channel
Channel num
4.31.2.9 csi_monitor_enable
t_u8 wifi_csi_config_params_t::csi_monitor_enable
Enable getting CSI data on special channel
4.31.2.10 ra4us
t_u8 wifi_csi_config_params_t::ra4us
```

CSI data received in cfg channel with mac addr filter, not only RA is us or other



4.31.2.11 csi_filter

wifi_csi_filter_t wifi_csi_config_params_t::csi_filter[CSI_FILTER_MAX]

CSI filters

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.32 wifi_csi_filter_t Struct Reference

Data Fields

- t_u8 mac_addr [MLAN_MAC_ADDR_LENGTH]
- t_u8 pkt_type
- t_u8 subtype
- t_u8 flags

4.32.1 Detailed Description

Structure of CSI filters

4.32.2 Field Documentation

4.32.2.1 mac_addr

t_u8 wifi_csi_filter_t::mac_addr[MLAN_MAC_ADDR_LENGTH]

Source address of the packet to receive

4.32.2.2 pkt_type

t_u8 wifi_csi_filter_t::pkt_type

Pakcet type of the interested CSI

4.32.2.3 subtype

t_u8 wifi_csi_filter_t::subtype

Packet subtype of the interested CSI



4.32.2.4 flags

t_u8 wifi_csi_filter_t::flags

Other filter flags

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.33 wifi_cw_mode_ctrl_t Struct Reference

Data Fields

- t_u8 mode
- t_u8 channel
- t u8 chanInfo
- t_u16 txPower
- t_u16 pktLength
- t_u32 rateInfo

4.33.1 Detailed Description

CW_MODE_CTRL structure

4.33.2 Field Documentation

```
4.33.2.1 mode
```

t_u8 wifi_cw_mode_ctrl_t::mode

Mode of Operation 0:Disable 1: Tx Continuous Packet 2: Tx Continuous Wave

4.33.2.2 channel

t_u8 wifi_cw_mode_ctrl_t::channel

channel

4.33.2.3 chanInfo

t_u8 wifi_cw_mode_ctrl_t::chanInfo

channel info



4.33.2.4 txPower

t_u16 wifi_cw_mode_ctrl_t::txPower

Tx Power level in dBm

4.33.2.5 pktLength

t_u16 wifi_cw_mode_ctrl_t::pktLength

Packet Length

4.33.2.6 rateInfo

t_u32 wifi_cw_mode_ctrl_t::rateInfo

bit rate info

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.34 wifi_data_rate_t Struct Reference

Data Fields

- t_u32 tx_data_rate
- t_u32 rx_data_rate
- t_u32 tx_bw
- t u32 tx gi
- t_u32 rx_bw
- t_u32 rx_gi

4.34.1 Detailed Description

Data structure for cmd get data rate

4.34.2 Field Documentation

4.34.2.1 tx_data_rate

t_u32 wifi_data_rate_t::tx_data_rate

Tx data rate



4.34.2.2 rx_data_rate

```
t_u32 wifi_data_rate_t::rx_data_rate
```

Rx data rate

4.34.2.3 tx_bw

```
t_u32 wifi_data_rate_t::tx_bw
```

Tx channel bandwidth

4.34.2.4 tx_gi

```
t_u32 wifi_data_rate_t::tx_gi
```

Tx guard interval

4.34.2.5 rx_bw

```
t_u32 wifi_data_rate_t::rx_bw
```

Rx channel bandwidth

4.34.2.6 rx_gi

```
t_u32 wifi_data_rate_t::rx_gi
```

Rx guard interval

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.35 wifi_ds_rate Struct Reference

Data Fields

- enum wifi_ds_command_type sub_command
- union {
 wifi_rate_cfg_t rate_cfg
 wifi_data_rate_t data_rate
 } param



4.35.1 Detailed Description

Type definition of wifi_ds_rate

4.35.2 Field Documentation

```
4.35.2.1 sub_command
```

```
enum wifi_ds_command_type wifi_ds_rate::sub_command
```

Sub-command

4.35.2.2 rate_cfg

```
wifi_rate_cfg_t wifi_ds_rate::rate_cfg
```

Rate configuration for MLAN_OID_RATE_CFG

4.35.2.3 data_rate

```
wifi_data_rate_t wifi_ds_rate::data_rate
```

Data rate for MLAN_OID_GET_DATA_RATE

4.35.2.4 param

```
union { ... } wifi_ds_rate::param
```

Rate configuration parameter

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.36 wifi_ecsa_info Struct Reference

Data Fields

- t_u8 bss_type
- · t_u8 band_config
- t_u8 channel



4.36.1 Field Documentation

4.36.1.1 bss_type

t_u8 wifi_ecsa_info::bss_type

4.36.1.2 band_config

t_u8 wifi_ecsa_info::band_config

4.36.1.3 channel

t_u8 wifi_ecsa_info::channel

channel

The documentation for this struct was generated from the following file:

• wifi.h

4.37 wifi_ed_mac_ctrl_t Struct Reference

Data Fields

- t_u16 ed_ctrl_2g
- t_s16 ed_offset_2g
- t_u16 ed_ctrl_5g
- t_s16 ed_offset_5g

4.37.1 Detailed Description

Type definition of wifi_ed_mac_ctrl_t

4.37.2 Field Documentation



```
4.37.2.1 ed_ctrl_2g

t_u16 wifi_ed_mac_ctrl_t::ed_ctrl_2g

ED CTRL 2G

4.37.2.2 ed_offset_2g

t_s16 wifi_ed_mac_ctrl_t::ed_offset_2g

ED Offset 2G

4.37.2.3 ed_ctrl_5g

t_u16 wifi_ed_mac_ctrl_t::ed_ctrl_5g

ED CTRL 5G

4.37.2.4 ed_offset_5g

t_s16 wifi_ed_mac_ctrl_t::ed_offset_5g
```

The documentation for this struct was generated from the following file:

• wifi-decl.h

ED Offset 5G

4.38 wifi_ext_coex_config_t Struct Reference

Data Fields

- t_u8 Enabled
- t_u8 IgnorePriority
- t_u8 DefaultPriority
- t_u8 EXT_RADIO_REQ_ip_gpio_num
- t_u8 EXT_RADIO_REQ_ip_gpio_polarity
- t_u8 EXT_RADIO_PRI_ip_gpio_num
- t_u8 EXT_RADIO_PRI_ip_gpio_polarity
- t_u8 WLAN_GRANT_op_gpio_num
- t_u8 WLAN_GRANT_op_gpio_polarity
- t u16 reserved 1
- t_u16 reserved_2

4.38.1 Detailed Description

Type definition of wifi_ext_coex_config_t



4.38.2 Field Documentation

4.38.2.1 Enabled

t_u8 wifi_ext_coex_config_t::Enabled

Enable or disable external coexistence

4.38.2.2 IgnorePriority

t_u8 wifi_ext_coex_config_t::IgnorePriority

Ignore the priority of the external radio request

4.38.2.3 DefaultPriority

t_u8 wifi_ext_coex_config_t::DefaultPriority

Default priority when the priority of the external radio request is ignored

4.38.2.4 EXT_RADIO_REQ_ip_gpio_num

t_u8 wifi_ext_coex_config_t::EXT_RADIO_REQ_ip_gpio_num

Input request GPIO pin for EXT_RADIO_REQ signal

4.38.2.5 EXT_RADIO_REQ_ip_gpio_polarity

t_u8 wifi_ext_coex_config_t::EXT_RADIO_REQ_ip_gpio_polarity

Input request GPIO polarity for EXT_RADIO_REQ signal

4.38.2.6 EXT_RADIO_PRI_ip_gpio_num

t_u8 wifi_ext_coex_config_t::EXT_RADIO_PRI_ip_gpio_num

Input priority GPIO pin for EXT_RADIO_PRI signal

4.38.2.7 EXT_RADIO_PRI_ip_gpio_polarity

t_u8 wifi_ext_coex_config_t::EXT_RADIO_PRI_ip_gpio_polarity

Input priority GPIO polarity for EXT_RADIO_PRI signal



4.38.2.8 WLAN_GRANT_op_gpio_num

t_u8 wifi_ext_coex_config_t::WLAN_GRANT_op_gpio_num

Output grant GPIO pin for WLAN_GRANT signal

4.38.2.9 WLAN_GRANT_op_gpio_polarity

t_u8 wifi_ext_coex_config_t::WLAN_GRANT_op_gpio_polarity

Output grant GPIO polarity of WLAN_GRANT

4.38.2.10 reserved_1

t_u16 wifi_ext_coex_config_t::reserved_1

Reserved Bytes

4.38.2.11 reserved_2

t_u16 wifi_ext_coex_config_t::reserved_2

Reserved Bytes

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.39 wifi_ext_coex_stats_t Struct Reference

Data Fields

- t_u16 ext_radio_req_count
- t_u16 ext_radio_pri_count
- t_u16 wlan_grant_count

4.39.1 Detailed Description

Type definition of wifi_ext_coex_stats_t

4.39.2 Field Documentation



4.39.2.1 ext_radio_req_count

t_u16 wifi_ext_coex_stats_t::ext_radio_req_count

External Radio Request count

4.39.2.2 ext_radio_pri_count

t_u16 wifi_ext_coex_stats_t::ext_radio_pri_count

External Radio Priority count

4.39.2.3 wlan_grant_count

t_u16 wifi_ext_coex_stats_t::wlan_grant_count

WLAN GRANT count

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.40 wifi_flt_cfg_t Struct Reference

Data Fields

- t_u32 criteria
- t_u16 nentries
- wifi_mef_entry_t mef_entry [MAX_NUM_ENTRIES]

4.40.1 Detailed Description

Wifi filter config struct

4.40.2 Field Documentation

4.40.2.1 criteria

t_u32 wifi_flt_cfg_t::criteria

Filter Criteria



4.40.2.2 nentries

```
t_u16 wifi_flt_cfg_t::nentries
```

Number of entries

4.40.2.3 mef_entry

```
wifi_mef_entry_t wifi_flt_cfg_t::mef_entry[MAX_NUM_ENTRIES]
```

MEF entry

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.41 wifi_frame_t Struct Reference

Data Fields

wifi_frame_type_t frame_type

4.41.1 Field Documentation

4.41.1.1 frame_type

```
wifi_frame_type_t wifi_frame_t::frame_type
```

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.42 wifi_fw_version_ext_t Struct Reference

Data Fields

- uint8 t version str sel
- char version_str [MLAN_MAX_VER_STR_LEN]

4.42.1 Detailed Description

Extended Firmware version



4.42.2 Field Documentation

4.42.2.1 version_str_sel

```
uint8_t wifi_fw_version_ext_t::version_str_sel
```

ID for extended version select

4.42.2.2 version_str

```
char wifi_fw_version_ext_t::version_str[MLAN_MAX_VER_STR_LEN]
```

Firmware version string

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.43 wifi_fw_version_t Struct Reference

Data Fields

char version_str [MLAN_MAX_VER_STR_LEN]

4.43.1 Detailed Description

Firmware version

4.43.2 Field Documentation

4.43.2.1 version_str

```
char wifi_fw_version_t::version_str[MLAN_MAX_VER_STR_LEN]
```

Firmware version string

The documentation for this struct was generated from the following file:

· wifi-decl.h



4.44 wifi_indrst_cfg_t Struct Reference

Data Fields

- t_u8 ir_mode
- t_u8 gpio_pin

4.44.1 Detailed Description

Wi-Fi independent reset config

4.44.2 Field Documentation

```
4.44.2.1 ir_mode
```

```
t_u8 wifi_indrst_cfg_t::ir_mode
```

reset mode enable/ disable

4.44.2.2 gpio_pin

```
t_u8 wifi_indrst_cfg_t::gpio_pin
```

gpio pin

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.45 wifi_mac_addr_t Struct Reference

Data Fields

char mac [MLAN_MAC_ADDR_LENGTH]

4.45.1 Detailed Description

MAC address



4.45.2 Field Documentation

4.45.2.1 mac

char wifi_mac_addr_t::mac[MLAN_MAC_ADDR_LENGTH]

Mac address array

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.46 wifi_mef_entry_t Struct Reference

Data Fields

- t_u8 mode
- t_u8 action
- t_u8 filter_num
- wifi_mef_filter_t filter_item [MAX_NUM_FILTERS]
- t_u8 rpn [MAX_NUM_FILTERS]

4.46.1 Detailed Description

MEF entry struct

4.46.2 Field Documentation

4.46.2.1 mode

t_u8 wifi_mef_entry_t::mode

mode: bit0-hostsleep mode; bit1-non hostsleep mode

4.46.2.2 action

t_u8 wifi_mef_entry_t::action

action: 0-discard and not wake host; 1-discard and wake host; 3-allow and wake host;



4.46.2.3 filter_num t_u8 wifi_mef_entry_t::filter_num filter number 4.46.2.4 filter_item wifi_mef_filter_t wifi_mef_entry_t::filter_item[MAX_NUM_FILTERS] filter array 4.46.2.5 rpn

t_u8 wifi_mef_entry_t::rpn[MAX_NUM_FILTERS]

rpn array

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.47 wifi_mef_filter_t Struct Reference

Data Fields

- t_u32 fill_flag
- t_u16 type
- t_u32 pattern
- t_u16 offset
- t_u16 num_bytes
- t_u16 repeat
- t_u8 num_byte_seq
- t_u8 byte_seq [MAX_NUM_BYTE_SEQ]
- t_u8 num_mask_seq
- t_u8 mask_seq [MAX_NUM_MASK_SEQ]

4.47.1 Detailed Description

Type definition of filter_item support three match methods: <1>Byte comparison type=0x41 <2>Decimal comparison type=0x42 <3>Bit comparison type=0x42

4.47.2 Field Documentation



```
4.47.2.1 fill_flag
t_u32 wifi_mef_filter_t::fill_flag
flag
4.47.2.2 type
t_u16 wifi_mef_filter_t::type
BYTE 0X41; Decimal 0X42; Bit 0x43
4.47.2.3 pattern
t_u32 wifi_mef_filter_t::pattern
value
4.47.2.4 offset
t_u16 wifi_mef_filter_t::offset
offset
4.47.2.5 num_bytes
t_u16 wifi_mef_filter_t::num_bytes
number of bytes
4.47.2.6 repeat
t_u16 wifi_mef_filter_t::repeat
repeat
4.47.2.7 num_byte_seq
t_u8 wifi_mef_filter_t::num_byte_seq
byte number
4.47.2.8 byte_seq
t_u8 wifi_mef_filter_t::byte_seq[MAX_NUM_BYTE_SEQ]
```



array

```
4.47.2.9 num_mask_seq

t_u8 wifi_mef_filter_t::num_mask_seq

mask numbers

4.47.2.10 mask_seq

t_u8 wifi_mef_filter_t::mask_seq[MAX_NUM_MASK_SEQ]
array
```

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.48 wifi_message Struct Reference

Data Fields

- uint16_t event
- enum wifi_event_reason reason
- void * data

4.48.1 Field Documentation

4.48.1.1 event

uint16_t wifi_message::event

4.48.1.2 reason

 $\verb"enum wifi_event_reason wifi_message::reason"$

4.48.1.3 data

void* wifi_message::data

The documentation for this struct was generated from the following file:

• wifi-decl.h



4.49 wifi_mfg_cmd_generic_cfg_t Struct Reference

Data Fields

- t_u32 mfg_cmd
- t_u16 action
- t_u16 device_id
- t_u32 error
- t_u32 data1
- t_u32 data2
- t_u32 data3

4.49.1 Detailed Description

Configuration for Manufacturing generic command

4.49.2 Field Documentation

```
4.49.2.1 mfg_cmd
```

t_u32 wifi_mfg_cmd_generic_cfg_t::mfg_cmd

MFG command code

4.49.2.2 action

t_u16 wifi_mfg_cmd_generic_cfg_t::action

Action

4.49.2.3 device_id

t_u16 wifi_mfg_cmd_generic_cfg_t::device_id

Device ID

4.49.2.4 error

t_u32 wifi_mfg_cmd_generic_cfg_t::error

MFG Error code



4.49.2.5 data1

t_u32 wifi_mfg_cmd_generic_cfg_t::data1

value 1

4.49.2.6 data2

t_u32 wifi_mfg_cmd_generic_cfg_t::data2

value 2

4.49.2.7 data3

t_u32 wifi_mfg_cmd_generic_cfg_t::data3

value 3

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.50 wifi_mfg_cmd_he_tb_tx_t Struct Reference

Data Fields

- t_u32 mfg_cmd
- t_u16 action
- t_u16 device_id
- t_u32 error
- t_u16 enable
- t_u16 qnum
- t_u16 aid
- t_u16 axq_mu_timer
- t_s16 tx_power

4.50.1 Field Documentation

4.50.1.1 mfg_cmd

t_u32 wifi_mfg_cmd_he_tb_tx_t::mfg_cmd

MFG command code



```
4.50.1.2 action
t_u16 wifi_mfg_cmd_he_tb_tx_t::action
Action
4.50.1.3 device_id
t_u16 wifi_mfg_cmd_he_tb_tx_t::device_id
Device ID
4.50.1.4 error
t_u32 wifi_mfg_cmd_he_tb_tx_t::error
MFG Error code
4.50.1.5 enable
t_u16 wifi_mfg_cmd_he_tb_tx_t::enable
Enable Tx
4.50.1.6 qnum
t_u16 wifi_mfg_cmd_he_tb_tx_t::qnum
Q num
4.50.1.7 aid
t_u16 wifi_mfg_cmd_he_tb_tx_t::aid
AID
```

4.50.1.8 axq_mu_timer

 $\verb|t_u16| wifi_mfg_cmd_he_tb_tx_t:: axq_mu_timer|$

AXQ Mu Timer



4.50.1.9 tx_power

```
t_s16 wifi_mfg_cmd_he_tb_tx_t::tx_power
```

Tx Power

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.51 wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t Struct Reference

Data Fields

- t_u32 mfg_cmd
- t_u16 action
- t u16 device id
- t u32 error
- t_u32 enable_tx
- t_u32 standalone_hetb
- mfg_cmd_IEEEtypes_FrameCtrl_t frmCtl
- t u16 duration
- t_u8 dest_addr [MLAN_MAC_ADDR_LENGTH]
- t_u8 src_addr [MLAN_MAC_ADDR_LENGTH]
- mfg_cmd_IEEEtypes_HETrigComInfo_t trig_common_field
- mfg_cmd_IEEEtypes_HETrigUserInfo_t trig_user_info_field
- mfg_cmd_IEEETypes_BasicHETrigUserInfo_t basic_trig_user_info

4.51.1 Field Documentation

4.51.1.1 mfg_cmd

 $\verb|t_u32| wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t:: mfg_cmd|$

MFG command code

4.51.1.2 action

t_u16 wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::action

Action



```
4.51.1.3 device_id
t_u16 wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::device_id
Device ID
4.51.1.4 error
\verb|t_u32| wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::error|\\
MFG Error code
4.51.1.5 enable_tx
t_u32 wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::enable_tx
enable Tx
4.51.1.6 standalone_hetb
t_u32 wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::standalone_hetb
enable Stand Alone HE TB
4.51.1.7 frmCtl
\verb|mfg_cmd_IEEEtypes_FrameCtrl_t| wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::frmCtl| wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::frmCtl| wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::frmCtl| wifi_mfg_cmd_IEEE[frameCtrl_t] wifi_mfg_cmd_IEE[frameCtrl_t] wifi_mfg_cmd_IEE[frameCtrl_t] wifi_mfg_cmd_IEE[frameCtrl_t] wifi_mfg_cmd_IEE[frameCtrl_t] wifi_mfg_cmd_IEE[frameCtrl_t] wifi_mfg_cmd_IEE[frameCtrl_t] wifi_mfg_cmd_IEE[frameCtrl_t] wifi_mfg
Frame Control
4.51.1.8 duration
t_u16 wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::duration
Duration
4.51.1.9 dest_addr
\verb|t_u8| wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::dest_addr[MLAN_MAC_ADDR_LENGTH]|
Destination MAC Address
4.51.1.10 src_addr
t_u8 wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::src_addr[MLAN_MAC_ADDR_LENGTH]
```



Source MAC Address

4.51.1.11 trig_common_field

 $\verb|mfg_cmd_IEEEtypes_HETrigComInfo_t| wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::trig_common_field| wifi_mfg_cmd_IEEETypes_CtlBasicTrigHdr_t::trig_common_f$

Common Info Field

4.51.1.12 trig_user_info_field

 $\label{lem:mfg_cmd_IEEE} $$ mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t::trig_user_info_{\longleftrightarrow} field $$$

User Info Field

4.51.1.13 basic_trig_user_info

Trigger Dependent User Info Field

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.52 wifi_mfg_cmd_otp_cal_data_rd_wr_t Struct Reference

Data Fields

- t_u32 mfg_cmd
- t_u16 action
- t_u16 device_id
- t_u32 error
- t_u32 cal_data_status
- t_u32 cal_data_len
- t_u8 cal_data [CAL_DATA_LEN]

4.52.1 Field Documentation

4.52.1.1 mfg_cmd

t_u32 wifi_mfg_cmd_otp_cal_data_rd_wr_t::mfg_cmd

MFG command code



4.52.1.2 action t_u16 wifi_mfg_cmd_otp_cal_data_rd_wr_t::action Action 4.52.1.3 device_id t_u16 wifi_mfg_cmd_otp_cal_data_rd_wr_t::device_id Device ID 4.52.1.4 error t_u32 wifi_mfg_cmd_otp_cal_data_rd_wr_t::error MFG Error code 4.52.1.5 cal_data_status t_u32 wifi_mfg_cmd_otp_cal_data_rd_wr_t::cal_data_status CAL Data write status

4.52.1.6 cal_data_len

t_u32 wifi_mfg_cmd_otp_cal_data_rd_wr_t::cal_data_len

CAL Data Length

4.52.1.7 cal_data

t_u8 wifi_mfg_cmd_otp_cal_data_rd_wr_t::cal_data[CAL_DATA_LEN]

Destination MAC Address

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.53 wifi_mfg_cmd_otp_mac_addr_rd_wr_t Struct Reference

Data Fields

- t_u32 mfg_cmd
- t_u16 action
- t_u16 device_id
- t_u32 error
- t_u8 mac_addr [MLAN_MAC_ADDR_LENGTH]



4.53.1 Field Documentation

```
4.53.1.1 mfg_cmd

t_u32 wifi_mfg_cmd_otp_mac_addr_rd_wr_t::mfg_cmd

MFG command code

4.53.1.2 action

t_u16 wifi_mfg_cmd_otp_mac_addr_rd_wr_t::action

Action

4.53.1.3 device_id

t_u16 wifi_mfg_cmd_otp_mac_addr_rd_wr_t::device_id

Device ID

4.53.1.4 error

t_u32 wifi_mfg_cmd_otp_mac_addr_rd_wr_t::error

MFG Error code

4.53.1.5 mac addr
```

Destination MAC Address

The documentation for this struct was generated from the following file:

t_u8 wifi_mfg_cmd_otp_mac_addr_rd_wr_t::mac_addr[MLAN_MAC_ADDR_LENGTH]

• wifi-decl.h

4.54 wifi_mfg_cmd_tx_cont_t Struct Reference

Data Fields

- t_u32 mfg_cmd
- t_u16 action
- t_u16 device_id
- t_u32 error
- t_u32 enable_tx
- t_u32 cw_mode
- t_u32 payload_pattern
- t_u32 cs_mode
- t u32 act sub ch
- t_u32 tx_rate
- t_u32 rsvd



4.54.1 Detailed Description

Configuration for Manufacturing command Tx Continuous

4.54.2 Field Documentation

4.54.2.1 mfg_cmd

t_u32 wifi_mfg_cmd_tx_cont_t::mfg_cmd

MFG command code

4.54.2.2 action

t_u16 wifi_mfg_cmd_tx_cont_t::action

Action

4.54.2.3 device_id

t_u16 wifi_mfg_cmd_tx_cont_t::device_id

Device ID

4.54.2.4 error

t_u32 wifi_mfg_cmd_tx_cont_t::error

MFG Error code

4.54.2.5 enable_tx

 $\verb|t_u32| wifi_mfg_cmd_tx_cont_t::enable_tx|$

enable Tx

4.54.2.6 cw_mode

t_u32 wifi_mfg_cmd_tx_cont_t::cw_mode

Continuous Wave mode



4.54.2.7 payload_pattern

 $\verb|t_u32| wifi_mfg_cmd_tx_cont_t::payload_pattern|$

payload pattern

4.54.2.8 cs_mode

t_u32 wifi_mfg_cmd_tx_cont_t::cs_mode

CS Mode

4.54.2.9 act_sub_ch

t_u32 wifi_mfg_cmd_tx_cont_t::act_sub_ch

active sub channel

4.54.2.10 tx_rate

t_u32 wifi_mfg_cmd_tx_cont_t::tx_rate

Tx rate

4.54.2.11 rsvd

t_u32 wifi_mfg_cmd_tx_cont_t::rsvd

power id

The documentation for this struct was generated from the following file:

• wifi-decl.h



4.55 wifi_mfg_cmd_tx_frame_t Struct Reference

Data Fields

- t_u32 mfg_cmd
- t u16 action
- t_u16 device_id
- t_u32 error
- t_u32 enable
- t_u32 data_rate
- t_u32 frame_pattern
- t_u32 frame_length
- t_u8 bssid [MLAN_MAC_ADDR_LENGTH]
- t_u16 adjust_burst_sifs
- t_u32 burst_sifs_in_us
- t_u32 short_preamble
- t_u32 act_sub_ch
- t_u32 short_gi
- t u32 adv coding
- t_u32 tx_bf
- t_u32 gf_mode
- t_u32 stbc
- t_u32 rsvd [1]
- t_u32 signal_bw
- t_u32 NumPkt
- t_u32 MaxPE
- t_u32 BeamChange
- t_u32 Dcm
- t_u32 Doppler
- t_u32 MidP
- t u32 QNum

4.55.1 Detailed Description

Configuration for Manufacturing command Tx Frame

4.55.2 Field Documentation

4.55.2.1 mfg_cmd

t_u32 wifi_mfg_cmd_tx_frame_t::mfg_cmd

MFG command code



```
4.55.2.2 action
t_u16 wifi_mfg_cmd_tx_frame_t::action
Action
4.55.2.3 device_id
t_u16 wifi_mfg_cmd_tx_frame_t::device_id
Device ID
4.55.2.4 error
t_u32 wifi_mfg_cmd_tx_frame_t::error
MFG Error code
4.55.2.5 enable
t_u32 wifi_mfg_cmd_tx_frame_t::enable
enable
4.55.2.6 data_rate
t_u32 wifi_mfg_cmd_tx_frame_t::data_rate
data_rate
4.55.2.7 frame_pattern
t_u32 wifi_mfg_cmd_tx_frame_t::frame_pattern
frame pattern
4.55.2.8 frame_length
t_u32 wifi_mfg_cmd_tx_frame_t::frame_length
frame length
4.55.2.9 bssid
t_u8 wifi_mfg_cmd_tx_frame_t::bssid[MLAN_MAC_ADDR_LENGTH]
```



BSSID

```
4.55.2.10 adjust_burst_sifs
t_u16 wifi_mfg_cmd_tx_frame_t::adjust_burst_sifs
Adjust burst sifs
4.55.2.11 burst_sifs_in_us
t_u32 wifi_mfg_cmd_tx_frame_t::burst_sifs_in_us
Burst sifs in us
4.55.2.12 short_preamble
t_u32 wifi_mfg_cmd_tx_frame_t::short_preamble
short preamble
4.55.2.13 act_sub_ch
t_u32 wifi_mfg_cmd_tx_frame_t::act_sub_ch
active sub channel
4.55.2.14 short_gi
t_u32 wifi_mfg_cmd_tx_frame_t::short_gi
short GI
4.55.2.15 adv_coding
t_u32 wifi_mfg_cmd_tx_frame_t::adv_coding
Adv coding
4.55.2.16 tx_bf
t_u32 wifi_mfg_cmd_tx_frame_t::tx_bf
Tx beamforming
4.55.2.17 gf_mode
```



HT Greenfield Mode

t_u32 wifi_mfg_cmd_tx_frame_t::gf_mode

4.55.2.18 stbc t_u32 wifi_mfg_cmd_tx_frame_t::stbc STBC 4.55.2.19 rsvd t_u32 wifi_mfg_cmd_tx_frame_t::rsvd[1] power id 4.55.2.20 signal_bw t_u32 wifi_mfg_cmd_tx_frame_t::signal_bw signal bw 4.55.2.21 NumPkt t_u32 wifi_mfg_cmd_tx_frame_t::NumPkt NumPkt 4.55.2.22 MaxPE t_u32 wifi_mfg_cmd_tx_frame_t::MaxPE MaxPE 4.55.2.23 BeamChange t_u32 wifi_mfg_cmd_tx_frame_t::BeamChange BeamChange 4.55.2.24 Dcm t_u32 wifi_mfg_cmd_tx_frame_t::Dcm Dcm 4.55.2.25 Doppler

t_u32 wifi_mfg_cmd_tx_frame_t::Doppler



Doppler

4.55.2.26 MidP

```
t_u32 wifi_mfg_cmd_tx_frame_t::MidP
```

MidP

4.55.2.27 QNum

```
t_u32 wifi_mfg_cmd_tx_frame_t::QNum
```

QNum

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.56 wifi_mgmt_frame_t Struct Reference

Data Fields

- t_u16 frm_len
- wifi_frame_type_t frame_type
- t_u8 frame_ctrl_flags
- t_u16 duration_id
- t_u8 addr1 [MLAN_MAC_ADDR_LENGTH]
- t u8 addr2 [MLAN MAC ADDR LENGTH]
- t_u8 addr3 [MLAN_MAC_ADDR_LENGTH]
- t_u16 seq_ctl
- t_u8 addr4 [MLAN_MAC_ADDR_LENGTH]
- t_u8 payload [1]

4.56.1 Detailed Description

802_11_header packet

4.56.2 Field Documentation

4.56.2.1 frm_len

t_u16 wifi_mgmt_frame_t::frm_len

Packet Length



```
4.56.2.2 frame_type
wifi_frame_type_t wifi_mgmt_frame_t::frame_type
Frame Type
4.56.2.3 frame_ctrl_flags
\verb|t_u8| \verb|wifi_mgmt_frame_t::frame_ctrl_flags|
Frame Control flags
4.56.2.4 duration_id
\verb|t_u16| wifi_mgmt_frame_t::duration_id|
Duration ID
4.56.2.5 addr1
t_u8 wifi_mgmt_frame_t::addr1[MLAN_MAC_ADDR_LENGTH]
Address 1
4.56.2.6 addr2
t_u8 wifi_mgmt_frame_t::addr2[MLAN_MAC_ADDR_LENGTH]
Address 2
4.56.2.7 addr3
t_u8 wifi_mgmt_frame_t::addr3[MLAN_MAC_ADDR_LENGTH]
Address 3
4.56.2.8 seq_ctl
t_u16 wifi_mgmt_frame_t::seq_ctl
Sequence Control
4.56.2.9 addr4
t_u8 wifi_mgmt_frame_t::addr4[MLAN_MAC_ADDR_LENGTH]
```



Address 4

4.56.2.10 payload

```
t_u8 wifi_mgmt_frame_t::payload[1]
```

Frame payload

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.57 wifi_nat_keep_alive_t Struct Reference

Data Fields

- t_u16 interval
- t_u8 dst_mac [MLAN_MAC_ADDR_LENGTH]
- t_u32 dst_ip
- t_u16 dst_port

4.57.1 Detailed Description

TCP nat keep alive information

4.57.2 Field Documentation

4.57.2.1 interval

```
{\tt t\_u16~wifi\_nat\_keep\_alive\_t::} interval
```

Keep alive interval

4.57.2.2 dst_mac

```
t_u8 wifi_nat_keep_alive_t::dst_mac[MLAN_MAC_ADDR_LENGTH]
```

Destination MAC address

4.57.2.3 dst_ip

```
t_u32 wifi_nat_keep_alive_t::dst_ip
```

Destination IP



4.57.2.4 dst_port

t_u16 wifi_nat_keep_alive_t::dst_port

Destination port

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.58 wifi_os_mem_info Struct Reference

Data Fields

- char name [MAX_FUNC_SYMBOL_LEN]
- t_u32 size
- t_u32 line_num
- t_u32 alloc_cnt
- t_u32 free_cnt

4.58.1 Field Documentation

4.58.1.1 name

char wifi_os_mem_info::name[MAX_FUNC_SYMBOL_LEN]

4.58.1.2 size

t_u32 wifi_os_mem_info::size

4.58.1.3 line_num

t_u32 wifi_os_mem_info::line_num

4.58.1.4 alloc_cnt

t_u32 wifi_os_mem_info::alloc_cnt



4.58.1.5 free_cnt

```
t_u32 wifi_os_mem_info::free_cnt
```

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.59 wifi_pmf_params_t Struct Reference

Data Fields

- uint8_t mfpc
- uint8_t mfpr

4.59.1 Field Documentation

4.59.1.1 mfpc

```
uint8_t wifi_pmf_params_t::mfpc
```

4.59.1.2 mfpr

```
uint8_t wifi_pmf_params_t::mfpr
```

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.60 wifi_rate_cfg_t Struct Reference

Data Fields

- mlan_rate_format rate_format
- t_u32 rate_index
- t_u32 rate
- t_u32 nss
- t_u16 rate_setting



4.60.1 Detailed Description

Data structure for cmd txratecfg

4.60.2 Field Documentation

4.60.2.1 rate_format

mlan_rate_format wifi_rate_cfg_t::rate_format

LG rate: 0, HT rate: 1, VHT rate: 2

4.60.2.2 rate_index

t_u32 wifi_rate_cfg_t::rate_index

Rate/MCS index (0xFF: auto)

4.60.2.3 rate

t_u32 wifi_rate_cfg_t::rate

Rate rate

4.60.2.4 nss

t_u32 wifi_rate_cfg_t::nss

NSS

4.60.2.5 rate_setting

t_u16 wifi_rate_cfg_t::rate_setting

Rate Setting

The documentation for this struct was generated from the following file:

• wifi-decl.h



4.61 wifi_remain_on_channel_t Struct Reference

Data Fields

- uint16_t remove
- uint8_t status
- uint8_t bandcfg
- uint8_t channel
- uint32_t remain_period

4.61.1 Detailed Description

Remain on channel info structure

4.61.2 Field Documentation

4.61.2.1 remove

uint16_t wifi_remain_on_channel_t::remove

Remove

4.61.2.2 status

uint8_t wifi_remain_on_channel_t::status

Current status

4.61.2.3 bandcfg

uint8_t wifi_remain_on_channel_t::bandcfg

band configuration

4.61.2.4 channel

uint8_t wifi_remain_on_channel_t::channel

Channel



4.61.2.5 remain_period

```
uint32_t wifi_remain_on_channel_t::remain_period
```

Remain on channel period

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.62 wifi_rf_channel_t Struct Reference

Data Fields

- uint16_t current_channel
- uint16_t rf_type

4.62.1 Detailed Description

Rf channel

4.62.2 Field Documentation

4.62.2.1 current_channel

```
uint16_t wifi_rf_channel_t::current_channel
```

Current channel

4.62.2.2 rf_type

```
uint16_t wifi_rf_channel_t::rf_type
```

RF Type

The documentation for this struct was generated from the following file:

· wifi-decl.h



4.63 wifi_rssi_info_t Struct Reference

Data Fields

- int16_t data_rssi_last
- int16_t data_nf_last
- int16_t data_rssi_avg
- int16_t data_nf_avg
- int16_t bcn_snr_last
- int16_t bcn_snr_avg
- int16_t data_snr_last
- int16_t data_snr_avg
- int16_t bcn_rssi_last
- int16_t bcn_nf_last
- int16_t bcn_rssi_avg
- int16_t bcn_nf_avg

4.63.1 Detailed Description

RSSI information

4.63.2 Field Documentation

```
4.63.2.1 data_rssi_last
```

int16_t wifi_rssi_info_t::data_rssi_last

Data RSSI last

4.63.2.2 data_nf_last

int16_t wifi_rssi_info_t::data_nf_last

Data nf last

4.63.2.3 data_rssi_avg

int16_t wifi_rssi_info_t::data_rssi_avg

Data RSSI average

4.63.2.4 data_nf_avg

int16_t wifi_rssi_info_t::data_nf_avg

Data nf average



```
4.63.2.5 bcn_snr_last
int16_t wifi_rssi_info_t::bcn_snr_last
BCN SNR
4.63.2.6 bcn_snr_avg
int16_t wifi_rssi_info_t::bcn_snr_avg
BCN SNR average
4.63.2.7 data_snr_last
int16_t wifi_rssi_info_t::data_snr_last
Data SNR last
4.63.2.8 data_snr_avg
int16_t wifi_rssi_info_t::data_snr_avg
Data SNR average
4.63.2.9 bcn_rssi_last
int16_t wifi_rssi_info_t::bcn_rssi_last
BCN RSSI
4.63.2.10 bcn_nf_last
int16_t wifi_rssi_info_t::bcn_nf_last
BCN nf
4.63.2.11 bcn_rssi_avg
```

BCN RSSI average

int16_t wifi_rssi_info_t::bcn_rssi_avg



4.63.2.12 bcn_nf_avg

int16_t wifi_rssi_info_t::bcn_nf_avg

BCN nf average

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.64 wifi_rupwrlimit_config_t Struct Reference

Data Fields

- t_u16 start_freq
- t_u8 width
- t_u8 chan_num
- t_s16 ruPower [MAX_RU_COUNT]

4.64.1 Field Documentation

4.64.1.1 start_freq

t_u16 wifi_rupwrlimit_config_t::start_freq

start freq

4.64.1.2 width

t_u8 wifi_rupwrlimit_config_t::width

4.64.1.3 chan_num

t_u8 wifi_rupwrlimit_config_t::chan_num

channel number



4.64.1.4 ruPower

```
t_s16 wifi_rupwrlimit_config_t::ruPower[MAX_RU_COUNT]
```

chan ru Power

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.65 wifi_rutxpwrlimit_t Struct Reference

Data Fields

- t_u8 num_chans
- wifi_rupwrlimit_config_t rupwrlimit_config [MAX_RUTXPWR_NUM]

4.65.1 Detailed Description

Data structure for Channel RU PWR config

For RU PWR support

4.65.2 Field Documentation

```
4.65.2.1 num_chans
```

```
t_u8 wifi_rutxpwrlimit_t::num_chans
```

Number of Channels

4.65.2.2 rupwrlimit_config

```
wifi_rupwrlimit_config_t wifi_rutxpwrlimit_t::rupwrlimit_config[MAX_RUTXPWR_NUM]
```

RU PWR config

The documentation for this struct was generated from the following file:

• wifi-decl.h



4.66 wifi_scan_chan_list_t Struct Reference

Data Fields

- uint8_t num_of_chan
- uint8_t chan_number [MLAN_MAX_CHANNEL]

4.66.1 Detailed Description

Channel list structure

4.66.2 Field Documentation

```
4.66.2.1 num_of_chan
```

```
uint8_t wifi_scan_chan_list_t::num_of_chan
```

Number of channels

4.66.2.2 chan_number

```
uint8_t wifi_scan_chan_list_t::chan_number[MLAN_MAX_CHANNEL]
```

Channel number

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.67 wifi_scan_channel_list_t Struct Reference

Data Fields

- t_u8 radio_type
- t_u8 chan_number
- mlan_scan_type scan_type
- t_u16 scan_time

4.67.1 Detailed Description

Scan channel list



4.67.2 Field Documentation

4.67.2.1 radio_type

t_u8 wifi_scan_channel_list_t::radio_type

Channel scan parameter : Radio type

4.67.2.2 chan_number

t_u8 wifi_scan_channel_list_t::chan_number

Channel numder

4.67.2.3 scan_type

mlan_scan_type wifi_scan_channel_list_t::scan_type

Scan type Active = 1, Passive = 2

4.67.2.4 scan_time

t_u16 wifi_scan_channel_list_t::scan_time

Scan time

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.68 wifi_scan_params_t Struct Reference

Data Fields

- uint8_t * bssid
- char * ssid
- int channel [MAX_CHANNEL_LIST]
- IEEEtypes_Bss_t bss_type
- · int scan duration
- · int split_scan_delay

4.68.1 Field Documentation



4.68.1.1 bssid

uint8_t* wifi_scan_params_t::bssid

4.68.1.2 ssid

char* wifi_scan_params_t::ssid

4.68.1.3 channel

int wifi_scan_params_t::channel[MAX_CHANNEL_LIST]

4.68.1.4 bss_type

IEEEtypes_Bss_t wifi_scan_params_t::bss_type

4.68.1.5 scan_duration

int wifi_scan_params_t::scan_duration

4.68.1.6 split_scan_delay

int wifi_scan_params_t::split_scan_delay

The documentation for this struct was generated from the following file:

• wlan.h

4.69 wifi_scan_params_v2_t Struct Reference

Data Fields

- t_u8 scan_only
- t_u8 is_bssid
- t_u8 is_ssid
- t_u8 bssid [MLAN_MAC_ADDR_LENGTH]
- char ssid [MAX_NUM_SSID][MLAN_MAX_SSID_LENGTH+1]
- t_u8 num_channels
- wifi_scan_channel_list_t chan_list [MAX_CHANNEL_LIST]
- t u8 num probes
- t_u16 scan_chan_gap
- int(* cb)(unsigned int count)



4.69.1 Detailed Description

V2 scan parameters

4.69.2 Field Documentation

4.69.2.1 scan_only

t_u8 wifi_scan_params_v2_t::scan_only

Scan Only

4.69.2.2 is_bssid

t_u8 wifi_scan_params_v2_t::is_bssid

BSSID present

4.69.2.3 is_ssid

t_u8 wifi_scan_params_v2_t::is_ssid

SSID present

4.69.2.4 bssid

t_u8 wifi_scan_params_v2_t::bssid[MLAN_MAC_ADDR_LENGTH]

BSSID to scan

4.69.2.5 ssid

 $\verb|char wifi_scan_params_v2_t::ssid[MAX_NUM_SSID][MLAN_MAX_SSID_LENGTH+1]|\\$

SSID to scan

4.69.2.6 num_channels

t_u8 wifi_scan_params_v2_t::num_channels

Number of channels



4.69.2.7 chan_list

```
wifi_scan_channel_list_t wifi_scan_params_v2_t::chan_list[MAX_CHANNEL_LIST]
```

Channel list with channel information

4.69.2.8 num_probes

```
t_u8 wifi_scan_params_v2_t::num_probes
```

Number of probes

4.69.2.9 scan_chan_gap

```
t_u16 wifi_scan_params_v2_t::scan_chan_gap
```

scan channel gap

4.69.2.10 cb

```
int(* wifi_scan_params_v2_t::cb) (unsigned int count)
```

Callback to be called when scan is completed

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.70 wifi_scan_result2 Struct Reference

Data Fields

- uint8_t bssid [MLAN_MAC_ADDR_LENGTH]
- · bool is_ibss_bit_set
- uint8_t ssid [MLAN_MAX_SSID_LENGTH]
- int ssid_len
- uint8_t Channel
- uint8_t RSSI
- uint16_t beacon_period
- uint16_t dtim_period
- _SecurityMode_t WPA_WPA2_WEP
- _Cipher_t wpa_mcstCipher
- _Cipher_t wpa_ucstCipher
- · _Cipher_t rsn_mcstCipher
- _Cipher_t rsn_ucstCipher
- bool is_pmf_required
- t_u8 ap_mfpc
- t_u8 ap_mfpr



- t_u8 ap_pwe
- bool phtcap_ie_present
- bool phtinfo_ie_present
- bool pvhtcap_ie_present
- · bool phecap_ie_present
- bool wmm_ie_present
- uint16_t band
- · bool wps_IE_exist
- uint16_t wps_session
- bool wpa2_entp_IE_exist
- uint8_t trans_mode
- uint8_t trans_bssid [MLAN_MAC_ADDR_LENGTH]
- uint8_t trans_ssid [MLAN_MAX_SSID_LENGTH]
- int trans_ssid_len
- bool mbo_assoc_disallowed
- uint16_t mdid
- · bool neighbor_report_supported
- bool bss_transition_supported

4.70.1 Detailed Description

Scan result information

4.70.2 Field Documentation

```
4.70.2.1 bssid
```

uint8_t wifi_scan_result2::bssid[MLAN_MAC_ADDR_LENGTH]

BSSID array

4.70.2.2 is_ibss_bit_set

bool wifi_scan_result2::is_ibss_bit_set

Is bssid set?

4.70.2.3 ssid

uint8_t wifi_scan_result2::ssid[MLAN_MAX_SSID_LENGTH]

ssid array



```
4.70.2.4 ssid_len
int wifi_scan_result2::ssid_len
SSID length
4.70.2.5 Channel
uint8_t wifi_scan_result2::Channel
Channel associated to the BSSID
4.70.2.6 RSSI
uint8_t wifi_scan_result2::RSSI
Received signal strength
4.70.2.7 beacon_period
uint16_t wifi_scan_result2::beacon_period
Beacon period
4.70.2.8 dtim_period
uint16_t wifi_scan_result2::dtim_period
DTIM period
4.70.2.9 WPA WPA2 WEP
_SecurityMode_t wifi_scan_result2::WPA_WPA2_WEP
Security mode info
4.70.2.10 wpa_mcstCipher
_Cipher_t wifi_scan_result2::wpa_mcstCipher
WPA multicast cipher
4.70.2.11 wpa_ucstCipher
_Cipher_t wifi_scan_result2::wpa_ucstCipher
```



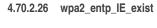
WPA unicast cipher

```
4.70.2.12 rsn_mcstCipher
_Cipher_t wifi_scan_result2::rsn_mcstCipher
No security multicast cipher
4.70.2.13 rsn_ucstCipher
_Cipher_t wifi_scan_result2::rsn_ucstCipher
No security unicast cipher
4.70.2.14 is_pmf_required
bool wifi_scan_result2::is_pmf_required
Is pmf required flag
4.70.2.15 ap_mfpc
t_u8 wifi_scan_result2::ap_mfpc
MFPC bit of AP
4.70.2.16 ap_mfpr
t_u8 wifi_scan_result2::ap_mfpr
MFPR bit of AP
4.70.2.17 ap_pwe
t_u8 wifi_scan_result2::ap_pwe
PWE bit of AP WPA_WPA2 = 0 => Security not enabled = 1 => WPA mode = 2 => WPA2 mode = 3 => WEP
mode
4.70.2.18 phtcap_ie_present
bool wifi_scan_result2::phtcap_ie_present
```



PHT CAP IE present info

```
4.70.2.19 phtinfo_ie_present
bool wifi_scan_result2::phtinfo_ie_present
PHT INFO IE present info
4.70.2.20 pvhtcap_ie_present
bool wifi_scan_result2::pvhtcap_ie_present
11AC VHT capab support
4.70.2.21 phecap_ie_present
bool wifi_scan_result2::phecap_ie_present
11AX HE capab support
4.70.2.22 wmm_ie_present
bool wifi_scan_result2::wmm_ie_present
WMM IE present info
4.70.2.23 band
uint16_t wifi_scan_result2::band
Band info
4.70.2.24 wps_IE_exist
bool wifi_scan_result2::wps_IE_exist
WPS IE exist info
4.70.2.25 wps_session
uint16_t wifi_scan_result2::wps_session
WPS session
```



bool wifi_scan_result2::wpa2_entp_IE_exist

WPA2 enterprise IE exist info



4.70.2.27 trans_mode uint8_t wifi_scan_result2::trans_mode Trans mode 4.70.2.28 trans_bssid uint8_t wifi_scan_result2::trans_bssid[MLAN_MAC_ADDR_LENGTH] Trans bssid array 4.70.2.29 trans_ssid uint8_t wifi_scan_result2::trans_ssid[MLAN_MAX_SSID_LENGTH] Trans ssid array 4.70.2.30 trans_ssid_len int wifi_scan_result2::trans_ssid_len Trans bssid length 4.70.2.31 mbo_assoc_disallowed bool wifi_scan_result2::mbo_assoc_disallowed MBO disallowed 4.70.2.32 mdid uint16_t wifi_scan_result2::mdid Mobility domain identifier 4.70.2.33 neighbor_report_supported



Neigbort report support

bool wifi_scan_result2::neighbor_report_supported

4.70.2.34 bss_transition_supported

```
bool wifi_scan_result2::bss_transition_supported
```

bss transition support

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.71 wifi_sta_info_t Struct Reference

Data Fields

- t_u8 mac [MLAN_MAC_ADDR_LENGTH]
- t_u8 power_mgmt_status
- t_s8 rssi

4.71.1 Detailed Description

Station information structure

4.71.2 Field Documentation

```
4.71.2.1 mac
```

```
t_u8 wifi_sta_info_t::mac[MLAN_MAC_ADDR_LENGTH]
```

MAC address buffer

4.71.2.2 power_mgmt_status

```
t_u8 wifi_sta_info_t::power_mgmt_status
```

Power management status 0 = active (not in power save) 1 = in power save status

4.71.2.3 rssi

```
t_s8 wifi_sta_info_t::rssi
```

RSSI: dBm

The documentation for this struct was generated from the following file:

• wifi-decl.h



4.72 wifi_sta_list_t Struct Reference

Data Fields

· int count

4.72.1 Detailed Description

Note: This is variable length structure. The size of array mac_list is equal to count. The caller of the API which returns this structure does not need to separately free the array mac_list. It only needs to free the sta_list_t object after use.

4.72.2 Field Documentation

4.72.2.1 count

int wifi_sta_list_t::count

Count

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.73 wifi_sub_band_set_t Struct Reference

Data Fields

- t_u8 first_chan
- t_u8 no_of_chan
- t_u8 max_tx_pwr

4.73.1 Detailed Description

Data structure for subband set

For uAP 11d support

4.73.2 Field Documentation



4.73.2.1 first_chan

t_u8 wifi_sub_band_set_t::first_chan

First channel

4.73.2.2 no_of_chan

t_u8 wifi_sub_band_set_t::no_of_chan

Number of channels

4.73.2.3 max_tx_pwr

t_u8 wifi_sub_band_set_t::max_tx_pwr

Maximum Tx power in dBm

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.74 wifi_tbtt_offset_t Struct Reference

Data Fields

- t_u32 min_tbtt_offset
- t_u32 max_tbtt_offset
- t_u32 avg_tbtt_offset

4.74.1 Detailed Description

TBTT offset structure

4.74.2 Field Documentation

4.74.2.1 min_tbtt_offset

t_u32 wifi_tbtt_offset_t::min_tbtt_offset

Min TBTT offset



4.74.2.2 max_tbtt_offset

t_u32 wifi_tbtt_offset_t::max_tbtt_offset

Max TBTT offset

4.74.2.3 avg_tbtt_offset

t_u32 wifi_tbtt_offset_t::avg_tbtt_offset

AVG TBTT offset

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.75 wifi_tcp_keep_alive_t Struct Reference

Data Fields

- t_u8 enable
- t_u8 reset
- t_u32 timeout
- t_u16 interval
- t_u16 max_keep_alives
- t_u8 dst_mac [MLAN_MAC_ADDR_LENGTH]
- t_u32 dst_ip
- t_u16 dst_tcp_port
- t_u16 src_tcp_port
- t_u32 seq_no

4.75.1 Detailed Description

TCP keep alive information

4.75.2 Field Documentation

4.75.2.1 enable

t_u8 wifi_tcp_keep_alive_t::enable

Enable keep alive



```
4.75.2.2 reset
t_u8 wifi_tcp_keep_alive_t::reset
Reset
4.75.2.3 timeout
t_u32 wifi_tcp_keep_alive_t::timeout
Keep alive timeout
4.75.2.4 interval
t_u16 wifi_tcp_keep_alive_t::interval
Keep alive interval
4.75.2.5 max_keep_alives
t_u16 wifi_tcp_keep_alive_t::max_keep_alives
Maximum keep alives
4.75.2.6 dst_mac
t_u8 wifi_tcp_keep_alive_t::dst_mac[MLAN_MAC_ADDR_LENGTH]
Destination MAC address
4.75.2.7 dst_ip
t_u32 wifi_tcp_keep_alive_t::dst_ip
Destination IP
4.75.2.8 dst_tcp_port
t_u16 wifi_tcp_keep_alive_t::dst_tcp_port
Destination TCP port
4.75.2.9 src_tcp_port
t_u16 wifi_tcp_keep_alive_t::src_tcp_port
```



Source TCP port

4.75.2.10 seq_no

t_u32 wifi_tcp_keep_alive_t::seq_no

Sequence number

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.76 wifi_tsf_info_t Struct Reference

Data Fields

- t_u16 tsf_format
- t_u16 tsf_info
- t_u64 tsf
- t_s32 tsf_offset

4.76.1 Detailed Description

Wi-Fi TSF information

4.76.2 Field Documentation

4.76.2.1 tsf_format

t_u16 wifi_tsf_info_t::tsf_format

get tsf info format

4.76.2.2 tsf_info

t_u16 wifi_tsf_info_t::tsf_info

tsf info

4.76.2.3 tsf

t_u64 wifi_tsf_info_t::tsf

tsf



4.76.2.4 tsf_offset

```
t_s32 wifi_tsf_info_t::tsf_offset
```

Positive or negative offset in microsecond from Beacon TSF to GPIO toggle TSF

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.77 wifi_twt_information_t Struct Reference

Data Fields

- · t_u8 flow_identifier
- t_u32 suspend_duration
- t_u8 information_state

4.77.1 Field Documentation

4.77.1.1 flow_identifier

```
t_u8 wifi_twt_information_t::flow_identifier
```

TWT Flow Identifier. Range: [0-7]

4.77.1.2 suspend_duration

```
\verb|t_u32| wifi_twt_information_t::suspend_duration|
```

TWT operation suspend duration in milli seconds.

4.77.1.3 information_state

```
t_u8 wifi_twt_information_t::information_state
```

TWT information state from FW.

The documentation for this struct was generated from the following file:

• wifi-decl.h



4.78 wifi_twt_report_t Struct Reference

Data Fields

- t_u8 type
- t_u8 length
- t_u8 reserve [2]
- t_u8 data [WLAN_BTWT_REPORT_LEN *WLAN_BTWT_REPORT_MAX_NUM]

4.78.1 Detailed Description

Wi-Fi TWT Report Configuration

4.78.2 Field Documentation

```
4.78.2.1 type
```

t_u8 wifi_twt_report_t::type

TWT report type, 0: BTWT id

4.78.2.2 length

t_u8 wifi_twt_report_t::length

TWT report length of value in data

4.78.2.3 reserve

t_u8 wifi_twt_report_t::reserve[2]

Reserved 2

4.78.2.4 data

t_u8 wifi_twt_report_t::data[WLAN_BTWT_REPORT_LEN *WLAN_BTWT_REPORT_MAX_NUM]

TWT report buffer

The documentation for this struct was generated from the following file:

· wifi-decl.h



4.79 wifi_twt_setup_config_t Struct Reference

Data Fields

- t_u8 implicit
- t_u8 announced
- t_u8 trigger_enabled
- t_u8 twt_info_disabled
- t_u8 negotiation_type
- t_u8 twt_wakeup_duration
- t_u8 flow_identifier
- t_u8 hard_constraint
- t_u8 twt_exponent
- t_u16 twt_mantissa
- t_u8 twt_request

4.79.1 Detailed Description

Wi-Fi TWT setup configuration

4.79.2 Field Documentation

4.79.2.1 implicit

t_u8 wifi_twt_setup_config_t::implicit

Implicit, 0: TWT session is explicit, 1: Session is implicit

4.79.2.2 announced

t_u8 wifi_twt_setup_config_t::announced

Announced, 0: Unannounced, 1: Announced TWT

4.79.2.3 trigger_enabled

t_u8 wifi_twt_setup_config_t::trigger_enabled

Trigger Enabled, 0: Non-Trigger enabled, 1: Trigger enabled TWT

4.79.2.4 twt_info_disabled

t_u8 wifi_twt_setup_config_t::twt_info_disabled

TWT Information Disabled, 0: TWT info enabled, 1: TWT info disabled



4.79.2.5 negotiation_type t_u8 wifi_twt_setup_config_t::negotiation_type Negotiation Type, 0: Future Individual TWT SP start time, 1: Next Wake TBTT time 4.79.2.6 twt_wakeup_duration t_u8 wifi_twt_setup_config_t::twt_wakeup_duration TWT Wakeup Duration, time after which the TWT requesting STA can transition to doze state 4.79.2.7 flow_identifier t_u8 wifi_twt_setup_config_t::flow_identifier Flow Identifier. Range: [0-7] 4.79.2.8 hard_constraint t_u8 wifi_twt_setup_config_t::hard_constraint Hard Constraint, 0: FW can tweak the TWT setup parameters if it is rejected by AP. 1: Firmware should not tweak any parameters. 4.79.2.9 twt_exponent t_u8 wifi_twt_setup_config_t::twt_exponent TWT Exponent, Range: [0-63] 4.79.2.10 twt_mantissa t_u16 wifi_twt_setup_config_t::twt_mantissa TWT Mantissa Range: [0-sizeof(UINT16)] 4.79.2.11 twt_request t_u8 wifi_twt_setup_config_t::twt_request

The documentation for this struct was generated from the following file:

TWT Request Type, 0: REQUEST_TWT, 1: SUGGEST_TWT

· wifi-decl.h



4.80 wifi_twt_teardown_config_t Struct Reference

Data Fields

- t u8 flow identifier
- t_u8 negotiation_type
- t_u8 teardown_all_twt

4.80.1 Detailed Description

Wi-Fi Teardown Configuration

4.80.2 Field Documentation

```
4.80.2.1 flow_identifier
```

t_u8 wifi_twt_teardown_config_t::flow_identifier

TWT Flow Identifier. Range: [0-7]

4.80.2.2 negotiation_type

 $\verb|t_u8| \verb|wifi_twt_teardown_config_t::negotiation_type|$

Negotiation Type. 0: Future Individual TWT SP start time, 1: Next Wake TBTT time

4.80.2.3 teardown_all_twt

t_u8 wifi_twt_teardown_config_t::teardown_all_twt

Tear down all TWT. 1: To teardown all TWT, 0 otherwise

The documentation for this struct was generated from the following file:

wifi-decl.h

4.81 wifi_tx_power_t Struct Reference

Data Fields

- uint16_t current_level
- uint8_t max_power
- uint8_t min_power



4.81.1 Detailed Description

Tx power levels

4.81.2 Field Documentation

4.81.2.1 current_level

uint16_t wifi_tx_power_t::current_level

Current power level

4.81.2.2 max_power

uint8_t wifi_tx_power_t::max_power

Maximum power level

4.81.2.3 min_power

uint8_t wifi_tx_power_t::min_power

Minimum power level

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.82 wifi_txpwrlimit_config_t Struct Reference

Data Fields

- t_u8 num_mod_grps
- wifi_channel_desc_t chan_desc
- wifi_txpwrlimit_entry_t txpwrlimit_entry [20]

4.82.1 Detailed Description

Data structure for TRPC config

For TRPC support



4.82.2 Field Documentation

```
4.82.2.1 num_mod_grps

t_u8 wifi_txpwrlimit_config_t::num_mod_grps

Number of modulation groups

4.82.2.2 chan_desc

wifi_channel_desc_t wifi_txpwrlimit_config_t::chan_desc

Chnannel descriptor

4.82.2.3 txpwrlimit_entry

wifi_txpwrlimit_entry_t wifi_txpwrlimit_config_t::txpwrlimit_entry[20]
```

The documentation for this struct was generated from the following file:

• wifi-decl.h

Channel Modulation groups

4.83 wifi_txpwrlimit_entry_t Struct Reference

Data Fields

- t_u8 mod_group
- t_u8 tx_power

4.83.1 Detailed Description

Data structure for Modulation Group

```
mod_group: ModulationGroup
0: CCK (1,2,5.5,11 Mbps)
1: OFDM (6,9,12,18 Mbps)
2: OFDM (24,36 Mbps)
3: OFDM (48,54 Mbps)
4: HT20 (0,1,2)
5: HT20 (3,4)
6: HT20 (5,6,7)
7: HT40 (0,1,2)
8: HT40 (3,4)
9: HT40 (5,6,7)
10: HT2_20 (8,9,10)
11: HT2_20 (11,12)
12: HT2_20 (13,14,15)
tx_power: Power Limit in dBm
```



4.83.2 Field Documentation

4.83.2.1 mod_group

t_u8 wifi_txpwrlimit_entry_t::mod_group

Modulation group

4.83.2.2 tx_power

t_u8 wifi_txpwrlimit_entry_t::tx_power

Tx Power

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.84 wifi_txpwrlimit_t Struct Reference

Data Fields

- wifi_SubBand_t subband
- t_u8 num_chans
- wifi_txpwrlimit_config_t txpwrlimit_config [43]

4.84.1 Detailed Description

Data structure for Channel TRPC config

For TRPC support

4.84.2 Field Documentation

4.84.2.1 subband

wifi_SubBand_t wifi_txpwrlimit_t::subband

SubBand



4.84.2.2 num_chans

t_u8 wifi_txpwrlimit_t::num_chans

Number of Channels

4.84.2.3 txpwrlimit_config

```
wifi_txpwrlimit_config_t wifi_txpwrlimit_t::txpwrlimit_config[43]
```

TRPC config

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.85 wifi_uap_client_disassoc_t Struct Reference

Data Fields

- int reason_code
- t_u8 sta_addr [MLAN_MAC_ADDR_LENGTH]

4.85.1 Field Documentation

4.85.1.1 reason_code

```
int wifi_uap_client_disassoc_t::reason_code
```

4.85.1.2 sta_addr

```
t_u8 wifi_uap_client_disassoc_t::sta_addr[MLAN_MAC_ADDR_LENGTH]
```

The documentation for this struct was generated from the following file:

• wifi.h



4.86 wifi_wowlan_pattern_t Struct Reference

Data Fields

- t_u8 pkt_offset
- t_u8 pattern_len
- t_u8 pattern [WOWLAN_MAX_PATTERN_LEN]
- t_u8 mask [6]

4.86.1 Field Documentation

```
4.86.1.1 pkt_offset

t_u8 wifi_wowlan_pattern_t::pkt_offset

pattern offset of received pattern

4.86.1.2 pattern_len

t_u8 wifi_wowlan_pattern_t::pattern_len

pattern length

4.86.1.3 pattern

t_u8 wifi_wowlan_pattern_t::pattern[WOWLAN_MAX_PATTERN_LEN]

wowlan pattern

4.86.1.4 mask

t_u8 wifi_wowlan_pattern_t::mask[6]
```

The documentation for this struct was generated from the following file:

· wifi-decl.h

4.87 wifi_wowlan_ptn_cfg_t Struct Reference

Data Fields

mask

- t_u8 enable
- t_u8 n_patterns
- wifi_wowlan_pattern_t patterns [MAX_NUM_FILTERS]



4.87.1 Detailed Description

Wowlan Pattern config struct

4.87.2 Field Documentation

```
4.87.2.1 enable

t_u8 wifi_wowlan_ptn_cfg_t::enable

Enable user defined pattern

4.87.2.2 n_patterns

t_u8 wifi_wowlan_ptn_cfg_t::n_patterns

number of patterns

4.87.2.3 patterns

wifi_wowlan_pattern_t wifi_wowlan_ptn_cfg_t::patterns[MAX_NUM_FILTERS]
user define pattern
```

The documentation for this struct was generated from the following file:

• wifi-decl.h

4.88 wlan_cipher Struct Reference

Data Fields

```
    uint16_t none: 1

• uint16_t wep40: 1
uint16_t wep104: 1
• uint16_t tkip: 1
• uint16_t ccmp: 1
• uint16_t aes_128_cmac: 1
• uint16_t gcmp: 1
uint16_t sms4: 1
• uint16_t gcmp_256: 1
uint16_t ccmp_256: 1

    uint16_t rsvd: 1

uint16_t bip_gmac_128: 1
uint16_t bip_gmac_256: 1
uint16_t bip_cmac_256: 1
• uint16_t gtk_not_used: 1

    uint16_t rsvd2: 2
```



4.88.1 Detailed Description

Wlan Cipher structure

4.88.2 Field Documentation

4.88.2.1 none

uint16_t wlan_cipher::none

1 bit value can be set for none

4.88.2.2 wep40

uint16_t wlan_cipher::wep40

1 bit value can be set for wep40

4.88.2.3 wep104

uint16_t wlan_cipher::wep104

1 bit value can be set for wep104

4.88.2.4 tkip

uint16_t wlan_cipher::tkip

1 bit value can be set for tkip

4.88.2.5 ccmp

uint16_t wlan_cipher::ccmp

1 bit valuecan be set for ccmp

4.88.2.6 aes_128_cmac

uint16_t wlan_cipher::aes_128_cmac

1 bit valuecan be set for aes 128 cmac



```
4.88.2.7 gcmp
uint16_t wlan_cipher::gcmp
1 bit value can be set for gcmp
4.88.2.8 sms4
uint16_t wlan_cipher::sms4
1 bit value can be set for sms4
4.88.2.9 gcmp_256
uint16_t wlan_cipher::gcmp_256
1 bit value can be set for gcmp 256
4.88.2.10 ccmp_256
uint16_t wlan_cipher::ccmp_256
1 bit valuecan be set for ccmp 256
4.88.2.11 rsvd
uint16_t wlan_cipher::rsvd
1 bit is reserved
4.88.2.12 bip_gmac_128
uint16_t wlan_cipher::bip_gmac_128
1 bit value can be set for bip gmac 128
4.88.2.13 bip_gmac_256
uint16_t wlan_cipher::bip_gmac_256
1 bit value can be set for bip gmac 256
4.88.2.14 bip_cmac_256
uint16_t wlan_cipher::bip_cmac_256
```



1 bit value can be set for bip cmac 256

4.88.2.15 gtk_not_used

uint16_t wlan_cipher::gtk_not_used

1 bit valuecan be set for gtk not used

4.88.2.16 rsvd2

uint16_t wlan_cipher::rsvd2

4 bits are reserved

The documentation for this struct was generated from the following file:

• wlan.h

4.89 wlan_ieeeps_config Struct Reference

Data Fields

- t_u32 ps_null_interval
- t_u32 multiple_dtim_interval
- t_u32 listen_interval
- t_u32 adhoc_awake_period
- t_u32 bcn_miss_timeout
- t_s32 delay_to_ps
- t_u32 ps_mode

4.89.1 Field Documentation

4.89.1.1 ps_null_interval

t_u32 wlan_ieeeps_config::ps_null_interval

PS null interval in seconds

4.89.1.2 multiple_dtim_interval

t_u32 wlan_ieeeps_config::multiple_dtim_interval

Multiple DTIM interval



4.89.1.3 listen_interval

t_u32 wlan_ieeeps_config::listen_interval

Listen interval

4.89.1.4 adhoc_awake_period

t_u32 wlan_ieeeps_config::adhoc_awake_period

Adhoc awake period

4.89.1.5 bcn_miss_timeout

t_u32 wlan_ieeeps_config::bcn_miss_timeout

Beacon miss timeout in milliseconds

4.89.1.6 delay_to_ps

t_s32 wlan_ieeeps_config::delay_to_ps

Delay to PS in milliseconds

4.89.1.7 ps_mode

t_u32 wlan_ieeeps_config::ps_mode

PS mode

The documentation for this struct was generated from the following file:

wlan.h

4.90 wlan_ip_config Struct Reference

Data Fields

- struct ipv6_config ipv6 [CONFIG_MAX_IPV6_ADDRESSES]
- size_t ipv6_count
- struct ipv4_config ipv4

4.90.1 Detailed Description

Network IP configuration.

This data structure represents the network IP configuration for IPv4 as well as IPv6 addresses



4.90.2 Field Documentation

4.90.2.1 ipv6

```
struct ipv6_config wlan_ip_config::ipv6[CONFIG_MAX_IPV6_ADDRESSES]
```

The network IPv6 address configuration that should be associated with this interface.

4.90.2.2 ipv6_count

```
size_t wlan_ip_config::ipv6_count
```

The network IPv6 valid addresses count

4.90.2.3 ipv4

```
struct ipv4_config wlan_ip_config::ipv4
```

The network IPv4 address configuration that should be associated with this interface.

The documentation for this struct was generated from the following file:

· wlan.h

4.91 wlan_message Struct Reference

Data Fields

- t_u16 id
- void * data

4.91.1 Field Documentation

4.91.1.1 id

t_u16 wlan_message::id



4.91.1.2 data

```
void* wlan_message::data
```

The documentation for this struct was generated from the following file:

· wlan.h

4.92 wlan_network Struct Reference

Data Fields

- int id
- int wps_network
- char name [WLAN_NETWORK_NAME_MAX_LENGTH+1]
- char ssid [IEEEtypes_SSID_SIZE+1]
- char bssid [IEEEtypes_ADDRESS_SIZE]
- unsigned int channel
- uint8_t sec_channel_offset
- uint16_t acs_band
- int rssi
- unsigned short ht_capab
- unsigned int vht_capab
- unsigned char vht_oper_chwidth
- unsigned char he_oper_chwidth
- enum wlan_bss_type type
- enum wlan_bss_role role
- struct wlan_network_security security
- struct wlan_ip_config ip
- unsigned ssid_specific: 1
- unsigned bssid_specific: 1
- · unsigned channel_specific: 1
- unsigned security specific: 1
- unsigned dot11n: 1
- unsigned dot11ac: 1
- unsigned dot11ax: 1
- uint16 t mdid
- unsigned ft_1x: 1
- unsigned ft_psk: 1
- · unsigned ft sae: 1
- uint16 t beacon period
- uint8_t dtim_period
- uint8_t wlan_capa
- uint8_t btm_mode
- · bool bss_transition_supported
- bool neighbor_report_supported



4.92.1 Detailed Description

WLAN Network Profile

This data structure represents a WLAN network profile. It consists of an arbitrary name, WiFi configuration, and IP address configuration.

Every network profile is associated with one of the two interfaces. The network profile can be used for the station interface (i.e. to connect to an Access Point) by setting the role field to WLAN_BSS_ROLE_STA. The network profile can be used for the micro-AP interface (i.e. to start a network of our own.) by setting the mode field to WLAN_BSS_ROLE_UAP.

If the mode field is WLAN_BSS_ROLE_STA, either of the SSID or BSSID fields are used to identify the network, while the other members like channel and security settings characterize the network.

If the mode field is WLAN_BSS_ROLE_UAP, the SSID, channel and security fields are used to define the network to be started.

In both the above cases, the address field is used to determine the type of address assignment to be used for this interface.

4.92.2 Field Documentation

4.92.2.1 id

int wlan_network::id

Identifier for network profile

4.92.2.2 wps_network

int wlan_network::wps_network

4.92.2.3 name

char wlan_network::name[WLAN_NETWORK_NAME_MAX_LENGTH+1]

The name of this network profile. Each network profile that is added to the WLAN Connection Manager must have a unique name.

4.92.2.4 ssid

char wlan_network::ssid[IEEEtypes_SSID_SIZE+1]

The network SSID, represented as a C string of up to 32 characters in length. If this profile is used in the micro-AP mode, this field is used as the SSID of the network. If this profile is used in the station mode, this field is used to identify the network. Set the first byte of the SSID to NULL (a 0-length string) to use only the BSSID to find the network.



4.92.2.5 bssid

char wlan_network::bssid[IEEEtypes_ADDRESS_SIZE]

The network BSSID, represented as a 6-byte array. If this profile is used in the micro-AP mode, this field is ignored. If this profile is used in the station mode, this field is used to identify the network. Set all 6 bytes to 0 to use any BSSID, in which case only the SSID will be used to find the network.

4.92.2.6 channel

unsigned int wlan_network::channel

The channel for this network.

If this profile is used in micro-AP mode, this field specifies the channel to start the micro-AP interface on. Set this to 0 for auto channel selection.

If this profile is used in the station mode, this constrains the channel on which the network to connect should be present. Set this to 0 to allow the network to be found on any channel.

4.92.2.7 sec_channel_offset

uint8_t wlan_network::sec_channel_offset

The secondary channel offset

4.92.2.8 acs_band

uint16_t wlan_network::acs_band

The ACS band if set channel to 0.

4.92.2.9 rssi

int wlan_network::rssi

RSSI

4.92.2.10 ht_capab

unsigned short wlan_network::ht_capab

HT capabilities

4.92.2.11 vht_capab

unsigned int wlan_network::vht_capab

VHT capabilities



4.92.2.12 vht_oper_chwidth

unsigned char wlan_network::vht_oper_chwidth

VHT bandwidth

4.92.2.13 he_oper_chwidth

unsigned char wlan_network::he_oper_chwidth

HE bandwidth

4.92.2.14 type

enum wlan_bss_type wlan_network::type

BSS type

4.92.2.15 role

```
enum wlan_bss_role wlan_network::role
```

The network wireless mode enum wlan_bss_role. Set this to specify what type of wireless network mode to use. This can either be WLAN_BSS_ROLE_STA for use in the station mode, or it can be WLAN_BSS_ROLE_UAP for use in the micro-AP mode.

4.92.2.16 security

```
struct wlan_network_security wlan_network::security
```

The network security configuration specified by struct wlan_network_security for the network.

4.92.2.17 ip

```
struct wlan_ip_config wlan_network::ip
```

The network IP address configuration specified by struct wlan_ip_config that should be associated with this interface.

4.92.2.18 ssid_specific

```
unsigned wlan_network::ssid_specific
```

If set to 1, the ssid field contains the specific SSID for this network. The WLAN Connection Manager will only connect to networks whose SSID matches. If set to 0, the ssid field contents are not used when deciding whether to connect to a network, the BSSID field is used instead and any network whose BSSID matches is accepted.

This field will be set to 1 if the network is added with the SSID specified (not an empty string), otherwise it is set to 0.



4.92.2.19 bssid_specific

```
unsigned wlan_network::bssid_specific
```

If set to 1, the bssid field contains the specific BSSID for this network. The WLAN Connection Manager will not connect to any other network with the same SSID unless the BSSID matches. If set to 0, the WLAN Connection Manager will connect to any network whose SSID matches.

This field will be set to 1 if the network is added with the BSSID specified (not set to all zeroes), otherwise it is set to 0

4.92.2.20 channel_specific

```
unsigned wlan_network::channel_specific
```

If set to 1, the channel field contains the specific channel for this network. The WLAN Connection Manager will not look for this network on any other channel. If set to 0, the WLAN Connection Manager will look for this network on any available channel.

This field will be set to 1 if the network is added with the channel specified (not set to 0), otherwise it is set to 0.

4.92.2.21 security_specific

```
unsigned wlan_network::security_specific
```

If set to 0, any security that matches is used. This field is internally set when the security type parameter above is set to WLAN_SECURITY_WILDCARD.

4.92.2.22 dot11n

```
unsigned wlan_network::dot11n
```

The network supports 802.11N. (For internal use only)

4.92.2.23 dot11ac

```
unsigned wlan_network::dot11ac
```

The network supports 802.11AC. (For internal use only)

4.92.2.24 dot11ax

unsigned wlan_network::dot11ax

The network supports 802.11AX. (For internal use only)



```
4.92.2.25 mdid
uint16_t wlan_network::mdid
Mobility Domain ID
4.92.2.26 ft_1x
unsigned wlan_network::ft_1x
The network uses FT 802.1x security (For internal use only)
4.92.2.27 ft_psk
unsigned wlan_network::ft_psk
The network uses FT PSK security (For internal use only)
4.92.2.28 ft sae
unsigned wlan_network::ft_sae
The network uses FT SAE security (For internal use only)
4.92.2.29 beacon_period
uint16_t wlan_network::beacon_period
Beacon period of associated BSS
4.92.2.30 dtim_period
uint8_t wlan_network::dtim_period
DTIM period of associated BSS
4.92.2.31 wlan_capa
uint8_t wlan_network::wlan_capa
Wireless capabilities of uAP network 802.11n, 802.11ac or/and 802.11ax
4.92.2.32 btm_mode
uint8_t wlan_network::btm_mode
```



BTM mode

4.92.2.33 bss_transition_supported

```
bool wlan_network::bss_transition_supported
```

bss transition support (For internal use only)

4.92.2.34 neighbor_report_supported

```
bool wlan_network::neighbor_report_supported
```

Neighbor report support (For internal use only)

The documentation for this struct was generated from the following file:

· wlan.h

4.93 wlan_network_security Struct Reference

Data Fields

- · enum wlan_security_type type
- int key_mgmt
- · struct wlan_cipher mcstCipher
- struct wlan_cipher ucstCipher
- unsigned pkc: 1
- · int group_cipher
- · int pairwise_cipher
- int group_mgmt_cipher
- bool is_pmf_required
- char psk [WLAN_PSK_MAX_LENGTH]
- uint8_t psk_len
- char password [WLAN_PASSWORD_MAX_LENGTH+1]
- size_t password_len
- char * sae_groups
- uint8_t pwe_derivation
- uint8_t transition_disable
- char pmk [WLAN_PMK_LENGTH]
- bool pmk_valid
- bool mfpc
- bool mfpr
- unsigned wpa3_sb: 1
- unsigned wpa3_sb_192: 1
- unsigned eap_ver: 1
- unsigned peap_label: 1
- uint8_t eap_crypto_binding
- · unsigned eap_result_ind: 1
- unsigned char tls_cipher
- char identity [IDENTITY_MAX_LENGTH]
- char anonymous_identity [IDENTITY_MAX_LENGTH]
- char eap_password [PASSWORD_MAX_LENGTH]
- unsigned char * ca_cert_data



- size_t ca_cert_len
- unsigned char * client_cert_data
- size_t client_cert_len
- unsigned char * client_key_data
- size_t client_key_len
- char client_key_passwd [PASSWORD_MAX_LENGTH]
- char ca cert hash [HASH MAX LENGTH]
- char domain_match [DOMAIN_MATCH_MAX_LENGTH]
- char domain_suffix_match [DOMAIN_MATCH_MAX_LENGTH]
- unsigned char * ca_cert2_data
- size_t ca_cert2_len
- unsigned char * client_cert2_data
- size_t client_cert2_len
- unsigned char * client_key2_data
- size_t client_key2_len
- char client_key2_passwd [PASSWORD_MAX_LENGTH]
- unsigned char * dh_data
- · size_t dh_len
- unsigned char * server_cert_data
- size_t server_cert_len
- unsigned char * server_key_data
- size_t server_key_len
- char server_key_passwd [PASSWORD_MAX_LENGTH]
- size t nusers
- char identities [MAX_USERS][IDENTITY_MAX_LENGTH]
- char passwords [MAX_USERS][PASSWORD_MAX_LENGTH]
- char pac_opaque_encr_key [PAC_OPAQUE_ENCR_KEY_MAX_LENGTH]
- char a_id [A_ID_MAX_LENGTH]
- uint8_t fast_prov
- unsigned char * dpp_connector
- unsigned char * dpp_c_sign_key
- unsigned char * dpp_net_access_key

4.93.1 Detailed Description

Network security configuration

4.93.2 Field Documentation

4.93.2.1 type

enum wlan_security_type wlan_network_security::type

Type of network security to use specified by enum wlan_security_type.



```
4.93.2.2 key_mgmt
int wlan_network_security::key_mgmt
Key management type
4.93.2.3 mcstCipher
struct wlan_cipher wlan_network_security::mcstCipher
Type of network security Group Cipher suite used internally
4.93.2.4 ucstCipher
struct wlan_cipher wlan_network_security::ucstCipher
Type of network security Pairwise Cipher suite used internally
4.93.2.5 pkc
unsigned wlan_network_security::pkc
Proactive Key Caching
4.93.2.6 group_cipher
int wlan_network_security::group_cipher
Type of network security Group Cipher suite
4.93.2.7 pairwise cipher
int wlan_network_security::pairwise_cipher
Type of network security Pairwise Cipher suite
4.93.2.8 group_mgmt_cipher
int wlan_network_security::group_mgmt_cipher
Type of network security Pairwise Cipher suite
4.93.2.9 is_pmf_required
bool wlan_network_security::is_pmf_required
```



Is PMF required

4.93.2.10 psk

char wlan_network_security::psk[WLAN_PSK_MAX_LENGTH]

Pre-shared key (network password). For WEP networks this is a hex byte sequence of length psk_len, for WPA and WPA2 networks this is an ASCII pass-phrase of length psk_len. This field is ignored for networks with no security.

4.93.2.11 psk_len

uint8_t wlan_network_security::psk_len

Length of the WEP key or WPA/WPA2 pass phrase, WLAN_PSK_MIN_LENGTH to WLAN_PSK_MAX_LENGTH. Ignored for networks with no security.

4.93.2.12 password

char wlan_network_security::password[WLAN_PASSWORD_MAX_LENGTH+1]

WPA3 SAE password, for WPA3 SAE networks this is an ASCII password of length password_len. This field is ignored for networks with no security.

4.93.2.13 password_len

size_t wlan_network_security::password_len

Length of the WPA3 SAE Password, WLAN_PASSWORD_MIN_LENGTH to WLAN_PASSWORD_MAX_LENGTH. Ignored for networks with no security.

4.93.2.14 sae_groups

char* wlan_network_security::sae_groups

SAE Groups

4.93.2.15 pwe_derivation

 $\verb"uint8_t wlan_network_security::pwe_derivation"$

PWE derivation

4.93.2.16 transition_disable

uint8_t wlan_network_security::transition_disable

transition disable



4.93.2.17 pmk

 $\verb|char wlan_network_security::pmk[WLAN_PMK_LENGTH]|$

Pairwise Master Key. When pmk_valid is set, this is the PMK calculated from the PSK for WPA/PSK networks. If pmk_valid is not set, this field is not valid. When adding networks with wlan_add_network, users can initialize pmk and set pmk_valid in lieu of setting the psk. After successfully connecting to a WPA/PSK network, users can call wlan_get_current_network to inspect pmk_valid and pmk. Thus, the pmk value can be populated in subsequent calls to wlan_add_network. This saves the CPU time required to otherwise calculate the PMK.

4.93.2.18 pmk_valid

bool wlan_network_security::pmk_valid

Flag reporting whether pmk is valid or not.

4.93.2.19 mfpc

bool wlan_network_security::mfpc

Management Frame Protection Capable (MFPC)

4.93.2.20 mfpr

bool wlan_network_security::mfpr

Management Frame Protection Required (MFPR)

4.93.2.21 wpa3_sb

unsigned wlan_network_security::wpa3_sb

WPA3 Enterprise mode

4.93.2.22 wpa3_sb_192

unsigned wlan_network_security::wpa3_sb_192

WPA3 Enterprise Suite B 192 mode

4.93.2.23 eap_ver

unsigned wlan_network_security::eap_ver

PEAP version



4.93.2.24 peap_label unsigned wlan_network_security::peap_label PEAP label 4.93.2.25 eap_crypto_binding uint8_t wlan_network_security::eap_crypto_binding crypto_binding option can be used to control WLAN_SECURITY_EAP_PEAP_MSCHAPV2, WLAN_SECURIT ← Y_EAP_PEAP_TLS and WLAN_SECURITY_EAP_PEAP_GTC version 0 cryptobinding behavior: 0 = do not use cryptobinding (default) 1 = use cryptobinding if server supports it 2 = require cryptobinding 4.93.2.26 eap_result_ind unsigned wlan_network_security::eap_result_ind eap result ind=1 can be used to enable WLAN SECURITY EAP SIM, WLAN SECURITY EAP AKA and WL⊷ AN_SECURITY_EAP_AKA_PRIME to use protected result indication. 4.93.2.27 tls_cipher unsigned char wlan_network_security::tls_cipher Cipher for EAP TLS 4.93.2.28 identity char wlan_network_security::identity[IDENTITY_MAX_LENGTH] Identity string for EAP 4.93.2.29 anonymous_identity char wlan_network_security::anonymous_identity[IDENTITY_MAX_LENGTH] Anonymous identity string for EAP 4.93.2.30 eap_password

Password string for EAP. This field can include either the plaintext password (using ASCII or hex string)

char wlan_network_security::eap_password[PASSWORD_MAX_LENGTH]



```
4.93.2.31 ca_cert_data
unsigned char* wlan_network_security::ca_cert_data
CA cert blob in PEM/DER format
4.93.2.32 ca_cert_len
\verb|size_t wlan_network_security::ca_cert_len|\\
CA cert blob len
4.93.2.33 client_cert_data
unsigned char* wlan_network_security::client_cert_data
Client cert blob in PEM/DER format
4.93.2.34 client_cert_len
size_t wlan_network_security::client_cert_len
Client cert blob len
4.93.2.35 client_key_data
unsigned char* wlan_network_security::client_key_data
Client key blob
4.93.2.36 client key len
size_t wlan_network_security::client_key_len
Client key blob len
4.93.2.37 client_key_passwd
char wlan_network_security::client_key_passwd[PASSWORD_MAX_LENGTH]
Client key password
4.93.2.38 ca_cert_hash
char wlan_network_security::ca_cert_hash[HASH_MAX_LENGTH]
```



CA cert HASH

4.93 wlan_network_security Struct Reference 4.93.2.39 domain_match char wlan_network_security::domain_match[DOMAIN_MATCH_MAX_LENGTH] Domain 4.93.2.40 domain_suffix_match char wlan_network_security::domain_suffix_match[DOMAIN_MATCH_MAX_LENGTH] Domain Suffix 4.93.2.41 ca_cert2_data unsigned char* wlan_network_security::ca_cert2_data CA cert2 blob in PEM/DER format 4.93.2.42 ca_cert2_len size_t wlan_network_security::ca_cert2_len CA cert2 blob len 4.93.2.43 client_cert2_data unsigned char* wlan_network_security::client_cert2_data Client cert2 blob in PEM/DER format 4.93.2.44 client cert2 len size_t wlan_network_security::client_cert2_len Client cert2 blob len 4.93.2.45 client_key2_data unsigned char* wlan_network_security::client_key2_data

Client key2 blob

4.93.2.46 client_key2_len

size_t wlan_network_security::client_key2_len

Client key2 blob len



```
4.93.2.47 client_key2_passwd
char wlan_network_security::client_key2_passwd[PASSWORD_MAX_LENGTH]
Client key2 password
4.93.2.48 dh_data
unsigned char* wlan_network_security::dh_data
DH params blob
4.93.2.49 dh_len
\verb|size_t wlan_network_security::dh_len|\\
DH params blob len
4.93.2.50 server_cert_data
unsigned char* wlan_network_security::server_cert_data
Server cert blob in PEM/DER format
4.93.2.51 server_cert_len
size_t wlan_network_security::server_cert_len
Server cert blob len
4.93.2.52 server_key_data
unsigned char* wlan_network_security::server_key_data
Server key blob
4.93.2.53 server_key_len
size_t wlan_network_security::server_key_len
Server key blob len
4.93.2.54 server_key_passwd
char wlan_network_security::server_key_passwd[PASSWORD_MAX_LENGTH]
```



Server key password

4.93.2.55 nusers size_t wlan_network_security::nusers Number of EAP users 4.93.2.56 identities char wlan_network_security::identities[MAX_USERS][IDENTITY_MAX_LENGTH] User Identities 4.93.2.57 passwords char wlan_network_security::passwords[MAX_USERS][PASSWORD_MAX_LENGTH] User Passwords 4.93.2.58 pac_opaque_encr_key char wlan_network_security::pac_opaque_encr_key[PAC_OPAQUE_ENCR_KEY_MAX_LENGTH] Encryption key for EAP-FAST PAC-Opaque values 4.93.2.59 a_id char wlan_network_security::a_id[A_ID_MAX_LENGTH] EAP-FAST authority identity (A-ID) 4.93.2.60 fast_prov uint8_t wlan_network_security::fast_prov EAP-FAST provisioning modes: 0 = provisioning disabled 1 = only anonymous provisioning allowed 2 = only authenticated provisioning allowed 3 = both provisioning modes allowed (default)



unsigned char* wlan_network_security::dpp_connector



4.93.2.62 dpp_c_sign_key

unsigned char* wlan_network_security::dpp_c_sign_key

4.93.2.63 dpp_net_access_key

 ${\tt unsigned \ char* \ wlan_network_security::dpp_net_access_key}$

The documentation for this struct was generated from the following file:

· wlan.h

4.94 wlan_nlist_report_param Struct Reference

Data Fields

- enum wlan_nlist_mode nlist_mode
- t u8 num channels
- t_u8 channels [MAX_NUM_CHANS_IN_NBOR_RPT]
- t_u8 btm_mode
- t_u8 bssid [MLAN_MAC_ADDR_LENGTH]
- t_u8 dialog_token
- t_u8 dst_addr [MLAN_MAC_ADDR_LENGTH]
- t_u8 protect

4.94.1 Field Documentation

4.94.1.1 nlist_mode

 $\verb"enum wlan_nlist_mode wlan_nlist_report_param::nlist_mode"$

4.94.1.2 num_channels

t_u8 wlan_nlist_report_param::num_channels



4.94.1.3 channels

t_u8 wlan_nlist_report_param::channels[MAX_NUM_CHANS_IN_NBOR_RPT]

4.94.1.4 btm mode

t_u8 wlan_nlist_report_param::btm_mode

4.94.1.5 bssid

t_u8 wlan_nlist_report_param::bssid[MLAN_MAC_ADDR_LENGTH]

4.94.1.6 dialog_token

t_u8 wlan_nlist_report_param::dialog_token

4.94.1.7 dst_addr

t_u8 wlan_nlist_report_param::dst_addr[MLAN_MAC_ADDR_LENGTH]

4.94.1.8 protect

t_u8 wlan_nlist_report_param::protect

The documentation for this struct was generated from the following file:

· wifi.h

4.95 wlan_rrm_beacon_report_data Struct Reference

Data Fields

- t u8 token
- t_u8 ssid [MLAN_MAX_SSID_LENGTH]
- t_u8 ssid_length
- t_u8 bssid [MLAN_MAC_ADDR_LENGTH]
- t_u8 channel [MAX_CHANNEL_LIST]
- t_u8 channel_num
- t_u8 last_ind
- t_u16 duration
- enum wlan_rrm_beacon_reporting_detail report_detail
- t_u8 bits_field [32]



4.95.1 Field Documentation

4.95.1.1 token t_u8 wlan_rrm_beacon_report_data::token 4.95.1.2 ssid t_u8 wlan_rrm_beacon_report_data::ssid[MLAN_MAX_SSID_LENGTH] 4.95.1.3 ssid_length t_u8 wlan_rrm_beacon_report_data::ssid_length 4.95.1.4 bssid t_u8 wlan_rrm_beacon_report_data::bssid[MLAN_MAC_ADDR_LENGTH] 4.95.1.5 channel t_u8 wlan_rrm_beacon_report_data::channel[MAX_CHANNEL_LIST] 4.95.1.6 channel_num t_u8 wlan_rrm_beacon_report_data::channel_num

4.95.1.7 last_ind

t_u8 wlan_rrm_beacon_report_data::last_ind



4.95.1.8 duration

t_u16 wlan_rrm_beacon_report_data::duration

4.95.1.9 report_detail

enum wlan_rrm_beacon_reporting_detail wlan_rrm_beacon_report_data::report_detail

4.95.1.10 bits_field

t_u8 wlan_rrm_beacon_report_data::bits_field[32]

The documentation for this struct was generated from the following file:

· wifi.h

4.96 wlan_rrm_neighbor_ap_t Struct Reference

Data Fields

- char ssid [MLAN_MAX_SSID_LENGTH]
- t_u8 bssid [MLAN_MAX_SSID_LENGTH]
- t_u8 bssidInfo [32]
- int op_class
- int channel
- int phy_type
- int freq

4.96.1 Field Documentation

4.96.1.1 ssid

 $\verb|char wlan_rrm_neighbor_ap_t::ssid[MLAN_MAX_SSID_LENGTH]|\\$

4.96.1.2 bssid

t_u8 wlan_rrm_neighbor_ap_t::bssid[MLAN_MAX_SSID_LENGTH]



4.96.1.3 bssidInfo

t_u8 wlan_rrm_neighbor_ap_t::bssidInfo[32]

4.96.1.4 op_class

int wlan_rrm_neighbor_ap_t::op_class

4.96.1.5 channel

int wlan_rrm_neighbor_ap_t::channel

4.96.1.6 phy_type

int wlan_rrm_neighbor_ap_t::phy_type

4.96.1.7 freq

int wlan_rrm_neighbor_ap_t::freq

The documentation for this struct was generated from the following file:

· wifi.h

4.97 wlan_rrm_neighbor_report_t Struct Reference

Data Fields

- wlan_rrm_neighbor_ap_t neighbor_ap [MAX_NEIGHBOR_AP_LIMIT]
- int neighbor_cnt

4.97.1 Field Documentation



4.97.1.1 neighbor_ap

wlan_rrm_neighbor_ap_t wlan_rrm_neighbor_report_t::neighbor_ap[MAX_NEIGHBOR_AP_LIMIT]

4.97.1.2 neighbor_cnt

int wlan_rrm_neighbor_report_t::neighbor_cnt

The documentation for this struct was generated from the following file:

· wifi.h

4.98 wlan_rrm_scan_cb_param Struct Reference

Data Fields

- wlan_rrm_beacon_report_data rep_data
- t_u8 dialog_tok
- t_u8 dst_addr [MLAN_MAC_ADDR_LENGTH]
- t_u8 protect

4.98.1 Field Documentation

4.98.1.1 rep_data

wlan_rrm_beacon_report_data wlan_rrm_scan_cb_param::rep_data

4.98.1.2 dialog_tok

t_u8 wlan_rrm_scan_cb_param::dialog_tok

4.98.1.3 dst_addr

t_u8 wlan_rrm_scan_cb_param::dst_addr[MLAN_MAC_ADDR_LENGTH]



4.98.1.4 protect

```
t_u8 wlan_rrm_scan_cb_param::protect
```

The documentation for this struct was generated from the following file:

· wifi.h

4.99 wlan_scan_result Struct Reference

Data Fields

- char ssid [33]
- unsigned int ssid_len
- char bssid [6]
- · unsigned int channel
- enum wlan_bss_type type
- enum wlan_bss_role role
- unsigned dot11n: 1
- unsigned dot11ac: 1
- unsigned dot11ax: 1
- · unsigned wmm: 1
- unsigned wps: 1
- unsigned int wps_session
- · unsigned wep: 1
- · unsigned wpa: 1
- unsigned wpa2: 1
- unsigned wpa2_sha256: 1
- unsigned wpa3_sae: 1
- unsigned wpa2_entp: 1
- unsigned wpa2_entp_sha256: 1
- unsigned wpa3_1x_sha256: 1
- unsigned wpa3_1x_sha384: 1
- unsigned ft_1x: 1
- unsigned ft_1x_sha384: 1
- unsigned ft_psk: 1
- unsigned ft_sae: 1
- · unsigned char rssi
- char trans_ssid [33]
- unsigned int trans_ssid_len
- char trans_bssid [6]
- uint16_t beacon_period
- uint8_t dtim_period
- t_u8 ap_mfpc
- t_u8 ap_mfpr
- t_u8 ap_pwe
- · bool neighbor_report_supported
- · bool bss_transition_supported



4.99.1 Detailed Description

Scan Result

4.99.2 Field Documentation

4.99.2.1 ssid

```
char wlan_scan_result::ssid[33]
```

The network SSID, represented as a NULL-terminated C string of 0 to 32 characters. If the network has a hidden SSID, this will be the empty string.

4.99.2.2 ssid_len

```
unsigned int wlan_scan_result::ssid_len
```

SSID length

4.99.2.3 bssid

```
char wlan_scan_result::bssid[6]
```

The network BSSID, represented as a 6-byte array.

4.99.2.4 channel

```
unsigned int wlan_scan_result::channel
```

The network channel.

4.99.2.5 type

```
enum wlan_bss_type wlan_scan_result::type
```

The network wireless type.

4.99.2.6 role

```
enum wlan_bss_role wlan_scan_result::role
```

The network wireless mode.



4.99.2.7 dot11n

unsigned wlan_scan_result::dot11n

The network supports 802.11N. This is set to 0 if the network does not support 802.11N or if the system does not have 802.11N support enabled.

4.99.2.8 dot11ac

unsigned wlan_scan_result::dot11ac

The network supports 802.11AC. This is set to 0 if the network does not support 802.11AC or if the system does not have 802.11AC support enabled.

4.99.2.9 dot11ax

unsigned wlan_scan_result::dot11ax

The network supports 802.11AX. This is set to 0 if the network does not support 802.11AX or if the system does not have 802.11AX support enabled.

4.99.2.10 wmm

unsigned wlan_scan_result::wmm

The network supports WMM. This is set to 0 if the network does not support WMM or if the system does not have WMM support enabled.

4.99.2.11 wps

unsigned wlan_scan_result::wps

The network supports WPS. This is set to 0 if the network does not support WPS or if the system does not have WPS support enabled.

4.99.2.12 wps_session

unsigned int wlan_scan_result::wps_session

WPS Type PBC/PIN

4.99.2.13 wep

unsigned wlan_scan_result::wep

The network uses WEP security.



4.99.2.14 wpa unsigned wlan_scan_result::wpa The network uses WPA security. 4.99.2.15 wpa2 unsigned wlan_scan_result::wpa2 The network uses WPA2 security 4.99.2.16 wpa2_sha256 unsigned wlan_scan_result::wpa2_sha256 The network uses WPA2 SHA256 security 4.99.2.17 wpa3_sae unsigned wlan_scan_result::wpa3_sae The network uses WPA3 SAE security 4.99.2.18 wpa2_entp unsigned wlan_scan_result::wpa2_entp The network uses WPA2 Enterprise security 4.99.2.19 wpa2 entp sha256 unsigned wlan_scan_result::wpa2_entp_sha256 The network uses WPA2 Enterprise SHA256 security 4.99.2.20 wpa3_1x_sha256 unsigned wlan_scan_result::wpa3_1x_sha256 The network uses WPA3 Enterprise SHA256 security

4.99.2.21 wpa3_1x_sha384

unsigned wlan_scan_result::wpa3_1x_sha384

The network uses WPA3 Enterprise SHA384 security



4.99.2.22 ft_1x

unsigned wlan_scan_result::ft_1x

The network uses FT 802.1x security (For internal use only)

4.99.2.23 ft_1x_sha384

unsigned wlan_scan_result::ft_1x_sha384

The network uses FT 892.1x SHA384 security

4.99.2.24 ft_psk

unsigned wlan_scan_result::ft_psk

The network uses FT PSK security (For internal use only)

4.99.2.25 ft_sae

unsigned wlan_scan_result::ft_sae

The network uses FT SAE security (For internal use only)

4.99.2.26 rssi

unsigned char wlan_scan_result::rssi

The signal strength of the beacon

4.99.2.27 trans_ssid

char wlan_scan_result::trans_ssid[33]

The network SSID, represented as a NULL-terminated C string of 0 to 32 characters. If the network has a hidden SSID, this will be the empty string.

4.99.2.28 trans_ssid_len

unsigned int wlan_scan_result::trans_ssid_len

SSID length



```
4.99.2.29 trans_bssid
char wlan_scan_result::trans_bssid[6]
The network BSSID, represented as a 6-byte array.
4.99.2.30 beacon_period
uint16_t wlan_scan_result::beacon_period
Beacon Period
4.99.2.31 dtim_period
uint8_t wlan_scan_result::dtim_period
DTIM Period
4.99.2.32 ap_mfpc
t_u8 wlan_scan_result::ap_mfpc
MFPC bit of AP
4.99.2.33 ap_mfpr
t_u8 wlan_scan_result::ap_mfpr
MFPR bit of AP
4.99.2.34 ap_pwe
t_u8 wlan_scan_result::ap_pwe
PWE bit of AP
4.99.2.35 neighbor_report_supported
```

bool wlan_scan_result::neighbor_report_supported

Neigbort report support (For internal use only)



4.99.2.36 bss_transition_supported

```
bool wlan_scan_result::bss_transition_supported
```

bss transition support (For internal use only)

The documentation for this struct was generated from the following file:

• wlan.h

4.100 wnm_sleep_result_t Struct Reference

Data Fields

- uint8_t action
- uint8_t result

4.100.1 Field Documentation

4.100.1.1 action

```
uint8_t wnm_sleep_result_t::action
```

4.100.1.2 result

```
uint8_t wnm_sleep_result_t::result
```

The documentation for this struct was generated from the following file:

· wlan.h



Chapter 5

File Documentation

5.1 cli.h File Reference

CLI module.

5.1.1 Detailed Description

5.1.2 Usage

The CLI module lets you register commands with the CLI interface. Modules that wish to register the commands should initialize the struct cli_command structure and pass this to cli_register_command(). These commands will then be available on the CLI.

5.1.3 Function Documentation

5.1.3.1 lookup_command()

5.1.3.2 cli_register_command()

Register a CLI command

This function registers a command with the command-line interface.



Parameters

in	command	The structure to register one CLI command	1
----	---------	---	---

Returns

0 on success 1 on failure

5.1.3.3 cli_unregister_command()

Unregister a CLI command

This function unregisters a command from the command-line interface.

Parameters

	in	command	The structure to unregister one CLI command
--	----	---------	---

Returns

0 on success 1 on failure

5.1.3.4 cli_init()

```
int cli_init (
     void )
```

Initialize the CLI module

Returns

WM_SUCCESS on success error code otherwise.



5.1 cli.h File Reference 153

5.1.3.5 cli_deinit()

```
int cli_deinit (
     void )
```

DeInitialize the CLI module

Returns

WM_SUCCESS on success error code otherwise.

5.1.3.6 cli_stop()

```
int cli_stop (
     void )
```

Stop the CLI thread and carry out the cleanup

Returns

WM_SUCCESS on success error code otherwise.

5.1.3.7 cli_register_commands()

Register a batch of CLI commands

Often, a module will want to register several commands.

Parameters

in	commands	Pointer to an array of commands.
in	num_commands	Number of commands in the array.

Returns

0 on success 1 on failure



5.1.3.8 cli_unregister_commands()

Unregister a batch of CLI commands

Parameters

in	commands	Pointer to an array of commands.
in	num_commands	Number of commands in the array.

Returns

0 on success 1 on failure

5.1.3.9 cli_get_cmd_buffer()

Get a command buffer

If an external input task wants to use the CLI, it can use cli_get_cmd_buffer() to get a command buffer that it can then submit to the CLI later using cli_submit_cmd_buffer().

Parameters

Returns

WM_SUCCESS on success error code otherwise.

5.1.3.10 cli_submit_cmd_buffer()

Submit a command buffer to the CLI

Sends the command buffer to the CLI for processing.



5.1 cli.h File Reference

Parameters

```
buff Pointer to a char * buffer.
```

Returns

WM_SUCCESS on success error code otherwise.

5.1.3.11 cli_add_history_hook()

5.1.3.12 help_command()

5.1.4 Macro Documentation

5.1.4.1 CONFIG_APP_FRM_CLI_HISTORY

```
#define CONFIG_APP_FRM_CLI_HISTORY 1
```

5.1.5 Typedef Documentation

5.1.5.1 cli_name_val_get

```
typedef int(* cli_name_val_get) (const char *name, char *value, int max_len)
```



5.1.5.2 cli_name_val_set

```
typedef int(* cli_name_val_set) (const char *name, const char *value)
```

5.2 dhcp-server.h File Reference

DHCP server.

5.2.1 Detailed Description

The DHCP Server is required in the provisioning mode of the application to assign IP Address to Wireless Clients that connect to the WM.

5.2.2 Function Documentation

5.2.2.1 dhcpd_cli_init()

Register DHCP server commands

This function registers the CLI dhcp-stat for the DHCP server. dhcp-stat command displays ip to associated client mac mapping.

Returns

-WM_E_DHCPD_REGISTER_CMDS if cli init operation failed. WM_SUCCESS if cli init operation success.

5.2.2.2 dhcpd_cli_deinit()

Unrgister DHCP server commands

This function unregisters the CLI dhcp-stat for the DHCP server. dhcp-stat command displays ip to associated client mac mapping.

Returns

-WM_E_DHCPD_REGISTER_CMDS if cli init operation failed. WM_SUCCESS if cli init operation success.



5.2.2.3 dhcp_server_start()

Start DHCP server

This starts the DHCP server on the interface specified. Typically DHCP server should be running on the micro-AP interface but it can also run on wifi direct interface if configured as group owner. Use net_get_uap_handle() to get micro-AP interface handle.

Parameters

in	intrfc_handle	The interface handle on which DHCP server will start
----	---------------	--

Returns

WM_SUCCESS on success or error code

5.2.2.4 dhcp_enable_dns_server()

Start DNS server

This starts the DNS server on the interface specified for dhcp server. This function needs to be used before dhcpc_server_start() function and can be invoked on receiving WLAN_REASON_INITIALIZED event in the application before starting micro-AP.

The application needs to define its own list of domain names with the last entry as NULL. The dns server handles dns queries and if domain name match is found then resolves it to device ip address. Currently the maximum length for each domain name is set to 32 bytes.

```
Eg. char *domain_names[] = {"nxpprov.net", "www.nxpprov.net", NULL};
```

```
dhcp_enable_dns_server(domain_names);
```

However, application can also start dns server without any domain names specified to solve following issue. Some of the client devices do not show WiFi signal strength symbol when connected to micro-AP in open mode, if dns queries are not resolved. With dns server support enabled, dns server responds with ERROR_REFUSED indicating that the DNS server refuses to provide whatever data client is asking for.

Parameters

in	domain_names	Pointer to the list of domain names or NULL.
----	--------------	--



5.2.2.5 dhcp_server_stop()

Stop DHCP server

5.2.2.6 dhcp_server_lease_timeout()

Configure the DHCP dynamic IP lease time

This API configures the dynamic IP lease time, which should be invoked before DHCP server initialization

Parameters

in	val	Number of seconds, use (60U*60U*number of hours) for clarity. Max value is
		(60U*60U*24U*49700U)

Returns

Error status code

5.2.2.7 dhcp_get_ip_from_mac()

Get IP address corresponding to MAC address from dhcpd ip-mac mapping

This API returns IP address mapping to the MAC address present in cache. IP-MAC cache stores MAC to IP mapping of previously or currently connected clients.

Parameters

in	client_mac	Pointer to a six byte array containing the MAC address of the client
out	client_ip	Pointer to IP address of the client

Returns

WM_SUCCESS on success or -WM_FAIL.



5.2.2.8 dhcp_stat()

```
void dhcp_stat (
     void )
```

Print DHCP stats on the console

This API prints DHCP stats on the console

5.2.3 Macro Documentation

5.2.3.1 MAX_QNAME_SIZE

```
#define MAX_QNAME_SIZE 32
```

5.2.4 Enumeration Type Documentation

5.2.4.1 wm_dhcpd_errno

enum wm_dhcpd_errno

DHCPD Error Codes

Enumerator

WM_E_DHCPD_ERRNO_BASE	
WM_E_DHCPD_SERVER_RUNNING	Dhcp server is already running
WM_E_DHCPD_THREAD_CREATE	Failed to create dhcp thread
WM_E_DHCPD_MUTEX_CREATE	Failed to create dhcp mutex
WM_E_DHCPD_REGISTER_CMDS	Failed to register dhcp commands
WM_E_DHCPD_RESP_SEND	Failed to send dhcp response
WM_E_DHCPD_DNS_IGNORE	Ignore as msg is not a valid dns query
WM_E_DHCPD_BUFFER_FULL	Buffer overflow occurred
WM_E_DHCPD_INVALID_INPUT	The input message is NULL or has incorrect length
WM_E_DHCPD_INVALID_OPCODE	Invalid opcode in the dhcp message
WM_E_DHCPD_INCORRECT_HEADER	Invalid header type or incorrect header length
WM_E_DHCPD_SPOOF_NAME	Spoof length is either NULL or it exceeds max length
WM_E_DHCPD_BCAST_ADDR	Failed to get broadcast address
WM_E_DHCPD_IP_ADDR	Failed to look up requested IP address from the interface
WM_E_DHCPD_NETMASK	Failed to look up requested netmask from the interface
WM_E_DHCPD_SOCKET	Failed to create the socket
WM_E_DHCPD_ARP_SEND	Failed to send Gratuitous ARP
WM_E_DHCPD_IOCTL_CALL	Error in ioctl call
MM_E_DHCbD_IMI	Falled to Init dncp server



5.3 iperf.h File Reference

This file provides the support for network utility iperf.

5.3.1 Function Documentation

```
5.3.1.1 iperf_cli_init()
```

```
int iperf_cli_init ( )
```

Register the Network Utility CLI command iperf.

Note

This function can only be called by the application after wlan_init() called.

Returns

WM_SUCCESS if the CLI commands are registered

-WM_FAIL otherwise (for example if this function was called while the CLI commands were already registered)

```
5.3.1.2 iperf_cli_deinit()
```

```
int iperf_cli_deinit ( )
```

Unregister Network Utility CLI command iperf.

Returns

WM_SUCCESS if the CLI commands are unregistered -WM FAIL otherwise

5.3.2 Macro Documentation

```
5.3.2.1 iperf_e
```



5.4 osa.h File Reference

5.3.2.2 iperf_w

5.4 osa.h File Reference

5.4.1 Function Documentation

5.4.1.1 OSA_TimerCreate()

Create timer

This function creates a timer.

Parameters

in	timerHandle	Pointer to the timer handle
in	ticks	Period in ticks
in	call_back	Timer expire callback function
in	cb_arg	Timer callback data
in	reload	Reload Options, valid values include KOSA_TimerOnce or KOSA_TimerPeriodic.
in	activate	Activate Options, valid values include OSA_TIMER_AUTO_ACTIVATE or OSA_TIMER_NO_ACTIVATE

Returns

KOSA_StatusSuccess if timer created successfully KOSA_StatusError if timer creation fails

5.4.1.2 OSA_TimerActivate()

Activate timer

This function activates (or starts) a timer that was previously created using OSA_TimerCreate(). If the timer had already started and was already in the active state, then this call is equivalent to OSA_TimerReset().



Parameters

n timerHandle Pointer to a timer handle

Returns

KOSA_StatusSuccess if timer activated successfully KOSA_StatusError if timer activation fails

5.4.1.3 OSA_TimerChange()

Change timer period

This function changes the period of a timer that was previously created using OSA_TimerCreate(). This function changes the period of an active or dormant state timer.

Parameters

	in	timerHandle	Pointer to a timer handle
	in	ntime	Time in ticks after which the timer will expire
in block_time This o		block_time	This option is currently not supported

Returns

KOSA_StatusSuccess if timer change successfully KOSA_StatusError if timer change fails

5.4.1.4 OSA_TimerIsRunning()

Check the timer active state

This function checks if the timer is in the active or dormant state. A timer is in the dormant state if (a) it has been created but not started, or (b) it has expired and a one-shot timer.

Parameters

	in	timerHandle	Pointer to a timer handle
--	----	-------------	---------------------------



5.4 osa.h File Reference 163

Returns

true if timer is active false if time is not active

5.4.1.5 OSA_TimerGetContext()

Get the timer context

This function helps to retrieve the timer context i.e. 'cb_arg' passed to OSA_TimerCreate().

Parameters

in	timer←	Pointer to timer handle. The timer handle is received in the timer callback.
	t	

Returns

The timer context i.e. the callback argument passed to OSA_TimerCreate().

5.4.1.6 OSA_TimerReset()

Reset timer

This function resets a timer that was previously created using using OSA_TimerCreate(). If the timer had already been started and was already in the active state, then this call will cause the timer to re-evaluate its expiry time so that it is relative to when OSA_TimerReset() was called. If the timer was in the dormant state then this call behaves in the same way as OSA_TimerActivate().

Parameters

in	timerHandle	Pointer to a timer handle
----	-------------	---------------------------

Returns

KOSA_StatusSuccess if timer reset successfully KOSA_StatusError if timer reset fails



5.4.1.7 OSA_TimerDeactivate()

Deactivate timer

This function deactivates (or stops) a timer that was previously started.

Parameters

in	timerHandle	handle populated by OSA_TimerCreate().
----	-------------	--

Returns

KOSA_StatusSuccess if timer deactivate successfully KOSA_StatusError if timer deactivate fails

5.4.1.8 OSA_TimerDestroy()

Destroy timer

This function deletes a timer.

Parameters

in	timerHandle	Pointer to a timer handle
----	-------------	---------------------------

Returns

KOSA_StatusSuccess if timer destroy successfully KOSA_StatusError if timer destroy fails

5.4.1.9 OSA_RWLockCreateWithCB()



5.4 osa.h File Reference 165

5.4.1.10 OSA_RWLockCreate()

Create reader-writer lock

This function creates a reader-writer lock.

Parameters

in	lock	Pointer to a reader-writer lock handle
in	mutex_name	Name of the mutex
in	lock_name	Name of the lock

Returns

```
WM_SUCCESS on success -WM_FAIL on error
```

5.4.1.11 OSA_RWLockDestroy()

Delete a reader-write lock

This function deletes a reader-writer lock.

Parameters

in	lock	Pointer to the reader-writer lock handle

5.4.1.12 OSA_RWLockWriteLock()

Acquire writer lock

This function acquires a writer lock. While readers can acquire the lock on a sharing basis, writers acquire the lock in an exclusive manner.



Parameters

in	lock	Pointer to the reader-writer lock handle
in	wait_time	The maximum amount of time, in OS ticks, the task should block waiting for the lock to be
		acquired. The special values osaWaitForever_c and osaWaitNone_c are provided to
		respectively wait infinitely or return immediately.

Returns

```
WM_SUCCESS on success -WM FAIL on error
```

5.4.1.13 OSA_RWLockWriteUnlock()

Release writer lock

This function releases a writer lock previously acquired using OSA_RWLockWriteLock().

Parameters

in	lock	Pointer to the reader-writer lock handle
----	------	--

5.4.1.14 OSA_RWLockReadLock()

Acquire reader lock

This function acquires a reader lock. While readers can acquire the lock on a sharing basis, writers acquire the lock in an exclusive manner.

Parameters

in	lock	pointer to the reader-writer lock handle
in	wait_time	The maximum amount of time, in OS ticks, the task should block waiting for the lock to be
		acquired. The special values osaWaitForever_c and osaWaitNone_c are provided to
		respectively wait infinitely or return immediately.



5.4 osa.h File Reference 167

Returns

```
WM_SUCCESS on success -WM_FAIL on error
```

5.4.1.15 OSA_RWLockReadUnlock()

Release reader lock

This function releases a reader lock previously acquired using OSA_RWLockReadLock().

Parameters

	in	lock	pointer to the reader-writer lock handle	-
--	----	------	--	---

Returns

WM_SUCCESS if unlock operation successful. -WM_FAIL if unlock operation failed.

5.4.1.16 OSA_SetupIdleFunction()

Setup idle function

This function sets up a callback function which will be called whenever the system enters the idle thread context.

Parameters

in	func	The callback function

Returns

WM_SUCCESS on success -WM_FAIL on error

5.4.1.17 OSA_SetupTickFunction()



Setup tick function

This function sets up a callback function which will be called on every SysTick interrupt.

Parameters

in <i>func</i>	The callback function
----------------	-----------------------

Returns

```
WM_SUCCESS on success -WM_FAIL on error
```

5.4.1.18 OSA_RemoveIdleFunction()

Remove idle function

This function removes an idle callback function that was registered previously using OSA_SetupIdleFunction().

Parameters

in	func	The callback function

Returns

```
WM_SUCCESS on success -WM_FAIL on error
```

5.4.1.19 OSA_RemoveTickFunction()

Remove tick function

This function removes a tick callback function that was registered previously using OSA_SetupTickFunction().

Parameters

in <i>func</i>	Callback function
----------------	-------------------



5.4 osa.h File Reference

Returns

```
WM_SUCCESS on success -WM_FAIL on error
```

5.4.1.20 OSA_Srand()

This function initialize the seed for rand generator

Returns

a uint32_t random numer

5.4.1.21 OSA_Rand()

```
static uint32_t OSA_Rand ( ) [inline], [static]
```

This function generate a random number

Returns

a uint32_t random numer

5.4.1.22 OSA_RandRange()

This function generate a random number in a range

Parameters

in	low	range low
in	high	range high

Returns

a uint32_t random numer



5.4.1.23 OSA_DumpThreadInfo()

```
void OSA_DumpThreadInfo ( {\tt char} \ * \ {\it name} \ )
```

5.4.1.24 OSA_ThreadSelfComplete()

Suspend the given thread

- The function OSA_ThreadSelfComplete() will **permanently** suspend the given thread. Passing NULL will suspend the current thread. This function never returns.
- The thread continues to consume system resources. To delete the thread the function OSA_TaskDestroy() needs to be called separately.

Parameters

	in	taskHandle	Pointer to thread handle	
--	----	------------	--------------------------	--

5.4.1.25 OSA_MsgQWaiting()

Return the number of messages stored in queue.

Parameters

in	msgqHandle	Pointer to handle of the queue to be queried.
----	------------	---

Returns

Number of items in the queue

5.4.2 Macro Documentation

5.4.2.1 MAX_CUSTOM_HOOKS

#define MAX_CUSTOM_HOOKS 4U



5.4.3 Typedef Documentation

5.4.3.1 cb_fn

```
typedef int(* cb_fn) (osa_rw_lock_t *plock, unsigned int wait_time)
```

This is prototype of reader callback

5.4.4 Variable Documentation

5.4.4.1 g_osa_tick_hooks

```
void(* g_osa_tick_hooks[MAX_CUSTOM_HOOKS])(void)
```

5.4.4.2 g_osa_idle_hooks

```
void(* g_osa_idle_hooks[MAX_CUSTOM_HOOKS])(void)
```

5.4.4.3 wm_rand_seed

uint32_t wm_rand_seed

5.5 README.txt File Reference

5.6 wifi-decl.h File Reference

Wifi structure declarations.

5.6.1 Macro Documentation



5.6.1.1 MLAN_MAC_ADDR_LENGTH

#define MLAN_MAC_ADDR_LENGTH (6U)

5.6.1.2 MLAN_MAX_VER_STR_LEN

#define MLAN_MAX_VER_STR_LEN 128

Version string buffer length

5.6.1.3 WIFI_MAX_CHANNEL_NUM

#define WIFI_MAX_CHANNEL_NUM 42

5.6.1.4 PMK_BIN_LEN

#define PMK_BIN_LEN 32

5.6.1.5 PMK_HEX_LEN

#define PMK_HEX_LEN 64

5.6.1.6 MOD_GROUPS

#define MOD_GROUPS 7

5.6.1.7 WIFI_SUPPORT_11AX

#define WIFI_SUPPORT_11AX (1 << 3)

5.6.1.8 WIFI_SUPPORT_11AC

#define WIFI_SUPPORT_11AC (1 << 2)



5.6 wifi-decl.h File Reference 173

5.6.1.9 WIFI_SUPPORT_11N

#define WIFI_SUPPORT_11N (1 << 1)

5.6.1.10 WIFI_SUPPORT_LEGACY

 $\#define WIFI_SUPPORT_LEGACY (1 << 0)$

5.6.1.11 BSS_TYPE_STA

#define BSS_TYPE_STA OU

BSS type: STA

5.6.1.12 BSS_TYPE_UAP

#define BSS_TYPE_UAP 1U

BSS type: UAP

5.6.1.13 UAP_DEFAULT_CHANNEL

#define UAP_DEFAULT_CHANNEL 0

5.6.1.14 UAP_DEFAULT_BANDWIDTH

#define UAP_DEFAULT_BANDWIDTH 2

5.6.1.15 UAP_DEFAULT_BEACON_PERIOD

#define UAP_DEFAULT_BEACON_PERIOD 100

5.6.1.16 UAP_DEFAULT_HIDDEN_SSID

#define UAP_DEFAULT_HIDDEN_SSID 0



5.6.1.17 MLAN_MAX_SSID_LENGTH

#define MLAN_MAX_SSID_LENGTH (32U)

MLAN Maximum SSID Length

5.6.1.18 MLAN_MAX_PASS_LENGTH

#define MLAN_MAX_PASS_LENGTH (64)

MLAN Maximum PASSPHRASE Length

5.6.1.19 BIT

```
#define BIT(  n \ ) \ (1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ )
```

5.6.1.20 WOWLAN_MAX_PATTERN_LEN

#define WOWLAN_MAX_PATTERN_LEN 20

5.6.1.21 WOWLAN_MAX_OFFSET_LEN

#define WOWLAN_MAX_OFFSET_LEN 50

5.6.1.22 MAX_NUM_FILTERS

#define MAX_NUM_FILTERS 10

5.6.1.23 MEF_MODE_HOST_SLEEP

#define MEF_MODE_HOST_SLEEP (1 << 0)



5.6.1.24 MEF_MODE_NON_HOST_SLEEP

 $\#define MEF_MODE_NON_HOST_SLEEP (1 << 1)$

5.6.1.25 MEF_ACTION_WAKE

 $\#define MEF_ACTION_WAKE (1 << 0)$

5.6.1.26 MEF_ACTION_ALLOW

 $\#define MEF_ACTION_ALLOW (1 << 1)$

5.6.1.27 MEF_ACTION_ALLOW_AND_WAKEUP_HOST

#define MEF_ACTION_ALLOW_AND_WAKEUP_HOST 3

5.6.1.28 MEF_AUTO_ARP

#define MEF_AUTO_ARP 0x10

5.6.1.29 MEF_AUTO_PING

#define MEF_AUTO_PING 0x20

5.6.1.30 MEF_NS_RESP

#define MEF_NS_RESP 0x40

5.6.1.31 MEF_MAGIC_PKT

#define MEF_MAGIC_PKT 0x80



5.6.1.32 CRITERIA_BROADCAST

#define CRITERIA_BROADCAST MBIT(0)

5.6.1.33 CRITERIA_UNICAST

#define CRITERIA_UNICAST MBIT(1)

5.6.1.34 CRITERIA_MULTICAST

#define CRITERIA_MULTICAST MBIT(3)

5.6.1.35 MAX_NUM_ENTRIES

#define MAX_NUM_ENTRIES 8

5.6.1.36 MAX_NUM_BYTE_SEQ

#define MAX_NUM_BYTE_SEQ 6

5.6.1.37 MAX_NUM_MASK_SEQ

#define MAX_NUM_MASK_SEQ 6

5.6.1.38 OPERAND_DNUM

#define OPERAND_DNUM 1

5.6.1.39 OPERAND_BYTE_SEQ

#define OPERAND_BYTE_SEQ 2



5.6.1.40 MAX_OPERAND

#define MAX_OPERAND 0x40

5.6.1.41 TYPE_BYTE_EQ

#define TYPE_BYTE_EQ (MAX_OPERAND + 1)

5.6.1.42 TYPE_DNUM_EQ

#define TYPE_DNUM_EQ (MAX_OPERAND + 2)

5.6.1.43 TYPE_BIT_EQ

#define TYPE_BIT_EQ (MAX_OPERAND + 3)

5.6.1.44 RPN_TYPE_AND

#define RPN_TYPE_AND (MAX_OPERAND + 4)

5.6.1.45 RPN_TYPE_OR

#define RPN_TYPE_OR (MAX_OPERAND + 5)

5.6.1.46 ICMP_OF_IP_PROTOCOL

#define ICMP_OF_IP_PROTOCOL 0x01

5.6.1.47 TCP_OF_IP_PROTOCOL

#define TCP_OF_IP_PROTOCOL 0x06



5.6.1.48 UDP_OF_IP_PROTOCOL

#define UDP_OF_IP_PROTOCOL 0x11

5.6.1.49 IPV4_PKT_OFFSET

#define IPV4_PKT_OFFSET 20

5.6.1.50 IP_PROTOCOL_OFFSET

#define IP_PROTOCOL_OFFSET 31

5.6.1.51 PORT_PROTOCOL_OFFSET

#define PORT_PROTOCOL_OFFSET 44

5.6.1.52 FILLING_TYPE

#define FILLING_TYPE MBIT(0)

5.6.1.53 FILLING_PATTERN

#define FILLING_PATTERN MBIT(1)

5.6.1.54 FILLING_OFFSET

#define FILLING_OFFSET MBIT(2)

5.6.1.55 FILLING_NUM_BYTES

#define FILLING_NUM_BYTES MBIT(3)



5.6.1.56 FILLING_REPEAT

#define FILLING_REPEAT MBIT(4)

5.6.1.57 FILLING_BYTE_SEQ

#define FILLING_BYTE_SEQ MBIT(5)

5.6.1.58 FILLING_MASK_SEQ

#define FILLING_MASK_SEQ MBIT(6)

5.6.1.59 MKEEP_ALIVE_IP_PKT_MAX

#define MKEEP_ALIVE_IP_PKT_MAX 256

5.6.1.60 WLAN_BTWT_REPORT_LEN

#define WLAN_BTWT_REPORT_LEN 9

5.6.1.61 WLAN_BTWT_REPORT_MAX_NUM

#define WLAN_BTWT_REPORT_MAX_NUM 4

5.6.1.62 BAND_SPECIFIED

#define BAND_SPECIFIED 0x80U

Scan all the channels in specified band

5.6.1.63 MAX_CHANNEL_LIST

#define MAX_CHANNEL_LIST 6



5.6.1.64 MAX_NUM_SSID

#define MAX_NUM_SSID 2

5.6.1.65 MAX_FUNC_SYMBOL_LEN

#define MAX_FUNC_SYMBOL_LEN 64

5.6.1.66 OS_MEM_STAT_TABLE_SIZE

#define OS_MEM_STAT_TABLE_SIZE 128

5.6.1.67 CSI_FILTER_MAX

#define CSI_FILTER_MAX 16

5.6.2 Enumeration Type Documentation

5.6.2.1 wifi_bss_security

enum wifi_bss_security

Enumerator

WIFI_SECURITY_NONE	
WIFI_SECURITY_WEP_STATIC	
WIFI_SECURITY_WEP_DYNAMIC	
WIFI_SECURITY_WPA	
WIFI SECURITY WPA2	

5.6.2.2 wifi_bss_features

enum wifi_bss_features



Enumerator

WIFI_BSS_FEATURE_WMM	
WIFI_BSS_FEATURE_WPS	

5.6.2.3 wlan_type

enum wlan_type

Enumerator

WLAN_TYPE_NORMAL	
WLAN_TYPE_WIFI_CALIB	
WLAN_TYPE_FCC_CERTIFICATION	

5.6.2.4 wifi_ds_command_type

enum wifi_ds_command_type

Enumerator

WIFI_DS_RATE_CFG	
WIFI DS GET DATA RATE	

5.6.2.5 wifi_SubBand_t

enum wifi_SubBand_t

Wifi subband enum

Enumerator

SubBand_2_4_GHz	Subband 2.4 GHz
SubBand_5_GHz↔	Subband 5 GHz 0
_0	
SubBand_5_GHz↔	Subband 5 GHz 1
_1	
SubBand_5_GHz↔	Subband 5 GHz 2
_2	
SubBand_5_GHz↔	Subband 5 GHz 3
_3	



5.6.2.6 wifi_frame_type_t

```
enum wifi_frame_type_t
```

Wifi frame types

Enumerator

ASSOC_REQ_FRAME	Assoc request frame	
ASSOC_RESP_FRAME	Assoc response frame	
REASSOC_REQ_FRAME	ReAssoc request frame	
REASSOC_RESP_FRAME	ReAssoc response frame	
PROBE_REQ_FRAME	Probe request frame	
PROBE_RESP_FRAME	Probe response frame	
BEACON_FRAME	BEACON frame	
DISASSOC_FRAME	Dis assoc frame	
AUTH_FRAME	Auth frame	
DEAUTH_FRAME	Deauth frame	
ACTION_FRAME	Action frame	
DATA_FRAME	Data frame	
QOS_DATA_FRAME	QOS frame	

5.7 wifi.h File Reference

This file contains interface to wifi driver.

5.7.1 Function Documentation

5.7.1.1 wifi_init()

Initialize Wi-Fi driver module.

Performs SDIO init, downloads Wi-Fi Firmware, creates Wi-Fi Driver and command response processor thread.

Also creates mutex, and semaphores used in command and data synchronizations.



Parameters

in	fw_start_addr	address of stored Wi-Fi Firmware.
in	size	Size of Wi-Fi Firmware.

Returns

WM_SUCCESS on success or -WM_FAIL on error.

5.7.1.2 wifi_init_fcc()

Initialize Wi-Fi driver module for FCC Certification.

Performs SDIO init, downloads Wi-Fi Firmware, creates Wi-Fi Driver and command response processor thread.

Also creates mutex, and semaphores used in command and data synchronizations.

Parameters

	in	fw_start_addr	address of stored Manufacturing Wi-Fi Firmware.
ĺ	in	size	Size of Manufacturing Wi-Fi Firmware.

Returns

WM_SUCCESS on success or -WM_FAIL on error.

5.7.1.3 wifi_deinit()

Deinitialize Wi-Fi driver module.

Performs SDIO deinit, send shutdown command to Wi-Fi Firmware, deletes Wi-Fi Driver and command processor thread.

Also deletes mutex and semaphores used in command and data synchronizations.

5.7.1.4 wifi_set_tx_status()

This API can be used to set wifi driver tx status.



Parameters

in	status	Status to set for TX
----	--------	----------------------

5.7.1.5 wifi_set_rx_status()

This API can be used to set wifi driver rx status.

Parameters

in	status	Status to set for RX
----	--------	----------------------

5.7.1.6 reset_ie_index()

```
void reset_ie_index ( )
```

This API can be used to reset mgmt_ie_index_bitmap.

5.7.1.7 wifi_register_data_input_callback()

Register Data callback function with Wi-Fi Driver to receive DATA from SDIO.

This callback function is used to send data received from Wi-Fi firmware to the networking stack.

Parameters

in	data_input_callback	Function that needs to be called

Returns

WM_SUCCESS



5.7.1.8 wifi_deregister_data_input_callback()

Deregister Data callback function from Wi-Fi Driver

5.7.1.9 wifi_register_amsdu_data_input_callback()

```
int wifi_register_amsdu_data_input_callback ( void(*)\;(uint8\_t\;interface,\;uint8\_t\;*buffer,\;uint16\_t\;len)\;\textit{amsdu\_data\_input\_} \leftarrow callback\;)
```

Register Data callback function with Wi-Fi Driver to receive processed AMSDU DATA from Wi-Fi driver.

This callback function is used to send data received from Wi-Fi firmware to the networking stack.

Parameters

	in	amsdu_data_input_callback	Function that needs to be called
--	----	---------------------------	----------------------------------

Returns

WM_SUCESS

5.7.1.10 wifi_deregister_amsdu_data_input_callback()

Deregister Data callback function from Wi-Fi Driver

5.7.1.11 wifi_register_deliver_packet_above_callback()

5.7.1.12 wifi_deregister_deliver_packet_above_callback()



5.7.1.13 wifi_register_wrapper_net_is_ip_or_ipv6_callback()

```
\label{local_const_var} int \ wifi\_register\_wrapper\_net\_is\_ip\_or\_ipv6\_callback \ ( \\ bool(*) \ (const \ t\_u8 \ *buffer) \ wrapper\_net\_is\_ip\_or\_ipv6\_callback \ )
```

5.7.1.14 wifi_deregister_wrapper_net_is_ip_or_ipv6_callback()

5.7.1.15 wifi_add_to_bypassq()

5.7.1.16 wifi_low_level_output()

Wi-Fi Driver low level output function.

Data received from upper layer is passed to Wi-Fi Driver for transmission.

Parameters

in	interface	Interface on which DATA frame will be transmitted. 0 for Station interface, 1 for uAP interface	
		and 2 for Wi-Fi Direct interface.	
in	buffer	A pointer pointing to DATA frame.	
in	len	Length of DATA frame.	
in	pkt_prio	Priority for.sending packet.	
in	tid	TID for tx.	

Returns

WM_SUCCESS on success or -WM_E_NOMEM if memory is not available or -WM_E_BUSY if SDIO is busy.



5.7.1.17 wifi_set_packet_retry_count()

API to enable packet retries at wifi driver level.

This API sets retry count which will be used by wifi driver to retry packet transmission in case there was failure in earlier attempt. Failure may happen due to SDIO write port un-availability or other failures in SDIO write operation.

Note

Default value of retry count is zero.

Parameters

in	count	No of retry attempts.
----	-------	-----------------------

5.7.1.18 wifi_sta_ampdu_tx_enable()

This API can be used to enable AMPDU support on the go when station is a transmitter.

5.7.1.19 wifi_sta_ampdu_tx_disable()

This API can be used to disable AMPDU support on the go when station is a transmitter.

5.7.1.20 wifi_sta_ampdu_tx_enable_per_tid()

This API can be used to set tid to enable AMPDU support on the go when station is a transmitter.

Parameters

in	tid	tid value
----	-----	-----------



5.7.1.21 wifi_sta_ampdu_tx_enable_per_tid_is_allowed()

This API can be used to check if tid to enable AMPDU is allowed when station is a transmitter.

Parameters

```
in tid tid value
```

Returns

MTRUE or MFALSE

5.7.1.22 wifi_sta_ampdu_rx_enable()

This API can be used to enable AMPDU support on the go when station is a receiver.

5.7.1.23 wifi_sta_ampdu_rx_enable_per_tid()

This API can be used to set tid to enable AMPDU support on the go when station is a receiver.

Parameters

in t	tid tid	value
------	---------	-------

5.7.1.24 wifi_sta_ampdu_rx_enable_per_tid_is_allowed()

This API can be used to check if tid to enable AMPDU is allowed when station is a receiver.

Parameters

in	tid	tid value



Returns

MTRUE or MFALSE

5.7.1.25 wifi_uap_ampdu_rx_enable()

This API can be used to enable AMPDU support on the go when uap is a receiver.

5.7.1.26 wifi_uap_ampdu_rx_enable_per_tid()

This API can be used to set tid to enable AMPDU support on the go when uap is a receiver.

Parameters

in <i>tid</i>	tid value
---------------	-----------

5.7.1.27 wifi_uap_ampdu_rx_enable_per_tid_is_allowed()

```
t_u8 wifi_uap_ampdu_rx_enable_per_tid_is_allowed ( t_u8 \ tid )
```

This API can be used to check if tid to enable AMPDU is allowed when uap is a receiver.

Parameters

```
in tid tid value
```

Returns

MTRUE or MFALSE

5.7.1.28 wifi_uap_ampdu_rx_disable()

This API can be used to disable AMPDU support on the go when uap is a receiver.



5.7.1.29 wifi_uap_ampdu_tx_enable()

This API can be used to enable AMPDU support on the go when uap is a transmitter.

5.7.1.30 wifi_uap_ampdu_tx_enable_per_tid()

This API can be used to set tid to enable AMPDU support on the go when uap is a transmitter.

Parameters

in	tid	tid value
----	-----	-----------

5.7.1.31 wifi_uap_ampdu_tx_enable_per_tid_is_allowed()

This API can be used to check if tid to enable AMPDU is allowed when uap is a transmitter.

Parameters

in <i>tid</i>	tid value
---------------	-----------

Returns

MTRUE or MFALSE

5.7.1.32 wifi_uap_ampdu_tx_disable()

This API can be used to disable AMPDU support on the go when uap is a transmitter.

5.7.1.33 wifi_sta_ampdu_rx_disable()

This API can be used to disable AMPDU support on the go when station is a receiver.



5.7.1.34 wifi_get_device_mac_addr()

Get the device sta MAC address

Parameters

```
out mac_addr Mac address
```

Returns

WM_SUCESS

5.7.1.35 wifi_get_device_uap_mac_addr()

Get the device uap MAC address

Parameters

out	mac_addr_uap	Mac address
-----	--------------	-------------

Returns

WM_SUCESS

5.7.1.36 wifi_get_device_firmware_version_ext()

Get the cached string representation of the wlan firmware extended version.

Parameters

in	fw_ver_ext	Firmware Version Extended
----	------------	---------------------------

Returns

WM_SUCCESS



5.7.1.37 wifi_get_last_cmd_sent_ms()

Get the timestamp of the last command sent to the firmware

Returns

Timestamp in millisec of the last command sent

5.7.1.38 wifi_get_value1()

5.7.1.39 wifi_get_outbuf()

5.7.1.40 wifi_config_roaming()

5.7.1.41 wifi_config_bgscan_and_rssi()

```
int wifi_config_bgscan_and_rssi (  {\rm const~char}~*~ssid~) \\
```

5.7.1.42 wifi_stop_bgscan()

```
mlan\_status wifi\_stop\_bgscan ( )
```



5.7.1.43 wifi_update_last_cmd_sent_ms()

This will update the last command sent variable value to current time. This is used for power management.

5.7.1.44 wifi_register_event_queue()

Register an event queue with the wifi driver to receive events

The list of events which can be received from the wifi driver are enumerated in the file wifi events.h

Parameters

	in	event_queue	The queue to which wifi driver will post events.	L
--	----	-------------	--	---

Note

Only one queue can be registered. If the registered queue needs to be changed unregister the earlier queue first.

Returns

Standard SDK return codes

5.7.1.45 wifi_unregister_event_queue()

Unregister an event queue from the wifi driver.

Parameters

in	event_queue	The queue to which was registered earlier with the wifi driver.
----	-------------	---

Returns

Standard SDK return codes



5.7.1.46 wifi_get_scan_result()

```
int wifi_get_scan_result (
          unsigned int index,
          struct wifi_scan_result2 ** desc )
```

Get scan list

Parameters

in	index	Index
out	out desc Descriptor of type wifi_scan_rest	

Returns

WM_SUCCESS on success or error code.

5.7.1.47 wifi_get_scan_result_count()

Get the count of elements in the scan list

Parameters

		in,out	count	Pointer to a variable which will hold the count after this call returns	
--	--	--------	-------	---	--

Warning

The count returned by this function is the current count of the elements. A scan command given to the driver or some other background event may change this count in the wifi driver. Thus when the API wifi_get_scan_cresult is used to get individual elements of the scan list, do not assume that it will return exactly 'count' number of elements. Your application should not consider such situations as a major event.

Returns

Standard SDK return codes.

5.7.1.48 wifi_uap_bss_sta_list()

Returns the current STA list connected to our uAP

This function gets its information after querying the firmware. It will block till the response is received from firmware or a timeout.



Parameters

in,out	list	After this call returns this points to the structure wifi_sta_list_t allocated by the callee. This is
		variable length structure and depends on count variable inside it. The caller needs to free
		this buffer after use If this function is unable to get the sta list, the value of list parameter
		will be NULL

Note

The caller needs to explicitly free the buffer returned by this function.

Returns

void

5.7.1.49 wifi_sta_deauth()

Dsiconnect ex-sta which is connected to in-uap.

Parameters

in	mac_addr	Mac address of external station.
in	reason_code	Deauth reason code.

Returns

WM_SUCCESS if successful otherwise failure.

```
5.7.1.50 wifi_enable_low_pwr_mode()
```

```
void wifi_enable_low_pwr_mode ( )
```

5.7.1.51 wifi_set_cal_data()

Set wifi calibration data in firmware.

This function may be used to set wifi calibration data in firmware.



Parameters

in	cdata	The calibration data
in	clen	Length of calibration data

5.7.1.52 wifi_set_mac_addr()

Set wifi MAC address in firmware at load time.

This function may be used to set wifi MAC address in firmware.

Parameters

in	mac	The new MAC Address
----	-----	---------------------

5.7.1.53 _wifi_set_mac_addr()

Set wifi MAC address in firmware at run time.

This function may be used to set wifi MAC address in firmware as per passed bss type.

Parameters

in	mac	The new MAC Address
in	bss_type	BSS Type

5.7.1.54 wifi_get_wpa_ie_in_assoc()



5.7.1.55 wifi_add_mcast_filter()

```
int wifi_add_mcast_filter ( \label{eq:cast_filter} \mbox{uint8$\_$t} \ * \mbox{\it mac$\_$addr} \ )
```

Add Multicast Filter by MAC Address

Multicast filters should be registered with the WiFi driver for IP-level multicast addresses to work. This API allows for registration of such filters with the WiFi driver.

If multicast-mapped MAC address is 00:12:23:34:45:56 then pass mac_addr as below: mac_add[0] = 0x00 mac \leftarrow add[1] = 0x12 mac_add[2] = 0x23 mac_add[3] = 0x34 mac_add[4] = 0x45 mac_add[5] = 0x56

Parameters

	in	mac_addr	multicast mapped MAC address
--	----	----------	------------------------------

Returns

0 on Success or else Error

5.7.1.56 wifi_remove_mcast_filter()

Remove Multicast Filter by MAC Address

This function removes multicast filters for the given multicast-mapped MAC address. If multicast-mapped MAC address is 00:12:23:34:45:56 then pass mac_addr as below: mac_add[0] = 0x00 mac_add[1] = 0x12 mac_add[2] = 0x23 mac_add[3] = 0x34 mac_add[4] = 0x45 mac_add[5] = 0x56

Parameters

in	mac_addr	multicast mapped MAC address
----	----------	------------------------------

Returns

0 on Success or else Error

5.7.1.57 wifi_get_ipv4_multicast_mac()



Get Multicast Mapped Mac address from IPv4

This function will generate Multicast Mapped MAC address from IPv4 Multicast Mapped MAC address will be in following format: 1) Higher 24-bits filled with IANA Multicast OUI (01-00-5E) 2) 24th bit set as Zero 3) Lower 23-bits filled with IP address (ignoring higher 9bits).

Parameters

in	ipaddr	ipaddress(input)
in	mac_addr	multicast mapped MAC address(output)

5.7.1.58 wifi_get_ipv6_multicast_mac()

Get Multicast Mapped Mac address from IPv6 address

This function will generate Multicast Mapped MAC address from IPv6 address. Multicast Mapped MAC address will be in following format: 1) Higher 16-bits filled with IANA Multicast OUI (33-33) 2) Lower 32-bits filled with last 4 bytes of IPv6 address

Parameters

in	ipaddr	last 4 bytes of IPv6 address
in	mac_addr	multicast mapped MAC address

5.7.1.59 wifi_set_antenna()

5.7.1.60 wifi_get_antenna()



```
5.7.1.61 wifi_process_hs_cfg_resp()
void wifi_process_hs_cfg_resp (
             t_u8 * cmd_res_buffer )
5.7.1.62 wifi_process_ps_enh_response()
enum wifi_event_reason wifi_process_ps_enh_response (
             t_u8 * cmd_res_buffer,
             t_u16 * ps_event,
             t_u16 * action )
5.7.1.63 wifi_uap_rates_getset()
int wifi_uap_rates_getset (
             uint8_t action,
             char * rates,
             uint8_t num_rates )
5.7.1.64 wifi_uap_sta_ageout_timer_getset()
int wifi_uap_sta_ageout_timer_getset (
             uint8_t action,
             uint32_t * sta_ageout_timer )
5.7.1.65 wifi_uap_ps_sta_ageout_timer_getset()
int wifi_uap_ps_sta_ageout_timer_getset (
             uint8_t action,
             uint32_t * ps_sta_ageout_timer)
5.7.1.66 wifi_mem_access()
int wifi_mem_access (
            uint16_t action,
             uint32_t addr,
```

uint32_t * value)



5.7.1.67 wifi_scan_process_results()

5.7.1.68 wifi_get_region_code()

Get the wifi region code

This function will return one of the following values in the region_code variable.

0x10: US FCC 0x20: CANADA 0x30: EU 0x32: FRANCE 0x40: JAPAN 0x41: JAPAN 0x50: China 0xfe: JAPAN 0xff: Special

Parameters

out	reaion code	Region Code
0 00 0		1

Returns

Standard WMSDK return codes.

5.7.1.69 wifi_set_region_code()

Set the wifi region code.

This function takes one of the values from the following array.

0x10: US FCC 0x20: CANADA 0x30: EU 0x32: FRANCE 0x40: JAPAN 0x41: JAPAN 0x50: China 0xfe: JAPAN



0xff : Special

Parameters

in region_code Region Code

Returns

Standard WMSDK return codes.

5.7.1.70 wifi_set_country_code()

Set/Get country code

Parameters

in	alpha2	country code in 3bytes string, 2bytes country code and 1byte 0 WW : World Wide Safe US : US
		FCC CA: IC Canada SG: Singapore EU: ETSI AU: Australia KR: Republic Of Korea FR:
		France JP : Japan CN : China

Returns

WM_SUCCESS if successful otherwise failure.

5.7.1.71 wifi_get_country_code()

5.7.1.72 wifi_set_country_ie_ignore()

5.7.1.73 wifi_get_uap_channel()

Get the uAP channel number



Parameters

|--|

Returns

Standard WMSDK return code

5.7.1.74 wifi_uap_pmf_getset()

Get/Set the uAP mfpc and mfpr

Parameters

in	action	
in,out	mfpc	Management Frame Protection Capable (MFPC) 1: Management Frame Protection
		Capable 0: Management Frame Protection not Capable
in,out	mfpr	Management Frame Protection Required (MFPR) 1: Management Frame Protection
		Required 0: Management Frame Protection Optional

Returns

cmd response status

5.7.1.75 wifi_uap_enable_11d_support()

```
int wifi_uap_enable_11d_support ( )
```

enable/disable 80211d domain feature for the uAP.

Note

This API only set 80211d domain feature. The actual application will happen only during starting phase of uAP. So, if the uAP is already started then the configuration will not apply till uAP re-start.

Returns

WM_SUCCESS on success or error code.



```
bool wifi_11d_is_channel_allowed (
             int channel )
5.7.1.77 get_sub_band_from_region_code()
wifi_sub_band_set_t* get_sub_band_from_region_code (
             int region_code,
             t_u8 * nr_sb )
5.7.1.78 get_sub_band_from_region_code_5ghz()
wifi_sub_band_set_t* get_sub_band_from_region_code_5ghz (
             int region_code,
             t_u8 * nr_sb )
5.7.1.79 wifi_enable_11d_support()
int wifi_enable_11d_support ( )
5.7.1.80 wifi_enable_uap_11d_support()
int wifi_enable_uap_11d_support ( )
5.7.1.81 wifi_disable_11d_support()
int wifi_disable_11d_support ( )
5.7.1.82 wifi_disable_uap_11d_support()
int wifi_disable_uap_11d_support ( )
```

5.7.1.76 wifi_11d_is_channel_allowed()



```
5.7.1.83 wifi_set_region_power_cfg()
int wifi_set_region_power_cfg (
            const t_u8 * data,
             t_u16 len )
5.7.1.84 wifi_set_txbfcap()
int wifi_set_txbfcap (
             unsigned int tx_bf_cap )
5.7.1.85 wifi_set_htcapinfo()
int wifi_set_htcapinfo (
             unsigned int htcapinfo )
5.7.1.86 wifi_set_httxcfg()
int wifi_set_httxcfg (
             unsigned short httxcfg )
5.7.1.87 wifi_uap_set_httxcfg()
void wifi_uap_set_httxcfg (
             const t_u16 ht_tx_cfg )
5.7.1.88 wifi_uap_set_httxcfg_int()
int wifi_uap_set_httxcfg_int (
             unsigned short httxcfg )
5.7.1.89 wifi_get_tx_power()
int wifi_get_tx_power (
             t_u32 * power_level)
```



```
5.7.1.90 wifi_set_tx_power()
int wifi_set_tx_power (
            t_u32 power_level )
5.7.1.91 wrapper_wlan_cmd_get_hw_spec()
int wrapper_wlan_cmd_get_hw_spec (
            void )
5.7.1.92 set_event_chanswann()
void set_event_chanswann (
            void )
5.7.1.93 clear_event_chanswann()
void clear_event_chanswann (
             void )
5.7.1.94 wifi_set_ps_cfg()
void wifi_set_ps_cfg (
             t_u16 multiple_dtims,
             t_u16 bcn_miss_timeout,
             t_u16 local_listen_interval,
             t_u16 adhoc_wake_period,
             t_u16 mode,
             t_u16 delay_to_ps )
5.7.1.95 wifi_send_hs_cfg_cmd()
int wifi_send_hs_cfg_cmd (
             mlan_bss_type interface,
             t_u32 ipv4_addr,
```

t_u16 action, t_u32 conditions)



5.7.1.96 wrapper_wlan_11d_support_is_enabled()

5.7.1.97 wrapper_wlan_11d_clear_parsedtable()

5.7.1.98 wrapper_clear_media_connected_event()

5.7.1.99 wifi_uap_ps_inactivity_sleep_exit()

5.7.1.100 wifi_uap_ps_inactivity_sleep_enter()

```
int wifi_uap_ps_inactivity_sleep_enter (
    mlan_bss_type type,
    unsigned int ctrl_bitmap,
    unsigned int min_sleep,
    unsigned int max_sleep,
    unsigned int inactivity_to,
    unsigned int min_awake,
    unsigned int max_awake)
```

5.7.1.101 wifi_enter_ieee_power_save()



```
5.7.1.102 wifi_exit_ieee_power_save()
int wifi_exit_ieee_power_save (
           void )
5.7.1.103 wifi_enter_wnm_power_save()
int wifi_enter_wnm_power_save (
            t_u16 wnm_sleep_time )
5.7.1.104 wifi_exit_wnm_power_save()
int wifi_exit_wnm_power_save (
            void )
5.7.1.105 wifi_enter_deepsleep_power_save()
int wifi_enter_deepsleep_power_save (
            void )
5.7.1.106 wifi_exit_deepsleep_power_save()
int wifi_exit_deepsleep_power_save (
            void )
5.7.1.107 wifi_set_power_save_mode()
int wifi_set_power_save_mode (
            void )
5.7.1.108 wifi_get_wakeup_reason()
int wifi_get_wakeup_reason (
             t_u16 * hs_wakeup_reason )
```



```
5.7.1.109 send_sleep_confirm_command()
void send_sleep_confirm_command (
             mlan_bss_type interface )
5.7.1.110 wifi_configure_listen_interval()
void wifi_configure_listen_interval (
             int listen_interval )
5.7.1.111 wifi_configure_delay_to_ps()
void wifi_configure_delay_to_ps (
             unsigned int timeout_ms )
5.7.1.112 wifi_get_listen_interval()
unsigned short wifi_get_listen_interval (
5.7.1.113 wifi_get_delay_to_ps()
unsigned int wifi_get_delay_to_ps ( )
5.7.1.114 wifi_configure_null_pkt_interval()
void wifi_configure_null_pkt_interval (
             unsigned int null_pkt_interval )
5.7.1.115 wrapper_wifi_assoc()
int wrapper_wifi_assoc (
             const unsigned char * bssid,
              int wlan_security,
              bool is_wpa_tkip,
              unsigned int owe_trans_mode,
```



bool is_ft)

```
5.7.1.116 wifi_uap_enable_sticky_bit()
void wifi_uap_enable_sticky_bit (
            const uint8_t * mac_addr )
5.7.1.117 wifi_get_xfer_pending()
bool wifi_get_xfer_pending (
             void )
5.7.1.118 wifi_set_xfer_pending()
void wifi_set_xfer_pending (
             bool xfer_val )
5.7.1.119 wrapper_wlan_cmd_11n_ba_stream_timeout()
int wrapper_wlan_cmd_11n_ba_stream_timeout (
             void * saved_event_buff )
5.7.1.120 wifi_set_txratecfg()
int wifi_set_txratecfg (
             wifi_ds_rate ds_rate,
             mlan_bss_type bss_type )
5.7.1.121 wifi_get_txratecfg()
int wifi_get_txratecfg (
              wifi_ds_rate * ds_rate,
             mlan_bss_type bss_type )
5.7.1.122 wifi_wake_up_card()
void wifi_wake_up_card (
             uint32_t * resp)
```



5.7.1.123 wifi_tx_card_awake_lock()

5.7.1.124 wifi_tx_card_awake_unlock()

5.7.1.125 wrapper_wlan_11d_enable()

5.7.1.126 wrapper_wlan_uap_11d_enable()

5.7.1.127 wifi_11h_enable()

5.7.1.128 wrapper_wlan_cmd_11n_addba_rspgen()

```
\label{eq:cond_ln_addba_rspgen} \mbox{int wrapper_wlan_cmd_lln_addba_rspgen (} \\ \mbox{void} * saved\_event\_buff )
```

5.7.1.129 wrapper_wlan_cmd_11n_delba_rspgen()

```
\label{eq:cmd_ln_delba_rspgen} \mbox{ int wrapper_wlan_cmd_lln_delba_rspgen (} \\ \mbox{ void } * \mbox{ saved_event_buff )}
```



5.7.1.130 wrapper_wlan_ecsa_enable()

5.7.1.131 wifi_uap_start()

5.7.1.132 wrapper_wlan_sta_ampdu_enable()

5.7.1.133 wrapper_wlan_uap_ampdu_enable()

5.7.1.134 wifi_set_packet_filters()



```
5.7.1.135 wifi_uap_stop()
```

```
int wifi_uap_stop ( )
```

5.7.1.136 wifi_uap_do_acs()

5.7.1.137 wifi_uap_config_wifi_capa()

Set uAP capability

User can set uAP capability of 11ax/11ac/11n/legacy. Default is 11ax.

Parameters

```
in wlan_capa uAP capability bitmap. 1111 - 11AX 0111 - 11AC 0011 - 11N 0001 - legacy
```

5.7.1.138 wifi_get_fw_info()

5.7.1.139 wifi_get_data_rate()

5.7.1.140 wifi_uap_set_bandwidth()



```
5.7.1.141 wifi_uap_get_bandwidth()
t_u8 wifi_uap_get_bandwidth ( )
5.7.1.142 wifi_uap_get_pmfcfg()
int wifi_uap_get_pmfcfg (
             t_u8 * mfpc,
             t_u8 * mfpr )
5.7.1.143 wifi_set_rts()
int wifi_set_rts (
             int rts,
             mlan_bss_type bss_type )
5.7.1.144 wifi_set_frag()
int wifi_set_frag (
             int frag,
             mlan_bss_type bss_type )
5.7.1.145 wifi_same_ess_ft()
bool wifi_same_ess_ft ( )
5.7.1.146 wifi_host_11k_cfg()
int wifi_host_11k_cfg (
             int enable_11k )
5.7.1.147 wifi_host_11k_neighbor_req()
int wifi_host_11k_neighbor_req ( \ 
             const char * ssid )
```



```
5.7.1.148 wifi_host_11v_bss_trans_query()
int wifi_host_11v_bss_trans_query (
            t_u8 query_reason )
5.7.1.149 wifi_clear_mgmt_ie()
int wifi_clear_mgmt_ie (
             mlan_bss_type bss_type,
             IEEEtypes_ElementId_t index,
             int mgmt_bitmap_index )
5.7.1.150 wifi_set_sta_mac_filter()
int wifi_set_sta_mac_filter (
             int filter_mode,
             int mac_count,
             unsigned char * mac\_addr )
5.7.1.151 wifi_set_auto_arp()
int wifi_set_auto_arp (
             t_u32 * ipv4_addr )
5.7.1.152 wifi_tcp_keep_alive()
int wifi_tcp_keep_alive (
             wifi_tcp_keep_alive_t * keep_alive,
             t_u8 * src_mac,
             5.7.1.153 wifi_cloud_keep_alive()
int wifi_cloud_keep_alive (
             wifi_cloud_keep_alive_t * keep_alive,
             t_u16 action,
```



 $t_u8 * enable$)

5.7.1.154 wifi_raw_packet_send() int wifi_raw_packet_send (const t_u8 * packet, t_u32 length) 5.7.1.155 wifi_raw_packet_recv() int wifi_raw_packet_recv (t_u8 ** data, $t_u32 * pkt_type$) 5.7.1.156 wifi_set_11ax_tx_omi() int wifi_set_11ax_tx_omi (const mlan_bss_type bss_type, const t_u16 tx_omi, const t_u8 tx_option, const t_u8 num_data_pkts) 5.7.1.157 wifi_set_11ax_tol_time() int wifi_set_11ax_tol_time (const t_u32 tol_time) 5.7.1.158 wifi_set_11ax_rutxpowerlimit() int wifi_set_11ax_rutxpowerlimit (const void * rutx_pwr_cfg, uint32_t rutx_pwr_cfg_len)

5.7.1.159 wifi_set_11ax_rutxpowerlimit_legacy()



5.7.1.160 wifi_get_11ax_rutxpowerlimit_legacy()

5.7.1.161 wifi_set_11ax_cfg()

Set 11ax config params

Parameters

in,out	ax_config	11AX config parameters to be sent to Firmware
--------	-----------	---

Returns

WM_SUCCESS if successful otherwise failure.

5.7.1.162 wifi_set_btwt_cfg()

Set btwt config params

Parameters

|--|

Returns

WM_SUCCESS if successful otherwise failure.

5.7.1.163 wifi_set_twt_setup_cfg()

Set twt setup config params



Parameters

i	n <i>twt_setu</i>	TWT Setup parameters to be sent to Firmware	1
---	-------------------	---	---

Returns

WM_SUCCESS if successful otherwise failure.

5.7.1.164 wifi_set_twt_teardown_cfg()

Set twt teardown config params

Parameters

in	teardown_config	TWT Teardown parameters to be sent to Firmware
----	-----------------	--

Returns

WM_SUCCESS if successful otherwise failure.

5.7.1.165 wifi_get_twt_report()

Get twt report

Parameters

out twt_report TWT Report parameters to be sent to Firmwa	re
---	----

Returns

WM_SUCCESS if successful otherwise failure.

5.7.1.166 wifi_twt_information()



Twt information



Parameters

Returns

WM_SUCCESS if successful otherwise failure.

5.7.1.167 wifi_set_clocksync_cfg()

5.7.1.168 wifi_get_tsf_info()

5.7.1.169 wifi_set_rf_test_mode()

5.7.1.170 wifi_unset_rf_test_mode()

5.7.1.171 wifi_set_rf_channel()



```
5.7.1.172 wifi_set_rf_radio_mode()
int wifi_set_rf_radio_mode (
            const uint8_t mode )
5.7.1.173 wifi_get_rf_channel()
int wifi_get_rf_channel (
             uint8_t * channel )
5.7.1.174 wifi_get_rf_radio_mode()
int wifi_get_rf_radio_mode (
             uint8_t * mode )
5.7.1.175 wifi_set_rf_band()
int wifi_set_rf_band (
             const uint8_t band )
5.7.1.176 wifi_get_rf_band()
int wifi_get_rf_band (
             uint8_t * band)
5.7.1.177 wifi_set_rf_bandwidth()
int wifi_set_rf_bandwidth (
            const uint8_t bandwidth )
5.7.1.178 wifi_get_rf_bandwidth()
int wifi_get_rf_bandwidth (
             uint8_t * bandwidth)
```



5.7.1.179 wifi_get_rf_per()

5.7.1.180 wifi_set_rf_tx_cont_mode()

5.7.1.181 wifi_set_rf_tx_antenna()

5.7.1.182 wifi_get_rf_tx_antenna()

5.7.1.183 wifi_set_rf_rx_antenna()

5.7.1.184 wifi_get_rf_rx_antenna()



5.7.1.185 wifi_set_rf_tx_power()

5.7.1.186 wifi_cfg_rf_he_tb_tx()

5.7.1.187 wifi_rf_trigger_frame_cfg()

```
int wifi_rf_trigger_frame_cfg (
            uint32_t Enable_tx,
             uint32_t Standalone_hetb,
             uint8_t FRAME_CTRL_TYPE,
             uint8_t FRAME_CTRL_SUBTYPE,
             uint16_t FRAME_DURATION,
             uint64_t TriggerType,
             uint64_t UlLen,
             uint64_t MoreTF,
             uint64_t CSRequired,
             uint64_t UlBw,
             uint64_t LTFType,
             uint64_t LTFMode,
             uint64_t LTFSymbol,
             uint64_t UlSTBC,
             uint64_t LdpcESS,
             uint64_t ApTxPwr,
             uint64_t PreFecPadFct,
             uint64_t PeDisambig,
             uint64_t SpatialReuse,
             uint64_t Doppler,
             uint64_t HeSig2,
             uint32_t AID12,
             uint32_t RUAllocReg,
             uint32_t RUAlloc,
             uint32_t UlCodingType,
             uint32_t UlMCS,
             uint32_t UlDCM,
             uint32_t SSAlloc,
             uint8_t UlTargetRSSI,
             uint8_t MPDU_MU_SF,
             uint8_t TID_AL,
             uint8_t AC_PL,
             uint8_t Pref_AC )
```



```
5.7.1.188 wifi_set_rf_tx_frame()
```

5.7.1.189 wifi_set_rf_otp_mac_addr()

5.7.1.190 wifi_get_rf_otp_mac_addr()

5.7.1.191 wifi_set_rf_otp_cal_data()

5.7.1.192 wifi_get_rf_otp_cal_data()

5.7.1.193 wifi_register_fw_dump_cb()

```
void wifi_register_fw_dump_cb (
    int(*)() wifi_usb_mount_cb,
    int(*)(char *test_file_name) wifi_usb_file_open_cb,
    int(*)(uint8_t *data, size_t data_len) wifi_usb_file_write_cb,
    int(*)() wifi_usb_file_close_cb )
```

This function registers callbacks which are used to generate FW Dump on USB device.



Parameters

in	wifi_usb_mount_cb	Callback to mount usb device.
in	wifi_usb_file_open_cb	Callback to open file on usb device for FW dump.
in	wifi_usb_file_write_cb	Callback to write FW dump data to opened file.
in	wifi_usb_file_close_cb	Callback to close FW dump file.

5.7.1.194 wifi_wmm_init()

```
void wifi_wmm_init ( )
```

5.7.1.195 wifi_wmm_get_pkt_prio()

5.7.1.196 wifi_wmm_get_packet_cnt()

```
t_u8 wifi_wmm_get_packet_cnt ( void )
```

5.7.1.197 wifi_handle_event_data_pause()

5.7.1.198 wifi_wmm_tx_stats_dump()



5.7.1.199 wifi_set_rssi_low_threshold()

5.7.1.200 wifi_show_os_mem_stat()

```
void wifi_show_os_mem_stat ( )
```

Show os mem alloc and free info.

5.7.1.201 wifi_inject_frame()

Frame Tx - Injecting Wireless frames from Host

This function is used to Inject Wireless frames from application directly.

Note

All injected frames will be sent on station interface. Application needs minimum of 2 KBytes stack for successful operation. Also application have to take care of allocating buffer for 802.11 Wireless frame (Header + Data) and freeing allocated buffer. Also this API may not work when Power Save is enabled on station interface.

Parameters

in	bss_type	The interface on which management frame needs to be send.
in	buff	Buffer holding 802.11 Wireless frame (Header + Data).
in	len	Length of the 802.11 Wireless frame.

Returns

WM_SUCCESS on success or error code.

5.7.1.202 wifi_supp_inject_frame()



5.7.1.203 wifi_is_wpa_supplicant_input()

5.7.1.204 wifi_wpa_supplicant_eapol_input()

5.7.1.205 wifi_get_sec_channel_offset()

5.7.1.206 wifi_nxp_scan_res_get()

5.7.1.207 wifi_nxp_survey_res_get()

5.7.1.208 wifi_nxp_set_default_scan_ies()



5.7.1.209 wifi_nxp_reset_scan_flag()

```
void wifi_nxp_reset_scan_flag ( )
```

5.7.1.210 wifi_host_mbo_cfg()

5.7.1.211 wifi_mbo_preferch_cfg()

5.7.1.212 wifi_mbo_send_preferch_wnm()

```
int wifi_mbo_send_preferch_wnm (
    t_u8 * src_addr,
    t_u8 * target_bssid,
    t_u8 ch0,
    t_u8 pefer0,
    t_u8 ch1,
    t_u8 pefer1 )
```

5.7.1.213 wifi_csi_cfg()

Send the csi config parameter to FW.

Parameters

in	csi_params	Csi config parameter



Returns

WM_SUCCESS if successful otherwise failure.

```
5.7.1.214 register_csi_user_callback()
int register_csi_user_callback (
             int(*)(void *buffer, size_t len) csi_data_recv_callback)
5.7.1.215 unregister_csi_user_callback()
int unregister_csi_user_callback (
            void )
5.7.1.216 csi_local_buff_init()
void csi_local_buff_init ( )
5.7.1.217 csi_save_data_to_local_buff()
void csi_save_data_to_local_buff (
              void * data )
5.7.1.218 csi_deliver_data_to_user()
void csi_deliver_data_to_user ( )
5.7.1.219 wifi_send_mgmt_auth_request()
int wifi_send_mgmt_auth_request (
             const t_u8 channel,
             const t_u8 auth_alg,
             const t_u8 * auth_seq_num,
              const t_u8 * status_code,
              const t_u8 * dest,
              const t_u8 * sae_data,
```

const t_u16 sae_data_len)



5.7.1.220 wifi_send_scan_cmd()

5.7.1.221 wifi_deauthenticate()

5.7.1.222 wifi_get_turbo_mode()

```
int wifi_get_turbo_mode ( t\_u8 \ * \ mode \ )
```

5.7.1.223 wifi_get_uap_turbo_mode()

5.7.1.224 wifi_set_turbo_mode()

5.7.1.225 wifi_set_uap_turbo_mode()



```
t_u16 wifi_get_default_ht_capab ( )
5.7.1.227 wifi_get_default_vht_capab()
t_u32 wifi_get_default_vht_capab ( )
5.7.1.228 wifi_uap_client_assoc()
void wifi_uap_client_assoc (
             t_u8 * sta_addr,
             unsigned char is_11n_enabled )
5.7.1.229 wifi_uap_client_deauth()
void wifi_uap_client_deauth (
             t_u8 * sta_addr)
5.7.1.230 region_string_2_region_code()
t_u8 region_string_2_region_code (
             t_u8 * region_string )
Parameters
 region_string
               Region string
Returns
     Region code
5.7.1.231 wifi_set_indrst_cfg()
int wifi_set_indrst_cfg (
             const wifi_indrst_cfg_t * indrst_cfg,
             mlan_bss_type bss_type )
```

5.7.1.226 wifi_get_default_ht_capab()



5.7.1.232 wifi_get_indrst_cfg() int wifi_get_indrst_cfg (wifi_indrst_cfg_t * indrst_cfg, mlan_bss_type bss_type) 5.7.1.233 wifi_test_independent_reset() int wifi_test_independent_reset () 5.7.1.234 wifi_trigger_oob_indrst() int wifi_trigger_oob_indrst () 5.7.1.235 hostapd_connected_sta_list() void hostapd_connected_sta_list (wifi_sta_info_t * si, $wifi_sta_list_t * sl$) 5.7.1.236 wifi_is_remain_on_channel() bool wifi_is_remain_on_channel (void)

5.7.2 Macro Documentation

5.7.2.1 CONFIG_STA_AUTO_DHCPV4

#define CONFIG_STA_AUTO_DHCPV4 1



5.7.2.2 CONFIG_WIFI_STA_RECONNECT

```
#define CONFIG_WIFI_STA_RECONNECT 1
```

5.7.2.3 CONFIG_WIFI_AUTO_POWER_SAVE

```
#define CONFIG_WIFI_AUTO_POWER_SAVE 1
```

5.7.2.4 CONFIG_GTK_REKEY_OFFLOAD

```
#define CONFIG_GTK_REKEY_OFFLOAD 0
```

5.7.2.5 CONFIG_TCP_ACK_ENH

```
#define CONFIG_TCP_ACK_ENH 1
```

5.7.2.6 CONFIG_FW_VDLL

```
#define CONFIG_FW_VDLL 1
```

5.7.2.7 WIFI_REG8

```
#define WIFI_REG8( x ) (*(volatile unsigned char *)(x))
```

5.7.2.8 WIFI_REG16

```
#define WIFI_REG16( x ) (*(volatile unsigned short *)(x))
```



5.7.2.9 WIFI_REG32

```
#define WIFI_REG32( x ) (*(volatile unsigned int *)(x))
```

5.7.2.10 WIFI_WRITE_REG8

5.7.2.11 WIFI_WRITE_REG16

5.7.2.12 WIFI_WRITE_REG32

5.7.2.13 WIFI_COMMAND_RESPONSE_WAIT_MS

```
#define WIFI_COMMAND_RESPONSE_WAIT_MS 20000
```

5.7.2.14 BANDWIDTH_20MHZ

#define BANDWIDTH_20MHZ 1U

5.7.2.15 BANDWIDTH_40MHZ

#define BANDWIDTH_40MHZ 2U



5.7.2.16 BANDWIDTH_80MHZ

#define BANDWIDTH_80MHZ 3U

5.7.2.17 MAX_NUM_CHANS_IN_NBOR_RPT

#define MAX_NUM_CHANS_IN_NBOR_RPT 6U

5.7.2.18 MBIT

```
#define MBIT(  x ) \ (((t_u32)1) << (x))
```

BIT value

5.7.2.19 WIFI_MGMT_DIASSOC

#define WIFI_MGMT_DIASSOC MBIT(10)

5.7.2.20 WIFI_MGMT_AUTH

#define WIFI_MGMT_AUTH MBIT(11)

5.7.2.21 WIFI_MGMT_DEAUTH

#define WIFI_MGMT_DEAUTH MBIT(12)

5.7.2.22 WIFI_MGMT_ACTION

#define WIFI_MGMT_ACTION MBIT(13)

BITMAP for Action frame



5.7.2.23 BEACON_REPORT_BUF_SIZE

#define BEACON_REPORT_BUF_SIZE 1400

5.7.2.24 MAX_NEIGHBOR_AP_LIMIT

#define MAX_NEIGHBOR_AP_LIMIT 6U

5.7.3 Enumeration Type Documentation

5.7.3.1 anonymous enum

anonymous enum

WiFi Error Code

Enumerator

WM_E_WIFI_ERRNO_START	
WIFI_ERROR_FW_DNLD_FAILED	The Firmware download operation failed.
WIFI_ERROR_FW_NOT_READY	The Firmware ready register not set.
WIFI_ERROR_CARD_NOT_DETECTED	The WiFi card not found.
WIFI_ERROR_FW_NOT_DETECTED	The WiFi Firmware not found.

5.7.3.2 anonymous enum

anonymous enum

WiFi driver TX/RX data status

Enumerator

WIFI_DATA_RUNNING	Data in running status
WIFI_DATA_BLOCK	Data in block status

5.7.3.3 IEEEtypes_ElementId_t

 $\verb"enum IEEEtypes_ElementId_t"$



Enumerator

MGMT_RSN_IE	
MGMT_RRM_ENABLED_CAP	
MGMT_VENDOR_SPECIFIC_221	
MGMT_WPA_IE	
MGMT_WPS_IE	
MGMT_MBO_IE	

5.7.3.4 wifi_reg_t

enum wifi_reg_t

Enumerator

REG_MAC	
REG_BBP	
REG_RF	
REG_CAU	

5.7.3.5 wlan_rrm_beacon_reporting_detail

enum wlan_rrm_beacon_reporting_detail

Enumerator

	WLAN_RRM_REPORTING_DETAIL_NONE		
Ì	WLAN_RRM_REPORTING_DETAIL_AS_REQUEST		
	WLAN_RRM_REPORTING_DETAIL_ALL_FIELDS_AND_ELEMENTS		

5.7.3.6 wlan_nlist_mode

enum wlan_nlist_mode

Enumerator

WLAN_NLIST_11K	
WLAN_NLIST_11V	
WLAN_NLIST_11V_PREFERRED	



5.7.4 Variable Documentation

5.7.4.1 wifi_tx_status

t_u8 wifi_tx_status

5.7.4.2 wifi_tx_block_cnt

t_u8 wifi_tx_block_cnt

5.7.4.3 wifi_rx_status

t_u8 wifi_rx_status

5.7.4.4 wifi_rx_block_cnt

t_u8 wifi_rx_block_cnt

5.7.4.5 g_bcn_nf_last

int16_t g_bcn_nf_last

5.7.4.6 g_rssi

uint8_t g_rssi

5.7.4.7 g_data_nf_last

uint16_t g_data_nf_last



5.7.4.8 g_data_snr_last

uint16_t g_data_snr_last

5.7.4.9 wifi_shutdown_enable

bool wifi_shutdown_enable

5.7.4.10 csi_event_cnt

int csi_event_cnt

5.7.4.11 csi_event_data_len

t_u64 csi_event_data_len

5.8 wifi_events.h File Reference

Wi-Fi events.

5.8.1 Enumeration Type Documentation

5.8.1.1 wifi_event

enum wifi_event

Wifi events

Enumerator

WIFI_EVENT_UAP_STARTED	uAP Started
WIFI_EVENT_UAP_CLIENT_ASSOC	uAP Client Assoc
WIFI_EVENT_UAP_CLIENT_CONN	uAP Client connected
WIFI_EVENT_UAP_CLIENT_DEAUTH	uAP Client De-authentication
WIFI_EVENT_UAP_NET_ADDR_CONFIG	uAP Network Address Configuration
WIFI_EVENT_UAP_STOPPED	uAP Stopped
WIFI_EVENT_UAP_LAST	uAP Last



Enumerator

WIFI_EVENT_SCAN_START	Scan start event when scan is started
WIFI_EVENT_SCAN_RESULT	Scan Result
WIFI_EVENT_SURVEY_RESULT_GET	Survey Result Get
WIFI_EVENT_GET_HW_SPEC	Get hardware spec
WIFI_EVENT_ASSOCIATION	Association
WIFI_EVENT_ASSOCIATION_NOTIFY	Association Notify
WIFI_EVENT_PMK	PMK
WIFI_EVENT_AUTHENTICATION	Authentication
WIFI_EVENT_DISASSOCIATION	Disassociation
WIFI_EVENT_DEAUTHENTICATION	De-authentication
WIFI_EVENT_LINK_LOSS	Link Loss
WIFI_EVENT_RSSI_LOW	
WIFI_EVENT_FW_HANG	Firmware Hang event
WIFI_EVENT_FW_RESET	Firmware Reset event
WIFI_EVENT_NET_STA_ADDR_CONFIG	Network station address configuration
WIFI_EVENT_NET_INTERFACE_CONFIG	Network interface configuration
WIFI_EVENT_WEP_CONFIG	WEP configuration
WIFI_EVENT_STA_MAC_ADDR_CONFIG	STA MAC address configuration
WIFI_EVENT_UAP_MAC_ADDR_CONFIG	UAP MAC address configuration
WIFI_EVENT_NET_DHCP_CONFIG	Network DHCP configuration
WIFI_EVENT_SUPPLICANT_PMK	Supplicant PMK
WIFI EVENT SLEEP	Sleep
WIFI EVENT IEEE PS	IEEE PS
WIFI_EVENT_DEEP_SLEEP	Deep Sleep
WIFI EVENT WNM PS	WNM ps
WIFI_EVENT_IEEE_DEEP_SLEEP	IEEE and Deep Sleep
WIFI EVENT WNM DEEP SLEEP	WNM and Deep Sleep
WIFI EVENT PS INVALID	PS Invalid
WIFI EVENT ERR MULTICAST	Error Multicast
WIFI EVENT ERR UNICAST	error Unicast
WIFI_EVENT_NLIST_REPORT	802.11K/11V neighbor report
WIFI EVENT 11N ADDBA	802.11N add block ack
WIFI EVENT 11N BA STREAM TIMEOUT	802.11N block Ack stream timeout
WIFI_EVENT_11N_DELBA	802.11n Delete block add
WIFI_EVENT_11N_AGGR_CTRL	802.11n aggregation control
WIFI EVENT CHAN SWITCH ANN	Channel Switch Announcement
WIFI_EVENT_CHAN_SWITCH	Channel Switch
WIFI_EVENT_NET_IPV6_CONFIG	IPv6 address state change
WIFI_EVENT_BG_SCAN_REPORT	
WIFI_EVENT_BG_SCAN_STOPPED	
WIFI_EVENT_MGMT_FRAME	
WIFI_EVENT_REMAIN_ON_CHANNEL	
WIFI_EVENT_MGMT_TX_STATUS	
WIFI_EVENT_CSI	
WIFI_EVENT_SYNC_REGION_CODE	Event to sync region code with connected AP
WIFI_EVENT_REGION_POWER_CFG	Event to set region power
WIFI EVENT LAST	Event to indicate end of Wi-Fi events
	<u> </u>



5.8.1.2 wifi_event_reason

enum wifi_event_reason

WiFi Event Reason

Enumerator

WIFI_EVENT_REASON_SUCCESS	Success
WIFI_EVENT_REASON_TIMEOUT	Timeout
WIFI_EVENT_REASON_FAILURE	Failure

5.8.1.3 wlan_bss_type

enum wlan_bss_type

Network wireless BSS Type

Enumerator

WLAN_BSS_TYPE_STA	Station
WLAN_BSS_TYPE_UAP	uAP
WLAN_BSS_TYPE_ANY	Any

5.8.1.4 wlan_bss_role

enum wlan_bss_role

Network wireless BSS Role

Enumerator

WLAN_BSS_ROLE_STA	Infrastructure network. The system will act as a station connected to an Access Point.
WLAN_BSS_ROLE_UAP	uAP (micro-AP) network. The system will act as an uAP node to which other
	Wireless clients can connect.
WLAN_BSS_ROLE_ANY	Either Infrastructure network or micro-AP network



5.8.1.5 wifi_wakeup_event_t

```
enum wifi_wakeup_event_t
```

This enum defines various wakeup events for which wakeup will occur

Enumerator

WIFI_WAKE_ON_ALL_BROADCAST	Wakeup on broadcast
WIFI_WAKE_ON_UNICAST	Wakeup on unicast
WIFI_WAKE_ON_MAC_EVENT	Wakeup on MAC event
WIFI_WAKE_ON_MULTICAST	Wakeup on multicast
WIFI_WAKE_ON_ARP_BROADCAST	Wakeup on ARP broadcast
WIFI_WAKE_ON_MGMT_FRAME	Wakeup on receiving a management frame

5.9 wifi_ping.h File Reference

This file provides the support for network utility ping.

5.9.1 Function Documentation

5.9.1.1 ping_cli_init()

Register Network Utility CLI commands.

Register the Network Utility CLI commands. Currently, only ping command is supported.

Note

This function can only be called by the application after wlan_init() called.

Returns

WM_SUCCESS if the CLI commands are registered

-WM_FAIL otherwise (for example if this function was called while the CLI commands were already registered)



5.9.1.2 ping_stats()

```
void ping_stats (
          int * total,
          int * recvd )
```

5.9.1.3 ping_cli_deinit()

Unregister Network Utility CLI commands.

Unregister the Network Utility CLI commands.

Returns

WM_SUCCESS if the CLI commands are unregistered -WM_FAIL otherwise

5.9.2 Macro Documentation

5.9.2.1 ping_e

5.9.2.2 ping_w

5.9.2.3 PING_ID

#define PING_ID 0xAFAFU



5.9.2.4 PING_INTERVAL

#define PING_INTERVAL 1000

5.9.2.5 PING_DEFAULT_TIMEOUT_SEC

#define PING_DEFAULT_TIMEOUT_SEC 2

5.9.2.6 PING_DEFAULT_COUNT

#define PING_DEFAULT_COUNT 10

5.9.2.7 PING DEFAULT SIZE

#define PING_DEFAULT_SIZE 56

5.9.2.8 PING_MAX_SIZE

#define PING_MAX_SIZE 65507U

5.9.2.9 PING_MAX_COUNT

#define PING_MAX_COUNT 65535U

5.10 wlan.h File Reference

WLAN Connection Manager.

5.10.1 Detailed Description

The WLAN Connection Manager (WLCMGR) is one of the core components that provides WiFi-level functionality like scanning for networks, starting a network (Access Point) and associating / disassociating with other wireless networks. The WLCMGR manages two logical interfaces, the station interface and the micro-AP interface. Both these interfaces can be active at the same time.



5.10.2 Usage

The WLCMGR is initialized by calling wlan_init() and started by calling wlan_start(), one of the arguments of this function is a callback handler. Many of the WLCMGR tasks are asynchronous in nature, and the events are provided by invoking the callback handler. The various usage scenarios of the WLCMGR are outlined below:

- **Scanning:** A call to wlan_scan() initiates an asynchronous scan of the nearby wireless networks. The results are reported via the callback handler.
- **Network Profiles:** Starting / stopping wireless interfaces or associating / disassociating with other wireless networks is managed through network profiles. The network profiles record details about the wireless network like the SSID, type of security, security passphrase among other things. The network profiles can be managed by means of the wlan add network() and wlan remove network() calls.
- Association: The wlan_connect() and wlan_disconnect() calls can be used to manage connectivity with other wireless networks (Access Points). These calls manage the station interface of the system.
- Starting a Wireless Network: The wlan_start_network() and wlan_stop_network() calls can be used to start/stop our own (micro-AP) network. These calls manage the micro-AP interface of the system.

5.10.3 Function Documentation

```
5.10.3.1 is_valid_security()
```

5.10.3.2 is_ep_valid_security()

5.10.3.3 verify_scan_duration_value()

5.10.3.4 verify_scan_channel_value()



5.10.3.5 verify_split_scan_delay()

5.10.3.6 set_scan_params()

5.10.3.7 get_scan_params()

5.10.3.8 wlan_get_current_rssi()

5.10.3.9 wlan_get_current_nf()

5.10.3.10 wlan_init()

Initialize the SDIO driver and create the wifi driver thread.

Parameters

in	fw_start_addr	Start address of the WLAN firmware.
in	size	Size of the WLAN firmware.



Returns

WM_SUCCESS if the WLAN Connection Manager service has initialized successfully. Negative value if initialization failed.

Start the WLAN Connection Manager service.

This function starts the WLAN Connection Manager.

Note

The status of the WLAN Connection Manager is notified asynchronously through the callback, *cb*, with a WL← AN_REASON_INITIALIZED event (if initialization succeeded) or WLAN_REASON_INITIALIZATION_FAILED (if initialization failed).

If the WLAN Connection Manager fails to initialize, the caller should stop WLAN Connection Manager via wlan_stop() and try wlan_start() again.

Parameters

in	cb	A pointer to a callback function that handles WLAN events. All further WLCMGR events will be
		notified in this callback. Refer to enum wlan_event_reason for the various events for which this
		callback is called.

Returns

WM_SUCCESS if the WLAN Connection Manager service has started successfully.

- -WM_E_INVAL if the cb pointer is NULL.
- -WM FAIL if an internal error occurred.

WLAN_ERROR_STATE if the WLAN Connection Manager is already running.

5.10.3.12 wlan_stop()

```
int wlan_stop (
    void )
```

Stop the WLAN Connection Manager service.

This function stops the WLAN Connection Manager, causing station interface to disconnect from the currently connected network and stop the micro-AP interface.

Returns

WM_SUCCESS if the WLAN Connection Manager service has been stopped successfully. WLAN_ERROR_STATE if the WLAN Connection Manager was not running.



5.10.3.13 wlan_deinit()

Deinitialize SDIO driver, send shutdown command to WLAN firmware and delete the wifi driver thread.

Parameters

action | Additional action to be taken with deinit WLAN_ACTIVE: no action to be taken

5.10.3.14 wlan_remove_all_network_profiles()

Stop and Remove all wireless network profiles.

Returns

WM SUCCESS if successful.

5.10.3.15 wlan_initialize_uap_network()

WLAN initialize micro-AP network information

This API intializes a default micro-AP network. The network ssid, passphrase is initialized to NULL. Channel is set to auto. The IP Address of the micro-AP interface is 192.168.10.1/255.255.255.0. Network name is set to 'uap-network'.

Parameters

out <i>net</i>	Pointer to the initialized micro-AP network
----------------	---

5.10.3.16 wlan_initialize_sta_network()



WLAN initialize station network information

This API intializes a default station network. The network ssid, passphrase is initialized to NULL. Channel is set to auto.

Parameters

out	: n	et	Pointer to the initialized micro-AP network	1
-----	-----	----	---	---

5.10.3.17 wlan_add_network()

Add a network profile to the list of known networks.

This function copies the contents of *network* to the list of known networks in the WLAN Connection Manager. The network's 'name' field must be unique and between WLAN_NETWORK_NAME_MIN_LENGTH and WLAN_NE← TWORK_NAME_MAX_LENGTH characters. The network must specify at least an SSID or BSSID. The WLAN Connection Manager may store up to WLAN_MAX_KNOWN_NETWORKS networks.

Note

Profiles for the station interface may be added only when the station interface is in the WLAN_DISCONNE ← CTED or WLAN CONNECTED state.

This API can be used to add profiles for station or micro-AP interfaces.

Parameters

in	network	A pointer to the wlan_network that will be copied to the list of known networks in the WLAN
		Connection Manager successfully.

Returns

WM_SUCCESS if the contents pointed to by *network* have been added to the WLAN Connection Manager.
-WM_E_INVAL if *network* is NULL or the network name is not unique or the network name length is not valid or network security is WLAN_SECURITY_WPA3_SAE but Management Frame Protection Capable is not enabled. in wlan_network_security field. if network security type is WLAN_SECURITY_WPA or WLAN ○ _SECURITY_WPA2 or WLAN_SECURITY_WPA2_MIXED, but the passphrase length is less than 8 or greater than 63, or the psk length equal to 64 but not hexadecimal digits. if network security type is WLAN_⇔ SECURITY_WPA3_SAE, but the password length is less than 8 or greater than 255. if network security type is WLAN_SECURITY_WEP_OPEN or WLAN_SECURITY_WEP_SHARED.

-WM_E_NOMEM if there was no room to add the network.

WLAN_ERROR_STATE if the WLAN Connection Manager was running and not in the WLAN_DISCONNE CTED, WLAN ASSOCIATED or WLAN CONNECTED state.



5.10.3.18 wlan_remove_network()

Remove a network profile from the list of known networks.

This function removes a network (identified by its name) from the WLAN Connection Manager, disconnecting from that network if connected

Note

This function is asynchronous if it is called while the WLAN Connection Manager is running and connected to the network to be removed. In that case, the WLAN Connection Manager will disconnect from the network and generate an event with reason WLAN_REASON_USER_DISCONNECT. This function is synchronous otherwise.

This API can be used to remove profiles for station or micro-AP interfaces. Station network will not be removed if it is in WLAN_CONNECTED state and uAP network will not be removed if it is in WLAN_UAP_STARTED state

Parameters

in	name	A pointer to the string representing the name of the network to remove.
----	------	---

Returns

WM_SUCCESS if the network named *name* was removed from the WLAN Connection Manager successfully. Otherwise, the network is not removed.

WLAN_ERROR_STATE if the WLAN Connection Manager was running and the station interface was not in the WLAN_DISCONNECTED state.

- -WM_E_INVAL if name is NULL or the network was not found in the list of known networks.
- -WM FAIL if an internal error occurred while trying to disconnect from the network specified for removal.

5.10.3.19 wlan_connect()

Connect to a wireless network (Access Point).

When this function is called, WLAN Connection Manager starts connection attempts to the network specified by *name*. The connection result will be notified asynchronously to the WLCMGR callback when the connection process has completed.

When connecting to a network, the event refers to the connection attempt to that network.

Calling this function when the station interface is in the WLAN_DISCONNECTED state will, if successful, cause the interface to transition into the WLAN_CONNECTING state. If the connection attempt succeeds, the station interface will transition to the WLAN_CONNECTED state, otherwise it will return to the WLAN_DISCONNECTED state. If this function is called while the station interface is in the WLAN_CONNECTING or WLAN_CONNECTED state, the WLAN Connection Manager will first cancel its connection attempt or disconnect from the network, respectively, and



generate an event with reason WLAN_REASON_USER_DISCONNECT. This will be followed by a second event that reports the result of the new connection attempt.

If the connection attempt was successful the WLCMGR callback is notified with the event WLAN_REASON_SUC CESS, while if the connection attempt fails then either of the events, WLAN_REASON_NETWORK_NOT_FOUND, WLAN_REASON_NETWORK_AUTH_FAILED, WLAN_REASON_CONNECT_FAILED or WLAN_REASON_AD DRESS_FAILED are reported as appropriate.



Parameters

in	name	A pointer to a string representing the name of the network to connect to.	
----	------	---	--

Returns

WM_SUCCESS if a connection attempt was started successfully

WLAN_ERROR_STATE if the WLAN Connection Manager was not running.

- -WM_E_INVAL if there are no known networks to connect to or the network specified by *name* is not in the list of known networks or network *name* is NULL.
- -WM FAIL if an internal error has occurred.

5.10.3.20 wlan_connect_opt()

Connect to a wireless network (Access Point) with options.

When this function is called, WLAN Connection Manager starts connection attempts to the network specified by *name*. The connection result will be notified asynchronously to the WLCMGR callback when the connection process has completed.

When connecting to a network, the event refers to the connection attempt to that network.

Calling this function when the station interface is in the WLAN_DISCONNECTED state will, if successful, cause the interface to transition into the WLAN_CONNECTING state. If the connection attempt succeeds, the station interface will transition to the WLAN_CONNECTED state, otherwise it will return to the WLAN_DISCONNECTED state. If this function is called while the station interface is in the WLAN_CONNECTING or WLAN_CONNECTED state, the WLAN Connection Manager will first cancel its connection attempt or disconnect from the network, respectively, and generate an event with reason WLAN_REASON_USER_DISCONNECT. This will be followed by a second event that reports the result of the new connection attempt.

If the connection attempt was successful the WLCMGR callback is notified with the event WLAN_REASON_SUC CESS, while if the connection attempt fails then either of the events, WLAN_REASON_NETWORK_NOT_FOUND, WLAN_REASON_NETWORK_AUTH_FAILED, WLAN_REASON_CONNECT_FAILED or WLAN_REASON_AD DRESS FAILED are reported as appropriate.

Parameters

in	name	A pointer to a string representing the name of the network to connect to.	
in	skip_dfs	Option to skip DFS channel when doing scan.	

Returns

WM_SUCCESS if a connection attempt was started successfully

WLAN ERROR STATE if the WLAN Connection Manager was not running.

- -WM_E_INVAL if there are no known networks to connect to or the network specified by *name* is not in the list of known networks or network *name* is NULL.
- -WM FAIL if an internal error has occurred.



5.10.3.21 wlan_reassociate()

```
int wlan_reassociate ( )
```

Reassociate to a wireless network (Access Point).

When this function is called, WLAN Connection Manager starts reassociation attempts using same SSID as currently connected network . The connection result will be notified asynchronously to the WLCMGR callback when the connection process has completed.

When connecting to a network, the event refers to the connection attempt to that network.

Calling this function when the station interface is in the WLAN DISCONNECTED state will have no effect.

Calling this function when the station interface is in the WLAN_CONNECTED state will, if successful, cause the interface to reassociate to another network(AP).

If the connection attempt was successful the WLCMGR callback is notified with the event WLAN_REASON_SUCCESS, while if the connection attempt fails then either of the events, WLAN_REASON_NETWORK_AUTH_FAILED, WLAN_REASON_CONNECT_FAILED or WLAN_REASON_ADDRESS_FAILED are reported as appropriate.

Returns

WM_SUCCESS if a reassociation attempt was started successfully WLAN_ERROR_STATE if the WLAN Connection Manager was not running. or WLAN Connection Manager was not in WLAN CONNECTED state.

- -WM E INVAL if there are no known networks to connect to
- -WM FAIL if an internal error has occurred.

5.10.3.22 wlan_disconnect()

Disconnect from the current wireless network (Access Point).

When this function is called, the WLAN Connection Manager attempts to disconnect the station interface from its currently connected network (or cancel an in-progress connection attempt) and return to the WLAN_DISCONNECTED state. Calling this function has no effect if the station interface is already disconnected.

Note

This is an asynchronous function and successful disconnection will be notified using the WLAN_REASON_← USER_DISCONNECT.

Returns

WM_SUCCESS if successful WLAN_ERROR_STATE otherwise



5.10.3.23 wlan_start_network()

Start a wireless network (Access Point).

When this function is called, the WLAN Connection Manager starts the network specified by *name*. The network with the specified *name* must be first added using wlan_add_network and must be a micro-AP network with a valid SSID.

Note

The WLCMGR callback is asynchronously notified of the status. On success, the event WLAN_REASON_← UAP_SUCCESS is reported, while on failure, the event WLAN_REASON_UAP_START_FAILED is reported.

Parameters

in	name	A pointer to string representing the name of the network to connect to.
	manno	Typointer to during representing the name of the network to defined to:

Returns

WM_SUCCESS if successful.

WLAN ERROR STATE if in power save state or uAP already running.

-WM_E_INVAL if name was NULL or the network name was not found or it not have a specified SSID.

5.10.3.24 wlan_stop_network()

Stop a wireless network (Access Point).

When this function is called, the WLAN Connection Manager stops the network specified by *name*. The specified network must be a valid micro-AP network that has already been started.

Note

The WLCMGR callback is asynchronously notified of the status. On success, the event WLAN_REASON_← UAP_STOPPED is reported, while on failure, the event WLAN_REASON_UAP_STOP_FAILED is reported.

Parameters

_			
	in	name	A pointer to a string representing the name of the network to stop.



Returns

WM_SUCCESS if successful.

WLAN_ERROR_STATE if uAP is in power save state.

-WM_E_INVAL if *name* was NULL or the network *name* was not found or that the network *name* is not a micro-AP network or it is a micro-AP network but does not have a specified SSID.

5.10.3.25 wlan_get_mac_address()

Retrieve the wireless MAC address of station interface.

This function copies the MAC address of the station interface to sta mac address and uAP interface to uap mac address.

Parameters

out	dest	A pointer to a 6-byte array where the MAC address will be copied.
-----	------	---

Returns

WM_SUCCESS if the MAC address was copied. -WM_E_INVAL if *sta_mac* or uap_mac is NULL.

5.10.3.26 wlan_get_mac_address_uap()

Retrieve the wireless MAC address of micro-AP interface.

This function copies the MAC address of the wireless interface to the 6-byte array pointed to by *dest*. In the event of an error, nothing is copied to *dest*.

Parameters

out dest A pointer to a 6-byte array where the MAC address will be cop	ed.	
--	-----	--

Returns

WM_SUCCESS if the MAC address was copied. -WM_E_INVAL if *dest* is NULL.



5.10.3.27 wlan_get_address()

Retrieve the IP address configuration of the station interface.

This function retrieves the IP address configuration of the station interface and copies it to the memory location pointed to by *addr*.

Note

This function may only be called when the station interface is in the WLAN_CONNECTED state.

Parameters

	out	addr	A pointer to the wlan_	_ip_	_config.
--	-----	------	------------------------	------	----------

Returns

WM_SUCCESS if successful.

-WM E INVAL if addr is NULL.

WLAN_ERROR_STATE if the WLAN Connection Manager was not running or was not in the WLAN_CON← NECTED state.

-WM FAIL if an internal error occurred when retrieving IP address information from the TCP stack.

5.10.3.28 wlan_get_uap_address()

Retrieve the IP address of micro-AP interface.

This function retrieves the current IP address configuration of micro-AP and copies it to the memory location pointed to by *addr*.

Note

This function may only be called when the micro-AP interface is in the WLAN_UAP_STARTED state.

Parameters

out addr A pointer to the wlan_ip_config
--

Returns

WM_SUCCESS if successful.
-WM_E_INVAL if addr is NULL.



WLAN_ERROR_STATE if the WLAN Connection Manager was not running or the micro-AP interface was not in the WLAN_UAP_STARTED state.

-WM_FAIL if an internal error occurred when retrieving IP address information from the TCP stack.

5.10.3.29 wlan_get_uap_channel()

Retrieve the channel of micro-AP interface.

This function retrieves the channel number of micro-AP and copies it to the memory location pointed to by channel.

Note

This function may only be called when the micro-AP interface is in the WLAN_UAP_STARTED state.

Parameters

out	channel	A pointer to variable that stores channel number.
-----	---------	---

Returns

WM_SUCCESS if successful.

- -WM_E_INVAL if channel is NULL.
- -WM_FAIL if an internal error has occurred.

5.10.3.30 wlan_get_current_network()

Retrieve the current network configuration of station interface.

This function retrieves the current network configuration of station interface when the station interface is in the WLAN_CONNECTED state.

Parameters

out	network	A pointer to the wlan_network.
-----	---------	--------------------------------

Returns

WM_SUCCESS if successful.
-WM_E_INVAL if network is NULL.



WLAN_ERROR_STATE if the WLAN Connection Manager was not running or not in the WLAN_CONNEC←
TED state

5.10.3.31 wlan_get_current_network_ssid()

Retrieve the current network ssid of station interface.

This function retrieves the current network ssid of station interface when the station interface is in the WLAN_CO← NNECTED state.

Parameters

out ssid	A pointer to the ssid.
----------	------------------------

Returns

WM_SUCCESS if successful.

-WM E INVAL if network is NULL.

WLAN_ERROR_STATE if the WLAN Connection Manager was not running or not in the WLAN_CONNEC

TED state.

5.10.3.32 wlan_get_current_network_bssid()

Retrieve the current network bssid of station interface.

This function retrieves the current network bssid of station interface when the station interface is in the WLAN_ $C \leftarrow$ ONNECTED state.

Parameters

out	bssid	A pointer to the bssid.

Returns

WM SUCCESS if successful.

-WM_E_INVAL if network is NULL.

WLAN_ERROR_STATE if the WLAN Connection Manager was not running or not in the WLAN_CONNEC ← TED state.



5.10.3.33 wlan_get_current_uap_network()

Retrieve the current network configuration of micro-AP interface.

This function retrieves the current network configuration of micro-AP interface when the micro-AP interface is in the WLAN_UAP_STARTED state.

Parameters

out	network	A pointer to the wlan_network.
-----	---------	--------------------------------

Returns

WM SUCCESS if successful.

-WM_E_INVAL if network is NULL.

WLAN_ERROR_STATE if the WLAN Connection Manager was not running or not in the WLAN_UAP_STA RTED state.

5.10.3.34 wlan_get_current_uap_network_ssid()

Retrieve the current network ssid of micro-AP interface.

This function retrieves the current network ssid of micro-AP interface when the micro-AP interface is in the $WLA \leftarrow N_UAP_STARTED$ state.

Parameters

out ssid A pointer to the ssid	d.
--------------------------------	----

Returns

WM_SUCCESS if successful.

-WM_E_INVAL if network is NULL.

WLAN_ERROR_STATE if the WLAN Connection Manager was not running or not in the WLAN_UAP_STA RTED state.

5.10.3.35 is_uap_started()

Retrieve the status information of the micro-AP interface.



Returns

TRUE if micro-AP interface is in WLAN_UAP_STARTED state. FALSE otherwise.

5.10.3.36 is_sta_connected()

Retrieve the status information of the station interface.

Returns

TRUE if station interface is in WLAN_CONNECTED state. FALSE otherwise.

5.10.3.37 is_sta_ipv4_connected()

Retrieve the status information of the ipv4 network of station interface.

Returns

TRUE if ipv4 network of station interface is in WLAN_CONNECTED state. FALSE otherwise.

5.10.3.38 is_sta_ipv6_connected()

Retrieve the status information of the ipv6 network of station interface.

Returns

TRUE if ipv6 network of station interface is in WLAN_CONNECTED state. FALSE otherwise.



5.10.3.39 wlan_get_network()

```
int wlan_get_network (
          unsigned int index,
          struct wlan_network * network )
```

Retrieve the information about a known network using index.

This function retrieves the contents of a network at *index* in the list of known networks maintained by the WLAN Connection Manager and copies it to the location pointed to by *network*.

Note

wlan_get_network_count() may be used to retrieve the number of known networks. wlan_get_network() may be used to retrieve information about networks at *index* 0 to one minus the number of networks.

This function may be called regardless of whether the WLAN Connection Manager is running. Calls to this function are synchronous.

Parameters

in	index	The index of the network to retrieve.	
out	network	A pointer to the wlan_network where the network configuration for the network at index will	
		be copied.	

Returns

```
WM_SUCCESS if successful.
-WM_E_INVAL if network is NULL or index is out of range.
```

5.10.3.40 wlan_get_network_byname()

Retrieve information about a known network using name.

This function retrieves the contents of a named network in the list of known networks maintained by the WLAN Connection Manager and copies it to the location pointed to by *network*.

Note

This function may be called regardless of whether the WLAN Connection Manager is running. Calls to this function are synchronous.

Parameters

in	name	The name of the network to retrieve.	
out	network	A pointer to the wlan_network where the network configuration for the network having name	
		as <i>name</i> will be copied.	



Returns

```
WM_SUCCESS if successful.
-WM_E_INVAL if network is NULL or name is NULL.
```

5.10.3.41 wlan_get_network_count()

```
int wlan_get_network_count (
          unsigned int * count )
```

Retrieve the number of networks known to the WLAN Connection Manager.

This function retrieves the number of known networks in the list maintained by the WLAN Connection Manager and copies it to *count*.

Note

This function may be called regardless of whether the WLAN Connection Manager is running. Calls to this function are synchronous.

Parameters

ou	count	A pointer to the memory location where the number of networks will be copied.
----	-------	---

Returns

```
WM_SUCCESS if successful.
-WM_E_INVAL if count is NULL.
```

5.10.3.42 wlan_get_connection_state()

Retrieve the connection state of station interface.

This function retrieves the connection state of station interface, which is one of WLAN_DISCONNECTED, WLAN← _CONNECTING, WLAN_ASSOCIATED or WLAN_CONNECTED.

Parameters

out	state	A pointer to the wlan	connection	state where the curren	t connection state will be copied	
-----	-------	-----------------------	------------	------------------------	-----------------------------------	--



Returns

```
WM_SUCCESS if successful.
-WM_E_INVAL if state is NULL
WLAN_ERROR_STATE if the WLAN Connection Manager was not running.
```

5.10.3.43 wlan_get_uap_connection_state()

Retrieve the connection state of micro-AP interface.

This function retrieves the connection state of micro-AP interface, which is one of WLAN_UAP_STARTED, or W← LAN_UAP_STOPPED.

Parameters

out state A pointer to the wlan_connection_state where the current connection	on state will be copied.
---	--------------------------

Returns

```
WM_SUCCESS if successful.
-WM_E_INVAL if state is NULL
WLAN_ERROR_STATE if the WLAN Connection Manager was not running.
```

5.10.3.44 wlan_scan()

Scan for wireless networks.

When this function is called, the WLAN Connection Manager starts scan for wireless networks. On completion of the scan the WLAN Connection Manager will call the specified callback function *cb*. The callback function can then retrieve the scan results by using the wlan_get_scan_result() function.

Note

This function may only be called when the station interface is in the WLAN_DISCONNECTED or WLAN_C↔ ONNECTED state. Scanning is disabled in the WLAN_CONNECTING state.

This function will block until it can issue a scan request if called while another scan is in progress.

Parameters

in cb A pointer to the function that will be called to handle scan results when they are available.



Returns

WM_SUCCESS if successful.

- -WM_E_NOMEM if failed to allocated memory for wlan_scan_params_v2_t structure.
- -WM_E_INVAL if cb scan result callack functio pointer is NULL.

WLAN_ERROR_STATE if the WLAN Connection Manager was not running or not in the WLAN_DISCONN ← ECTED or WLAN CONNECTED states.

-WM_FAIL if an internal error has occurred and the system is unable to scan.

5.10.3.45 wlan_scan_with_opt()

Scan for wireless networks using options provided.

When this function is called, the WLAN Connection Manager starts scan for wireless networks. On completion of the scan the WLAN Connection Manager will call the specified callback function *cb*. The callback function can then retrieve the scan results by using the wlan_get_scan_result() function.

Note

This function may only be called when the station interface is in the WLAN_DISCONNECTED or WLAN_C ONNECTED state. Scanning is disabled in the WLAN_CONNECTING state.

This function will block until it can issue a scan request if called while another scan is in progress.

Parameters

in	t_wlan_scan_param	A wlan_scan_params_v2_t structure holding a pointer to function that will be
		called to handle scan results when they are available, SSID of a wireless network,
		BSSID of a wireless network, number of channels with scan type information and
		number of probes.

Returns

WM SUCCESS if successful.

- -WM E NOMEM if failed to allocated memory for wlan scan params v2 t structure.
- -WM_E_INVAL if *cb* scan result callack function pointer is NULL.

WLAN_ERROR_STATE if the WLAN Connection Manager was not running or not in the WLAN_DISCONN ← ECTED or WLAN CONNECTED states.

-WM_FAIL if an internal error has occurred and the system is unable to scan.

5.10.3.46 wlan_get_scan_result()

```
int wlan_get_scan_result (
          unsigned int index,
          struct wlan_scan_result * res )
```



Retrieve a scan result.

This function may be called to retrieve scan results when the WLAN Connection Manager has finished scanning. It must be called from within the scan result callback (see wlan_scan()) as scan results are valid only in that context. The callback argument 'count' provides the number of scan results that may be retrieved and wlan_get_scan_result() may be used to retrieve scan results at *index* 0 through that number.

Note

This function may only be called in the context of the scan results callback. Calls to this function are synchronous.

Parameters

in	index	The scan result to retrieve.	
out	res	A pointer to the wlan_scan_result where the scan result information will be copied.	

Returns

WM_SUCCESS if successful.

-WM_E_INVAL if res is NULL

WLAN_ERROR_STATE if the WLAN Connection Manager was not running

-WM FAIL if the scan result at *index* could not be retrieved (that is, *index* is out of range).

```
5.10.3.47 wlan_enable_low_pwr_mode()
```

```
int wlan_enable_low_pwr_mode ( )
```

Enable Low Power Mode in Wireless Firmware

Note

When low power mode is enabled, the output power will be clipped at \sim +10dBm and the expected PA current is expected to be in the 80-90 mA range for b/g/n modes.

This function may be called to enable low power mode in firmware. This should be called before wlan init() function.

Returns

```
WM_SUCCESS if the call was successful. -WM FAIL if failed.
```

```
5.10.3.48 wlan_set_ed_mac_mode()
```

Configure ED MAC mode for Station in Wireless Firmware.

Note

When ed mac mode is enabled, Wireless Firmware will behave following way:

when background noise had reached -70dB or above, WiFi chipset/module should hold data transmitting until condition is removed. It is applicable for both 5GHz and 2.4GHz bands.



Parameters

in	wlan_ed_mac_ctrl	Struct with following parameters ed_ctrl_2g 0 - disable EU adaptivity for 2.4GHz
		band 1 - enable EU adaptivity for 2.4GHz band

ed_offset_2g 0 - Default Energy Detect threshold (Default: 0x9) offset value range: 0x80 to 0x7F

Note

If 5GH enabled then add following parameters

```
ed_ctrl_5g 0 - disable EU adaptivity for 5GHz band 1 - enable EU adaptivity for 5GHz band ed_offset_5g 0 - Default Energy Detect threshold(Default: 0xC) offset value range: 0x80 to 0x7F
```

Returns

WM_SUCCESS if the call was successful. -WM_FAIL if failed.

5.10.3.49 wlan_set_uap_ed_mac_mode()

Configure ED MAC mode for Micro AP in Wireless Firmware.

Note

When ed mac mode is enabled, Wireless Firmware will behave following way:

when background noise had reached -70dB or above, WiFi chipset/module should hold data transmitting until condition is removed. It is applicable for both 5GHz and 2.4GHz bands.

Parameters

in	wlan_ed_mac_ctrl	Struct with following parameters ed_ctrl_2g 0 - disable EU adaptivity for 2.4GHz
		band 1 - enable EU adaptivity for 2.4GHz band

ed offset 2g 0 - Default Energy Detect threshold (Default: 0x9) offset value range: 0x80 to 0x7F

Note

If 5GH enabled then add following parameters



Returns

```
WM_SUCCESS if the call was successful. -WM_FAIL if failed.
```

```
5.10.3.50 wlan_get_ed_mac_mode()
```

This API can be used to get current ED MAC MODE configuration for Station.

Parameters

out	wlan_ed_mac_ctrl	A pointer to wlan_ed_mac_ctrl_t with parameters mentioned in above set API.
-----	------------------	---

Returns

WM_SUCCESS if the call was successful. -WM_FAIL if failed.

5.10.3.51 wlan_get_uap_ed_mac_mode()

This API can be used to get current ED MAC MODE configuration for Micro AP.

Parameters

Returns

WM_SUCCESS if the call was successful. -WM_FAIL if failed.

5.10.3.52 wlan_set_cal_data()



Set wireless calibration data in WLAN firmware.

This function may be called to set wireless calibration data in firmware. This should be call before wlan_init() function.



Parameters

in	cal_data	The calibration data buffer
in cal_data_size		Size of calibration data buffer.

5.10.3.53 wlan_set_mac_addr()

```
int wlan_set_mac_addr ( \label{eq:condition} \mbox{uint8\_t} \ * \ \mbox{\it mac} \ )
```

Set wireless MAC Address in WLAN firmware.

This function may be called to set wireless MAC Address in firmware. This should be call before wlan_init() function. When called after wlan init done, the incoming mac is treated as the sta mac address directly. And mac[4] plus 1 the modified mac as the UAP mac address.

Parameters

in	mac	The MAC Address in 6 byte array format like uint8_t mac[] = { 0x00, 0x50, 0x43, 0x21, 0x19, 0x6E};	
----	-----	--	--

Returns

WM_SUCCESS if the call was successful. -WM_FAIL if failed.

5.10.3.54 wlan_set_sta_mac_addr()

Set wireless MAC Address for STA in WLAN firmware.

This function may be called to set wireless MAC Address in firmware. This should be call before wlan_init() function. When called after wlan init done, it will set only STA MAC address.

Parameters

in	mac	The MAC Address in 6 byte array format like uint8_t mac[] = { $0x00, 0x50, 0x43, 0x21, 0x19, 0x6E$ };
----	-----	---

Returns

WM_SUCCESS if the call was successful. -WM_FAIL if failed.



5.10.3.55 wlan_set_uap_mac_addr()

Set wireless MAC Address for uAP in WLAN firmware.

This function may be called to set wireless MAC Address in firmware. This should be call before wlan_init() function. When called after wlan init done, it will set only uAP MAC address.

Parameters

in	mac	The MAC Address in 6 byte array format like uint8_t mac[] = { 0x00, 0x50, 0x43, 0x21, 0x19, 0x6E};
----	-----	--

Returns

WM_SUCCESS if the call was successful. -WM_FAIL if failed.

5.10.3.56 wlan_set_roaming()

Set soft roaming config.

This function may be called to enable/disable soft roaming by specifying the RSSI threshold.

Note

RSSI Threshold setting for soft roaming: The provided RSSI low threshold value is used to subscribe RSSI low event from firmware, on reception of this event background scan is started in firmware with same RSSI threshold to find out APs with better signal strength than RSSI threshold.

If AP is found then roam attempt is initiated, otherwise background scan started again till limit reaches to BG_SC← AN LIMIT.

If still AP is not found then WLAN connection manager sends WLAN_REASON_BGSCAN_NETWORK_NOT_F OUND event to application. In this case, if application again wants to use soft roaming then it can call this API again or use wlan_set_rssi_low_threshold API to set RSSI low threshold again.

Parameters

in	enable	Enable/disable roaming.	
in	rssi_low_threshold	RSSI low threshold value	



Returns

```
WM_SUCCESS if the call was successful. -WM_FAIL if failed.
```

```
5.10.3.57 wlan_get_roaming_status()
```

```
int wlan_get_roaming_status ( )
```

5.10.3.58 wlan_set_ieeeps_cfg()

Set configuration parameters of IEEE power save mode.

Parameters

iguratiuon includes multiple parameters.	in <i>ps_cfg</i> : powersave c
--	--------------------------------

Returns

WM_SUCCESS if the call was successful. -WM FAIL if failed.

5.10.3.59 wlan_configure_listen_interval()

Configure Listen interval of IEEE power save mode.

Note

Delivery Traffic Indication Message (DTIM): It is a concept in 802.11 It is a time duration after which AP will send out buffered BROADCAST / MULTICAST data and stations connected to the AP should wakeup to take this broadcast / multicast data.

Traffic Indication Map (TIM): It is a bitmap which the AP sends with each beacon. The bitmap has one bit each for a station connected to AP.

Each station is recognized by an Association Id (AID). If AID is say 1 bit number 1 is set in the bitmap if unicast data is present with AP in its buffer for station with AID = 1 Ideally AP does not buffer any unicast data it just sends unicast data to the station on every beacon when station is not sleeping.

When broadcast data / multicast data is to be send AP sets bit 0 of TIM indicating broadcast / multicast. The occurrence of DTIM is defined by AP.



Each beacon has a number indicating period at which DTIM occurs.

The number is expressed in terms of number of beacons.

This period is called DTIM Period / DTIM interval.

For example:

If AP has DTIM period = 3 the stations connected to AP have to wake up (if they are sleeping) to receive broadcast /multicast data on every third beacon.

Generic

When DTIM period is X AP buffers broadcast data / multicast data for X beacons. Then it transmits the data no matter whether station is awake or not.

Listen interval:

This is time interval on station side which indicates when station will be awake to listen i.e. accept data. Long listen interval:

It comes into picture when station sleeps (IEEEPS) and it does not want to wake up on every DTIM So station is not worried about broadcast data/multicast data in this case.

This should be a design decision what should be chosen Firmware suggests values which are about 3 times DTIM at the max to gain optimal usage and reliability.

In the IEEEPS power save mode, the WiFi firmware goes to sleep and periodically wakes up to check if the AP has any pending packets for it. A longer listen interval implies that the WiFi card stays in power save for a longer duration at the cost of additional delays while receiving data. Please note that choosing incorrect value for listen interval will causes poor response from device during data transfer. Actual listen interval selected by firmware is equal to closest DTIM.

For e.g.:-

AP beacon period: 100 ms

AP DTIM period: 2

Application request value: 500ms

Actual listen interval = 400ms (This is the closest DTIM). Actual listen interval set will be a multiple of DTIM closest to but lower than the value provided by the application.

This API can be called before/after association. The configured listen interval will be used in subsequent association attempt.

Parameters

in	listen_interval	Listen interval as below
		0 : Unchanged,
		-1 : Disable,
		1-49: Value in beacon intervals,
		>= 50: Value in TUs
	`	

5.10.3.60 wlan_configure_delay_to_ps()

5.10.3.61 wlan_get_listen_interval()

```
unsigned short wlan_get_listen_interval ( )
```



5.10.3.62 wlan_get_delay_to_ps()

```
unsigned int wlan_get_delay_to_ps ( )
```

5.10.3.63 wlan_is_power_save_enabled()

```
bool wlan_is_power_save_enabled ( )
```

5.10.3.64 wlan_configure_null_pkt_interval()

Configure Null packet interval of IEEE power save mode.

Note

In IEEEPS station sends a NULL packet to AP to indicate that the station is alive and AP should not kick it off. If null packet is not send some APs may disconnect station which might lead to a loss of connectivity. The time is specified in seconds. Default value is 30 seconds.

This API should be called before configuring IEEEPS

Parameters

in	time_in_secs	: -1 Disables null packet transmission, 0 Null packet interval is unchanged, n Null packet
		interval in seconds.

5.10.3.65 wlan_set_antcfg()

This API can be used to set the mode of Tx/Rx antenna. If SAD is enabled, this API can also used to set SAD antenna evaluate time interval(antenna mode must be antenna diversity when set SAD evaluate time interval).

Parameters

in	ant	Antenna valid values are 1, 2 and 65535 1 : Tx/Rx antenna 1 2 : Tx/Rx antenna 2	
		0xFFFF: Tx/Rx antenna diversity	
in	evaluate_time	SAD evaluate time interval, default value is 6s(0x1770).	



Returns

```
WM_SUCCESS if successful. WLAN_ERROR_STATE if unsuccessful.
```

5.10.3.66 wlan_get_antcfg()

This API can be used to get the mode of Tx/Rx antenna. If SAD is enabled, this API can also used to get SAD antenna evaluate time interval(antenna mode must be antenna diversity when set SAD evaluate time interval).

Parameters

out	ant	pointer to antenna variable.
out	evaluate_time	pointer to evaluate_time variable for SAD.
out current_antenna		pointer to current antenna.

Returns

WM_SUCCESS if successful. WLAN_ERROR_STATE if unsuccessful.

5.10.3.67 wlan_get_firmware_version_ext()

Get the wifi firmware version extension string.

Note

This API does not allocate memory for pointer. It just returns pointer of WLCMGR internal static buffer. So no need to free the pointer by caller.

Returns

wifi firmware version extension string pointer stored in WLCMGR



5.10.3.68 wlan_version_extended()

```
void wlan_version_extended ( \mbox{void} \mbox{ )}
```

Use this API to print wlan driver and firmware extended version.

5.10.3.69 wlan_get_tsf()

Use this API to get the TSF from Wi-Fi firmware.

Parameters

in	tsf_high	Pointer to store TSF higher 32bits.
in	tsf_low	Pointer to store TSF lower 32bits.

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.70 wlan_ieeeps_on()

Enable IEEEPS with Host Sleep Configuration

When enabled, it opportunistically puts the wireless card into IEEEPS mode. Before putting the Wireless card in power save this also sets the hostsleep configuration on the card as specified. This makes the card generate a wakeup for the processor if any of the wakeup conditions are met.

Parameters

in	wakeup_conditions	conditions to wake the host. This should be a logical OR of the conditions in
		wlan_wakeup_event_t. Typically devices would want to wake up on
		WAKE_ON_ALL_BROADCAST, WAKE_ON_UNICAST,
		WAKE_ON_MAC_EVENT. WAKE_ON_MULTICAST,
		WAKE_ON_ARP_BROADCAST, WAKE_ON_MGMT_FRAME

Returns

WM_SUCCESS if the call was successful. -WM_FAIL otherwise.



5.10.3.71 wlan_ieeeps_off()

```
int wlan_ieeeps_off (
     void )
```

Turn off IEEE Power Save mode.

Note

This call is asynchronous. The system will exit the power-save mode only when all requisite conditions are met.

Returns

WM_SUCCESS if the call was successful. -WM FAIL otherwise.

5.10.3.72 wlan_deepsleepps_on()

Turn on Deep Sleep Power Save mode.

Note

This call is asynchronous. The system will enter the power-save mode only when all requisite conditions are met. For example, wlan should be disconnected for this to work.

Returns

WM_SUCCESS if the call was successful. -WM_FAIL otherwise.

5.10.3.73 wlan_deepsleepps_off()

Turn off Deep Sleep Power Save mode.

Note

This call is asynchronous. The system will exit the power-save mode only when all requisite conditions are met.

Returns

WM_SUCCESS if the call was successful. -WM_FAIL otherwise.



5.10.3.74 wlan_tcp_keep_alive()

Use this API to configure the TCP Keep alive parameters in Wi-Fi firmware. wlan_tcp_keep_alive_t provides the parameters which are available for configuration.

Note

To reset current TCP Keep alive configuration just pass the reset with value 1, all other parameters are ignored in this case.

Please note that this API must be called after successful connection and before putting Wi-Fi card in IEEE power save mode.

Parameters

in	keep_alive	A pointer to wlan_tcp_keep_alive_t with following parameters. enable Enable keep alive
		reset Reset keep alive timeout Keep alive timeout interval Keep alive interval
		max_keep_alives Maximum keep alives dst_mac Destination MAC address dst_ip
		Destination IP dst_tcp_port Destination TCP port src_tcp_port Source TCP port seq_no
		Sequence number

Returns

WM_SUCCESS if operation is successful. -WM FAIL if command fails.

5.10.3.75 wlan_get_beacon_period()

Use this API to get the beacon period of associated BSS.

Returns

beacon_period if operation is successful. 0 if command fails.



5.10.3.76 wlan_get_dtim_period()

Use this API to get the dtim period of associated BSS.

Returns

dtim_period if operation is successful.

0 if DTIM IE Is not found in AP's Probe response.

Note

This API should not be called from WLAN event handler registered by application during wlan start.

5.10.3.77 wlan_get_data_rate()

Use this API to get the current tx and rx rates along with bandwidth and guard interval information if rate is 11N.

Parameters

in	ds_rate	A pointer to structure which will have tx, rx rate information along with bandwidth and guard interval information.
in	bss_type	0: STA, 1: uAP

Note

If rate is greater than 11 then it is 11N rate and from 12 MCS0 rate starts. The bandwidth mapping is like value 0 is for 20MHz, 1 is 40MHz, 2 is for 80MHz. The guard interval value zero means Long otherwise Short.

Returns

```
WM_SUCCESS if operation is successful. -WM_FAIL if command fails.
```

5.10.3.78 wlan_get_pmfcfg()

Use this API to get the set management frame protection parameters for sta.



Parameters

out	mfpc	Management Frame Protection Capable (MFPC) 1: Management Frame Protection Capable 0: Management Frame Protection not Capable
out	mfpr	Management Frame Protection Required (MFPR) 1: Management Frame Protection Required 0: Management Frame Protection Optional

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.79 wlan_uap_get_pmfcfg()

```
int wlan_uap_get_pmfcfg (
            uint8_t * mfpc,
            uint8_t * mfpr )
```

Use this API to get the set management frame protection parameters for Uap.

Parameters

out	mfpc	Management Frame Protection Capable (MFPC) 1: Management Frame Protection Capable 0: Management Frame Protection not Capable
out	mfpr	Management Frame Protection Required (MFPR) 1: Management Frame Protection Required
		0: Management Frame Protection Optional

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.80 wlan_set_packet_filters()

Use this API to set packet filters in Wi-Fi firmware.





Parameters

Parameters

```
in
      flt cfg
               A pointer to structure which holds the the packet filters in same way as given below.
               MEF Configuration command
               mefcfg={
               Criteria: bit0-broadcast, bit1-unicast, bit3-multicast
               Criteria=2 Unicast frames are received during hostsleepmode
               NumEntries=1 Number of activated MEF entries
               mef entry 0: example filters to match TCP destination port 80 send by 192.168.0.88 pkt or
               magic pkt.
               mef_entry_0={
               mode: bit0-hostsleep mode, bit1-non hostsleep mode
               mode=1 HostSleep mode
               action: 0-discard and not wake host, 1-discard and wake host 3-allow and wake host
               action=3 Allow and Wake host
               filter_num=3 Number of filter
               RPN only support "&&" and "||" operator, space can not be removed between operator.
               RPN=Filter 0 && Filter 1 || Filter 2
               Byte comparison filter's type is 0x41, Decimal comparison filter's type is 0x42,
               Bit comparison filter's type is 0x43
               Filter 0 is decimal comparison filter, it always with type=0x42
               Decimal filter always has type, pattern, offset, numbyte 4 field
               Filter_0 will match rx pkt with TCP destination port 80
               Filter_0={
               type=0x42 decimal comparison filter
               pattern=80 80 is the decimal constant to be compared
               offset=44 44 is the byte offset of the field in RX pkt to be compare
               numbyte=2 2 is the number of bytes of the field
               Filter_1 is Byte comparison filter, it always with type=0x41
               Byte filter always has type, byte, repeat, offset 4 filed
               Filter_1 will match rx pkt send by IP address 192.168.0.88
               Filter 1={
               type=0x41 Byte comparison filter
               repeat=1 1 copies of 'c0:a8:00:58'
               byte=c0:a8:00:58 'c0:a8:00:58' is the byte sequence constant with each byte
               in hex format, with ':' as delimiter between two byte.
               offset=34 34 is the byte offset of the equal length field of rx'd pkt.
               Filter 2 is Magic packet, it will looking for 16 contiguous copies of '00:50:43:20:01:02' from
               the rx pkt's offset 14
               Filter 2={
               type=0x41 Byte comparison filter
               repeat=16 16 copies of '00:50:43:20:01:02'
               byte=00:50:43:20:01:02 # '00:50:43:20:01:02' is the byte sequence constant
               offset=14 14 is the byte offset of the equal length field of rx'd pkt.
               }
               }
               Above filters can be set by filling values in following way in wlan flt cfg t structure.
               wlan flt cfg t flt cfg;
               uint8_t byte_seq1[] = \{0xc0, 0xa8, 0x00, 0x58\};
               uint8_t byte_seq2[] = \{0x00, 0x50, 0x43, 0x20, 0x01, 0x02\};
               memset(&flt_cfg, 0, sizeof(wlan_flt_cfg_t));
               flt_cfg.criteria = 2;
               flt_cfg.nentries = 1;
```



```
flt_cfg.mef_entry.mode = 1;
flt_cfg.mef_entry.action = 3;
```

flt cfg.mef entry.filter num = 3;

Parameters

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.81 wlan_set_auto_arp()

Use this API to enable ARP Offload in Wi-Fi firmware

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.82 wlan_wowlan_cfg_ptn_match()

Use this API to enable WOWLAN on magic pkt rx in Wi-Fi firmware

Parameters

in ptn_cfg A pointer to wlan_wowlan_ptn_cfg_t containing Wake on WLAN pattern configuration

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails

5.10.3.83 wlan_set_ipv6_ns_offload()

```
int wlan_set_ipv6_ns_offload ( )
```

Use this API to enable NS Offload in Wi-Fi firmware.



Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.84 wlan_get_current_bssid()

```
int wlan_get_current_bssid ( \label{eq:current_bssid} \mbox{uint8\_t} \ * \ bssid \ )
```

Use this API to get the BSSID of associated BSS.

Parameters

	in	bssid	A pointer to array to store the BSSID.	
--	----	-------	--	--

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.85 wlan_get_current_channel()

Use this API to get the channel number of associated BSS.

Returns

channel number if operation is successful. 0 if command fails.

5.10.3.86 wlan_get_ps_mode()

Get station interface power save mode.

out	ps_mode	A pointer to wlan_ps_mode where station interface power save mode will be stored.
-----	---------	---



Returns

```
WM_SUCCESS if successful.
-WM_E_INVAL if ps_mode was NULL.
```

5.10.3.87 wlan_wlcmgr_send_msg()

Send message to WLAN Connection Manager thread.

Parameters

in	event	An event from wifi_event.
in	reason	A reason code.
in	data	A pointer to data buffer associated with event.

Returns

```
WM_SUCCESS if successful. -WM_FAIL if failed.
```

5.10.3.88 wlan_wfa_basic_cli_init()

Register WFA basic WLAN CLI commands

This function registers basic WLAN CLI commands like showing version information, MAC address

Note

This function can only be called by the application after wlan_init() called.

Returns

WLAN_ERROR_NONE if the CLI commands were registered or WLAN_ERROR_ACTION if they were not registered (for example if this function was called while the CLI commands were already registered).



5.10.3.89 wlan_wfa_basic_cli_deinit()

Unregister WFA basic WLAN CLI commands

This function unregisters basic WLAN CLI commands like showing version information, MAC address

Note

This function can only be called by the application after wlan_init() called.

Returns

WLAN_ERROR_NONE if the CLI commands were unregistered or WLAN_ERROR_ACTION if they were not unregistered

5.10.3.90 wlan_basic_cli_init()

Register basic WLAN CLI commands

This function registers basic WLAN CLI commands like showing version information, MAC address

Note

This function can only be called by the application after wlan_init() called.

This function gets called by wlan_cli_init(), hence only one function out of these two functions should be called in the application.

Returns

WLAN_ERROR_NONE if the CLI commands were registered or WLAN_ERROR_ACTION if they were not registered (for example if this function was called while the CLI commands were already registered).



5.10.3.91 wlan_basic_cli_deinit()

Unregister basic WLAN CLI commands

This function unregisters basic WLAN CLI commands like showing version information, MAC address

Note

This function can only be called by the application after wlan_init() called.

This function gets called by wlan_cli_init(), hence only one function out of these two functions should be called in the application.

Returns

WLAN_ERROR_NONE if the CLI commands were unregistered or

WLAN_ERROR_ACTION if they were not unregistered (for example if this function was called while the CLI commands were already registered).

5.10.3.92 wlan_cli_init()

```
int wlan_cli_init (
     void )
```

Register WLAN CLI commands.

Try to register the WLAN CLI commands with the CLI subsystem. This function is available for the application for use.

Note

This function can only be called by the application after wlan_init() called.

This function internally calls wlan_basic_cli_init(), hence only one function out of these two functions should be called in the application.

Returns

WM_SUCCESS if the CLI commands were registered or

-WM_FAIL if they were not (for example if this function was called while the CLI commands were already registered).



5.10.3.93 wlan_cli_deinit()

Unregister WLAN CLI commands.

Try to unregister the WLAN CLI commands with the CLI subsystem. This function is available for the application for use.

Note

This function can only be called by the application after wlan_init() called.

This function internally calls wlan_basic_cli_deinit(), hence only one function out of these two functions should be called in the application.

Returns

WM_SUCCESS if the CLI commands were unregistered or

-WM_FAIL if they were not (for example if this function was called while the CLI commands were already unregistered).

5.10.3.94 wlan_enhanced_cli_init()

Register WLAN enhanced CLI commands.

Register the WLAN enhanced CLI commands like set or get tx-power, tx-datarate, tx-modulation etc with the CLI subsystem.

Note

This function can only be called by the application after wlan_init() called.

Returns

WM_SUCCESS if the CLI commands were registered or

-WM_FAIL if they were not (for example if this function was called while the CLI commands were already registered).



5.10.3.95 wlan_enhanced_cli_deinit()

Unregister WLAN enhanced CLI commands.

Unregister the WLAN enhanced CLI commands like set or get tx-power, tx-datarate, tx-modulation etc with the CLI subsystem.

Note

This function can only be called by the application after wlan_init() called.

Returns

WM_SUCCESS if the CLI commands were unregistered or -WM_FAIL if they were not unregistered.

5.10.3.96 wlan_test_mode_cli_init()

Register WLAN Test Mode CLI commands.

Register the WLAN Test Mode CLI commands like set or get channel, band, bandwidth, PER and more with the CLI subsystem.

Note

This function can only be called by the application after wlan_init() called.

Returns

WM_SUCCESS if the CLI commands were registered or

-WM_FAIL if they were not (for example if this function was called while the CLI commands were already registered).



5.10.3.97 wlan_test_mode_cli_deinit()

Unregister WLAN Test Mode CLI commands.

Unregister the WLAN Test Mode CLI commands like set or get channel, band, bandwidth, PER and more with the CLI subsystem.

Note

This function can only be called by the application after wlan_init() called.

Returns

WM_SUCCESS if the CLI commands were unregistered or -WM_FAIL if they were not unregistered

5.10.3.98 wlan_get_uap_supported_max_clients()

Get maximum number of WLAN firmware supported stations that will be allowed to connect to the uAP.

Returns

Maximum number of WLAN firmware supported stations.

Note

Get operation is allowed in any uAP state.

5.10.3.99 wlan_get_uap_max_clients()

```
int wlan_get_uap_max_clients (
          unsigned int * max_sta_num )
```

Get current maximum number of stations that will be allowed to connect to the uAP.

out	max_sta_num	A pointer to variable where current maximum number of stations of uAP interface will
		be stored.



Returns

```
WM_SUCCESS if successful. -WM_FAIL if unsuccessful.
```

Note

Get operation is allowed in any uAP state.

```
5.10.3.100 wlan_set_uap_max_clients()
```

```
int wlan_set_uap_max_clients (
          unsigned int max_sta_num )
```

Set maximum number of stations that will be allowed to connect to the uAP.

Parameters

in max_sta_num Number of maximum station	ons for uAP.
--	--------------

Returns

```
WM_SUCCESS if successful. -WM_FAIL if unsuccessful.
```

Note

Set operation in not allowed in WLAN_UAP_STARTED state.

5.10.3.101 wlan_set_htcapinfo()

This API can be used to configure some of parameters in HTCapInfo IE (such as Short GI, Channel BW, and Green field support)



Parameters

htcapinfo	This is a bitmap and should be used as following
	Bit 29: Green field enable/disable
	Bit 26: Rx STBC Support enable/disable. (As we support
	single spatial stream only 1 bit is used for Rx STBC)
	Bit 25: Tx STBC support enable/disable.
	Bit 24: Short GI in 40 Mhz enable/disable
	Bit 23: Short GI in 20 Mhz enable/disable
	Bit 22: Rx LDPC enable/disable
	Bit 17: 20/40 Mhz enable disable.
	Bit 8: Enable/disable 40Mhz Intolarent bit in ht capinfo.
	0 will reset this bit and 1 will set this bit in
	htcapinfo attached in assoc request.
	All others are reserved and should be set to 0.
	htcapinfo

Returns

WM_SUCCESS if successful. -WM_FAIL if unsuccessful.

5.10.3.102 wlan_set_httxcfg()

This API can be used to configure various 11n specific configuration for transmit (such as Short GI, Channel BW and Green field support)

in	httxcfg	This is a bitmap and should be used as following
		Bit 15-10: Reserved set to 0
		Bit 9-8: Rx STBC set to 0x01
		BIT9 BIT8 Description
		0 0 No spatial streams
		0 1 One spatial streams supported
		1 0 Reserved
		1 1 Reserved
		Bit 7: STBC enable/disable
		Bit 6: Short GI in 40 Mhz enable/disable
		Bit 5: Short GI in 20 Mhz enable/disable
		Bit 4: Green field enable/disable
		Bit 3-2: Reserved set to 1
		Bit 1: 20/40 Mhz enable disable.
		Bit 0: LDPC enable/disable
		When Bit 1 is set then firmware could transmit in 20Mhz or 40Mhz based
		on rate adaptation. When this bit is reset then firmware will only
		transmit in 20Mhz.



Returns

WM_SUCCESS if successful. -WM_FAIL if unsuccessful.

5.10.3.103 wlan_set_txratecfg()

This API can be used to set the transmit data rate.

Note

The data rate can be set only after association.



2	do roto	struct contains following fields sub-assembled to bould be WIFL DS DATE CFC and
in	ds_rate	struct contains following fields sub_command It should be WIFI_DS_RATE_CFG and
		rate_cfg should have following parameters.
		rate_format - This parameter specifies the data rate format used in this command
		0: LG
		1: HT
		2: VHT
		0xff: Auto
		index - This parameter specifies the rate or MCS index
		If rate_format is 0 (LG),
		0 1 Mbps
		1 2 Mbps
		2 5.5 Mbps
		3 11 Mbps
		4 6 Mbps
		5 9 Mbps
		6 12 Mbps
		7 18 Mbps
		8 24 Mbps
		9 36 Mbps
		10 48 Mbps
		11 54 Mbps
		If rate_format is 1 (HT),
		0 MCS0
		1 MCS1
		2 MCS2
		3 MCS3
		4 MCS4
		5 MCS5
		6 MCS6
		7 MCS7
		If STREAM_2X2
		8 MCS8
		9 MCS9
		10 MCS10
		11 MCS11
		12 MCS12
		13 MCS13
		14 MCS14
		15 MCS15
		If rate_format is 2 (VHT),
		0 MCS0
		1 MCS1
		2 MCS2
		3 MCS3
		4 MCS4
		5 MCS5
		6 MCS6
		7 MCS7
		8 MCS8
		9 MCS9
		nss - This parameter specifies the NSS.
		It is valid only for VHT
		If rate_format is 2 (VHT),
		1 NSS1
		2 NSS2



Parameters

|--|

Returns

WM_SUCCESS if successful. -WM_FAIL if unsuccessful.

5.10.3.104 wlan_get_txratecfg()

This API can be used to get the transmit data rate.

Parameters

in	ds_rate	A pointer to wlan_ds_rate where Tx Rate configuration will be stored.
in	bss_type	0: STA, 1: uAP

Returns

WM_SUCCESS if successful. -WM_FAIL if unsuccessful.

5.10.3.105 wlan_get_sta_tx_power()

Get Station interface transmit power

Parameters

out	power_level	Transmit power level.
-----	-------------	-----------------------

Returns

WM_SUCCESS if successful. -WM_FAIL if unsuccessful.



```
5.10.3.106 wlan_set_sta_tx_power()
```

Set Station interface transmit power

Parameters

in	power_level	Transmit power level.
----	-------------	-----------------------

Returns

```
WM_SUCCESS if successful. -WM_FAIL if unsuccessful.
```

5.10.3.107 wlan_set_wwsm_txpwrlimit()

Set World Wide Safe Mode Tx Power Limits

Returns

```
WM_SUCCESS if successful. -WM_FAIL if unsuccessful.
```

5.10.3.108 wlan_get_wlan_region_code()

Get wlan region code from tx power config

Returns

wlan region code in string format.

5.10.3.109 wlan_get_mgmt_ie()

Get Management IE for given BSS type (interface) and index.



Parameters

in	bss_type	0: STA, 1: uAP
in	index	IE index.
out	buf	Buffer to store requested IE data.
out	buf_len	To store length of IE data.

Returns

WM_SUCCESS if successful. -WM_FAIL if unsuccessful.

5.10.3.110 wlan_set_mgmt_ie()

Set Management IE for given BSS type (interface) and index.

Parameters

in	bss_type	0: STA, 1: uAP
in	id	Type/ID of Management IE.
in	buf	Buffer containing IE data.
in	buf_len	Length of IE data.

Returns

IE index if successful.

-WM_FAIL if unsuccessful.

5.10.3.111 wlan_get_ext_coex_stats()

Get External Radio Coex statistics.

out	ext coex stats	A pointer to structure to get coex statistics.



Returns

```
WM_SUCCESS if successful. -WM_FAIL if unsuccessful.
```

```
5.10.3.112 wlan_set_ext_coex_config()
```

Set External Radio Coex configuration.

Parameters

in <i>e</i> .	xt_coex_config	to apply coex configuration.	1
---------------	----------------	------------------------------	---

Returns

```
IE index if successful.
-WM_FAIL if unsuccessful.
```

5.10.3.113 wlan_clear_mgmt_ie()

Clear Management IE for given BSS type (interface) and index.

Parameters

	in	bss_type	0: STA, 1: uAP
ĺ	in	index	IE index.
	in	mgmt_bitmap_index	mgmt bitmap index.

Returns

WM_SUCCESS if successful. -WM_FAIL if unsuccessful.



5.10.3.114 wlan_get_11d_enable_status()

Get current status of 11d support.

Returns

true if 11d support is enabled by application. false if not enabled.

5.10.3.115 wlan_get_current_signal_strength()

Get current RSSI and Signal to Noise ratio from WLAN firmware.

Parameters

in	rssi	A pointer to variable to store current RSSI
in	snr	A pointer to variable to store current SNR.

Returns

WM_SUCCESS if successful.

5.10.3.116 wlan_get_average_signal_strength()

```
int wlan_get_average_signal_strength ( short * rssi, \\ int * snr )
```

Get average RSSI and Signal to Noise ratio from WLAN firmware.

in	rssi	A pointer to variable to store current RSSI
in	snr	A pointer to variable to store current SNR.



Returns

WM_SUCCESS if successful.

5.10.3.117 wlan_remain_on_channel()

This API is is used to set/cancel the remain on channel configuration.

Note

When status is false, channel and duration parameters are ignored.

Parameters

in	bss_type	The interface to set channel bss_type 0: STA, 1: uAP
in	status	false: Cancel the remain on channel configuration true: Set the remain on channel configuration
in	channel	The channel to configure
in	duration	The duration for which to remain on channel in milliseconds.

Returns

WM_SUCCESS on success or error code.

5.10.3.118 wlan_get_otp_user_data()

Get User Data from OTP Memory

in	buf	Pointer to buffer where data will be stored
in	len	Number of bytes to read



Returns

WM_SUCCESS if user data read operation is successful.

- -WM_E_INVAL if buf is not valid or of insufficient size.
- -WM_FAIL if user data field is not present or command fails.

5.10.3.119 wlan_get_cal_data()

Get calibration data from WLAN firmware

Parameters

out	cal_data	Pointer to calibration data structure where calibration data and it's length will be stored.
-----	----------	--

Returns

WM_SUCCESS if cal data read operation is successful.

- -WM_E_INVAL if cal_data is not valid.
- -WM_FAIL if command fails.

Note

The user of this API should free the allocated buffer for calibration data.

5.10.3.120 wlan_set_region_power_cfg()

Set the compressed Tx PWR Limit configuration.

Parameters

in	data	A pointer to TX PWR Limit configuration.
in	len	Length of TX PWR Limit configuration.

Returns

WM_SUCCESS on success, error otherwise.



5.10.3.121 wlan_set_chanlist_and_txpwrlimit()

Set the Channel List and TRPC channel configuration.

Parameters

in	chanlist	A poiner to wlan_chanlist_t Channel List configuration.
in	txpwrlimit	A pointer to wlan_txpwrlimit_t TX PWR Limit configuration.

Returns

WM_SUCCESS on success, error otherwise.

5.10.3.122 wlan_set_chanlist()

Set the Channel List configuration.

Parameters

in	chanlist	A pointer to wlan_chanlist_t Channel List configuration.
----	----------	--

Returns

WM_SUCCESS on success, error otherwise.

Note

If Region Enforcement Flag is enabled in the OTP then this API will not take effect.

5.10.3.123 wlan_get_chanlist()

Get the Channel List configuration.



Parameters

out chanlist A pointer to wlan_chanlist_t C	hannel List configuration.
---	----------------------------

Returns

WM_SUCCESS on success, error otherwise.

Note

The wlan_chanlist_t struct allocates memory for a maximum of 54 channels.

5.10.3.124 wlan_set_txpwrlimit()

Set the TRPC channel configuration.

Parameters

	in	txpwrlimit	A pointer to wlan_	txpwrlimit_	t TX PWR Limit configuration.
--	----	------------	--------------------	-------------	-------------------------------

Returns

WM_SUCCESS on success, error otherwise.

5.10.3.125 wlan_get_txpwrlimit()

Get the TRPC channel configuration.



Parameters

in	subband	Where subband is: 0x00 2G subband (2.4G: channel 1-14) 0x10 5G subband0 (5G: channel 36,40,44,48, 52,56,60,64) 0x11 5G subband1 (5G: channel 100,104,108,112, 116,120,124,128, 132,136,140,144) 0x12 5G subband2 (5G: channel 149,153,157,161,165,172) 0x13 5G subband3 (5G: channel 183,184,185,187,188, 189, 192,196; 5G: channel 7,8,11,12,16,34)
out	txpwrlimit	A pointer to wlan_txpwrlimit_t TX PWR Limit configuration structure where Wi-Fi firmware configuration will get copied.

Returns

WM_SUCCESS on success, error otherwise.

Note

application can use print_txpwrlimit API to print the content of the txpwrlimit structure.

5.10.3.126 wlan_auto_reconnect_enable()

Enable Auto Reconnect feature in WLAN firmware.

in	auto_reconnect_config	Auto Reconnect configuration structure holding following parameters:
		 reconnect counter(0x1-0xff) - The number of times the WLAN firmware retries connection attempt with AP. The value 0xff means retry forever. (default 0xff).
		 reconnect interval(0x0-0xff) - Time gap in seconds between each connection attempt (default 10).
		 flags - Bit 0: Set to 1: Firmware should report link-loss to host if AP rejects authentication/association while reconnecting. Set to 0: Default behaviour: Firmware does not report link-loss to host on AP rejection and continues internally. Bit 1-15: Reserved.



Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.127 wlan_auto_reconnect_disable()

Disable Auto Reconnect feature in WLAN firmware.

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.128 wlan_get_auto_reconnect_config()

Get Auto Reconnect configuration from WLAN firmware.

Parameters

out	auto_reconnect_config	Auto Reconnect configuration structure where response from WLAN firmware
		will get stored.

Returns

WM_SUCCESS if operation is successful.

- -WM_E_INVAL if auto_reconnect_config is not valid.
- -WM_FAIL if command fails.

5.10.3.129 wlan_set_reassoc_control()

Set Reassociation Control in WLAN Connection Manager

Note

Reassociation is enabled by default in the WLAN Connection Manager.



Parameters

in	reassoc_control	Reassociation enable/disable
----	-----------------	------------------------------

5.10.3.130 wlan_uap_set_beacon_period()

API to set the beacon period of uAP

Parameters

in	beacon_period	Beacon period in TU (1 TU = 1024 micro seconds)
----	---------------	---

Note

Please call this API before calling uAP start API.

5.10.3.131 wlan_uap_set_bandwidth()

API to set the bandwidth of uAP

Parameters

in	bandwidth	Wi-Fi AP Bandwidth (20MHz/40MHz) 1: 20 MHz 2: 40 MHz 3: 80 MHz
----	-----------	--

Returns

WM_SUCCESS if successful otherwise failure. -WM_FAIL if command fails.

Note

Please call this API before calling uAP start API. Default bandwidth setting is 40 MHz.



5.10.3.132 wlan_uap_get_bandwidth()

```
\label{eq:continuous_def} \mbox{int wlan\_uap\_get\_bandwidth (} \\ \mbox{uint8\_t } * \mbox{\it bandwidth )}
```

API to Get the bandwidth of uAP



Parameters

out	bandwidth	Wi-Fi AP Bandwidth (20MHz/40MHz) 1: 20 MHz 2: 40 MHz 3: 80 MHz	1
-----	-----------	--	---

Returns

WM_SUCCESS if successful otherwise failure. -WM_FAIL if command fails.

Note

Please call this API before calling uAP start API.

5.10.3.133 wlan_uap_set_hidden_ssid()

API to control SSID broadcast capability of uAP

This API enables/disables the SSID broadcast feature (also known as the hidden SSID feature). When broadcast SSID is enabled, the AP responds to probe requests from client stations that contain null SSID. When broadcast SSID is disabled, the AP does not respond to probe requests that contain null SSID and generates beacons that contain null SSID.

Parameters

in	hidden_ssid	Hidden SSID control hidden_ssid=0: broadcast SSID in beacons. hidden_ssid=1: send
		empty SSID (length=0) in beacon. hidden_ssid=2: clear SSID (ACSII 0), but keep the
		original length

Returns

WM_SUCCESS if successful otherwise failure. -WM_FAIL if command fails.

Note

Please call this API before calling uAP start API.

5.10.3.134 wlan_uap_ctrl_deauth()

API to control the deauth during uAP channel switch



Parameters

in	enable	0 – Wi-Fi firmware will use default behaviour. 1 – Wi-Fi firmware will not send deauth packet
		when uap move to another channel.

Note

Please call this API before calling uAP start API.

5.10.3.135 wlan_uap_set_ecsa()

API to enable channel switch announcement functionality on uAP.

Note

Please call this API before calling uAP start API. Also note that 11N should be enabled on uAP. The channel switch announcement IE is transmitted in 7 beacons before the channel switch, during a station connection attempt on a different channel with Ex-AP.

5.10.3.136 wlan_uap_set_htcapinfo()

API to set the HT Capability Information of uAP

-			
	in	ht_cap_info	- This is a bitmap and should be used as following
			Bit 15: L Sig TxOP protection - reserved, set to 0
			Bit 14: 40 MHz intolerant - reserved, set to 0
			Bit 13: PSMP - reserved, set to 0
			Bit 12: DSSS Cck40MHz mode
			Bit 11: Maximal AMSDU size - reserved, set to 0
			Bit 10: Delayed BA - reserved, set to 0
			Bits 9:8: Rx STBC - reserved, set to 0
			Bit 7: Tx STBC - reserved, set to 0
			Bit 6: Short GI 40 MHz
			Bit 5: Short GI 20 MHz
			Bit 4: GF preamble
			Bits 3:2: MIMO power save - reserved, set to 0
			Bit 1: SuppChanWidth - set to 0 for 2.4 GHz band
			Bit 0: LDPC coding - reserved, set to 0



Note

Please call this API before calling uAP start API.

This API can be used to configure various 11n specific configuration for transmit (such as Short GI, Channel BW and Green field support) for uAP interface.

Parameters

in	httxcfg	This is a bitmap and should be used as following
		Bit 15-8: Reserved set to 0
		Bit 7: STBC enable/disable
		Bit 6: Short GI in 40 Mhz enable/disable
		Bit 5: Short GI in 20 Mhz enable/disable
		Bit 4: Green field enable/disable
		Bit 3-2: Reserved set to 1
		Bit 1: 20/40 Mhz enable disable.
		Bit 0: LDPC enable/disable
		When Bit 1 is set then firmware could transmit in 20Mhz or 40Mhz based
		on rate adaptation. When this bit is reset then firmware will only
		transmit in 20Mhz.

Note

Please call this API before calling uAP start API.

```
5.10.3.138 wlan_sta_ampdu_tx_enable()
```

This API can be used to enable AMPDU support on the go when station is a transmitter.

Note

By default the station AMPDU TX support is on if configuration option is enabled in defconfig.



5.10.3.139 wlan_sta_ampdu_tx_disable()

This API can be used to disable AMPDU support on the go when station is a transmitter.

Note

By default the station AMPDU RX support is on if configuration option is enabled in defconfig.

5.10.3.140 wlan_sta_ampdu_rx_enable()

This API can be used to enable AMPDU support on the go when station is a receiver.

5.10.3.141 wlan_sta_ampdu_rx_disable()

This API can be used to disable AMPDU support on the go when station is a receiver.

5.10.3.142 wlan_uap_ampdu_tx_enable()

This API can be used to enable AMPDU support on the go when uap is a transmitter.

Note

By default the uap AMPDU TX support is on if configuration option is enabled in defconfig.

5.10.3.143 wlan_uap_ampdu_tx_disable()

This API can be used to disable AMPDU support on the go when uap is a transmitter.

Note

By default the uap AMPDU RX support is on if configuration option is enabled in defconfig.



5.10.3.144 wlan_uap_ampdu_rx_enable()

This API can be used to enable AMPDU support on the go when uap is a receiver.

5.10.3.145 wlan_uap_ampdu_rx_disable()

This API can be used to disable AMPDU support on the go when uap is a receiver.

5.10.3.146 wlan_uap_set_scan_chan_list()

Set number of channels and channel number used during automatic channel selection of uAP.

Parameters

in	scan_chan_list	A structure holding the number of channels and channel numbers.
----	----------------	---

Note

Please call this API before uAP start API in order to set the user defined channels, otherwise it will have no effect. There is no need to call this API every time before uAP start, if once set same channel configuration will get used in all upcoming uAP start call. If user wish to change the channels at run time then it make sense to call this API before every uAP start API.

5.10.3.147 wlan_set_rts()

```
int wlan_set_rts (
    int rts )
```

Set the rts threshold of sta in WLAN firmware.

Parameters

in	rts	the value of rts threshold configuration.

Returns

WM_SUCCESS if successful otherwise failure.



5.10.3.148 wlan_set_uap_rts()

Set the rts threshold of uap in WLAN firmware.

Parameters

in	rts	the value of rts threshold configuration.
----	-----	---

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.149 wlan_set_frag()

```
int wlan_set_frag (
          int frag )
```

Set the fragment threshold of sta in WLAN firmware.

Parameters

in	frag	the value of fragment threshold configuration.
	_	

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.150 wlan_set_uap_frag()

Set the fragment threshold of uap in WLAN firmware.

in	frag	the value of fragment threshold configuration.
----	------	--



Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.151 wlan_set_sta_mac_filter()

```
int wlan_set_sta_mac_filter (
    int filter_mode,
    int mac_count,
    unsigned char * mac_addr )
```

Set the sta mac filter in Wi-Fi firmware.

Parameters

in	filter_mode	channel filter mode (disable/white/black list)
in	mac_count	the count of mac list
in	mac_addr	the pointer to mac address list

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.152 print_mac()

5.10.3.153 wlan_set_rf_test_mode()

Set the RF Test Mode on in Wi-Fi firmware.

Returns



5.10.3.154 wlan_unset_rf_test_mode()

UnSet the RF Test Mode on in Wi-Fi firmware.

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.155 wlan_set_rf_channel()

Set the RF Channel in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

	in	channel	The channel number to be set in Wi-Fi firmware.
--	----	---------	---

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.156 wlan_set_rf_radio_mode()

Set the RF radio mode in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

	_	l
in	mode	The radio mode number to be set in Wi-Fi firmware.
T11	mode	ine radio mode number to be set in with initiware.



Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.157 wlan_get_rf_channel()

Get the RF Channel from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

out	channel	A Pointer to a variable where channel number to get.
-----	---------	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.158 wlan_get_rf_radio_mode()

Get the RF Radio mode from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

	out	mode	A Pointer to a variable where radio mode number to get.	
--	-----	------	---	--

Returns



5.10.3.159 wlan_set_rf_band()

Set the RF Band in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

in	band	The bandwidth to be set in Wi-Fi firmware.
----	------	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.160 wlan_get_rf_band()

Get the RF Band from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

out	band	A Pointer to a variable where RF Band is to be stored.
-----	------	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.161 wlan_set_rf_bandwidth()

Set the RF Bandwidth in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.



Parameters

in	bandwidth	The bandwidth to be set in Wi-Fi firmware.	1
----	-----------	--	---

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.162 wlan_get_rf_bandwidth()

Get the RF Bandwidth from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

out	bandwidth	A Pointer to a variable where bandwidth to get.
-----	-----------	---

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.163 wlan_get_rf_per()

Get the RF PER from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

out	rx_tot_pkt_count	A Pointer to a variable where Rx Total packet count to get.
out	rx_mcast_bcast_count	A Pointer to a variable where Rx Total Multicast/Broadcast packet count to get.
out	rx_pkt_fcs_error	A Pointer to a variable where Rx Total packet count with FCS error to get.



Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.164 wlan_set_rf_tx_cont_mode()

Set the RF Tx continuous mode in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

in	enable_tx	Enable Tx.
in	cw_mode	Set CW Mode.
in	payload_pattern	Set Payload Pattern.
in	cs_mode	Set CS Mode.
in	act_sub_ch	Act Sub Ch
in	tx_rate	Set Tx Rate.

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.165 wlan_cfg_rf_he_tb_tx()

Set the RF HE TB TX in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.



Parameters

in	enable Enable/Disable trigger response mode		
in	qnum	qnum AXQ to be used for the trigger response frame	
in	aid	AID of the peer to which response is to be generated	
in	axq_mu_timer	MU timer for the AXQ on which response is sent	
in	tx_power	TxPwr to be configured for the response	

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.166 wlan_rf_trigger_frame_cfg()

```
int wlan_rf_trigger_frame_cfg (
             uint32_t Enable_tx,
             uint32_t Standalone_hetb,
             uint8_t FRAME_CTRL_TYPE,
             uint8_t FRAME_CTRL_SUBTYPE,
             uint16_t FRAME_DURATION,
             uint64_t TriggerType,
             uint64_t Ullen,
             uint64_t MoreTF,
             uint64_t CSRequired,
             uint64_t UlBw,
             uint64_t LTFType,
             uint64_t LTFMode,
             uint64_t LTFSymbol,
             uint64_t UlSTBC,
             uint64_t LdpcESS,
             uint64_t ApTxPwr,
             uint64_t PreFecPadFct,
             uint64_t PeDisambig,
             uint64_t SpatialReuse,
             uint64_t Doppler,
             uint64_t HeSig2,
             uint32_t AID12,
             uint32_t RUAllocReg,
             uint32_t RUAlloc,
             uint32_t UlCodingType,
             uint32_t UlMCS,
             uint32_t UlDCM,
             uint32_t SSAlloc,
             uint8_t UlTargetRSSI,
             uint8_t MPDU_MU_SF,
             uint8_t TID_AL,
             uint8_t AC_PL,
             uint8_t Pref_AC )
```

Set the RF Trigger Frame Config in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.



Parameters

in	Enable_tx	Enable or Disable trigger frame transmission.
in	Standalone_hetb	Enable or Disable Standalone HE TB support.
in	FRAME_CTRL_TYPE	Frame control type.
in	FRAME CTRL SUBTYPE	Frame control subtype.
in	FRAME DURATION	Max Duration time.
in	TriggerType	Identifies the Trigger frame variant and its encoding.
in	UlLen	Indicates the value of the L-SIG LENGTH field of the solicited HE TB
		PPDU.
in	MoreTF	Indicates whether a subsequent Trigger frame is scheduled for
		transmission.
in	CSRequired	Required to use ED to sense the medium and to consider the medium state and the NAV in determining whether to respond.
i n	UIBw	Indicates the bandwidth in the HE-SIG-A field of the HE TB PPDU.
in	LTFType	Indicates the bandwidth in the HE-Sig-A field of the HE TB PPDU. Indicates the LTF type of the HE TB PPDU response.
	LTFMode	Indicates the LTF mode for an HE TB PPDU.
in	LTFSymbol	Indicates the LTF mode for all HE TB FFDO. Indicates the number of LTF symbols present in the HE TB PPDU.
in	UISTBC	Indicates the status of STBC encoding for the solicited HE TB PPDUs.
in	LdpcESS	Indicates the status of the LDPC extra symbol segment.
in	ApTxPwr	Indicates the Status of the LDFC extra symbol segment. Indicates the AP's combined transmit power at the transmit antenna
111	APIXEWI	connector of all the antennas used to transmit the triggering PPDU.
in	PreFecPadFct	Indicates the pre-FEC padding factor.
in	PeDisambig	Indicates PE disambiguity.
in	SpatialReuse	Carries the values to be included in the Spatial Reuse fields in the
	opanan idado	HE-SIG-A field of the solicited HE TB PPDUs.
in	Doppler	Indicate that a midamble is present in the HE TB PPDU.
in	HeSig2	Carries the value to be included in the Reserved field in the HE-SIG-A2
		subfield of the solicited HE TB PPDUs.
in	AID12	If set to 0 allocates one or more contiguous RA-RUs for associated STAs.
in	RUAllocReg	RUAllocReg.
in	RUAlloc	Identifies the size and the location of the RU.
in	UlCodingType	Indicates the code type of the solicited HE TB PPDU.
in	UIMCS	Indicates the HE-MCS of the solicited HE TB PPDU.
in	UIDCM	Indicates DCM of the solicited HE TB PPDU.
in	SSAlloc	Indicates the spatial streams of the solicited HE TB PPDU.
in	UITargetRSSI	Indicates the expected receive signal power.
in	MPDU_MU_SF	Used for calculating the value by which the minimum MPDU start spacing is multiplied.
in	TID_AL	Indicates the MPDUs allowed in an A-MPDU carried in the HE TB PPDU and the maximum number of TIDs that can be aggregated by the STA in
		the A-MPDU.
in	AC_PL	Reserved.
in	Pref_AC	Indicates the lowest AC that is recommended for aggregation of MPDUs in
		the A-MPDU contained in the HE TB PPDU sent as a response to the
		Trigger frame.

Returns



5.10.3.167 wlan_set_rf_tx_antenna()

Set the RF Tx Antenna in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

	in	antenna	The Tx antenna to be set in Wi-Fi firmware.	
--	----	---------	---	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.168 wlan_get_rf_tx_antenna()

Get the RF Tx Antenna from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

out	antenna	A Pointer to a variable where Tx antenna is to be stored.
-----	---------	---

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.169 wlan_set_rf_rx_antenna()

Set the RF Rx Antenna in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.



Parameters

in antenna The Rx antenna to be set in Wi-Fi fire

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.170 wlan_get_rf_rx_antenna()

Get the RF Rx Antenna from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

0	ut	antenna	A Pointer to a variable where Rx antenna is to be stored.
---	----	---------	---

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.171 wlan_set_rf_tx_power()

Set the RF Tx Power in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

in	power	The RF Tx Power to be set in Wi-Fi firmware. For RW610, 20M bandwidth max linear output power is 20db per data sheet.	
in	mod	The modulation to be set in Wi-Fi firmware.	
in	раін⇔	The Path ID to be set in Wi-Fi firmware.	
	id	Proprietary Information.	
		Copyright © 2020 NXP	

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.172 wlan_set_rf_tx_frame()

Set the RF Tx Frame in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

in	enable	Enable/Disable RF Tx Frame
in	data_rate	Rate Index corresponding to legacy/HT/VHT rates
in	frame_pattern	Payload Pattern
in	frame_length	Payload Length
in	adjust_burst_sifs	Enabl/Disable Adjust Burst SIFS3 Gap
in	burst_sifs_in_us	Burst SIFS in us
in	short_preamble	Enable/Disable Short Preamble
in	act_sub_ch	Enable/Disable Active SubChannel
in	short_gi	Short Guard Interval
in	adv_coding	Enable/Disable Adv Coding
in	tx_bf	Enable/Disable Beamforming
in	gf_mode	Enable/Disable GreenField Mode
in	stbc	Enable/Disable STBC
in	bssid	BSSID

Returns



5.10.3.173 wlan_set_rf_otp_mac_addr()

Set the RF OTP MAC address in Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

in	mac	A Pointer to a variable where OTP MAC address is to be stored.
----	-----	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.174 wlan_get_rf_otp_mac_addr()

Get the RF OTP MAC address from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

out mac A Pointer to a variable where O	TP MAC address is to be stored.
---	---------------------------------

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.175 wlan_set_rf_otp_cal_data()

Set the RF OTP cal data in Wi-Fi firmware.



Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

in	cal_data	A Pointer to a variable where OTP cal data is to be stored.
in	cal_data_len	The length of OTP cal data.

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.176 wlan_get_rf_otp_cal_data()

Get the RF OTP cal data from Wi-Fi firmware.

Note

Please call wlan_set_rf_test_mode API before using this API.

Parameters

out	cal_data	A Pointer to a variable where OTP cal data is to be stored.

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.177 wlan_register_fw_dump_cb()

This function registers callbacks which are used to generate FW Dump on USB device.



Parameters

in	wlan_usb_init_cb	Callback to initialize usb device.
in	wlan_usb_mount_cb	Callback to mount usb device.
in	wlan_usb_file_open_cb	Callback to open file on usb device for FW dump.
in	wlan_usb_file_write_cb	Callback to write FW dump data to opened file.
in	wlan_usb_file_close_cb	Callback to close FW dump file.

5.10.3.178 wlan_set_crypto_RC4_encrypt()

Set Crypto RC4 algorithm encrypt command param.

Parameters

in	Key	key
in	KeyLength	The maximum key length is 32.
in	KeyIV	KeyIV
in	KeyIVLength	The maximum keyIV length is 32.
in	Data	Data
in	DataLength	The maximum Data length is 1300.

Returns

WM_SUCCESS if successful.

- -WM_E_PERM if not supported.
- -WM_FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the encrypted data. The value of DataLength is updated to the encrypted data length. The length of the encrypted data is the same as the origin DataLength.

5.10.3.179 wlan_set_crypto_RC4_decrypt()



```
const t_u16 KeyLength,
const t_u18 * KeyIV,
const t_u16 KeyIVLength,
t_u18 * Data,
t_u16 * DataLength )
```

Set Crypto RC4 algorithm decrypt command param.

Parameters

in	Key	key
in	KeyLength	The maximum key length is 32.
in	KeyIV	KeyIV
in	KeyIVLength	The maximum keyIV length is 32.
in	Data	Data
in	DataLength	The maximum Data length is 1300.

Returns

WM_SUCCESS if successful.

- -WM_E_PERM if not supported.
- -WM_FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the decrypted data. The value of DataLength is updated to the decrypted data length. The length of the decrypted data is the same as the origin DataLength.

5.10.3.180 wlan_set_crypto_AES_ECB_encrypt()

Set Crypto AES_ECB algorithm encrypt command param.

in	Key	key
in	KeyLength	The maximum key length is 32.
in	KeyIV	KeyIV
in	KeyIVLength	The maximum keyIV length is 32.
in	Data	Data
in	DataLength	The maximum Data length is 1300.



Returns

```
WM_SUCCESS if successful.
-WM_E_PERM if not supported.
-WM_FAIL if failure.
```

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the encrypted data. The value of DataLength is updated to the encrypted data length. The length of the encrypted data is the same as the origin DataLength.

5.10.3.181 wlan_set_crypto_AES_ECB_decrypt()

Set Crypto AES_ECB algorithm decrypt command param.

Parameters

in	Kev	kev
in	KeyLength	The maximum key length is 32.
in	KeyIV	KeyIV
in	KeyIVLength	The maximum keyIV length is 32.
in	Data	Data
in	DataLength	The maximum Data length is 1300.

Returns

WM_SUCCESS if successful.

- -WM_E_PERM if not supported.
- -WM_FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the decrypted data. The value of DataLength is updated to the decrypted data length. The length of the decrypted data is the same as the origin DataLength.



5.10.3.182 wlan_set_crypto_AES_WRAP_encrypt()

Set Crypto AES_WRAP algorithm encrypt command param.

Parameters

in	Key	key
in	KeyLength	The maximum key length is 32.
in	KeyIV	KeyIV
in	KeyIVLength	The maximum keyIV length is 32.
in	Data	Data
in	DataLength	The maximum Data length is 1300.

Returns

WM_SUCCESS if successful. -WM_E_PERM if not supported.

-WM_FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the encrypted data. The value of DataLength is updated to the encrypted data length. The encrypted data is 8 bytes more than the original data. Therefore, the address pointed to by Data needs to reserve enough space.

5.10.3.183 wlan_set_crypto_AES_WRAP_decrypt()

Set Crypto AES_WRAP algorithm decrypt command param.

in	Key	key
in	KeyLength	The maximum key length is 32.
in	KeyIV	KeyIV
	1/1///	The manifestion level V I amount in OO
111	Regiveengin	The maximum keyry length is 52.
in	Data	Data
n.	varaLength	The maximum Data length is 1300.

Returns

```
WM_SUCCESS if successful.
-WM_E_PERM if not supported.
```

-WM_FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the decrypted data. The value of DataLength is updated to the decrypted data length. The decrypted data is 8 bytes less than the original data.

5.10.3.184 wlan_set_crypto_AES_CCMP_encrypt()

Set Crypto AES_CCMP algorithm encrypt command param.

Parameters

in	Key	key
in	KeyLength	The maximum key length is 32.
in	AAD	AAD
in	AADLength	The maximum AAD length is 32.
in	Nonce	Nonce
in	NonceLength	The maximum Nonce length is 14.
in	Data	Data
in	DataLength	The maximum Data length is 1300.

Returns

WM_SUCCESS if successful.
-WM_E_PERM if not supported.

-WM FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the encrypted data. The value of DataLength is updated to the encrypted data length. The encrypted data is 8 or 16 bytes more than the original data. Therefore, the address pointed to by Data needs to reserve enough space.



5.10.3.185 wlan_set_crypto_AES_CCMP_decrypt()

Set Crypto AES_CCMP algorithm decrypt command param.

Parameters

in	Key	key
in	KeyLength	The maximum key length is 32.
in	AAD	AAD
in	AADLength	The maximum AAD length is 32.
in	Nonce	Nonce
in	NonceLength	The maximum Nonce length is 14.
in	Data	Data
in	DataLength	The maximum Data length is 1300.

Returns

WM SUCCESS if successful.

- -WM_E_PERM if not supported.
- -WM_FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the decrypted data. The value of DataLength is updated to the decrypted data length. The decrypted data is 8 or 16 bytes less than the original data.

5.10.3.186 wlan_set_crypto_AES_GCMP_encrypt()

Set Crypto AES_GCMP algorithm encrypt command param.



Parameters

in	Key	key
in	KeyLength	The maximum key length is 32.
in	AAD	AAD
in	AADLength	The maximum AAD length is 32.
in	Nonce	Nonce
in	NonceLength	The maximum Nonce length is 14.
in	Data	Data
in	DataLength	The maximum Data length is 1300.

Returns

WM SUCCESS if successful.

- -WM_E_PERM if not supported.
- -WM_FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the encrypted data. The value of DataLength is updated to the encrypted data length. The encrypted data is 16 bytes more than the original data. Therefore, the address pointed to by Data needs to reserve enough space.

5.10.3.187 wlan_set_crypto_AES_GCMP_decrypt()

Set Crypto AES_CCMP algorithm decrypt command param.

in	Key	key
in	KeyLength	The maximum key length is 32.
in	AAD	AAD
in	AADLength	The maximum AAD length is 32.
in	Nonce	Nonce
in	NonceLength	The maximum Nonce length is 14.
in	Data	Data
in	DataLength	The maximum Data length is 1300.



Returns

WM_SUCCESS if successful.

-WM_E_PERM if not supported.

-WM FAIL if failure.

Note

If the function returns WM_SUCCESS, the data in the memory pointed to by Data is overwritten by the decrypted data. The value of DataLength is updated to the decrypted data length. The decrypted data is 16 bytes less than the original data.

5.10.3.188 wlan_send_hostcmd()

This function sends the host command to f/w and copies back response to caller provided buffer in case of success Response from firmware is not parsed by this function but just copied back to the caller buffer.

Parameters

in	cmd_buf	Buffer containing the host command with header
in	cmd_buf_len	length of valid bytes in cmd_buf
out	host_resp_buf	Caller provided buffer, in case of success command response is copied to this buffer
		Can be same as cmd_buf
in	resp_buf_len	resp_buf's allocated length
out	reqd_resp_len	length of valid bytes in response buffer if successful otherwise invalid.

Returns

WM SUCCESS in case of success.

WM_E_INBIG in case cmd_buf_len is bigger than the commands that can be handled by driver.

WM_E_INSMALL in case cmd_buf_len is smaller than the minimum length. Minimum length is atleast the length of command header. Please see Note for same.

WM_E_OUTBIG in case the resp_buf_len is not sufficient to copy response from firmware. reqd_resp_len is updated with the response size.

WM_E_INVAL in case cmd_buf_len and resp_buf_len have invalid values.

WM_E_NOMEM in case cmd_buf, resp_buf and reqd_resp_len are NULL

Note

Brief on the Command Header: Start 8 bytes of cmd_buf should have these values set. Firmware would update resp buf with these 8 bytes at the start.

2 bytes : Command. 2 bytes : Size.



2 bytes : Sequence number.

2 bytes : Result.

Rest of buffer length is Command/Response Body.

5.10.3.189 wlan_send_debug_htc()

This function is used to set HTC parameter.

Parameters

in	count	
in	vht	
in	he	
in	rxNss	
in	channelWidth	
in	ulMuDisable	
in	txNSTS	
in	erSuDisable	
in	dlResoundRecomm	
in	ulMuDataDisable	

Returns

WM_SUCCESS if operation is successful, otherwise failure

5.10.3.190 wlan_enable_disable_htc()

This function is used to enable/disable HTC.

in	option	1 => Enable; 0 => Disable
----	--------	---------------------------



Returns

WM_SUCCESS if operation is successful, otherwise failure

5.10.3.191 wlan_set_11ax_tx_omi()

Use this API to set the set 11AX Tx OMI.

Parameters

in	interface	Interface type STA or uAP.
in	tx_omi	value to be sent to Firmware
in	tx_option	value to be sent to Firmware 1: send OMI in QoS data.
in	num_data_pkts	,
		frame. It specifies the number of consecutive data frames containing the OMI.
		Minimum value is 1 Maximum value is 16

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.192 wlan_set_11ax_tol_time()

Set 802_11 AX OBSS Narrow Bandwidth RU Tolerance Time In uplink transmission, AP sends a trigger frame to all the stations that will be involved in the upcoming transmission, and then these stations transmit Trigger-based(TB) PPDU in response to the trigger frame. If STA connects to AP which channel is set to 100,STA doesn't support 26 tones RU. The API should be called when station is in disconnected state.

in	tol_time	Valid range [13600] tolerance time is in unit of seconds. STA periodically check AP's beacon
		for ext cap bit79 (OBSS Narrow bandwidth RU in ofdma tolerance support) and set 20 tone
		RU tolerance time if ext cap bit79 is not set



Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.193 wlan_set_11ax_rutxpowerlimit()

Use this API to set the RU tx power limit.

Parameters

in	rutx_pwr_cfg	11AX rutxpwr of sub-bands to be sent to Firmware.
in	rutx_pwr_cfg_len	Size of rutx_pwr_cfg buffer.

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

5.10.3.194 wlan_set_11ax_rutxpowerlimit_legacy()

Use this API to set the RU tx power limit by channel based approach.

Parameters

in	ru_pwr_cfg	11AX rutxpwr of channels to be sent to Firmware.
----	------------	--

Returns

WM_SUCCESS if operation is successful. -WM FAIL if command fails.

5.10.3.195 wlan_get_11ax_rutxpowerlimit_legacy()

Use this API to get the RU tx power limit by channel based approach.



Parameters

in	ru_pwr_cfg	11AX rutxpwr of channels to be get from Firmware
----	------------	--

Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

```
5.10.3.196 wlan_set_11ax_cfg()
```

Set 11ax config params

Parameters

in, out	ax_config	11AX config parameters to be sent to Firmware
---------	-----------	---

Returns

WM_SUCCESS if successful otherwise failure.

```
5.10.3.197 wlan_get_11ax_cfg()
```

```
uint8_t* wlan_get_11ax_cfg ( )
```

Get default 11ax config params

Returns

11AX config parameters default array.

5.10.3.198 wlan_set_btwt_cfg()

Set btwt config params



Parameters

config Broadcast TWT Setup parameters to be sent to Firmwar	re
---	----

Returns

WM_SUCCESS if successful otherwise failure.

```
5.10.3.199 wlan_get_btwt_cfg()
```

```
uint8_t* wlan_get_btwt_cfg ( )
```

Get btwt config params

Returns

Broadcast TWT Setup parameters default config array.

5.10.3.200 wlan_set_twt_setup_cfg()

Set twt setup config params

Parameters

in	twt_setup	TWT Setup parameters to be sent to Firmware
----	-----------	---

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.201 wlan_get_twt_setup_cfg()

```
uint8_t* wlan_get_twt_setup_cfg ( )
```

Get twt setup config params

Returns

TWT Setup parameters default array.



5.10.3.202 wlan_set_twt_teardown_cfg()

Set twt teardown config params

Parameters

in	teardown_config	TWT Teardown parameters sent to Firmware
----	-----------------	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.203 wlan_get_twt_teardown_cfg()

```
uint8_t* wlan_get_twt_teardown_cfg ( )
```

Get twt teardown config params

Returns

TWT Teardown parameters default array

5.10.3.204 wlan_get_twt_report()

Get twt report

Parameters

out	twt report	TWT Report parameter.

Returns



5.10.3.205 wlan_twt_information()

```
int wlan_twt_information (  wlan\_twt\_information\_t \ * \ twt\_information \ )
```

Twt information

Parameters

out <i>twt_information</i>	TWT information.
----------------------------	------------------

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.206 wlan_set_clocksync_cfg()

Set Clock Sync GPIO based TSF

Parameters

in	tsf_latch	Clock Sync TSF latch parameters to be sent to Firmware
----	-----------	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.207 wlan_get_tsf_info()

Get TSF info from firmware using GPIO latch

Parameters

out	tsf_info	TSF info parameter received from Firmware
-----	----------	---

Returns



```
5.10.3.208 wlan_show_os_mem_stat()
```

```
void wlan_show_os_mem_stat ( )
```

Show os mem alloc and free info.

5.10.3.209 wlan_ft_roam()

Start FT roaming: This API is used to initiate fast BSS transition based roaming.

Parameters

ſ	in	bssid	BSSID of AP to roam
ĺ	in	channel	Channel of AP to roam

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.210 wlan_rx_mgmt_indication()

This API can be used to start/stop the management frame forwards to host through datapath.

in	bss_type	The interface from which management frame needs to be collected 0: STA, 1:
		uAP
in	mgmt_subtype_mask	Management Subtype Mask If Bit X is set in mask, it means that IEEE
		Management Frame SubTyoe X is to be filtered and passed through to host. Bit Description [31:14] Reserved [13] Action frame [12:9] Reserved [8] Beacon [7:6] Reserved [5] Probe response [4] Probe request [3] Reassociation response [2] Reassociation request [1] Association response [0] Association request Support multiple bits set. 0 = stop forward frame 1 = start forward frame
	me manual and the ade	·
in	rx_mgmt_callback	The receive callback where the received management frames are passed.



Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

Note

Pass Management Subtype Mask all zero to disable all the management frame forward to host.

5.10.3.211 wlan_wmm_tx_stats_dump()

5.10.3.212 wlan_set_scan_channel_gap()

Set scan channel gap.

Parameters

in	scan_chan_gap	Time gap to be used between two consecutive channels scan.
----	---------------	--

5.10.3.213 wlan_host_11k_cfg()

enable/disable host 11k feature

Parameters

in	enable_11k	the value of 11k configuration.
----	------------	---------------------------------

Returns



```
5.10.3.214 wlan_get_host_11k_status()
```

```
bool wlan_get_host_11k_status ( )
```

5.10.3.215 wlan_host_11k_neighbor_req()

host send neighbor report request

Parameters

in	ssid	the SSID for neighbor report
----	------	------------------------------

Note

ssid parameter is optional

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.216 wlan_host_11v_bss_trans_query()

host send bss transition management query

Parameters

in query_reas	n BTM request query reason code
---------------	---------------------------------

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.217 wlan_set_okc()



Opportunistic Key Caching (also known as Proactive Key Caching) default This parameter can be used to set the default behavior for the proactive_key_caching parameter. By default, OKC is disabled unless enabled with the global okc=1 parameter or with the per-network pkc(proactive_key_caching)=1 parameter. With okc=1, OKC is enabled by default, but can be disabled with per-network pkc(proactive_key_caching)=0 parameter.

Parameters

in okc Enable Opportunistic Key	Caching
---------------------------------	---------

0 = Disable OKC (default) 1 = Enable OKC

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.218 wlan_pmksa_list()

Dump text list of entries in PMKSA cache

Parameters

out	buf	buf Buffer to save PMKSA cache text list	
in	buflen	length of the buffer	

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.219 wlan_pmksa_flush()

```
int wlan_pmksa_flush ( )
```

Flush PTKSA cache entries

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.220 wlan_set_scan_interval()

Set wpa supplicant scan interval in seconds



Parameters

in scan_int Scan interval in second

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.221 wlan_tx_ampdu_prot_mode()

Set/Get Tx ampdu prot mode.

Parameters

in,out	prot_mode	Tx ampdu prot mode
in	action	Command action

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.222 wlan_mef_set_auto_arp()

This function set auto ARP configuration.

Parameters

in	mef_action	To be 0-discard and not wake host, 1-discard and wake host 3-allow and wake host.
----	------------	---

Returns



5.10.3.223 wlan_mef_set_auto_ping()

This function set auto ping configuration.

Parameters

in	mef_action	To be 0-discard and not wake host, 1-discard and wake host 3-allow and wake host.]
----	------------	---	---

Returns

WM SUCCESS if successful otherwise failure.

5.10.3.224 wlan_config_mef()

This function set/delete mef entries configuration.

Parameters

in	type	MEF type: MEF_TYPE_DELETE, MEF_TYPE_AUTO_PING, MEF_TYPE_AUTO_ARP
in	mef_action	To be 0-discard and not wake host, 1-discard and wake host 3-allow and wake host.

Returns

WM_SUCCESS if the call was successful. -WM_FAIL if failed.

5.10.3.225 wlan_set_ipv6_ns_mef()

Use this API to enable IPv6 Neighbor Solicitation offload in Wi-Fi firmware

in	mef_action	0-discard and not wake host, 1-discard and wake host 3-allow and wake host.
----	------------	---



Returns

WM_SUCCESS if operation is successful. -WM_FAIL if command fails.

```
5.10.3.226 wlan_csi_cfg()
```

Send the csi config parameter to FW.

Parameters

in	csi_params	Csi config parameter
----	------------	----------------------

Returns

WM_SUCCESS if successful otherwise failure.

```
5.10.3.227 wlan_register_csi_user_callback()
```

This function registers callback which are used to deliver CSI data to user.

Parameters

	ani data vanu nalibani.	Callback to deliver CCI data and many data largeth in 700 bytes. Dis agus data
in	csi_data_recv_callback	Callback to deliver CSI data and max data length is 768 bytes. Pls save data
		as soon as possible in callback Type of callback return vale is int. Memory
		layout of buffer: size(byte) items 2 buffer len[bit 0:12] 2 CSI signature, 0xABCD
		fixed 4 User defined HeaderID 2 Packet info 2 Frame control field for the
		received packet 8 Timestamp when packet received 6 Received Packet
		Destination MAC Address 6 Received Packet Source MAC Address 1 RSSI for
		antenna A 1 RSSI for antenna B 1 Noise floor for antenna A 1 Noise floor for
		antenna B 1 Rx signal strength above noise floor 1 Channel 2 user defined
		Chip ID 4 Reserved 4 CSI data length in DWORDs CSI data

Returns



5.10.3.228 wlan_unregister_csi_user_callback()

This function unregisters callback which are used to deliver CSI data to user.

Returns

WM_SUCCESS if successful

5.10.3.229 wlan_set_rssi_low_threshold()

Use this API to set the RSSI threshold value for low RSSI event subscription. When RSSI falls below this threshold firmware will generate the low RSSI event to driver. This low RSSI event is used when either of CONFIG_11R, CONFIG_11K, CONFIG_11V or CONFIG_ROAMING is enabled. NOTE: By default rssi low threshold is set at -70 dbm

Parameters

in	threshold	Threshold rssi value to be set
----	-----------	--------------------------------

5.10.3.230 wlan_wps_generate_pin()

Generate valid PIN for WPS session.

This function generate PIN for WPS PIN session.

Parameters

```
in pin A pointer to WPS pin to be generated.
```

5.10.3.231 wlan_start_wps_pin()



Start WPS PIN session.

This function starts WPS PIN session.

Parameters

in	pin	Pin for WPS session.
----	-----	----------------------

Returns

WM_SUCCESS if the pin entered is valid. -WM_FAIL if invalid pin entered.

```
5.10.3.232 wlan_start_wps_pbc()
```

Start WPS PBC session.

This function starts WPS PBC session.

Returns

WM_SUCCESS if successful -WM_FAIL if invalid pin entered.

5.10.3.233 wlan_wps_cancel()

Cancel WPS session.

This function cancels ongoing WPS session.

Returns

WM_SUCCESS if successful -WM_FAIL if invalid pin entered.

5.10.3.234 wlan_start_ap_wps_pin()

Start WPS PIN session.

This function starts AP WPS PIN session.



Parameters

Returns

WM_SUCCESS if the pin entered is valid. -WM FAIL if invalid pin entered.

5.10.3.235 wlan_start_ap_wps_pbc()

Start WPS PBC session.

This function starts AP WPS PBC session.

Returns

WM_SUCCESS if successful -WM_FAIL if invalid pin entered.

5.10.3.236 wlan_wps_ap_cancel()

Cancel AP's WPS session.

This function cancels ongoing WPS session.

Returns

WM_SUCCESS if successful -WM_FAIL if invalid pin entered.

5.10.3.237 wlan_set_entp_cert_files()

This function specifies the enterprise certificate file This function must be used before adding network profile. It will store certificate data in "wlan" global structure. When adding new network profile, it will be get by wlan_get_entpccert_files(), and put into profile security structure after mbedtls parse.



Parameters

in	cert_type	certificate file type: 1 – FILE_TYPE_ENTP_CA_CERT, 2 – FILE_TYPE_ENTP_CLIENT_CERT, 3 – FILE_TYPE_ENTP_CLIENT_KEY.
in	data	raw data
in	data_len	size of raw data

Returns

WM_SUCCESS if successful otherwise failure.

```
5.10.3.238 wlan_get_entp_cert_files()
```

This function get enterprise certificate data from "wlan" global structure *

Parameters

in	cert_type	certificate file type: 1 – FILE_TYPE_ENTP_CA_CERT, 2 –
		FILE_TYPE_ENTP_CLIENT_CERT, 3 – FILE_TYPE_ENTP_CLIENT_KEY.
in	data	raw data

Returns

size of raw data

5.10.3.239 wlan_free_entp_cert_files()

This function free the temporary memory of enterprise certificate data After add new enterprise network profile, the certificate data has been parsed by mbedtls into another data, which can be freed.

5.10.3.240 wlan_check_11n_capa()

```
uint8_t wlan_check_11n_capa (
          unsigned int channel )
```

Check if 11n(2G or 5G) is supported by hardware or not.



Parameters

in <i>channel</i> Channel number.

Returns

true if 11n is supported or false if not.

5.10.3.241 wlan_check_11ac_capa()

Check if 11ac(2G or 5G) is supported by hardware or not.

Parameters

in channel Channel number

Returns

true if 11ac is supported or false if not.

5.10.3.242 wlan_check_11ax_capa()

```
uint8_t wlan_check_11ax_capa (
          unsigned int channel )
```

Check if 11ax(2G or 5G) is supported by hardware or not.

Parameters

_			
	in	channel	Channel number.

Returns

true if 11ax is supported or false if not.

5.10.3.243 wlan_get_signal_info()



Get rssi information.



Parameters

out	signal	rssi infomation get report buffer	
-----	--------	-----------------------------------	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.244 wlan_set_rg_power_cfg()

set region power table

Parameters

in <i>region_code</i> region code	in	region_code	region code
---------------------------------------	----	-------------	-------------

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.245 wlan_get_turbo_mode()

Get Turbo mode.

Parameters

out	mode	turbo mode 0: disable turbo mode 1: turbo mode 1 2: turbo mode 2 3: turbo mode 3	
-----	------	--	--

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.246 wlan_get_uap_turbo_mode()



Get UAP Turbo mode.



Parameters

out <i>m</i>	turbo mode 0: disable turbo	ode 1: turbo mode 1 2: turbo mode 2 3: turbo mode 3
--------------	-----------------------------	---

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.247 wlan_set_turbo_mode()

Set Turbo mode.

Parameters

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.248 wlan_set_uap_turbo_mode()

Set UAP Turbo mode.

Parameters

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.249 wlan_set_ps_cfg()



```
t_u16 bcn_miss_timeout,
t_u16 local_listen_interval,
t_u16 adhoc_wake_period,
t_u16 mode,
t_u16 delay_to_ps )
```

set ps configuration. Currently only used to modify multiple dtim.

Parameters

in	multiple_dtims	num dtims, range [1,20]	
in	bcn_miss_timeout	becaon miss interval	
in	local_listen_interval	local listen interval	
in	adhoc_wake_period	adhoc awake period	
in	mode	mode - (0x01 - firmware to automatically choose PS_POLL or NULL mode, 0x02 -	
		PS_POLL, 0x03 - NULL mode)	
in	delay_to_ps	Delay to PS in milliseconds	

5.10.3.250 wlan_save_cloud_keep_alive_params()

```
int wlan_save_cloud_keep_alive_params (
    wlan_cloud_keep_alive_t * cloud_keep_alive,
    t_u16 src_port,
    t_u16 dst_port,
    t_u32 seq_number,
    t_u32 ack_number,
    t_u8 enable )
```

Save start cloud keep alive parameters

Parameters

in	cloud_keep_alive	cloud keep alive information
in	src_port	Source port
in	dst_port	Destination port
in	seq_number	Sequence number
in	ack_number	Acknowledgement number
in	enable	Enable

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.251 wlan_cloud_keep_alive_enabled()



Get cloud keep alive status for given destination ip and port

Parameters

in	dst_ip	Destination ip address
in	dst_port	Destination port

Returns

1 if enabled otherwise 0.

5.10.3.252 wlan_start_cloud_keep_alive()

Start cloud keep alive

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.253 wlan_stop_cloud_keep_alive()

Stop cloud keep alive

Parameters

in cloud_keep_alive	cloud keep alive information
---------------------	------------------------------

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.254 wlan_set_country_code()

Set country code



Note

This API should be called after WLAN is initialized but before starting uAP interface.

Parameters

in	alpha2	country code in 3 octets string, 2 octets country code and 1 octet environment 2 octets country
		code supported: WW : World Wide Safe US : US FCC CA : IC Canada SG : Singapore EU :
		ETSI AU : Australia KR : Republic Of Korea FR : France JP : Japan CN : China

For the third octet, STA is always 0. For uAP environment: All environments of the current frequency band and country (default) alpha2[2]=0x20 Outdoor environment only alpha2[2]=0x4f Indoor environment only alpha2[2]=0x49 Noncountry entity (country_code=XX) alpha[2]=0x58 IEEE 802.11 standard Annex E table indication: 0x01 .. 0x1f Annex E, Table E-4 (Global operating classes) alpha[2]=0x04

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.255 wlan_set_country_ie_ignore()

Set ignore region code

Parameters

in	ignore	0: Don't ignore 1: ignore
----	--------	---------------------------

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.256 wlan_set_region_code()

```
int wlan_set_region_code (
          unsigned int region_code )
```

Set region code

Parameters

in *region_code*



Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.257 wlan_get_region_code()

```
int wlan_get_region_code (
          unsigned int * region_code )
```

Get region code

Parameters

out	region_code	pointer
-----	-------------	---------

Returns

WM SUCCESS if successful otherwise failure.

5.10.3.258 wlan_set_11d_state()

Set STA/uAP 80211d feature enable/disable

Parameters

in	bss_type	0: STA, 1: uAP
in	state	0: disable, 1: enable

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.259 wlan_dpp_configurator_add()

```
int wlan_dpp_configurator_add ( int \ is\_ap, const \ char * cmd )
```

Add a DPP Configurator

If this device is DPP Configurator, add it to get configurator ID.



Parameters

in	is_ap	0 is sta, 1 is uap
in	cmd	"curve=P-256"

Returns

configurator ID if successful otherwise failure.

5.10.3.260 wlan_dpp_configurator_params()

```
void wlan_dpp_configurator_params ( int \ is\_ap, const \ char * cmd )
```

Set DPP Configurator parameter

set DPP configurator params. for example:" conf=<sta-dpp/ap-dpp> ssid=<hex ssid> configurator=conf_id" #space character exists between " & conf word.

Parameters

in	is_ap	0 is sta, 1 is uap
in	cmd	" conf= <sta-dpp ap-dpp="" sta-psk=""> ssid=<hex ssid=""> configurator=conf_id"</hex></sta-dpp>

Returns

void

5.10.3.261 wlan_dpp_mud_url()

```
void wlan_dpp_mud_url ( int \ is\_ap, const \ char * cmd )
```

MUD URL for Enrollee's DPP Configuration Request (optional)

Wi-Fi_CERTIFIED_Easy_Connect_Test_Plan_v3.0.pdf 5.1.23 STAUT sends the MUD URL

Parameters

in	is_ap	0 is sta, 1 is uap
in	cmd	"https://example.com/mud"



Returns

void

5.10.3.262 wlan_dpp_bootstrap_gen()

Generate QR code

This function generates QR code and return bootstrap-id

Parameters

in	is_ap	0 is sta, 1 is uap
in	cmd	"type=qrcode mac= <mac-address-of-device> chan=<operating-class channel="">"</operating-class></mac-address-of-device>

Returns

bootstrap-id if successful otherwise failure.

5.10.3.263 wlan_dpp_bootstrap_get_uri()

```
const char* wlan_dpp_bootstrap_get_uri (
    int is_ap,
    unsigned int id )
```

Get QR code by bootstrap-id

This function get QR code string by bootstrap-id

Parameters

in	is_ap	0 is sta, 1 is uap
in	id	bootstrap-id

Returns

QR code string if successful otherwise NULL.



5.10.3.264 wlan_dpp_qr_code()

Enter the QR code in the DPP device.

This function set the QR code and return qr-code-id.

Parameters

in	is_ap	0 is sta, 1 is uap
in	uri	QR code provided by other device.

Returns

qr-code-id if successful otherwise failure.

5.10.3.265 wlan_dpp_auth_init()

```
int wlan_dpp_auth_init ( int \ is\_ap, const \ char * cmd )
```

Send provisioning Auth request to responder.

This function send Auth request to responder by qr-code-id.

Parameters

in	is_ap	0 is sta, 1 is uap
in	cmd	"peer= <qr-code-id> conf=<sta-dpp ap-dpp="" sta-psk="">"</sta-dpp></qr-code-id>

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.266 wlan_dpp_listen()

Make device listen to DPP request.

Responder generates QR code and listening on its operating channel to wait Auth request.



Parameters

i	n	is_ap	0 is sta, 1 is uap
i	n	cmd	" <frequency>"</frequency>

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.267 wlan_dpp_stop_listen()

```
int wlan_dpp_stop_listen ( int \ is\_ap \ )
```

DPP stop listen

Stop dpp listen and clear listen frequency

Parameters

in <i>is_a</i>	0 is sta, 1 is uap
----------------	--------------------

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.268 wlan_dpp_pkex_add()

```
int wlan_dpp_pkex_add (  \mbox{int $is\_ap$,} \\ \mbox{const char } * \mbox{\it cmd} \mbox{\ )}
```

Set bootstrapping through PKEX(Public Key Exchange)

Support in-band bootstrapping through PKEX

Parameters

in	is_ap	0 is sta, 1 is uap
in	cmd	"own= <bootstrap_id> identifier=<string> code=<string>"</string></string></bootstrap_id>

Returns

WM_SUCCESS if successful otherwise failure.



5.10.3.269 wlan_dpp_chirp()

sends DPP presence announcement.

Send DPP presence announcement from responder. After the Initiator enters the QRcode URI provided by the Responder, the Responder sends the presence announcement to trigger Auth Request from Initiator.

Parameters

in	is_ap	0 is sta, 1 is uap
in	cmd	"own= <bootstrap id=""> listen=<freq>"</freq></bootstrap>

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.270 wlan_dpp_reconfig()

DPP reconfig

DPP reconfig and make a new DPP connection.

Parameters

in cmd " <network id=""></network>

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.271 wlan_dpp_configurator_sign()



Configurator configures itself as an Enrollee AP/STA

Wi-Fi_CERTIFIED_Easy_Connect_Test_Plan_v3.0.pdf 5.3.8 & 5.3.9 Configurator configures itself as an Enrollee AP/STA

for example:" conf=<sta-dpp/ap-dpp> ssid=<hex ssid> configurator=conf_id" #space character exists between " & conf word.

Parameters

in	is_ap	0 is sta, 1 is uap
in	cmd	" conf= <sta-dpp ap-dpp="" sta-psk=""> ssid=<hex ssid=""> configurator=conf_id"</hex></sta-dpp>

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.272 wlan_host_set_sta_mac_filter()

```
int wlan_host_set_sta_mac_filter (
    int filter_mode,
    int mac_count,
    unsigned char * mac_addr )
```

5.10.3.273 wlan_set_indrst_cfg()

Set GPIO independent reset configuration

Parameters

in	indrst_cfg	GPIO independent reset config to be sent to Firmware

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.274 wlan_get_indrst_cfg()



5.10.3.275 wlan_independent_reset()

```
int wlan_independent_reset ( )
```

Test Independent Firmware reset

This function will either send cmd that will cause timeout in firmware or send GPIO pulse that will cause out of band reset in firmware as per configuration int earlier wlan_set_indrst_cfg API.

Returns

WM_SUCCESS if successful otherwise failure.

5.10.3.276 wlan_set_network_ip_byname()

5.10.3.277 wlan_string_dup()

```
char* wlan_string_dup ( {\tt const~char}~*~s~)
```

allocate a copy of a string

5.10.3.278 wlan_get_board_type()

```
uint32\_t wlan\_get\_board\_type ( )
```

Get board type.

Returns

board type.

5.10.3.279 wlan_uap_disconnect_sta()

```
int wlan_uap_disconnect_sta ( \label{eq:uint8_t} \mbox{uint8_t} * sta\_addr \; )
```

Disconnect to sta which is connected with internal uap.



Parameters

in sta_addr	sta mac address
-------------	-----------------

Returns

WM_SUCCESS if successful otherwise failure.

5.10.4 Macro Documentation

5.10.4.1 WLAN_DRV_VERSION

```
#define WLAN_DRV_VERSION "v1.3.r48.p16"
```

5.10.4.2 ARG_UNUSED

```
#define ARG_UNUSED(
     x ) (void)(x)
```

5.10.4.3 CONFIG_WLAN_KNOWN_NETWORKS

```
#define CONFIG_WLAN_KNOWN_NETWORKS 5U
```

5.10.4.4 wlcm_e

5.10.4.5 wlcm_w



5.10.4.6 wlcm_d

```
#define wlcm_d( ... ) wmlog("wlcm", ##__VA_ARGS__)
```

5.10.4.7 ACTION_GET

#define ACTION_GET (0U)

Action GET

5.10.4.8 ACTION_SET

#define ACTION_SET (1)

Action SET

5.10.4.9 IEEEtypes_SSID_SIZE

#define IEEEtypes_SSID_SIZE 32U

Maximum SSID length

5.10.4.10 IEEEtypes_ADDRESS_SIZE

#define IEEEtypes_ADDRESS_SIZE 6

MAC Address length

5.10.4.11 WLAN_REASON_CODE_PREV_AUTH_NOT_VALID

#define WLAN_REASON_CODE_PREV_AUTH_NOT_VALID 2U

5.10.4.12 WLAN_RESCAN_LIMIT

#define WLAN_RESCAN_LIMIT 30U

The number of times that the WLAN Connection Manager will look for a network before giving up.



5.10.4.13 WLAN_11D_SCAN_LIMIT

#define WLAN_11D_SCAN_LIMIT 3U

5.10.4.14 WLAN_RECONNECT_LIMIT

#define WLAN_RECONNECT_LIMIT 5U

The number of times that the WLAN Connection Manager will attempt a reconnection with the network before giving up.

5.10.4.15 WLAN_NETWORK_NAME_MIN_LENGTH

#define WLAN_NETWORK_NAME_MIN_LENGTH 1U

The minimum length for network names, see wlan_network. This must be between 1 and WLAN_NETWORK_N → AME_MAX_LENGTH

5.10.4.16 WLAN_NETWORK_NAME_MAX_LENGTH

#define WLAN_NETWORK_NAME_MAX_LENGTH 32U

The space reserved for storing network names, wlan_network

5.10.4.17 WLAN_PSK_MIN_LENGTH

#define WLAN_PSK_MIN_LENGTH 8U

The space reserved for storing PSK (password) phrases.

5.10.4.18 WLAN_PSK_MAX_LENGTH

#define WLAN_PSK_MAX_LENGTH 65U

Max WPA2 passphrase can be upto 63 ASCII chars or 64 hexadecimal digits

5.10.4.19 WLAN_PASSWORD_MIN_LENGTH

#define WLAN_PASSWORD_MIN_LENGTH 8U

Min WPA3 password can be upto 8 ASCII chars



5.10.4.20 WLAN_PASSWORD_MAX_LENGTH

#define WLAN_PASSWORD_MAX_LENGTH 255U

Max WPA3 password can be upto 255 ASCII chars

5.10.4.21 IDENTITY_MAX_LENGTH

#define IDENTITY_MAX_LENGTH 64U

Max WPA2 Enterprise identity can be upto 256 characters

5.10.4.22 PASSWORD_MAX_LENGTH

#define PASSWORD_MAX_LENGTH 128U

Max WPA2 Enterprise password can be upto 256 unicode characters

5.10.4.23 MAX_USERS

#define MAX_USERS 8U

Max identities for EAP server users

5.10.4.24 PAC_OPAQUE_ENCR_KEY_MAX_LENGTH

#define PAC_OPAQUE_ENCR_KEY_MAX_LENGTH 33U

Encryption key for EAP-FAST PAC-Opaque values. This key must be a secret, random value. It is configured as a 16-octet value in hex format.

5.10.4.25 A_ID_MAX_LENGTH

#define A_ID_MAX_LENGTH 33U

A-ID indicates the identity of the authority that issues PACs. The A-ID should be unique across all issuing servers. A-ID to be 16 octets in length

5.10.4.26 HASH_MAX_LENGTH

#define HASH_MAX_LENGTH 40U

MAX CA Cert hash len



5.10.4.27 DOMAIN_MATCH_MAX_LENGTH

#define DOMAIN_MATCH_MAX_LENGTH 64U

MAX domain len

5.10.4.28 WLAN_MAX_KNOWN_NETWORKS

#define WLAN_MAX_KNOWN_NETWORKS CONFIG_WLAN_KNOWN_NETWORKS

The size of the list of known networks maintained by the WLAN Connection Manager

5.10.4.29 WLAN_PMK_LENGTH

#define WLAN_PMK_LENGTH 32

Length of a pairwise master key (PMK). It's always 256 bits (32 Bytes)

5.10.4.30 WLAN_MAX_STA_FILTER_NUM

#define WLAN_MAX_STA_FILTER_NUM 16

5.10.4.31 WLAN_MAC_ADDR_LENGTH

#define WLAN_MAC_ADDR_LENGTH 6

5.10.4.32 WLAN_ERROR_NONE

#define WLAN_ERROR_NONE 0

The operation was successful.

5.10.4.33 WLAN_ERROR_PARAM

#define WLAN_ERROR_PARAM 1

The operation failed due to an error with one or more parameters.

5.10.4.34 WLAN_ERROR_NOMEM

#define WLAN_ERROR_NOMEM 2

The operation could not be performed because there is not enough memory.



5.10.4.35 WLAN_ERROR_STATE

```
#define WLAN_ERROR_STATE 3
```

The operation could not be performed in the current system state.

5.10.4.36 WLAN_ERROR_ACTION

```
#define WLAN_ERROR_ACTION 4
```

The operation failed due to an internal error.

5.10.4.37 WLAN_ERROR_PS_ACTION

```
#define WLAN_ERROR_PS_ACTION 5
```

The operation to change power state could not be performed

5.10.4.38 WLAN_ERROR_NOT_SUPPORTED

```
#define WLAN_ERROR_NOT_SUPPORTED 6
```

The requested feature is not supported

5.10.4.39 HOST_WAKEUP_GPIO_PIN

#define HOST_WAKEUP_GPIO_PIN 17

5.10.4.40 CARD_WAKEUP_GPIO_PIN

#define CARD_WAKEUP_GPIO_PIN 16

5.10.4.41 WLAN_MGMT_DIASSOC

#define WLAN_MGMT_DIASSOC MBIT(10)

5.10.4.42 WLAN_MGMT_AUTH

#define WLAN_MGMT_AUTH MBIT(11)



5.10.4.43 WLAN_MGMT_DEAUTH #define WLAN_MGMT_DEAUTH MBIT(12) 5.10.4.44 WLAN_MGMT_ACTION #define WLAN_MGMT_ACTION MBIT(13) BITMAP for Action frame 5.10.4.45 WLAN_KEY_MGMT_IEEE8021X #define WLAN_KEY_MGMT_IEEE8021X MBIT(0) 5.10.4.46 WLAN_KEY_MGMT_PSK #define WLAN_KEY_MGMT_PSK MBIT(1) 5.10.4.47 WLAN_KEY_MGMT_NONE #define WLAN_KEY_MGMT_NONE MBIT(2) 5.10.4.48 WLAN_KEY_MGMT_IEEE8021X_NO_WPA #define WLAN_KEY_MGMT_IEEE8021X_NO_WPA MBIT(3) 5.10.4.49 WLAN_KEY_MGMT_WPA_NONE #define WLAN_KEY_MGMT_WPA_NONE MBIT(4)



5.10.4.50 WLAN_KEY_MGMT_FT_IEEE8021X

#define WLAN_KEY_MGMT_FT_IEEE8021X MBIT(5)

5.10.4.51 WLAN_KEY_MGMT_FT_PSK

#define WLAN_KEY_MGMT_FT_PSK MBIT(6)

5.10.4.52 WLAN_KEY_MGMT_IEEE8021X_SHA256

#define WLAN_KEY_MGMT_IEEE8021X_SHA256 MBIT(7)

5.10.4.53 WLAN_KEY_MGMT_PSK_SHA256

#define WLAN_KEY_MGMT_PSK_SHA256 MBIT(8)

5.10.4.54 WLAN_KEY_MGMT_WPS

#define WLAN_KEY_MGMT_WPS MBIT(9)

5.10.4.55 WLAN_KEY_MGMT_SAE

#define WLAN_KEY_MGMT_SAE MBIT(10)

5.10.4.56 WLAN_KEY_MGMT_FT_SAE

#define WLAN_KEY_MGMT_FT_SAE MBIT(11)

5.10.4.57 WLAN_KEY_MGMT_WAPI_PSK

#define WLAN_KEY_MGMT_WAPI_PSK MBIT(12)

5.10.4.58 WLAN_KEY_MGMT_WAPI_CERT

#define WLAN_KEY_MGMT_WAPI_CERT MBIT(13)



5.10.4.59 WLAN_KEY_MGMT_CCKM

#define WLAN_KEY_MGMT_CCKM MBIT(14)

5.10.4.60 WLAN_KEY_MGMT_OSEN

#define WLAN_KEY_MGMT_OSEN MBIT(15)

5.10.4.61 WLAN_KEY_MGMT_IEEE8021X_SUITE_B

#define WLAN_KEY_MGMT_IEEE8021X_SUITE_B MBIT(16)

5.10.4.62 WLAN_KEY_MGMT_IEEE8021X_SUITE_B_192

#define WLAN_KEY_MGMT_IEEE8021X_SUITE_B_192 MBIT(17)

5.10.4.63 WLAN_KEY_MGMT_FILS_SHA256

#define WLAN_KEY_MGMT_FILS_SHA256 MBIT(18)

5.10.4.64 WLAN_KEY_MGMT_FILS_SHA384

#define WLAN_KEY_MGMT_FILS_SHA384 MBIT(19)

5.10.4.65 WLAN_KEY_MGMT_FT_FILS_SHA256

#define WLAN_KEY_MGMT_FT_FILS_SHA256 MBIT(20)

5.10.4.66 WLAN_KEY_MGMT_FT_FILS_SHA384

#define WLAN_KEY_MGMT_FT_FILS_SHA384 MBIT(21)



5.10.4.67 WLAN_KEY_MGMT_OWE

```
#define WLAN_KEY_MGMT_OWE MBIT(22)
```

5.10.4.68 WLAN_KEY_MGMT_DPP

```
#define WLAN_KEY_MGMT_DPP MBIT(23)
```

5.10.4.69 WLAN_KEY_MGMT_FT_IEEE8021X_SHA384

```
#define WLAN_KEY_MGMT_FT_IEEE8021X_SHA384 MBIT(24)
```

5.10.4.70 WLAN_KEY_MGMT_PASN

```
#define WLAN_KEY_MGMT_PASN MBIT(25)
```

5.10.4.71 WLAN_KEY_MGMT_SAE_EXT_KEY

```
#define WLAN_KEY_MGMT_SAE_EXT_KEY MBIT(26)
```

5.10.4.72 WLAN_KEY_MGMT_FT

```
#define WLAN_KEY_MGMT_FT
```

Value:

```
(WLAN_KEY_MGMT_FT_PSK | WLAN_KEY_MGMT_FT_IEEE8021X |
    WLAN_KEY_MGMT_FT_IEEE8021X_SHA384 |
    WLAN_KEY_MGMT_FT_SAE | \
    WLAN_KEY_MGMT_FT_FILS_SHA256 | WLAN_KEY_MGMT_FT_FILS_SHA384)
```

5.10.4.73 WLAN_CIPHER_NONE

```
#define WLAN_CIPHER_NONE MBIT(0)
```



5.10.4.74 WLAN_CIPHER_WEP40 #define WLAN_CIPHER_WEP40 MBIT(1) 5.10.4.75 WLAN_CIPHER_WEP104 #define WLAN_CIPHER_WEP104 MBIT(2) 5.10.4.76 WLAN_CIPHER_TKIP #define WLAN_CIPHER_TKIP MBIT(3) 5.10.4.77 WLAN_CIPHER_CCMP #define WLAN_CIPHER_CCMP MBIT(4) 5.10.4.78 WLAN_CIPHER_AES_128_CMAC #define WLAN_CIPHER_AES_128_CMAC MBIT(5) 5.10.4.79 WLAN CIPHER GCMP #define WLAN_CIPHER_GCMP MBIT(6) 5.10.4.80 WLAN_CIPHER_SMS4 #define WLAN_CIPHER_SMS4 MBIT(7)

5.10.4.81 WLAN_CIPHER_GCMP_256

#define WLAN_CIPHER_GCMP_256 MBIT(8)



5.10.4.82 WLAN_CIPHER_CCMP_256

#define WLAN_CIPHER_CCMP_256 MBIT(9)

5.10.4.83 WLAN_CIPHER_BIP_GMAC_128

#define WLAN_CIPHER_BIP_GMAC_128 MBIT(11)

5.10.4.84 WLAN_CIPHER_BIP_GMAC_256

#define WLAN_CIPHER_BIP_GMAC_256 MBIT(12)

5.10.4.85 WLAN_CIPHER_BIP_CMAC_256

#define WLAN_CIPHER_BIP_CMAC_256 MBIT(13)

5.10.4.86 WLAN_CIPHER_GTK_NOT_USED

#define WLAN_CIPHER_GTK_NOT_USED MBIT(14)

5.10.4.87 NUM_CHAN_BAND_ENUMS

#define NUM_CHAN_BAND_ENUMS 3

5.10.4.88 DFS_REC_HDR_LEN

#define DFS_REC_HDR_LEN (8)

5.10.4.89 DFS_REC_HDR_NUM

#define DFS_REC_HDR_NUM (10)



5.10.4.90 BIN_COUNTER_LEN

#define BIN_COUNTER_LEN (7)

5.10.4.91 MAX_CHANNEL_LIST

#define MAX_CHANNEL_LIST 6

5.10.4.92 TX_AMPDU_RTS_CTS

#define TX_AMPDU_RTS_CTS 0

5.10.4.93 TX_AMPDU_CTS_2_SELF

#define TX_AMPDU_CTS_2_SELF 1

5.10.4.94 TX_AMPDU_DISABLE_PROTECTION

#define TX_AMPDU_DISABLE_PROTECTION 2

5.10.4.95 TX_AMPDU_DYNAMIC_RTS_CTS

#define TX_AMPDU_DYNAMIC_RTS_CTS 3

5.10.4.96 EU_CRYPTO_DATA_MAX_LENGTH

#define EU_CRYPTO_DATA_MAX_LENGTH 1300U

5.10.4.97 EU_CRYPTO_KEY_MAX_LENGTH

#define EU_CRYPTO_KEY_MAX_LENGTH 32U



5.10.4.98 EU_CRYPTO_KEYIV_MAX_LENGTH

#define EU_CRYPTO_KEYIV_MAX_LENGTH 32U

5.10.4.99 EU_CRYPTO_NONCE_MAX_LENGTH

#define EU_CRYPTO_NONCE_MAX_LENGTH 14U

5.10.4.100 EU_CRYPTO_AAD_MAX_LENGTH

#define EU_CRYPTO_AAD_MAX_LENGTH 32U

5.10.4.101 FILE_TYPE_NONE

#define FILE_TYPE_NONE 0

5.10.4.102 FILE_TYPE_ENTP_CA_CERT

#define FILE_TYPE_ENTP_CA_CERT 1

5.10.4.103 FILE_TYPE_ENTP_CLIENT_CERT

#define FILE_TYPE_ENTP_CLIENT_CERT 2

5.10.4.104 FILE_TYPE_ENTP_CLIENT_KEY

#define FILE_TYPE_ENTP_CLIENT_KEY 3

5.10.4.105 FILE_TYPE_ENTP_CA_CERT2

#define FILE_TYPE_ENTP_CA_CERT2 4



5.10.4.106 FILE_TYPE_ENTP_CLIENT_CERT2 #define FILE_TYPE_ENTP_CLIENT_CERT2 5 5.10.4.107 FILE_TYPE_ENTP_CLIENT_KEY2 #define FILE_TYPE_ENTP_CLIENT_KEY2 6 5.10.4.108 FILE_TYPE_ENTP_SERVER_CERT #define FILE_TYPE_ENTP_SERVER_CERT 8 5.10.4.109 FILE_TYPE_ENTP_SERVER_KEY #define FILE_TYPE_ENTP_SERVER_KEY 9 5.10.4.110 FILE_TYPE_ENTP_DH_PARAMS #define FILE_TYPE_ENTP_DH_PARAMS 10 5.10.5 Typedef Documentation 5.10.5.1 wlan_scan_channel_list_t ${\tt typedef\ wifi_scan_channel_list_t\ wlan_scan_channel_list_t}$ Configuration for Wireless scan channel list from wifi_scan_channel_list_t

typedef wifi_scan_params_v2_t wlan_scan_params_v2_t

5.10.5.2 wlan_scan_params_v2_t

Configuration for wireless scanning parameters v2 from wifi_scan_params_v2_t



```
5.10.5.3 wlan_cal_data_t
typedef wifi_cal_data_t wlan_cal_data_t
Configuration for Wireless Calibration data from wifi_cal_data_t
5.10.5.4 wlan_auto_reconnect_config_t
typedef wifi_auto_reconnect_config_t wlan_auto_reconnect_config_t
Configuration for Auto reconnect configuration from wifi_auto_reconnect_config_t
5.10.5.5 wlan_flt_cfg_t
typedef wifi_flt_cfg_t wlan_flt_cfg_t
Configuration for Memory Efficient Filters in Wi-Fi firmware from wifi_flt_cfg_t
5.10.5.6 wlan_wowlan_ptn_cfg_t
typedef wifi_wowlan_ptn_cfg_t wlan_wowlan_ptn_cfg_t
Configuration for wowlan pattern parameters from wifi_wowlan_ptn_cfg_t
5.10.5.7 wlan_tcp_keep_alive_t
typedef wifi_tcp_keep_alive_t wlan_tcp_keep_alive_t
Configuration for TCP Keep alive parameters from wifi_tcp_keep_alive_t
5.10.5.8 wlan cloud keep alive t
typedef wifi_cloud_keep_alive_t wlan_cloud_keep_alive_t
Configuration for Cloud Keep alive parameters from wifi cloud keep alive t
5.10.5.9 wlan_ds_rate
typedef wifi_ds_rate wlan_ds_rate
Configuration for TX Rate and Get data rate from wifi_ds_rate
5.10.5.10 wlan_ed_mac_ctrl_t
typedef wifi_ed_mac_ctrl_t wlan_ed_mac_ctrl_t
```

Configuration for ED MAC Control parameters from wifi_ed_mac_ctrl_t



5.10 wlan.h File Reference 383

```
5.10.5.11 wlan_bandcfg_t
typedef wifi_bandcfg_t wlan_bandcfg_t
Configuration for Band from wifi_bandcfg_t
5.10.5.12 wlan_cw_mode_ctrl_t
typedef wifi_cw_mode_ctrl_t wlan_cw_mode_ctrl_t
Configuration for CW Mode parameters from wifi_cw_mode_ctrl_t
5.10.5.13 wlan_chanlist_t
typedef wifi_chanlist_t wlan_chanlist_t
Configuration for Channel list from wifi_chanlist_t
5.10.5.14 wlan_txpwrlimit_t
typedef wifi_txpwrlimit_t wlan_txpwrlimit_t
Configuration for TX Pwr Limit from wifi_txpwrlimit_t
5.10.5.15 wlan_ext_coex_stats_t
typedef wifi_ext_coex_stats_t wlan_ext_coex_stats_t
Statistic of External Coex from wifi_ext_coex_config_t
5.10.5.16 wlan ext coex config t
typedef wifi_ext_coex_config_t wlan_ext_coex_config_t
Configuration for External Coex from wifi ext coex config t
5.10.5.17 wlan_rutxpwrlimit_t
typedef wifi_rutxpwrlimit_t wlan_rutxpwrlimit_t
Configuration for RU TX Pwr Limit from wifi_rutxpwrlimit_t
5.10.5.18 wlan_11ax_config_t
typedef wifi_11ax_config_t wlan_11ax_config_t
Configuration for 11AX capabilities wifi_11ax_config_t
```



```
5.10.5.19 wlan_twt_setup_config_t
typedef wifi_twt_setup_config_t wlan_twt_setup_config_t
Configuration for TWT Setup wifi_twt_setup_config_t
5.10.5.20 wlan_twt_teardown_config_t
typedef wifi_twt_teardown_config_t wlan_twt_teardown_config_t
Configuration for TWT Teardown wifi_twt_teardown_config_t
5.10.5.21 wlan_btwt_config_t
typedef wifi_btwt_config_t wlan_btwt_config_t
Configuration for Broadcast TWT Setup wifi_btwt_config_t
5.10.5.22 wlan_twt_report_t
typedef wifi_twt_report_t wlan_twt_report_t
Configuration for TWT Report wifi_twt_report_t
5.10.5.23 wlan_twt_information_t
typedef wifi_twt_information_t wlan_twt_information_t
Configuration for TWT Information wifi_twt_information_t
5.10.5.24 wlan clock sync gpio tsf t
typedef wifi_clock_sync_gpio_tsf_t wlan_clock_sync_gpio_tsf_t
Configuration for Clock Sync GPIO TSF latch wifi clock sync gpio tsf t
5.10.5.25 wlan_tsf_info_t
typedef wifi_tsf_info_t wlan_tsf_info_t
Configuration for TSF info wifi_tsf_info_t
5.10.5.26 wlan_mgmt_frame_t
typedef wifi_mgmt_frame_t wlan_mgmt_frame_t
```



5.10 wlan.h File Reference 385

```
5.10.5.27 wlan_csi_config_params_t
typedef wifi_csi_config_params_t wlan_csi_config_params_t
Configuration for Csi Config Params from wifi_csi_config_params_t
5.10.5.28 wlan_indrst_cfg_t
typedef wifi_indrst_cfg_t wlan_indrst_cfg_t
Configuration for GPIO independent reset wifi_indrst_cfg_t
5.10.5.29 wlan_txrate_setting
typedef txrate_setting wlan_txrate_setting
Configuration for TX Rate Setting from txrate_setting
5.10.5.30 wlan_rssi_info_t
typedef wifi_rssi_info_t wlan_rssi_info_t
Configuration for RSSI information wifi_rssi_info_t
5.10.5.31 wlan_uap_client_disassoc_t
typedef wifi_uap_client_disassoc_t wlan_uap_client_disassoc_t
5.10.6 Enumeration Type Documentation
5.10.6.1 IEEEtypes_Bss_t
enum IEEEtypes_Bss_t
Enumerator
  BSS_INFRASTRUCTURE
      BSS_INDEPENDENT
                BSS_ANY
```



5.10.6.2 wm_wlan_errno

enum wm_wlan_errno

Enum for wlan errors

Enumerator

WM_E_WLAN_ERRNO_BASE		
WLAN_ERROR_FW_DNLD_FAILED	The Firmware download operation failed.	
WLAN_ERROR_FW_NOT_READY	The Firmware ready register not set.	
WLAN_ERROR_CARD_NOT_DETECTED	The WiFi card not found.	
WLAN_ERROR_FW_NOT_DETECTED	The WiFi Firmware not found.	
WLAN_BSSID_NOT_FOUND_IN_SCAN_LIST	BSSID not found in scan list	

5.10.6.3 wlan_event_reason

enum wlan_event_reason

WLAN Connection Manager event reason

Enumerator

MI ANI DEACONI CUCCECC	The MILANI Commention Management to the Comment
WLAN_REASON_SUCCESS	The WLAN Connection Manager has successfully
	connected to a network and is now in the
	WLAN_CONNECTED state.
WLAN_REASON_AUTH_SUCCESS	The WLAN Connection Manager has successfully
	authenticated to a network and is now in the
	WLAN_ASSOCIATED state.
WLAN_REASON_CONNECT_FAILED	The WLAN Connection Manager failed to connect
	before actual connection attempt with AP due to
	incorrect wlan network profile. or The WLAN
	Connection Manager failed to reconnect to previously
	connected network and it is now in the
	WLAN_DISCONNECTED state.
WLAN_REASON_NETWORK_NOT_FOUND	The WLAN Connection Manager could not find the
	network that it was connecting to and it is now in the
	WLAN_DISCONNECTED state.
WLAN REASON BGSCAN NETWORK NOT F↔	The WLAN Connection Manager could not find the
OUND	network in bg scan during roam attempt that it was
	connecting to and it is now in the
	WLAN_CONNECTED state with previous AP.
WLAN REASON NETWORK AUTH FAILED	The WLAN Connection Manager failed to authenticate
	with the network and is now in the
	WLAN DISCONNECTED state.
WLAN_REASON_ADDRESS_SUCCESS	DHCP lease has been renewed.
WLAN_REASON_ADDRESS_FAILED	The WLAN Connection Manager failed to obtain an IP
	address or TCP stack configuration has failed or the
	IP address configuration was lost due to a DHCP
	error. The system is now in the
	WLAN DISCONNECTED state.
	_



5.10 wlan.h File Reference 387

Enumerator

WLAN REASON LINK LOST	The WLAN Connection Manager has lost the link to	
	the current network.	
WLAN_REASON_CHAN_SWITCH	The WLAN Connection Manager has received the channel switch announcement from the current network.	
WLAN_REASON_WPS_DISCONNECT	The WLAN Connection Manager has disconnected from the WPS network (or has canceled a connection attempt) by request and is now in the WLAN_DISCONNECTED state.	
WLAN_REASON_USER_DISCONNECT	The WLAN Connection Manager has disconnected from the current network (or has canceled a connection attempt) by request and is now in the WLAN_DISCONNECTED state.	
WLAN_REASON_INITIALIZED	The WLAN Connection Manager is initialized and is ready for use. That is, it's now possible to scan or to connect to a network.	
WLAN_REASON_INITIALIZATION_FAILED	The WLAN Connection Manager has failed to initialize and is therefore not running. It is not possible to scan or to connect to a network. The WLAN Connection Manager should be stopped and started again via wlan_stop() and wlan_start() respectively.	
WLAN_REASON_FW_HANG	The WLAN Connection Manager has entered in hang mode. The WLAN Connection Manager has reset fw successfully.	
WLAN_REASON_FW_RESET		
WLAN_REASON_PS_ENTER	The WLAN Connection Manager has entered power save mode.	
WLAN_REASON_PS_EXIT	The WLAN Connection Manager has exited from power save mode.	
WLAN_REASON_UAP_SUCCESS	The WLAN Connection Manager has started uAP	
WLAN_REASON_UAP_CLIENT_ASSOC	A wireless client has joined uAP's BSS network	
WLAN_REASON_UAP_CLIENT_CONN	A wireless client has auhtenticated and connected to uAP's BSS network	
WLAN_REASON_UAP_CLIENT_DISSOC	A wireless client has left uAP's BSS network	
WLAN_REASON_UAP_START_FAILED The WLAN Connection Manager has failed uAP		
WLAN_REASON_UAP_STOP_FAILED	The WLAN Connection Manager has failed to stop uAP	
WLAN_REASON_UAP_STOPPED	The WLAN Connection Manager has stopped uAP	
WLAN_REASON_RSSI_LOW	The WLAN Connection Manager has received subscribed RSSI low event on station interface as per configured threshold and frequency. If CONFIG_11K, CONFIG_11V, CONFIG_11R or CONFIG_ROAMING enabled then RSSI low event is processed internally.	

5.10.6.4 wlan_wakeup_event_t

enum wlan_wakeup_event_t

Wakeup events for which wakeup will occur



Enumerator

WAKE_ON_ALL_BROADCAST	Wakeup on broadcast
WAKE_ON_UNICAST	Wakeup on unicast
WAKE_ON_MAC_EVENT	Wakeup on MAC event
WAKE_ON_MULTICAST	Wakeup on multicast
WAKE_ON_ARP_BROADCAST	Wakeup on ARP broadcast
WAKE_ON_MGMT_FRAME	Wakeup on receiving a management frame

5.10.6.5 wlan_connection_state

enum wlan_connection_state

WLAN station/micro-AP/Wi-Fi Direct Connection/Status state

Enumerator

WLAN_DISCONNECTED	The WLAN Connection Manager is not connected and no connection attempt is in progress. It is possible to connect to a network or scan.
WLAN_CONNECTING	The WLAN Connection Manager is not connected but it is currently attempting to connect to a network. It is not possible to scan at this time. It is possible to connect to a different network.
WLAN_ASSOCIATED	The WLAN Connection Manager is not connected but associated.
WLAN_AUTHENTICATED	The WLAN Connection Manager is not connected but authenticated.
WLAN_CONNECTED	The WLAN Connection Manager is connected. It is possible to scan and connect to another network at this time. Information about the current network configuration is available.
WLAN_UAP_STARTED	The WLAN Connection Manager has started uAP
WLAN_UAP_STOPPED	The WLAN Connection Manager has stopped uAP
WLAN_SCANNING	The WLAN Connection Manager is not connected and network scan is in progress.
WLAN_ASSOCIATING	The WLAN Connection Manager is not connected and network association is in progress.

5.10.6.6 wlan_ps_mode

enum wlan_ps_mode

Station Power save mode

Enumerator

WLAN_ACTIVE	Active mode
WLAN_IEEE	IEEE power save mode
WLAN_DEEP_SLEEP	Deep sleep power save mode



5.10 wlan.h File Reference 389

Enumerator

WLAN_IEEE_DEEP_SLEEP	IEEE and Deep sleep power save mode
WLAN_WNM	WNM power save mode
WLAN_WNM_DEEP_SLEEP	WNM and Deep sleep power save mode

5.10.6.7 wlan_ps_state

enum wlan_ps_state

Enumerator

PS_STATE_AWAKE	
PS_STATE_PRE_SLEEP	
PS_STATE_SLEEP_CFM	
PS_STATE_SLEEP	

5.10.6.8 ENH_PS_MODES

enum ENH_PS_MODES

Enumerator

GET_PS	
SLEEP_CONFIRM	
EXT_PS_PARAM	
DIS_WNM_PS	
EN_WNM_PS	
DIS_AUTO_PS	
EN_AUTO_PS	

5.10.6.9 Host_Sleep_Action

enum Host_Sleep_Action

Enumerator

HS_CONFIGURE
HS_ACTIVATE



5.10.6.10 wlan_csi_opt

enum wlan_csi_opt

Enumerator

	CSI_FILTER_OPT_ADD	
	CSI_FILTER_OPT_DELETE	
	CSI_FILTER_OPT_CLEAR	
ĺ	CSI_FILTER_OPT_DUMP	

5.10.6.11 wlan_monitor_opt

enum wlan_monitor_opt

Enumerator

	MONITOR_FILTER_OPT_ADD_MAC	
	MONITOR_FILTER_OPT_DELETE_MAC	
	MONITOR_FILTER_OPT_CLEAR_MAC	
ĺ	MONITOR_FILTER_OPT_DUMP	

5.10.6.12 ChanBand_e

enum ChanBand_e

Enumerator

Band_2_4_GHz	
Band_5_GHz	
Band 4 GHz	

5.10.6.13 ChanWidth_e

enum ChanWidth_e



5.10 wlan.h File Reference 391

Enumerator

ChanWidth_20_MHz	
ChanWidth_10_MHz	
ChanWidth_40_MHz	
ChanWidth_80_MHz	

5.10.6.14 Chan2Offset_e

enum Chan2Offset_e

Enumerator

SECONDARY_CHAN_NONE	
SECONDARY_CHAN_ABOVE	
SECONDARY_CHAN_BELOW	

5.10.6.15 ScanMode_e

enum ScanMode_e

Enumerator

MANUAL_MODE	
ACS MODE	

5.10.6.16 wlan_security_type

enum wlan_security_type

Network security types

Enumerator

WLAN_SECURITY_NONE	The network does not use security.
WLAN_SECURITY_WEP_OPEN	The network uses WEP security with open key.
WLAN_SECURITY_WEP_SHARED	The network uses WEP security with shared key.
WLAN_SECURITY_WPA	The network uses WPA security with PSK.
WLAN_SECURITY_WPA2	The network uses WPA2 security with PSK.
WLAN_SECURITY_WPA_WPA2_MIXED	The network uses WPA/WPA2 mixed security with PSK
WLAN_SECURITY_WPA2_FT	The network uses WPA2 security with PSK FT.



Enumerator

WLAN_SECURITY_WPA3_SAE	The network uses WPA3 security with SAE.
WLAN_SECURITY_WPA3_FT_SAE	The network uses WPA3 security with SAE FT.
WLAN_SECURITY_WPA3_SAE_EXT_KEY	The network uses WPA3 security with SAE EXT KEY.
WLAN_SECURITY_WPA2_WPA3_SAE_MIXED	The network uses WPA2/WPA3 SAE mixed security with PSK.
WLAN_SECURITY_EAP_TLS	The network uses WPA2 Enterprise EAP-TLS security The identity field in wlan_network structure is used
WLAN_SECURITY_EAP_TLS_SHA256	The network uses WPA2 Enterprise EAP-TLS SHA256 security The identity field in wlan_network structure is used
WLAN_SECURITY_EAP_TLS_FT	The network uses WPA2 Enterprise EAP-TLS FT security The identity field in wlan_network structure is used
WLAN_SECURITY_EAP_TLS_FT_SHA384	The network uses WPA2 Enterprise EAP-TLS FT SHA384 security The identity field in wlan_network structure is used
WLAN_SECURITY_EAP_TTLS	The network uses WPA2 Enterprise EAP-TTLS security The identity field in wlan_network structure is used
WLAN_SECURITY_EAP_TTLS_MSCHAPV2	The network uses WPA2 Enterprise EAP-TTLS-MSCHAPV2 security The anonymous identity, identity and password fields in wlan_network structure are used
WLAN_SECURITY_EAP_PEAP_MSCHAPV2	The network uses WPA2 Enterprise EAP-PEAP-MSCHAPV2 security The anonymous identity, identity and password fields in wlan_network structure are used
WLAN_SECURITY_EAP_PEAP_TLS	The network uses WPA2 Enterprise EAP-PEAP-TLS security The anonymous identity, identity and password fields in wlan_network structure are used
WLAN_SECURITY_EAP_PEAP_GTC	The network uses WPA2 Enterprise EAP-PEAP-GTC security The anonymous identity, identity and password fields in wlan_network structure are used
WLAN_SECURITY_EAP_FAST_MSCHAPV2	The network uses WPA2 Enterprise EAP-FAST-MSCHAPV2 security The anonymous identity, identity and password fields in wlan_network structure are used
WLAN_SECURITY_EAP_FAST_GTC	The network uses WPA2 Enterprise EAP-FAST-GTC security The anonymous identity, identity and password fields in wlan_network structure are used
WLAN_SECURITY_EAP_SIM	The network uses WPA2 Enterprise EAP-SIM security The identity and password fields in wlan_network structure are used
WLAN_SECURITY_EAP_AKA	The network uses WPA2 Enterprise EAP-AKA security The identity and password fields in wlan_network structure are used
WLAN_SECURITY_EAP_AKA_PRIME	The network uses WPA2 Enterprise EAP-AKA-PRIME security The identity and password fields in wlan_network structure are used
WLAN_SECURITY_DPP	The network uses DPP security with NAK(Net Access Key)
WLAN_SECURITY_WILDCARD	The network can use any security method. This is often used when the user only knows the name and passphrase but not the security type.



5.10.6.17 eap_tls_cipher_type

enum eap_tls_cipher_type

EAP TLS Cipher types

Enumerator

EAP_TLS_NONE	
EAP_TLS_ECC_P384	EAP TLS with ECDH & ECDSA with p384
EAP_TLS_RSA_3K	EAP TLS with ECDH & RSA with > 3K

5.10.6.18 address_types

enum address_types

Address types to be used by the element wlan_ip_config.addr_type below

Enumerator

ADDR_TYPE_STATIC	static IP address
ADDR_TYPE_DHCP	Dynamic IP address
ADDR_TYPE_LLA	Link level address

5.10.6.19 wlan_mef_type

enum wlan_mef_type

Enumerator

MEF_TYPE_DELETE	
MEF_TYPE_PING	
MEF_TYPE_ARP	
MEF_TYPE_MULTICAST	
MEF_TYPE_IPV6_NS	
MEF_TYPE_END	

5.11 wlan_11d.h File Reference

WLAN module 11d API.



5.11.1 Function Documentation

5.11.1.1 wlan_enable_11d()

Enable 11D support in WLAN Driver.

Note

This API should be called after WLAN is initialized but before starting uAP or making any connection attempts on station interface.

Parameters

```
in state 1: enable, 0: disable
```

Returns

-WM_FAIL if operation was failed.
WM_SUCCESS if operation was successful.

5.11.1.2 wlan_enable_uap_11d()

Enable 11D support in WLAN Driver for uap interface.

Note

This API should be called after WLAN is initialized but before starting uAP or making any connection attempts on station interface.

Parameters

in state	1: enable, 0: disable
----------	-----------------------

Returns

-WM_FAIL if operation was failed.WM_SUCCESS if operation was successful.



5.12 wlan_tests.h File Reference

WLAN Connection Manager Tests.

5.12.1 Function Documentation

5.12.1.1 test_wlan_cfg_process()

5.12.1.2 print_txpwrlimit()

Print the TX PWR Limit table received from Wi-Fi firmware

Parameters

in txpwrlimit A wlan_txpwrlimit_t struct holding the the TX PWR Limit table received from Wi-Fi firmware.

5.12.2 Enumeration Type Documentation

5.12.2.1 anonymous enum

anonymous enum

Enumerator

TEST_WLAN_11AX_CFG	
TEST_WLAN_BCAST_TWT	
TEST_WLAN_TWT_SETUP	
TEST_WLAN_TWT_TEARDOWN	



5.13 wm_net.h File Reference

Network Abstraction Layer.

5.13.1 Detailed Description

This provides the calls related to the network layer.

5.13.2 Function Documentation

```
5.13.2.1 net_dhcp_hostname_set()
```

Set hostname for network interface

Parameters

	in	hostname	Hostname to be set.
--	----	----------	---------------------

Note

NULL is a valid value for hostname.

Returns

WM_SUCESS

5.13.2.2 net_stop_dhcp_timer()

```
\begin{tabular}{ll} \beg
```

Deactivate the dhcp timer

5.13.2.3 net_socket_blocking()

Set socket blocking option as on or off



Parameters

in	sock	socket number to be set for blocking option.
in	state	set blocking on or off

Returns

WM_SUCESS otherwise standard LWIP error codes.

5.13.2.4 net_get_sock_error()

Get error number from provided socket

Parameters

in	sock	socket number to get error number.
----	------	------------------------------------

Returns

error number.

5.13.2.5 net_inet_aton()

```
static uint32_t net_inet_aton (  {\rm const~char} \ *\ cp\ ) \quad [{\rm inline}] \mbox{, [static]}
```

Converts Internet host address from the IPv4 dotted-decimal notation into binary form (in network byte order)

Parameters

in	ср	IPv4 host address in dotted-decimal notation.
----	----	---

Returns

IPv4 address in binary form



5.13.2.6 net_wlan_set_mac_address()

set MAC hardware address to lwip network interface

Parameters

in	stamac	sta MAC address.
in	иартас	uap MAC address.

5.13.2.7 net_stack_buffer_skip()

Skip a number of bytes at the start of a stack buffer

Parameters

in	buf	input stack buffer.
in	in_offset	offset to skip.

Returns

the payload pointer after skip a number of bytes

5.13.2.8 net_inet_ntoa()

```
static void net_inet_ntoa (
          unsigned long addr,
          char * cp ) [inline], [static]
```

Converts Internet host address in network byte order to a string in IPv4 dotted-decimal notation

Parameters

in	addr	IP address in network byte order.
out	ср	buffer in which IPv4 dotted-decimal string is returned.



5.13.2.9 net_sock_to_interface()

```
void* net_sock_to_interface ( int \ sock \ )
```

Get interface handle from socket descriptor

Given a socket descriptor this API returns which interface it is bound with.

Parameters

in so	ock sock	et descriptor
-------	----------	---------------

Returns

[out] interface handle

5.13.2.10 net_wlan_init()

Initialize TCP/IP networking stack

Returns

WM_SUCCESS on success -WM_FAIL otherwise

5.13.2.11 net_wlan_deinit()

DiInitialize TCP/IP networking stack

Returns

WM_SUCCESS on success -WM_FAIL otherwise



5.13.2.12 net_get_sta_interface()

Get STA interface netif structure pointer

A pointer to STA interface netif structure

5.13.2.13 net_get_uap_interface()

Get uAP interface netif structure pointer

A pointer to uAP interface netif structure

5.13.2.14 net_alloc_client_data_id()

```
int net_alloc_client_data_id ( )
```

Get client data index for storing private data in * netif.

Returns

allocated client data index, -1 if error or not supported.

5.13.2.15 net_get_sta_handle()

Get station interface handle

Some APIs require the interface handle to be passed to them. The handle can be retrieved using this API.

Returns

station interface handle



5.13.2.16 net_get_uap_handle()

Get micro-AP interface handle

Some APIs require the interface handle to be passed to them. The handle can be retrieved using this API.

Returns

micro-AP interface handle

5.13.2.17 net_interface_up()

Take interface up

Change interface state to up. Use net_get_sta_handle(), net_get_uap_handle() to get interface handle.

Parameters

in intrfc_handle	interface handle
------------------	------------------

Returns

void

5.13.2.18 net_interface_down()

Take interface down

Change interface state to down. Use net_get_uap_handle() to get interface handle.

Parameters

in intrfc handle interface handle



Returns

void

5.13.2.19 net_interface_dhcp_stop()

Stop DHCP client on given interface

Stop the DHCP client on given interface state. Use net_get_sta_handle(), net_get_uap_handle() to get interface handle.

Parameters

in	intrfc_handle	interface handle
----	---------------	------------------

Returns

void

5.13.2.20 net_interface_dhcp_cleanup()

Cleanup DHCP client on given interface

Cleanup the DHCP client on given interface state. Use net_get_sta_handle(), net_get_uap_handle() to get interface handle.

Parameters

in	intrfc_handle	interface handle
----	---------------	------------------

5.13.2.21 net_configure_address()

Configure IP address for interface



Parameters

in	addr	Address that needs to be configured.
in	intrfc_handle	Handle for network interface to be configured.

Returns

WM_SUCCESS on success or an error code.

5.13.2.22 net_configure_dns()

Configure DNS server address

Parameters

in	ip	IP address of the DNS server to set
in	role	Network wireless BSS Role

5.13.2.23 net_get_if_addr()

Get interface IP Address in net_ip_config

This function will get the IP address of a given interface. Use net_get_uap_handle() to get interface handle.

Parameters

out	addr	net_ip_config
in	intrfc_handle	interface handle

Returns

WM_SUCCESS on success or error code.



5.13.2.24 net_get_if_ipv6_addr()

Get interface IPv6 Addresses & their states in net_ip_config

This function will get the IPv6 addresses & address states of a given interface. Use net_get_sta_handle() to get interface handle.

Parameters

out	addr	net_ip_config
in	intrfc_handle	interface handle

Returns

WM SUCCESS on success or error code.

5.13.2.25 net_get_if_ipv6_pref_addr()

Get list of preferred IPv6 Addresses of a given interface in net_ip_config

This function will get the list of IPv6 addresses whose address state is Preferred. Use net_get_sta_handle() to get interface handle.

Parameters

out	addr	net_ip_config	
in	intrfc_handle	interface handle	

Returns

Number of IPv6 addresses whose address state is Preferred

5.13.2.26 ipv6_addr_state_to_desc()

Get the description of IPv6 address state

This function will get the IPv6 address state description like - Invalid, Preferred, Deprecated



Parameters

in <i>addr_state</i> Address state
--

Returns

IPv6 address state description

5.13.2.27 ipv6_addr_addr_to_desc()

Get the description of IPv6 address

This function will get the IPv6 address type description like - Linklocal, Global, Sitelocal, Uniquelocal

Parameters

in	ipv6_conf	Pointer to IPv6 configuration of type net_ipv6_config
----	-----------	---

Returns

IPv6 address description

5.13.2.28 ipv6_addr_type_to_desc()

Get the description of IPv6 address type

This function will get the IPv6 address type description like - Linklocal, Global, Sitelocal, Uniquelocal

Parameters

in ipv6_conf Pointer to IPv6 configuration of type	net_ipv6_config
--	-----------------

Returns

IPv6 address type description



5.13.2.29 net_get_if_name()

Get interface Name string containing name and number

This function will get the string containing name and number for given interface. Use net_get_sta_handle(), net_eget_uap_handle() to get interface handle.

Parameters

out	if_name	interface name pointer
in	intrfc_handle	interface handle

Returns

WM_SUCCESS on success or error code.

5.13.2.30 net_get_if_ip_addr()

Get interface IP Address

This function will get the IP Address of a given interface. Use net_get_uap_handle() to get interface handle.

Parameters

out	ip	ip address pointer
in	intrfc_handle	interface handle

Returns

WM_SUCCESS on success or error code.

5.13.2.31 net_get_if_ip_mask()



Get interface IP Subnet-Mask

This function will get the Subnet-Mask of a given interface. Use net_get_sta_handle(), net_get_uap_handle() to get interface handle.



Parameters

in	mask	Subnet Mask pointer
in	intrfc_handle	interface

Returns

WM_SUCCESS on success or error code.

5.13.2.32 net_ipv4stack_init()

Initialize the network stack

This function initializes the network stack. This function is called by wlan_start().

Applications may optionally call this function directly: if they wish to use the networking stack (loopback interface) without the wlan functionality. if they wish to initialize the networking stack even before wlan comes up.

Note

This function may safely be called multiple times.

5.13.2.33 net_stat()

```
void net_stat (
     void )
```

Display network statistics

5.13.3 Macro Documentation

5.13.3.1 NET_SUCCESS

#define NET_SUCCESS WM_SUCCESS



5.13.3.2 NET_ERROR

```
#define NET_ERROR (-WM_FAIL)
```

5.13.3.3 NET_ENOBUFS

#define NET_ENOBUFS ENOBUFS

5.13.3.4 NET_BLOCKING_OFF

```
#define NET_BLOCKING_OFF 1
```

5.13.3.5 NET_BLOCKING_ON

```
#define NET_BLOCKING_ON 0
```

5.13.3.6 net_socket

5.13.3.7 net_select



5.13.3.8 net_bind

5.13.3.9 net_listen

5.13.3.10 net_close

5.13.3.11 net_accept

5.13.3.12 net_shutdown

5.13.3.13 net_connect



5.13.3.14 net_read

5.13.3.15 net_write

5.13.3.16 net_get_mlan_handle

```
#define net_get_mlan_handle() net_get_sta_handle()
```

5.13.4 Enumeration Type Documentation

5.13.4.1 net_address_types

```
enum net_address_types
```

Enumerator

NET_ADDR_TYPE_STATIC	static IP address
NET_ADDR_TYPE_DHCP	Dynamic IP address
NET_ADDR_TYPE_LLA	Link level address

5.14 wm_utils.h File Reference

Utility functions.

5.14.1 Detailed Description

Collection of some common helper functions



5.14.2 Function Documentation

5.14.2.1 wmpanic()

```
NORETURN void wmpanic ( void )
```

5.14.2.2 wm_hex2bin()

Convert a given hex string to a equivalent binary representation.

E.g. If your input string of 4 bytes is {'F', 'F', 'F', 'F'} the output string will be of 2 bytes {255, 255} or to put the same in other way {0xFF, 0xFF}

Note that hex2bin is not the same as strtoul as the latter will properly return the integer in the correct machine binary format viz. little endian. hex2bin however does only in-place like replacement of two ASCII characters to one binary number taking 1 byte in memory.

Parameters

in	ibuf	input buffer
out	obuf	output buffer
in	max_olen	Maximum output buffer length

Returns

length of the binary string

5.14.2.3 wm_bin2hex()

Convert given binary array to equivalent hex representation.



Parameters

in	src	Input buffer
out	dest	Output buffer
in	src_len	Length of the input buffer
in	dest_len	Length of the output buffer

5.14.2.4 random_register_handler()

Register a random entropy generator handler

This API allows applications to register their own random entropy generator handlers that will be internally used by get_random_sequence() to add even more randomization to the byte stream generated by it.

Parameters

in	func	Function pointer of type
		random_hdlr_t

Returns

WM SUCCESS if successful

-WM_E_NOSPC if there is no space available for additional handlers

5.14.2.5 random_unregister_handler()

Un-register a random entropy generator handler

This API can be used to un-register a handler registered using random_register_handler()

Parameters

in	func	Function pointer of type random_hdlr_t used during registering
----	------	--

Returns

WM_SUCCESS if successful -WM_E_INVAL if the passed pointer is invalid



5.14.2.6 random_register_seed_handler()

Register a random seed generator handler

For getting better random numbers, the initial seed (ideally required only once on every boot) should also be random. This API allows applications to register their own seed generators. Applications can use any logic such that a different seed is generated every time. A sample seed generator which uses a combination of DAC (generating random noise) and ADC (that internally samples the random noise) along with the flash id has already been provided. Please have a look at sample_initialise_random_seed().

The seed generator handler is called only once by the get_random_sequence() function. Applications can also explicitly initialize the seed by calling random_initialize_seed() after registering a handler.

Parameters

in	func	Function pointer of type
		random_hdlr_t

Returns

WM_SUCCESS if successful -WM_E_NOSPC if there is no space available for additional handlers

5.14.2.7 random_unregister_seed_handler()

Un-register a random seed generator handler

This API can be used to un-register a handler registered using random_register_seed_handler()

Parameters

in	func	Function pointer of type random_hdlr_t used during registering
----	------	--

Returns

WM_SUCCESS if successful -WM_E_INVAL if the passed pointer is invalid

5.14.2.8 random_initialize_seed()



Initialize the random number generator's seed

The get_random_sequence() uses a random number generator that is initialized with a seed when get_random_ compared by sequence() is called for the first time. The handlers registered using random_register_seed_handler() are used to generate the seed. If an application wants to explicitly initialize the seed, this API can be used. The seed will then not be re-initialized in get_random_sequence().

5.14.2.9 sample_initialise_random_seed()

Sample random seed generator

This is a sample random seed generator handler that can be registered using random_register_seed_handler() to generate a random seed. This uses a combination of DAC (generating random noise) and ADC (that internally samples the random noise) along with the flash id to generate a seed. It is recommended to register this handler and immediately call random_initialize_seed() before executing any other application code, especially if the application is going to use ADC/DAC for its own purpose.

Returns

Random seed

5.14.2.10 get_random_sequence()

Generate random sequence of bytes

This function generates random sequence of bytes in the user provided buffer.

Parameters

out	buf	The buffer to be populated with random data
in	size	The number of bytes of the random sequence required

5.14.2.11 wm_frac_part_of()



5.14.2.12 strdup()

```
\label{eq:char*} \mbox{char* strdup (} \\ \mbox{const char * $s$ )}
```

Returns a pointer to a new string which is a duplicate of the input string s. Memory for the new string is obtained allocated by the function.

It is caller's responsibility to free the memory after its use.

Parameters

in s Pointer to string to I	be duplicated
-----------------------------	---------------

Returns

Pointer to newly allocated string which is duplicate of input string NULL on error

5.14.2.13 soft_crc32()

Calculate CRC32 using software algorithm

Precondition

```
soft_crc32_init()
```

soft_crc32() allows the user to calculate CRC32 values of arbitrary sized buffers across multiple calls.

Parameters

in	data	Input buffer over which CRC32 is calculated.
in	data_size	Length of the input buffer.
in	crc	Previous CRC32 value used as starting point for given buffer calculation.

Returns

Calculated CRC32 value



5.14.2.14 wm_strtof()

5.14.2.15 fill_sequential_pattern()

Fill the given buffer with a sequential pattern starting from given byte.

For example, if the 'first_byte' is 0x45 and buffer size of 5 then buffer will be set to {0x45, 0x46, 0x47, 0x48, 0x49}

Parameters

in	buffer	The pattern will be set to this buffer.
in	size	Number of pattern bytes to the be written to the buffer.
in	first_byte	This is the value of first byte in the sequential pattern.

5.14.2.16 verify_sequential_pattern()

Verify if the the given buffer has a sequential pattern starting from given byte.

For example, if the 'first_byte' is 0x45 and buffer size of 5 then buffer will be verified for presence of {0x45, 0x46, 0x47, 0x48, 0x49}

Parameters

in	buffer	The pattern will be verified from this buffer.
in	size	Number of pattern bytes to the be verified from the buffer.
in	first_byte	This is the value of first byte in the sequential pattern.

Returns

'true' If verification successful. 'false' If verification fails.



5.14.3 Macro Documentation

5.14.3.1 ffs

```
\verb|#define ffs \lldots builtin_ffs|
```

5.14.3.2 WARN_UNUSED_RET

```
#define WARN_UNUSED_RET
```

5.14.3.3 PACK_START

```
#define PACK_START __packed
```

5.14.3.4 PACK_END

#define PACK_END

5.14.3.5 NORETURN

#define NORETURN

5.14.3.6 __WM_ALIGN__



5.14.3.7 WM_MASK

```
#define WM_MASK( num, \\ mask \ ) \ ((num + mask) \ \& \ \sim (mask))
```

5.14.3.8 dump_hex

```
#define dump_hex(
```

Value:

5.14.3.9 dump_hex_ascii

Value:

5.14.3.10 dump_ascii

Value:



420 File Documentation

5.14.3.11 print_ascii

```
#define print_ascii(
... )
```

Value:

5.14.3.12 dump_json

```
#define dump_json(
    ... )
```

Value:

5.14.3.13 wm_int_part_of

```
#define wm_int_part_of(
     x ) ((int)(x))
```

5.14.4 Typedef Documentation

5.14.4.1 random_hdlr_t

```
typedef uint32_t(* random_hdlr_t) (void)
```

Function prototype for a random entropy/seed generator

Returns

a 32bit random number



Index

_Cipher_t, 9	ACTION_GET
aes 128 cmac, 10	wlan.h, 368
bip cmac 256, 11	ACTION_SET
bip_gmac_128, 11	wlan.h, 368
bip_gmac_256, 11	ARG UNUSED
ccmp, 10	wlan.h, 367
ccmp_256, 10	acs band
gcmp, 10	wlan_network, 124
gcmp_256, 10	act_sub_ch
gtk not used, 11	wifi_mfg_cmd_tx_cont_t, 73
none, 9	wifi_mfg_cmd_tx_frame_t, 76
rsvd, 11	action
rsvd2, 11	wifi_btwt_config_t, 35
sms4, 10	wifi_mef_entry_t, 60
tkip, 10	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67
wep104, 10	
wep40, 9	wifi_mfg_cmd_generic_cfg_t, 64
_SecurityMode_t, 12	wifi_mfg_cmd_he_tb_tx_t, 65
ft_1x, 13	wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69
ft_1x_sha384, 14	wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71
ft_psk, 14	wifi_mfg_cmd_tx_cont_t, 72
ft_sae, 14	wifi_mfg_cmd_tx_frame_t, 74
noRsn, 12	wnm_sleep_result_t, 150
owe, 13	addr1
rsvd, 14	wifi_mgmt_frame_t, 79
wepDynamic, 12	addr2
wepStatic, 12	wifi_mgmt_frame_t, 79
wpa, 12	addr3
wpa2, 13	wifi_mgmt_frame_t, 79
wpa2_entp, 13	addr4
wpa2_entp_sha256, 13	wifi_mgmt_frame_t, 79
wpa2_sha256, 13	addr_state
wpa3_1x_sha256, 14	ipv6_config, 22
wpa3_1x_sha384, 14	net_ipv6_config, 25
wpa3_sae, 13	addr_type
wpaNone, 13	ipv4_config, 20
WM_ALIGN	ipv6_config, 22
wm utils.h, 418	net_ipv4_config, 23
_rw_lock	net_ipv6_config, 25
OSA MUTEX HANDLE DEFINE, 25, 26	address
OSA_SEMAPHORE_HANDLE_DEFINE, 26	ipv4_config, 20
reader cb, 26	ipv6_config, 21
reader_count, 26	net_ipv4_config, 23
wifi set mac addr	net_ipv6_config, 25
wifi.h, 196	address_types
	wlan.h, 393
A ID MAX LENGTH	adhoc_awake_period
wlan.h, 370	wlan_ieeeps_config, 120
a id	adjust burst sifs
wlan network security, 137	wifi mfg cmd tx frame t. 75



adv coding	chanWidth, 15
txrate_setting, 30	scanMode, 15
wifi_mfg_cmd_tx_frame_t, 76	bandcfg
aes_128_cmac	wifi_remain_on_channel_t, 84
_Cipher_t, 10	bandwidth
wlan_cipher, 117	txrate_setting, 29
aid	basic_trig_user_info
wifi_mfg_cmd_he_tb_tx_t, 66	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 69
alloc_cnt	bcn miss timeout
wifi_os_mem_info, 81	wlan_ieeeps_config, 120
announced	bcn_nf_avg
wifi_twt_setup_config_t, 108	wifi_rssi_info_t, 87
anonymous_identity	bcn_nf_last
wlan_network_security, 133	wifi_rssi_info_t, 87
ant_mode	bcn_rssi_avg
wifi_antcfg_t, 32	wifi_rssi_info_t, 87
ap_mfpc	bcn rssi last
wifi scan result2, 97	
wlan scan result, 149	wifi_rssi_info_t, 87
ap_mfpr	bcn_snr_avg wifi rssi info t, 87
wifi_scan_result2, 97	
wlan_scan_result, 149	bcn_snr_last
ap_pwe	wifi_rssi_info_t, 86
wifi_scan_result2, 97	beacon_period
wlan_scan_result, 149	wifi_scan_result2, 96
avg_tbtt_offset	wlan_network, 127
wifi_tbtt_offset_t, 103	wlan_scan_result, 149
axq_mu_timer	BeamChange
wifi_mfg_cmd_he_tb_tx_t, 66	wifi_mfg_cmd_tx_frame_t, 77
9_066	binCounter
BAND_SPECIFIED	Event_Radar_Detected_Info, 19
wifi-decl.h, 179	bip_cmac_256
BANDWIDTH_20MHZ	_Cipher_t, 11
wifi.h, 233	wlan_cipher, 118
BANDWIDTH_40MHZ	bip_gmac_128
wifi.h, 233	_Cipher_t, 11
BANDWIDTH_80MHZ	wlan_cipher, 118
wifi.h, 233	bip_gmac_256
BEACON_REPORT_BUF_SIZE	_Cipher_t, 11
wifi.h, 234	wlan_cipher, 118
BIN_COUNTER_LEN	bits_field
wlan.h, 378	wlan_rrm_beacon_report_data, 141
BIT	bss_transition_supported
wifi-decl.h, 174	wifi_scan_result2, 99
BSS_TYPE_STA	wlan_network, 127
wifi-decl.h, 173	wlan_scan_result, 149
BSS_TYPE_UAP	bss_type
wifi-decl.h, 173	wifi_csi_config_params_t, 45
band	wifi_ecsa_info, 52
wifi_11ax_config_t, 31	wifi_scan_params_t, 92
wifi_scan_result2, 98	bssid
band_config	wifi_mfg_cmd_tx_frame_t, 75
wifi_csi_config_params_t, 46	wifi_scan_params_t, 91
wifi_ecsa_info, 52	wifi_scan_params_v2_t, 93
bandConfig	wifi_scan_result2, 95
ChanBandInfo_t, 16	wlan_network, 123
BandConfig_t, 15	wlan_nlist_report_param, 139
chan2Offset, 15	wlan_rrm_beacon_report_data, 140
chanBand, 15	wlan_rrm_neighbor_ap_t, 141



wlen seen result 145	oh fn
wlan_scan_result, 145	cb_fn
bssid_specific	osa.h, 171
wlan_network, 125	ccmp
bssidInfo	_Cipher_t, 10
wlan rrm neighbor ap t, 141	wlan_cipher, 117
btm_mode	ccmp_256
wlan_network, 127	_Cipher_t, 10
wlan_nlist_report_param, 139	wlan_cipher, 118
burst_sifs_in_us	chan2Offset
wifi mfg cmd tx frame t, 76	BandConfig t, 15
byte seq	Chan2Offset e
wifi_mef_filter_t, 62	-
wiii_iiiei_iiitei_t; 02	wlan.h, 391
CARD_WAKEUP_GPIO_PIN	chan_desc
	wifi_txpwrlimit_config_t, 112
wlan.h, 372	chan_freq
CONFIG_APP_FRM_CLI_HISTORY	wifi_chan_info_t, 37
cli.h, 155	
CONFIG FW VDLL	chan_info
wifi.h, 232	wifi_chanlist_t, 40
	chan_list
CONFIG_GTK_REKEY_OFFLOAD	wifi_scan_params_v2_t, 93
wifi.h, 232	chan num
CONFIG_STA_AUTO_DHCPV4	wifi_chan_info_t, 37
wifi.h, 231	
CONFIG TCP ACK ENH	wifi_channel_desc_t, 41
wifi.h, 232	wifi_rupwrlimit_config_t, 88
	chan_number
CONFIG_WIFI_AUTO_POWER_SAVE	wifi_chan_scan_param_set_t, 39
wifi.h, 232	wifi_scan_chan_list_t, 90
CONFIG_WIFI_STA_RECONNECT	
wifi.h, 231	wifi_scan_channel_list_t, 91
CONFIG_WLAN_KNOWN_NETWORKS	chan_scan_param
wlan.h, 367	wifi_chan_list_param_set_t, 38
	chan_width
CRITERIA_BROADCAST	wifi_channel_desc_t, 41
wifi-decl.h, 175	
CRITERIA_MULTICAST	chanBand
wifi-decl.h, 176	BandConfig_t, 15
CRITERIA UNICAST	ChanBand_e
wifi-decl.h, 176	wlan.h, 390
	ChanBandInfo t, 15
CSI_FILTER_MAX	bandConfig, 16
wifi-decl.h, 180	-
ca_cert2_data	chanNum, 16
wlan_network_security, 135	chanInfo
ca_cert2_len	wifi_cw_mode_ctrl_t, 48
wlan_network_security, 135	chanNum
	ChanBandInfo_t, 16
ca_cert_data	chanWidth
wlan_network_security, 133	
ca_cert_hash	BandConfig_t, 15
wlan_network_security, 134	ChanWidth_e
ca_cert_len	wlan.h, 390
wlan_network_security, 134	Channel
	wifi_scan_result2, 96
cached	
wifi_cloud_keep_alive_t, 43	channel
cal_data	wifi_csi_config_params_t, 46
wifi_mfg_cmd_otp_cal_data_rd_wr_t, 70	wifi_cw_mode_ctrl_t, 48
cal_data_len	wifi_ecsa_info, 52
wifi_mfg_cmd_otp_cal_data_rd_wr_t, 70	wifi_remain_on_channel_t, 84
cal_data_status	wifi_scan_params_t, 92
wifi_mfg_cmd_otp_cal_data_rd_wr_t, 70	wlan_network, 124
cb	wlan_rrm_beacon_report_data, 140
wifi_scan_params_v2_t, 94	wlan_rrm_neighbor_ap_t, 142



wlan_scan_result, 145	wlan_network_security, 135
channel_num	client_cert_data
wlan_rrm_beacon_report_data, 140	wlan_network_security, 134
channel_specific	client_cert_len
wlan_network, 126	wlan_network_security, 134
channels	client_key2_data
wlan_nlist_report_param, 138	wlan_network_security, 135
chip_id	client_key2_len
wifi_csi_config_params_t, 46	wlan_network_security, 135
clear_event_chanswann	client_key2_passwd
wifi.h, 205	wlan_network_security, 135
cli.h, 151	client_key_data wlan_network_security, 134
CONFIG_APP_FRM_CLI_HISTORY, 155	·
cli_add_history_hook, 155 cli_deinit, 152	client_key_len wlan_network_security, 134
cli_get_cmd_buffer, 154	client_key_passwd
cli_init, 152	wlan_network_security, 134
cli_name_val_get, 155	clock_sync_Role
cli_name_val_get, 155 cli_name_val_set, 155	wifi_clock_sync_gpio_tsf_t, 42
cli_register_command, 151	clock_sync_gpio_level_toggle
cli_register_commands, 153	wifi_clock_sync_gpio_tsf_t, 42
cli_stop, 153	clock_sync_gpio_pin_number
cli_submit_cmd_buffer, 154	wifi_clock_sync_gpio_tsf_t, 42
cli_unregister_command, 152	clock_sync_gpio_pulse_width
cli_unregister_commands, 153	wifi_clock_sync_gpio_tsf_t, 42
help_command, 155	clock_sync_mode
lookup_command, 151	wifi_clock_sync_gpio_tsf_t, 41
cli_add_history_hook	config_bands
cli.h, 155	wifi_bandcfg_t, 34
cli_command, 16	count
function, 16	wifi_sta_list_t, 101
help, 16	criteria
name, 16	
name, 10	wifi_flt_cfg_t, 56
cli_deinit	wiii_rit_crg_t, 56 cs_mode
cli_deinit	cs_mode
cli_deinit cli.h, 152	cs_mode wifi_mfg_cmd_tx_cont_t, 73
cli_deinit cli.h, 152 cli_get_cmd_buffer	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set cli.h, 155	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set cli.h, 155 cli_register_command	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set cli.h, 155 cli_register_command cli.h, 151	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set cli.h, 155 cli_register_command cli.h, 151 cli_register_commands	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set cli.h, 155 cli_register_command cli.h, 151 cli_register_commands cli.h, 153	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46
cli_deinit	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init
cli_deinit	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set cli.h, 155 cli_register_command cli.h, 151 cli_register_commands cli.h, 153 cli_stop cli.h, 153 cli_submit_cmd_buffer	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228 csi_local_buff_statu, 17
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set cli.h, 155 cli_register_command cli.h, 151 cli_register_commands cli.h, 153 cli_stop cli.h, 153 cli_submit_cmd_buffer cli.h, 154	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228 csi_local_buff_statu, 17 OSA_SEMAPHORE_HANDLE_DEFINE, 17
cli_deinit cli.h, 152 cli_get_cmd_buffer cli.h, 154 cli_init cli.h, 152 cli_name_val_get cli.h, 155 cli_name_val_set cli.h, 155 cli_register_command cli.h, 151 cli_register_commands cli.h, 153 cli_stop cli.h, 153 cli_submit_cmd_buffer cli.h, 154 cli_unregister_command	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228 csi_local_buff_statu, 17 OSA_SEMAPHORE_HANDLE_DEFINE, 17 read_index, 17
cli_deinit	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228 csi_local_buff_statu, 17 OSA_SEMAPHORE_HANDLE_DEFINE, 17 read_index, 17 valid_data_cnt, 18
cli_deinit	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228 csi_local_buff_statu, 17 OSA_SEMAPHORE_HANDLE_DEFINE, 17 read_index, 17 valid_data_cnt, 18 write_index, 17
cli_deinit	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228 csi_local_buff_statu, 17 OSA_SEMAPHORE_HANDLE_DEFINE, 17 read_index, 17 valid_data_cnt, 18 write_index, 17 csi_monitor_enable
cli_deinit	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228 csi_local_buff_statu, 17 OSA_SEMAPHORE_HANDLE_DEFINE, 17 read_index, 17 valid_data_cnt, 18 write_index, 17 csi_monitor_enable wifi_csi_config_params_t, 46
cli_deinit	cs_mode wifi_mfg_cmd_tx_cont_t, 73 csi_deliver_data_to_user wifi.h, 228 csi_enable wifi_csi_config_params_t, 45 csi_event_cnt wifi.h, 238 csi_event_data_len wifi.h, 238 csi_filter wifi_csi_config_params_t, 46 csi_filter_cnt wifi_csi_config_params_t, 46 csi_local_buff_init wifi.h, 228 csi_local_buff_statu, 17 OSA_SEMAPHORE_HANDLE_DEFINE, 17 read_index, 17 valid_data_cnt, 18 write_index, 17 csi_monitor_enable



current_antenna	wifi_mfg_cmd_he_tb_tx_t, 66
wifi_antcfg_t, 33	wifi_mfg_cmd_otp_cal_data_rd_wr_t, 70
current_channel	wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71
wifi_rf_channel_t, 85	wifi_mfg_cmd_tx_cont_t, 72
current level	wifi_mfg_cmd_tx_frame_t, 75
wifi_tx_power_t, 111	dfsRecordHdrs
cw mode	Event_Radar_Detected_Info, 19
wifi_mfg_cmd_tx_cont_t, 72	dh data
_ 0 /	wlan network security, 136
DFS_REC_HDR_LEN	dh_len
wlan.h, 378	wlan_network_security, 136
DFS_REC_HDR_NUM	dhcp-server.h, 156
wlan.h, 378	dhcp_enable_dns_server, 157
DOMAIN_MATCH_MAX_LENGTH	dhcp_get_ip_from_mac, 158
wlan.h, 370	dhcp_server_lease_timeout, 158
data	dhcp_server_start, 156
test_cfg_table_t, 28	dhcp_server_start, 156 dhcp_server_stop, 157
wifi_cal_data_t, 37	
wifi_message, 63	dhop_stat, 158
wifi_twt_report_t, 107	dhcpd_cli_deinit, 156
wlan_message, 121	dhcpd_cli_init, 156
data1	MAX_QNAME_SIZE, 159
wifi_mfg_cmd_generic_cfg_t, 64	wm_dhcpd_errno, 159
data2	dhcp_enable_dns_server
wifi_mfg_cmd_generic_cfg_t, 65	dhcp-server.h, 157
data3	dhcp_get_ip_from_mac
wifi_mfg_cmd_generic_cfg_t, 65	dhcp-server.h, 158
data_len	dhcp_server_lease_timeout
wifi_cal_data_t, 36	dhcp-server.h, 158
data_nf_avg	dhcp_server_start
wifi_rssi_info_t, 86	dhcp-server.h, 156
data_nf_last	dhcp_server_stop
wifi_rssi_info_t, 86	dhcp-server.h, 157
data_rate	dhcp_stat
wifi_ds_rate, 51	dhcp-server.h, 158
wifi_mfg_cmd_tx_frame_t, 75	dhcpd_cli_deinit
data_rssi_avg	dhcp-server.h, 156
wifi_rssi_info_t, 86	dhcpd_cli_init
data_rssi_last	dhcp-server.h, 156
wifi_rssi_info_t, 86	dialog_tok
data_snr_avg	wlan_rrm_scan_cb_param, 143
wifi_rssi_info_t, 87	dialog_token
data_snr_last	wlan_nlist_report_param, 139
wifi_rssi_info_t, 87	dns1
Dcm	ipv4_config, 21
wifi_mfg_cmd_tx_frame_t, 77	net_ipv4_config, 24
dcm	dns2
txrate_setting, 30	ipv4_config, 21
DefaultPriority	net_ipv4_config, 24
wifi_ext_coex_config_t, 54	domain_match
delay_to_ps	wlan_network_security, 134
wlan_ieeeps_config, 120	domain_suffix_match
dest_addr	wlan_network_security, 135
wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 68	Doppler
detect_count	wifi_mfg_cmd_tx_frame_t, 77
Event_Radar_Detected_Info, 18	doppler
device_id	txrate_setting, 30
wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67	dot11ac
wifi_mfg_cmd_generic_cfg_t, 64	wlan_network, 126



wlan_scan_result, 146 dot11ax	EXT_RADIO_PRI_ip_gpio_num wifi_ext_coex_config_t, 54
wlan_network, 126	EXT_RADIO_PRI_ip_gpio_polarity
wlan_scan_result, 146	wifi_ext_coex_config_t, 54
dot11n	EXT RADIO REQ ip gpio num
wlan network, 126	wifi ext coex config t, 54
wlan_scan_result, 145	
dpp_c_sign_key	EXT_RADIO_REQ_ip_gpio_polarity
wlan_network_security, 137	wifi_ext_coex_config_t, 54
dpp connector	eap_crypto_binding
• • —	wlan_network_security, 133
wlan_network_security, 137	eap_password
dpp_net_access_key	wlan_network_security, 133
wlan_network_security, 138	eap_result_ind
dst_addr	wlan_network_security, 133
wlan_nlist_report_param, 139	eap_tls_cipher_type
wlan_rrm_scan_cb_param, 143	wlan.h, 392
dst_ip	eap_ver
wifi_cloud_keep_alive_t, 44	wlan_network_security, 132
wifi_nat_keep_alive_t, 80	ed_ctrl_2g
wifi_tcp_keep_alive_t, 104	wifi_ed_mac_ctrl_t, 52
dst_mac	ed_ctrl_5g
wifi_cloud_keep_alive_t, 44	wifi_ed_mac_ctrl_t, 53
wifi_nat_keep_alive_t, 80	ed offset 2g
wifi_tcp_keep_alive_t, 104	wifi_ed_mac_ctrl_t, 53
dst_port	ed_offset_5g
wifi_cloud_keep_alive_t, 44	wifi_ed_mac_ctrl_t, 53
wifi_nat_keep_alive_t, 80	enable
dst_tcp_port	wifi_cloud_keep_alive_t, 43
wifi_tcp_keep_alive_t, 104	wifi_mfg_cmd_he_tb_tx_t, 66
dtim_period	wifi_mfg_cmd_tx_frame_t, 75
wifi_scan_result2, 96	wifi_tcp_keep_alive_t, 103
wlan_network, 127	
wlan scan result, 149	wifi_wowlan_ptn_cfg_t, 116
dump_ascii	enable_tx
wm_utils.h, 419	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 68
dump_hex	wifi_mfg_cmd_tx_cont_t, 72
wm_utils.h, 419	Enabled
dump_hex_ascii	wifi_ext_coex_config_t, 54
wm_utils.h, 419	error
dump_json	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 68
wm utils.h, 420	wifi_mfg_cmd_generic_cfg_t, 64
duration	wifi_mfg_cmd_he_tb_tx_t, 66
wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 68	wifi_mfg_cmd_otp_cal_data_rd_wr_t, 70
wlan_rrm_beacon_report_data, 140	wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71
duration_id	wifi_mfg_cmd_tx_cont_t, 72
wifi mgmt frame t, 79	wifi_mfg_cmd_tx_frame_t, 75
wiii_iiigiiit_iiaiiie_t, 79	evaluate_time
ENH PS MODES	wifi_antcfg_t, 33
wlan.h, 389	event
EU_CRYPTO_AAD_MAX_LENGTH	wifi_message, 63
wlan.h, 380	Event_Radar_Detected_Info, 18
EU_CRYPTO_DATA_MAX_LENGTH	binCounter, 19
wlan.h, 379	detect_count, 18
EU_CRYPTO_KEY_MAX_LENGTH	dfsRecordHdrs, 19
wlan.h, 379	main_det_type, 18
EU_CRYPTO_KEYIV_MAX_LENGTH	numDfsRecords, 19
wlan.h, 379	pri_binCnt, 19
EU_CRYPTO_NONCE_MAX_LENGTH	
	pri_radar_type, 19
wlan.h, 380	pw_chirp_idx, 19



pw_chirp_type, 19	flags
pw value, 19	wifi_auto_reconnect_config_t, 34
reallyPassed, 20	wifi csi filter t, 47
reg_domain, 18	flow_identifier
ext_id	wifi_twt_information_t, 106
wifi_11ax_config_t, 31	wifi_twt_setup_config_t, 109
ext_radio_pri_count	wifi_twt_teardown_config_t, 110
wifi_ext_coex_stats_t, 56	frame_ctrl_flags
ext_radio_req_count	wifi_mgmt_frame_t, 79
_	frame_length
wifi_ext_coex_stats_t, 55	
FILE_TYPE_ENTP_CA_CERT2	wifi_mfg_cmd_tx_frame_t, 75
wlan.h, 380	frame_pattern
FILE_TYPE_ENTP_CA_CERT	wifi_mfg_cmd_tx_frame_t, 75
wlan.h, 380	frame_type
FILE_TYPE_ENTP_CLIENT_CERT2	wifi_frame_t, 57
wlan.h, 380	wifi_mgmt_frame_t, 78
	free_cnt
FILE_TYPE_ENTP_CLIENT_CERT	wifi_os_mem_info, 81
wlan.h, 380	freq
FILE_TYPE_ENTP_CLIENT_KEY2	wlan_rrm_neighbor_ap_t, 142
wlan.h, 381	frm_len
FILE_TYPE_ENTP_CLIENT_KEY	wifi_mgmt_frame_t, 78
wlan.h, 380	frmCtl
FILE_TYPE_ENTP_DH_PARAMS	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 68
wlan.h, 381	ft_1x
FILE_TYPE_ENTP_SERVER_CERT	_SecurityMode_t, 13
wlan.h, 381	wlan_network, 127
FILE_TYPE_ENTP_SERVER_KEY	wlan_scan_result, 147
wlan.h, 381	ft_1x_sha384
FILE_TYPE_NONE	_SecurityMode_t, 14
wlan.h, 380	wlan_scan_result, 148
FILLING_BYTE_SEQ	ft_psk
wifi-decl.h, 179	_SecurityMode_t, 14
FILLING_MASK_SEQ	_ · · · -
wifi-decl.h, 179	wlan_network, 127
FILLING_NUM_BYTES	wlan_scan_result, 148
wifi-decl.h, 178	ft_sae
FILLING_OFFSET	_SecurityMode_t, 14
wifi-decl.h, 178	wlan_network, 127
FILLING PATTERN	wlan_scan_result, 148
	function
wifi-decl.h, 178	cli_command, 16
FILLING_REPEAT	fw_bands
wifi-decl.h, 178	wifi_bandcfg_t, 34
FILLING_TYPE	
wifi-decl.h, 178	g_bcn_nf_last
fast_prov	wifi.h, 237
wlan_network_security, 137	g_data_nf_last
ffs	wifi.h, 237
wm_utils.h, 418	g_data_snr_last
fill_flag	wifi.h, 237
wifi_mef_filter_t, 61	g_osa_idle_hooks
fill_sequential_pattern	osa.h, 171
wm_utils.h, 417	g_osa_tick_hooks
filter_item	osa.h, 171
wifi_mef_entry_t, 61	g_rssi
filter_num	wifi.h, 237
wifi_mef_entry_t, 60	gcmp
first_chan	_Cipher_t, 10
wifi_sub_band_set_t, 101	wlan_cipher, 117



	IEEEtanaa Daa t
gcmp_256	IEEEtypes_Bss_t
_Cipher_t, 10	wlan.h, 385
wlan_cipher, 118	IEEEtypes_ElementId_t
get_random_sequence	wifi.h, 235
wm_utils.h, 415	IEEEtypes_SSID_SIZE
get_scan_params	wlan.h, 368
wlan.h, 245	IP_PROTOCOL_OFFSET
get_sub_band_from_region_code	wifi-decl.h, 178
wifi.h, 203	IPV4 PKT OFFSET
get_sub_band_from_region_code_5ghz	wifi-decl.h, 178
wifi.h, 203	id
gf_mode	wifi_11ax_config_t, 31
wifi_mfg_cmd_tx_frame_t, 76	wlan_message, 121
gpio_pin	wlan_network, 123
wifi_indrst_cfg_t, 59	
group_cipher	identities
	wlan_network_security, 137
wlan_network_security, 130	identity
group_mgmt_cipher	wlan_network_security, 133
wlan_network_security, 130	IgnorePriority
gtk_not_used	wifi_ext_coex_config_t, 54
_Cipher_t, 11	implicit
wlan_cipher, 118	wifi_twt_setup_config_t, 108
gw	information state
ipv4_config, 20	wifi_twt_information_t, 106
net_ipv4_config, 24	interval
	wifi_nat_keep_alive_t, 80
HASH_MAX_LENGTH	wifi_tcp_keep_alive_t, 104
wlan.h, 370	
HOST_WAKEUP_GPIO_PIN	ip
wlan.h, 372	wlan_network, 125
hard_constraint	iperf.h, 160
wifi_twt_setup_config_t, 109	iperf_cli_deinit, 160
he_mac_cap	iperf_cli_init, 160
wifi_11ax_config_t, 31	iperf_e, 160
he_oper_chwidth	iperf_w, 160
wlan network, 125	iperf_cli_deinit
	iperf.h, 160
he_phy_cap	iperf_cli_init
wifi_11ax_config_t, 32	iperf.h, 160
he_txrx_mcs_support	iperf e
wifi_11ax_config_t, 32	iperf.h, 160
head_id	iperf_w
wifi_csi_config_params_t, 45	iperf.h, 160
help	•
cli_command, 16	ipv4
help_command	net_ip_config, 23
cli.h, 155	wlan_ip_config, 121
Host_Sleep_Action	ipv4_config, 20
wlan.h, 389	addr_type, 20
hostapd_connected_sta_list	address, 20
wifi.h, 231	dns1, 21
ht_capab	dns2, 21
wlan_network, 124	gw, <mark>20</mark>
man_notwork, 121	netmask, 21
ICMP_OF_IP_PROTOCOL	ipv6
wifi-decl.h, 177	net_ip_config, 22
IDENTITY_MAX_LENGTH	wlan_ip_config, 121
	_, _
wlan.h, 370	ipv6_addr_addr_to_desc
IEEEtypes_ADDRESS_SIZE	
wlan.h, 368	wm_net.h, 405 ipv6_addr_state_to_desc



	MAX_NEIGHBOR_AP_LIMIT
wm_net.h, 404 ipv6_addr_type_to_desc	wifi.h, 235
wm_net.h, 405	MAX_NUM_BYTE_SEQ
ipv6_config, 21	wifi-decl.h, 176
addr_state, 22	MAX NUM CHANS IN NBOR RPT
addr_type, 22	wifi.h, 234
address, 21	MAX_NUM_ENTRIES
ipv6_count	wifi-decl.h, 176
net_ip_config, 22	MAX_NUM_FILTERS
wlan_ip_config, 121	wifi-decl.h, 174
ir_mode	MAX_NUM_MASK_SEQ
wifi_indrst_cfg_t, 59	wifi-decl.h, 176
is_bssid	MAX_NUM_SSID
wifi_scan_params_v2_t, 93	wifi-decl.h, 179
is_ep_valid_security	MAX OPERAND
wlan.h, 244	wifi-decl.h, 176
is_ibss_bit_set	MAX_QNAME_SIZE
wifi_scan_result2, 95	dhcp-server.h, 159
is_pmf_required	MAX USERS
wifi_scan_result2, 97	wlan.h, 370
wlan_network_security, 130	MBIT
is_ssid	wifi.h, 234
wifi_scan_params_v2_t, 93	MEF_ACTION_ALLOW_AND_WAKEUP_HOST
is_sta_connected	
wlan.h, 259	wifi-decl.h, 175 MEF_ACTION_ALLOW
is_sta_ipv4_connected	
wlan.h, 259	wifi-decl.h, 175
is_sta_ipv6_connected	MEF_ACTION_WAKE
wlan.h, 259	wifi-decl.h, 175
is_uap_started	MEF_AUTO_ARP
	wifi-decl.h, 175
wian n 258	MEE ALITO DINIO
wlan.h, 258 is valid security	MEF_AUTO_PING
is_valid_security	wifi-decl.h, 175
	wifi-decl.h, 175 MEF_MAGIC_PKT
is_valid_security wlan.h, 244	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175
is_valid_security wlan.h, 244 key_mgmt	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP
is_valid_security wlan.h, 244	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174
is_valid_security wlan.h, 244 key_mgmt	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval wlan_ieeeps_config, 119	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN wifi-decl.h, 172
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval wlan_ieeeps_config, 119 lookup_command	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN wifi-decl.h, 172 MOD_GROUPS
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval wlan_ieeeps_config, 119 lookup_command	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN wifi-decl.h, 172
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval wlan_ieeeps_config, 119 lookup_command cli.h, 151 MAX_CHANNEL_LIST wifi-decl.h, 179	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN wifi-decl.h, 172 MOD_GROUPS
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval wlan_ieeeps_config, 119 lookup_command cli.h, 151 MAX_CHANNEL_LIST wifi-decl.h, 179 wlan.h, 379	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN wifi-decl.h, 172 MOD_GROUPS wifi-decl.h, 172 mac wifi_mac_addr_t, 60
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval wlan_ieeeps_config, 119 lookup_command cli.h, 151 MAX_CHANNEL_LIST wifi-decl.h, 179	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN wifi-decl.h, 172 MOD_GROUPS wifi-decl.h, 172 mac
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval wlan_ieeeps_config, 119 lookup_command cli.h, 151 MAX_CHANNEL_LIST wifi-decl.h, 179 wlan.h, 379	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN wifi-decl.h, 172 MOD_GROUPS wifi-decl.h, 172 mac wifi_mac_addr_t, 60
is_valid_security wlan.h, 244 key_mgmt wlan_network_security, 129 last_ind wlan_rrm_beacon_report_data, 140 len test_cfg_param_t, 27 test_cfg_table_t, 28 wifi_11ax_config_t, 31 length wifi_twt_report_t, 107 line_num wifi_os_mem_info, 81 listen_interval wlan_ieeeps_config, 119 lookup_command cli.h, 151 MAX_CHANNEL_LIST wifi-decl.h, 179 wlan.h, 379 MAX_CUSTOM_HOOKS	wifi-decl.h, 175 MEF_MAGIC_PKT wifi-decl.h, 175 MEF_MODE_HOST_SLEEP wifi-decl.h, 174 MEF_MODE_NON_HOST_SLEEP wifi-decl.h, 174 MEF_NS_RESP wifi-decl.h, 175 MKEEP_ALIVE_IP_PKT_MAX wifi-decl.h, 179 MLAN_MAC_ADDR_LENGTH wifi-decl.h, 171 MLAN_MAX_PASS_LENGTH wifi-decl.h, 174 MLAN_MAX_SSID_LENGTH wifi-decl.h, 173 MLAN_MAX_VER_STR_LEN wifi-decl.h, 172 MOD_GROUPS wifi-decl.h, 172 mac wifi_mac_addr_t, 60 wifi_sta_info_t, 100



main_det_type	tx_ampdu_prot_mode_para, 29
Event_Radar_Detected_Info, 18	wifi_cw_mode_ctrl_t, 48
mask	wifi_mef_entry_t, 60
wifi_wowlan_pattern_t, 115	multiple_dtim_interval
mask_seq	wlan_ieeeps_config, 119
wifi_mef_filter_t, 63	n nattarna
max_keep_alives	n_patterns
wifi_tcp_keep_alive_t, 104	wifi_wowlan_ptn_cfg_t, 116 NET_BLOCKING_OFF
max_pktext	wm_net.h, 409
txrate_setting, 30	NET BLOCKING ON
max_power	wm_net.h, 409
wifi_tx_power_t, 111	NET ENOBUFS
max_scan_time	wm_net.h, 409
wifi_chan_scan_param_set_t, 39	NET ERROR
max_sta_support	wm_net.h, 408
wifi_btwt_config_t, 35	NET SUCCESS
max_tbtt_offset	wm_net.h, 408
wifi_tbtt_offset_t, 102	NORETURN
max_tx_pwr	wm_utils.h, 418
wifi_sub_band_set_t, 102	NUM_CHAN_BAND_ENUMS
MaxPE	wlan.h, 378
wifi_mfg_cmd_tx_frame_t, 77	name
mbo_assoc_disallowed	cli_command, 16
wifi_scan_result2, 99	test_cfg_param_t, 27
mcstCipher	test_cfg_table_t, 27
wlan_network_security, 130	wifi_os_mem_info, 81
mdid	wlan_network, 123
wifi_scan_result2, 99	negotiation_type
wlan notwork 126	
wlan_network, 126	wifi_twt_setup_config_t, 108
mef_entry	wifi_twt_setup_config_t, 108 wifi_twt_teardown_config_t, 110
mef_entry wifi_flt_cfg_t, 57	
mef_entry wifi_flt_cfg_t, 57 mfg_cmd	wifi_twt_teardown_config_t, 110
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67	wifi_twt_teardown_config_t, 110 neighbor_ap
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 MidP MidP	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 409
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power wifi_tx_power_t, 111	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 409 net_close
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power wifi_tx_power_t, 111 min_scan_time	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 409 net_close wm_net.h, 410
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power wifi_tx_power_t, 111 min_scan_time wifi_chan_scan_param_set_t, 39	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 409 net_close wm_net.h, 410 net_configure_address
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power wifi_tx_power_t, 111 min_scan_time wifi_chan_scan_param_set_t, 39 min_tbtt_offset	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 409 net_close wm_net.h, 410 net_configure_address wm_net.h, 402
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power wifi_tx_power_t, 111 min_scan_time wifi_chan_scan_param_set_t, 39 min_tbtt_offset wifi_tbtt_offset_t, 102	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 400 net_close wm_net.h, 410 net_configure_address wm_net.h, 402 net_configure_dns
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power wifi_tx_power_t, 111 min_scan_time wifi_chan_scan_param_set_t, 39 min_tbtt_offset wifi_tbtt_offset_t, 102 mkeep_alive_id	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 409 net_close wm_net.h, 410 net_configure_address wm_net.h, 402 net_configure_dns wm_net.h, 403
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power wifi_tx_power_t, 111 min_scan_time wifi_chan_scan_param_set_t, 39 min_tbtt_offset wifi_tbtt_offset_t, 102 mkeep_alive_id wifi_cloud_keep_alive_t, 43	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 409 net_close wm_net.h, 410 net_configure_address wm_net.h, 402 net_configure_dns wm_net.h, 403 net_connect
mef_entry wifi_flt_cfg_t, 57 mfg_cmd wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67 wifi_mfg_cmd_generic_cfg_t, 64 wifi_mfg_cmd_he_tb_tx_t, 65 wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69 wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 71 wifi_mfg_cmd_tx_cont_t, 72 wifi_mfg_cmd_tx_frame_t, 74 mfpc wifi_pmf_params_t, 82 wlan_network_security, 132 mfpr wifi_pmf_params_t, 82 wlan_network_security, 132 MidP wifi_mfg_cmd_tx_frame_t, 77 min_power wifi_tx_power_t, 111 min_scan_time wifi_chan_scan_param_set_t, 39 min_tbtt_offset wifi_tbtt_offset_t, 102 mkeep_alive_id	wifi_twt_teardown_config_t, 110 neighbor_ap wlan_rrm_neighbor_report_t, 142 neighbor_cnt wlan_rrm_neighbor_report_t, 143 neighbor_report_supported wifi_scan_result2, 99 wlan_network, 128 wlan_scan_result, 149 nentries wifi_flt_cfg_t, 56 net_accept wm_net.h, 410 net_address_types wm_net.h, 411 net_alloc_client_data_id wm_net.h, 400 net_bind wm_net.h, 409 net_close wm_net.h, 410 net_configure_address wm_net.h, 402 net_configure_dns wm_net.h, 403



net_get_if_addr	wm_net.h, 409
wm_net.h, 403	net_shutdown
net_get_if_ip_addr	wm_net.h, 410
wm_net.h, 406	net_sock_to_interface
net_get_if_ip_mask	wm_net.h, 398
wm_net.h, 406	net_socket
net_get_if_ipv6_addr	wm_net.h, 409
wm_net.h, 403	net_socket_blocking
net_get_if_ipv6_pref_addr	wm_net.h, 396
wm_net.h, 404	net_stack_buffer_skip
net_get_if_name	wm_net.h, 398
wm_net.h, 405	net_stat
net_get_mlan_handle	wm_net.h, 408
wm_net.h, 411	net_stop_dhcp_timer
net_get_sock_error	wm_net.h, 396
wm_net.h, 397	net_wlan_deinit
net_get_sta_handle	wm_net.h, 399
wm_net.h, 400	net_wlan_init
net_get_sta_interface	wm_net.h, 399
wm_net.h, 399	net_wlan_set_mac_address
net_get_uap_handle	wm_net.h, 397
wm_net.h, 400	net_write
net_get_uap_interface	wm_net.h, 411
wm_net.h, 400	netmask
net_inet_aton	ipv4_config, 21
wm_net.h, 397	net_ipv4_config, 24
net_inet_ntoa	nlist_mode
wm_net.h, 398	wlan_nlist_report_param, 138
net_interface_dhcp_cleanup	no_of_chan
wm_net.h, 402	wifi_sub_band_set_t, 102
net_interface_dhcp_stop	no_of_channels
wm_net.h, 402	wifi_chan_list_param_set_t, 38
net_interface_down	noRsn
wm_net.h, 401	_SecurityMode_t, 12
net_interface_up	nominal_wake
wm_net.h, 401	wifi_btwt_config_t, 35
net_ip_config, 22	none
ipv4, 23	_Cipher_t, 9
ipv6, 22	wlan_cipher, 117
ipv6_count, 22	notes
net_ipv4_config, 23	test_cfg_param_t, 27
addr_type, 23	nss
address, 23	wifi_rate_cfg_t, 83
dns1, 24	num_byte_seq
dns2, 24	wifi_mef_filter_t, 62
gw, 24	num_bytes
netmask, 24	wifi_mef_filter_t, 62
net_ipv4stack_init	num_channels
wm_net.h, 408	wifi_scan_params_v2_t, 93
net ipv6 config, 24	wlan_nlist_report_param, 138
addr_state, 25	num_chans
addr_type, 25	wifi_chanlist_t, 40
address, 25	wifi_rutxpwrlimit_t, 89
net listen	wifi_txpwrlimit_t, 113
wm_net.h, 410	num_mask_seq
net_read	wifi_mef_filter_t, 62
wm_net.h, 410	num_mod_grps
net select	wifi_txpwrlimit_config_t, 112
-	_ · · · · · · · · · · · · · · · · · · ·



num_of_chan	osa.h, 162
wifi_scan_chan_list_t, 90	OSA TimerCreate
num_probes	osa.h, 161
wifi_scan_params_v2_t, 94	OSA_TimerDeactivate
numDfsRecords	osa.h, 163
Event_Radar_Detected_Info, 19	OSA_TimerDestroy
NumPkt	osa.h, 164
wifi_mfg_cmd_tx_frame_t, 77	OSA_TimerGetContext
nusers	osa.h, 163
wlan_network_security, 136	OSA_TimerIsRunning
	osa.h, 162
OPERAND_BYTE_SEQ	OSA TimerReset
wifi-decl.h, 176	osa.h, 163
OPERAND DNUM	offset
wifi-decl.h, 176	
OS_MEM_STAT_TABLE_SIZE	test_cfg_param_t, 27
wifi-decl.h, 180	wifi_mef_filter_t, 62
	op_class
OSA_DumpThreadInfo	wlan_rrm_neighbor_ap_t, 142
osa.h, 169	osa.h, 161
OSA_MUTEX_HANDLE_DEFINE	cb_fn, 171
_rw_lock, 25, 26	g_osa_idle_hooks, 171
OSA_MsgQWaiting	g_osa_tick_hooks, 171
osa.h, 170	MAX_CUSTOM_HOOKS, 170
OSA RWLockCreate	OSA_DumpThreadInfo, 169
osa.h, 164	
OSA RWLockCreateWithCB	OSA_MsgQWaiting, 170
osa.h, 164	OSA_RWLockCreate, 164
	OSA_RWLockCreateWithCB, 164
OSA_RWLockDestroy	OSA_RWLockDestroy, 165
osa.h, 165	OSA_RWLockReadLock, 166
OSA_RWLockReadLock	OSA RWLockReadUnlock, 167
osa.h, 166	OSA_RWLockWriteLock, 165
OSA_RWLockReadUnlock	OSA_RWLockWriteUnlock, 166
osa.h, 167	OSA_Rand, 169
OSA RWLockWriteLock	OSA_RandRange, 169
osa.h, 165	— · · · · · · · · · · · · · · · · · · ·
OSA_RWLockWriteUnlock	OSA_RemoveIdleFunction, 168
osa.h, 166	OSA_RemoveTickFunction, 168
	OSA_SetupIdleFunction, 167
OSA_Rand	OSA_SetupTickFunction, 167
osa.h, 169	OSA_Srand, 169
OSA_RandRange	OSA_ThreadSelfComplete, 170
osa.h, 169	OSA_TimerActivate, 161
OSA_RemoveIdleFunction	OSA_TimerChange, 162
osa.h, 168	OSA_TimerCreate, 161
OSA_RemoveTickFunction	OSA_TimerDeactivate, 163
osa.h, 168	OSA_TimerDestroy, 164
OSA_SEMAPHORE_HANDLE_DEFINE	
_rw_lock, 26	OSA_TimerGetContext, 163
csi_local_buff_statu, 17	OSA_TimerIsRunning, 162
	OSA_TimerReset, 163
OSA_SetupIdleFunction	wm_rand_seed, 171
osa.h, 167	osa_rw_lock_t, 25
OSA_SetupTickFunction	owe
osa.h, 167	_SecurityMode_t, 13
OSA_Srand	_ , ,
osa.h, 169	PAC_OPAQUE_ENCR_KEY_MAX_LENGTH
OSA_ThreadSelfComplete	wlan.h, 370
osa.h, 170	PACK END
OSA_TimerActivate	wm_utils.h, 418
osa.h, 161	PACK_START
OSA_TimerChange	wm_utils.h, 418



PASSWORD_MAX_LENGTH	wifi_scan_result2, 97
wlan.h, 370	phtinfo_ie_present
PING_DEFAULT_COUNT	wifi_scan_result2, 97
wifi_ping.h, 243	phy_type
PING DEFAULT SIZE	wlan rrm neighbor ap t, 142
wifi ping.h, 243	ping_cli_deinit
PING_DEFAULT_TIMEOUT_SEC	wifi_ping.h, 242
wifi_ping.h, 243	ping_cli_init
PING_INTERVAL	wifi_ping.h, 241
wifi ping.h, 242	ping_e
PING ID	wifi_ping.h, 242
wifi ping.h, 242	_ ,
_, •	ping_stats
PING_MAX_COUNT	wifi_ping.h, 241
wifi_ping.h, 243	ping_w
PING_MAX_SIZE	wifi_ping.h, 242
wifi_ping.h, 243	pkc
PMK_BIN_LEN	wlan_network_security, 130
wifi-decl.h, 172	pkt_len
PMK_HEX_LEN	wifi_cloud_keep_alive_t, 44
wifi-decl.h, 172	pkt_offset
PORT_PROTOCOL_OFFSET	wifi_wowlan_pattern_t, 115
wifi-decl.h, 178	pkt_type
pac_opaque_encr_key	wifi_csi_filter_t, 47
wlan_network_security, 137	pktLength
packet	wifi_cw_mode_ctrl_t, 49
wifi_cloud_keep_alive_t, 44	pmk
pairwise_cipher	wlan_network_security, 131
wlan_network_security, 130	pmk_valid
param	wlan_network_security, 132
wifi_ds_rate, 51	power_mgmt_status
param_list	wifi_sta_info_t, 100
test_cfg_table_t, 28	preamble
param_num	txrate setting, 29
test_cfg_table_t, 28	pri_binCnt
passive_scan_or_radar_detect	Event_Radar_Detected_Info, 19
wifi_chan_info_t, 37	pri_radar_type
password	Event_Radar_Detected_Info, 19
wlan_network_security, 131	print_ascii
password_len	
	wm_utils.h, 419
wlan_network_security, 131	print_mac
passwords	print_mac wlan.h, 312
passwords wlan_network_security, 137	print_mac wlan.h, 312 print_txpwrlimit
passwords wlan_network_security, 137 pattern	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns wifi_wowlan_ptn_cfg_t, 116	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120 ps_null_interval
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns wifi_wowlan_ptn_cfg_t, 116 payload wifi_mgmt_frame_t, 79	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120 ps_null_interval wlan_ieeeps_config, 119
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns wifi_wowlan_ptn_cfg_t, 116 payload wifi_mgmt_frame_t, 79 payload_pattern	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120 ps_null_interval wlan_ieeeps_config, 119 psk
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns wifi_wowlan_ptn_cfg_t, 116 payload wifi_mgmt_frame_t, 79 payload_pattern wifi_mfg_cmd_tx_cont_t, 72	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120 ps_null_interval wlan_ieeeps_config, 119 psk wlan_network_security, 130 psk_len
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns wifi_wowlan_ptn_cfg_t, 116 payload wifi_mgmt_frame_t, 79 payload_pattern wifi_mfg_cmd_tx_cont_t, 72 peap_label	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120 ps_null_interval wlan_ieeeps_config, 119 psk wlan_network_security, 130 psk_len wlan_network_security, 131
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns wifi_wowlan_ptn_cfg_t, 116 payload wifi_mgmt_frame_t, 79 payload_pattern wifi_mfg_cmd_tx_cont_t, 72 peap_label wlan_network_security, 132	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120 ps_null_interval wlan_ieeeps_config, 119 psk wlan_network_security, 130 psk_len wlan_network_security, 131 pvhtcap_ie_present
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns wifi_wowlan_ptn_cfg_t, 116 payload wifi_mgmt_frame_t, 79 payload_pattern wifi_mfg_cmd_tx_cont_t, 72 peap_label wlan_network_security, 132 phecap_ie_present	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120 ps_null_interval wlan_ieeeps_config, 119 psk wlan_network_security, 130 psk_len wlan_network_security, 131 pvhtcap_ie_present wifi_scan_result2, 98
passwords wlan_network_security, 137 pattern wifi_mef_filter_t, 62 wifi_wowlan_pattern_t, 115 pattern_len wifi_wowlan_pattern_t, 115 patterns wifi_wowlan_ptn_cfg_t, 116 payload wifi_mgmt_frame_t, 79 payload_pattern wifi_mfg_cmd_tx_cont_t, 72 peap_label wlan_network_security, 132	print_mac wlan.h, 312 print_txpwrlimit wlan_tests.h, 395 protect wlan_nlist_report_param, 139 wlan_rrm_scan_cb_param, 143 ps_mode wlan_ieeeps_config, 120 ps_null_interval wlan_ieeeps_config, 119 psk wlan_network_security, 130 psk_len wlan_network_security, 131 pvhtcap_ie_present



pw_chirp_type	reconnect_counter
Event_Radar_Detected_Info, 19	wifi_auto_reconnect_config_t, 33
pw_value	reconnect_interval
Event_Radar_Detected_Info, 19	wifi_auto_reconnect_config_t, 33
pwe_derivation	reg domain
wlan_network_security, 131	Event_Radar_Detected_Info, 18
	region_string_2_region_code
QNum	wifi.h, 230
wifi_mfg_cmd_tx_frame_t, 78	register_csi_user_callback
qnum	wifi.h, 228
wifi_mfg_cmd_he_tb_tx_t, 66	
9,	remain_period
README.txt, 171	wifi_remain_on_channel_t, 84
RPN TYPE AND	remove
wifi-decl.h, 177	wifi_remain_on_channel_t, 84
RPN TYPE OR	rep_data
wifi-decl.h, 177	wlan_rrm_scan_cb_param, 143
RSSI	repeat
wifi scan result2, 96	wifi_mef_filter_t, 62
	report_detail
ra4us	wlan_rrm_beacon_report_data, 141
wifi_csi_config_params_t, 46	reserve
radio_type	wifi twt report t, 107
wifi_scan_channel_list_t, 91	reserved 1
random_hdlr_t	wifi_ext_coex_config_t, 55
wm_utils.h, 420	reserved 2
random_initialize_seed	wifi_ext_coex_config_t, 55
wm_utils.h, 414	
random_register_handler	reserverd
wm_utils.h, 413	txrate_setting, 30
random_register_seed_handler	reset
wm_utils.h, 413	wifi_cloud_keep_alive_t, 43
random_unregister_handler	wifi_tcp_keep_alive_t, 103
wm_utils.h, 413	reset_ie_index
random_unregister_seed_handler	wifi.h, 184
wm_utils.h, 414	result
rate	wnm_sleep_result_t, 150
wifi_rate_cfg_t, 83	retry_count
rate cfg	wifi_cloud_keep_alive_t, 43
wifi_ds_rate, 51	retry_interval
rate format	wifi_cloud_keep_alive_t, 43
wifi_rate_cfg_t, 83	rf_type
rate index	wifi_rf_channel_t, 85
wifi_rate_cfg_t, 83	role
-	wlan_network, 125
rate_setting	wlan_scan_result, 145
wifi_rate_cfg_t, 83	
rateInfo	rpn wifi_mef_entry_t, 61
wifi_cw_mode_ctrl_t, 49	· · ·
read_index	rsn_mcstCipher
csi_local_buff_statu, 17	wifi_scan_result2, 96
reader_cb	rsn_ucstCipher
_rw_lock, 26	wifi_scan_result2, 97
reader_count	rssi
_rw_lock, 26	wifi_sta_info_t, 100
reallyPassed	wlan_network, 124
Event_Radar_Detected_Info, 20	wlan_scan_result, 148
reason	rsvd
wifi_message, 63	_Cipher_t, 11
reason_code	_SecurityMode_t, 14
wifi_uap_client_disassoc_t, 114	wifi_mfg_cmd_tx_cont_t, 73
uap_ononi_alouoooo_t, 117	g_oma_tx_oomt_t, /o



wifi_mfg_cmd_tx_frame_t, 77	wifi.h, 205
wlan_cipher, 118	set_scan_params
rsvd2	wlan.h, 245
_Cipher_t, 11	short_gi
wlan_cipher, 119	wifi_mfg_cmd_tx_frame_t, 76
ruPower	short_preamble
wifi_rupwrlimit_config_t, 88	wifi_mfg_cmd_tx_frame_t, 76
rupwrlimit_config	shortGl
wifi rutxpwrlimit t, 89	txrate_setting, 29
rx_bw	signal_bw
wifi_data_rate_t, 50	
rx_data_rate	wifi_mfg_cmd_tx_frame_t, 77
wifi_data_rate_t, 49	Size
. – – – –	wifi_os_mem_info, 81
rx_gi	sms4
wifi_data_rate_t, 50	_Cipher_t, 10
sae groups	wlan_cipher, 118
wlan_network_security, 131	soft_crc32
sample_initialise_random_seed	wm_utils.h, 416
wm_utils.h, 415	sp_gap
scan_chan_gap	wifi_btwt_config_t, 36
	split_scan_delay
wifi_scan_params_v2_t, 94	wifi_scan_params_t, 92
scan_duration	src_addr
wifi_scan_params_t, 92	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 68
scan_only	src_ip
wifi_scan_params_v2_t, 93	wifi_cloud_keep_alive_t, 44
scan_time	src_mac
wifi_scan_channel_list_t, 91	wifi_cloud_keep_alive_t, 44
scan_type	src_port
wifi_scan_channel_list_t, 91	wifi_cloud_keep_alive_t, 44
scanMode	src_tcp_port
BandConfig_t, 15	
ScanMode_e	wifi_tcp_keep_alive_t, 104
wlan.h, 391	ssid
sec_channel_offset	wifi_scan_params_t, 92
wlan_network, 124	wifi_scan_params_v2_t, 93
security	wifi_scan_result2, 95
wlan_network, 125	wlan_network, 123
security_specific	wlan_rrm_beacon_report_data, 140
wlan_network, 126	wlan_rrm_neighbor_ap_t, 141
send_interval	wlan_scan_result, 145
wifi_cloud_keep_alive_t, 43	ssid_len
send_sleep_confirm_command	wifi_scan_result2, 95
wifi.h, 207	wlan_scan_result, 145
seq_ctl	ssid_length
wifi_mgmt_frame_t, 79	wlan_rrm_beacon_report_data, 140
seq no	ssid_specific
wifi_tcp_keep_alive_t, 104	wlan network, 125
server_cert_data	sta_addr
wlan_network_security, 136	wifi_uap_client_disassoc_t, 114
server_cert_len	standalone_hetb
wlan_network_security, 136	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 68
server_key_data	start_freq
_ •	wifi_channel_desc_t, 41
wlan_network_security, 136	wifi_rupwrlimit_config_t, 88
server_key_len	status
wlan_network_security, 136	wifi_remain_on_channel_t, 84
server_key_passwd	
wlan_network_security, 136	stbc
set_event_chanswann	txrate_setting, 30



wifi_mfg_cmd_tx_frame_t, 76	trans_mode
strdup	wifi_scan_result2, 98
wm_utils.h, 415	trans_ssid
sub_command	wifi_scan_result2, 99
wifi_ds_rate, 51	wlan_scan_result, 148
sub_id	trans_ssid_len
wifi_btwt_config_t, 35	wifi_scan_result2, 99
subband	wlan_scan_result, 148
wifi_txpwrlimit_t, 113	transition_disable
subtype	wlan_network_security, 131
wifi_csi_filter_t, 47	trig_common_field
suspend_duration	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 68
wifi_twt_information_t, 106	trig_user_info_field
TCP_OF_IP_PROTOCOL	wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 69
wifi-decl.h, 177	trigger_enabled
TX_AMPDU_CTS_2_SELF	wifi_twt_setup_config_t, 108
wlan.h, 379	tsf
TX AMPDU DISABLE PROTECTION	wifi_tsf_info_t, 105
wlan.h, 379	tsf_format
TX AMPDU DYNAMIC RTS CTS	wifi_tsf_info_t, 105
wlan.h, 379	tsf_info
TX AMPDU RTS CTS	wifi_tsf_info_t, 105
wlan.h, 379	tsf_offset
TYPE BIT EQ	wifi_tsf_info_t, 105
wifi-decl.h, 177	twt_exponent
TYPE_BYTE_EQ	wifi_btwt_config_t, 36
wifi-decl.h, 177	wifi_twt_setup_config_t, 109
TYPE DNUM EQ	twt_info_disabled
	wifi_twt_setup_config_t, 108
wifi-decl.h, 177	twt mantissa
tail_id	wifi_btwt_config_t, 35
wifi_csi_config_params_t, 46 teardown_all_twt	wifi_twt_setup_config_t, 109
wifi twt teardown config t, 110	twt offset
test_cfg_param_t, 26	wifi_btwt_config_t, 36
len, 27	twt_request
name, 27	wifi twt setup config t, 109
notes, 27	twt wakeup duration
offset, 27	wifi_twt_setup_config_t, 109
test cfg table t, 27	tx ampdu prot mode para, 28
data, 28	mode, 29
len, 28	tx_bf
name, 27	wifi_mfg_cmd_tx_frame_t, 76
param list, 28	tx bw
param_num, 28	wifi_data_rate_t, 50
test_wlan_cfg_process	tx_data_rate
wlan tests.h, 395	wifi_data_rate_t, 49
timeout	tx gi
wifi_tcp_keep_alive_t, 104	wifi_data_rate_t, 50
tkip	tx_power
_Cipher_t, 10	wifi_mfg_cmd_he_tb_tx_t, 66
wlan_cipher, 117	wifi_txpwrlimit_entry_t, 113
tls_cipher	tx rate
wlan_network_security, 133	wifi_mfg_cmd_tx_cont_t, 73
token	txPower
wlan_rrm_beacon_report_data, 140	wifi_cw_mode_ctrl_t, 48
trans_bssid	txpwrlimit_config
wifi_scan_result2, 99	wifi_txpwrlimit_t, 114
wlan_scan_result, 148	txpwrlimit_entry



wifi_txpwrlimit_config_t, 112 txrate_setting, 29 adv_coding, 30 bandwidth, 29 dcm, 30 doppler, 30 max_pktext, 30 preamble, 29 reserverd, 30	WIFI_MAX_CHANNEL_NUM wifi-decl.h, 172 WIFI_MGMT_ACTION wifi.h, 234 WIFI_MGMT_AUTH wifi.h, 234 WIFI_MGMT_DEAUTH wifi.h, 234 WIFI_MGMT_DEAUTH wifi.h, 234 WIFI_MGMT_DIASSOC
shortGI, 29 stbc, 30 type wifi_mef_filter_t, 62 wifi_twt_report_t, 107 wlan_network, 125 wlan_network_security, 129	wifi.h, 234 WIFI_REG16 wifi.h, 232 WIFI_REG32 wifi.h, 232 WIFI_REG8 wifi.h, 232
wlan_scan_result, 145 UAP_DEFAULT_BANDWIDTH wifi-decl.h, 173	WIFI_SUPPORT_11AC wifi-decl.h, 172 WIFI_SUPPORT_11AX
UAP_DEFAULT_BEACON_PERIOD wifi-decl.h, 173	wifi-decl.h, 172 WIFI_SUPPORT_11N wifi-decl.h, 172
UAP_DEFAULT_CHANNEL wifi-decl.h, 173 UAP_DEFAULT_HIDDEN_SSID	WIFI_SUPPORT_LEGACY wifi-decl.h, 173
wifi-decl.h, 173 UDP_OF_IP_PROTOCOL	WIFI_WRITE_REG16 wifi.h, 233 WIFI_WRITE_REG32
wifi-decl.h, 177 ucstCipher wlan_network_security, 130	wifi.h, 233 WIFI_WRITE_REG8 wifi.h, 233
unregister_csi_user_callback wifi.h, 228	WLAN_11D_SCAN_LIMIT wlan.h, 368
val wifi_11ax_config_t, 32	WLAN_BTWT_REPORT_LEN wifi-decl.h, 179 WLAN_BTWT_REPORT_MAX_NUM
valid_data_cnt csi_local_buff_statu, 18 verify_scan_channel_value	wifi-decl.h, 179 WLAN_CIPHER_AES_128_CMAC
wlan.h, 244 verify_scan_duration_value	wlan.h, 377 WLAN_CIPHER_BIP_CMAC_256
wlan.h, 244 verify_sequential_pattern wm_utils.h, 417	wlan.h, 378 WLAN_CIPHER_BIP_GMAC_128 wlan.h, 378
verify_split_scan_delay wlan.h, 244	WLAN_CIPHER_BIP_GMAC_256 wlan.h, 378
version_str wifi_fw_version_ext_t, 58	WLAN_CIPHER_CCMP_256 wlan.h, 377 WLAN_CIPHER_CCMP
wifi_fw_version_t, 58 version_str_sel wifi_fw_version_ext_t, 58	wlan.h, 377 WLAN_CIPHER_GCMP_256
vht_capab wlan_network, 124	wlan.h, 377 WLAN_CIPHER_GCMP
vht_oper_chwidth wlan_network, 124	wlan.h, 377 WLAN_CIPHER_GTK_NOT_USED wlan.h, 378
WARN_UNUSED_RET wm_utils.h, 418	WLAN_CIPHER_NONE wlan.h, 376
WIFI_COMMAND_RESPONSE_WAIT_MS wifi.h, 233	WLAN_CIPHER_SMS4 wlan.h, 377



WLAN_CIPHER_TKIP	WLAN_KEY_MGMT_NONE
wlan.h, 377	wlan.h, 373
WLAN_CIPHER_WEP104	WLAN_KEY_MGMT_OSEN
wlan.h, 377	wlan.h, 375
WLAN_CIPHER_WEP40	WLAN_KEY_MGMT_OWE
wlan.h, 376	wlan.h, 375
WLAN_DRV_VERSION	WLAN_KEY_MGMT_PASN
wlan.h, 367	wlan.h, 376
WLAN_ERROR_ACTION	WLAN_KEY_MGMT_PSK_SHA256
wlan.h, 372	wlan.h, 374
WLAN_ERROR_NOMEM	WLAN_KEY_MGMT_PSK
wlan.h, 371	 wlan.h, <mark>373</mark>
WLAN_ERROR_NONE	WLAN_KEY_MGMT_SAE_EXT_KEY
wlan.h, 371	wlan.h, 376
WLAN_ERROR_NOT_SUPPORTED	WLAN_KEY_MGMT_SAE
wlan.h, 372	wlan.h, 374
WLAN_ERROR_PARAM	WLAN KEY MGMT WAPI CERT
wlan.h, 371	wlan.h, 374
WLAN_ERROR_PS_ACTION	WLAN_KEY_MGMT_WAPI_PSK
wlan.h, 372	wlan.h, 374
WLAN_ERROR_STATE	WLAN_KEY_MGMT_WPA_NONE
wlan.h, 371	wlan.h, 373
WLAN_GRANT_op_gpio_num	WLAN KEY MGMT WPS
wifi_ext_coex_config_t, 54	wlan.h, 374
WLAN_GRANT_op_gpio_polarity	WLAN_MAC_ADDR_LENGTH
wifi_ext_coex_config_t, 55	wlan.h, 371
WLAN_KEY_MGMT_CCKM	WLAN_MAX_KNOWN_NETWORKS
wlan.h, 374	wlan.h, 371
WLAN_KEY_MGMT_DPP	WLAN_MAX_STA_FILTER_NUM
wlan.h, 376	wlan.h, 371
WLAN_KEY_MGMT_FILS_SHA256	WLAN_MGMT_ACTION
wlan.h, 375	wlan.h, 373
WLAN_KEY_MGMT_FILS_SHA384	WLAN_MGMT_AUTH
wlan.h, 375	
WLAN KEY MGMT FT FILS SHA256	wlan.h, 372 WLAN_MGMT_DEAUTH
	wlan.h, 372
Wlan, 375	
WLAN_KEY_MGMT_FT_FILS_SHA384 wlan.h, 375	WLAN_MGMT_DIASSOC
WLAN_KEY_MGMT_FT_IEEE8021X_SHA384	WIAN NETWORK NAME MAY LENGTH
wlan.h, 376	WLAN_NETWORK_NAME_MAX_LENGTH wlan.h, 369
WLAN_KEY_MGMT_FT_IEEE8021X	WLAN_NETWORK_NAME_MIN_LENGTH
wlan.h, 373	wlan, 369
WLAN_KEY_MGMT_FT_PSK	WLAN_PASSWORD_MAX_LENGTH
wlan.h, 373	wlan, 369
WLAN_KEY_MGMT_FT_SAE	WLAN_PASSWORD_MIN_LENGTH
wlan.h, 374	wlan.h, 369
WLAN_KEY_MGMT_FT	WLAN_PMK_LENGTH
wlan.h, 376	wlan.h, 371
WLAN_KEY_MGMT_IEEE8021X_NO_WPA	WLAN_PSK_MAX_LENGTH
wlan.h, 373	wlan.h, 369
WLAN_KEY_MGMT_IEEE8021X_SHA256	WLAN_PSK_MIN_LENGTH
wlan.h, 374	wlan.h, 369
WLAN_KEY_MGMT_IEEE8021X_SUITE_B_192	WLAN_REASON_CODE_PREV_AUTH_NOT_VALID
wlan.h, 375	wlan.h, 368
WLAN_KEY_MGMT_IEEE8021X_SUITE_B	WLAN_RECONNECT_LIMIT
wlan.h, 375	wlan.h, 369
WLAN_KEY_MGMT_IEEE8021X	WLAN_RESCAN_LIMIT
wlan.h. 373	wlan.h. 368



WM_MASK	MEF_NS_RESP, 175
wm_utils.h, 418	MKEEP_ALIVE_IP_PKT_MAX, 179
WOWLAN_MAX_OFFSET_LEN	MLAN_MAC_ADDR_LENGTH, 171
wifi-decl.h, 174	MLAN_MAX_PASS_LENGTH, 174
WOWLAN MAX PATTERN LEN	MLAN_MAX_SSID_LENGTH, 173
wifi-decl.h, 174	MLAN_MAX_VER_STR_LEN, 172
WPA_WPA2_WEP	MOD_GROUPS, 172
wifi_scan_result2, 96	OPERAND_BYTE_SEQ, 176
wep	OPERAND DNUM, 176
wlan scan result, 146	OS_MEM_STAT_TABLE_SIZE, 180
wep104	PMK_BIN_LEN, 172
_Cipher_t, 10	PMK HEX LEN, 172
wlan_cipher, 117	PORT_PROTOCOL_OFFSET, 178
_ ·	
wep40	RPN_TYPE_AND, 177
_Cipher_t, 9	RPN_TYPE_OR, 177
wlan_cipher, 117	TCP_OF_IP_PROTOCOL, 177
wepDynamic	TYPE_BIT_EQ, 177
_SecurityMode_t, 12	TYPE_BYTE_EQ, 177
wepStatic	TYPE_DNUM_EQ, 177
_SecurityMode_t, 12	UAP_DEFAULT_BANDWIDTH, 173
width	UAP_DEFAULT_BEACON_PERIOD, 173
wifi_rupwrlimit_config_t, 88	UAP_DEFAULT_CHANNEL, 173
wifi-decl.h, 171	UAP_DEFAULT_HIDDEN_SSID, 173
BAND_SPECIFIED, 179	UDP_OF_IP_PROTOCOL, 177
BIT, 174	WIFI_MAX_CHANNEL_NUM, 172
BSS_TYPE_STA, 173	WIFI_SUPPORT_11AC, 172
BSS_TYPE_UAP, 173	WIFI_SUPPORT_11AX, 172
CRITERIA_BROADCAST, 175	WIFI_SUPPORT_11N, 172
CRITERIA_MULTICAST, 176	WIFI_SUPPORT_LEGACY, 173
CRITERIA_UNICAST, 176	WLAN_BTWT_REPORT_LEN, 179
CSI_FILTER_MAX, 180	WLAN_BTWT_REPORT_MAX_NUM, 179
FILLING_BYTE_SEQ, 179	WOWLAN_MAX_OFFSET_LEN, 174
FILLING_MASK_SEQ, 179	WOWLAN_MAX_PATTERN_LEN, 174
FILLING_NUM_BYTES, 178	wifi_SubBand_t, 181
FILLING_OFFSET, 178	wifi_bss_features, 180
FILLING_PATTERN, 178	wifi_bss_security, 180
FILLING_REPEAT, 178	wifi_ds_command_type, 181
FILLING_TYPE, 178	wifi_frame_type_t, 182
ICMP_OF_IP_PROTOCOL, 177	wlan_type, 181
IP_PROTOCOL_OFFSET, 178	wifi.h, 182
IPV4_PKT_OFFSET, 178	_wifi_set_mac_addr, 196
MAX_CHANNEL_LIST, 179	BANDWIDTH_20MHZ, 233
MAX FUNC SYMBOL LEN, 180	BANDWIDTH_40MHZ, 233
MAX_NUM_BYTE_SEQ, 176	BANDWIDTH_80MHZ, 233
MAX_NUM_ENTRIES, 176	BEACON REPORT BUF SIZE, 234
MAX NUM FILTERS, 174	CONFIG_FW_VDLL, 232
MAX_NUM_MASK_SEQ, 176	CONFIG_GTK_REKEY_OFFLOAD, 232
MAX_NUM_SSID, 179	CONFIG_STA_AUTO_DHCPV4, 231
MAX OPERAND, 176	CONFIG_TCP_ACK_ENH, 232
MEF_ACTION_ALLOW_AND_WAKEUP_HOST,	CONFIG_WIFI_AUTO_POWER_SAVE, 232
175	CONFIG_WIFI_STA_RECONNECT, 231
MEF_ACTION_ALLOW, 175	clear_event_chanswann, 205
MEF_ACTION_WAKE, 175	csi_deliver_data_to_user, 228
MEF_AUTO_ARP, 175	csi_event_cnt, 238
MEF_AUTO_PING, 175	csi_event_data_len, 238
MEF_MAGIC_PKT, 175	csi_local_buff_init, 228
MEF MODE HOST SLEEP, 174	csi_save_data_to_local_buff, 228
MEF_MODE_NON_HOST_SLEEP, 174	g_bcn_nf_last, 237
	<u> </u>



a data of last 227	wifi exit wnm power save, 207
g_data_nf_last, 237	, _ ,
g_data_snr_last, 237	wifi_get_11ax_rutxpowerlimit_legacy, 215
g_rssi, 237	wifi_get_antenna, 198
get_sub_band_from_region_code, 203	wifi_get_country_code, 201
get_sub_band_from_region_code_5ghz, 203	wifi_get_data_rate, 212
hostapd_connected_sta_list, 231	wifi_get_default_ht_capab, 229
IEEEtypes_ElementId_t, 235	wifi_get_default_vht_capab, 230
MAX_NEIGHBOR_AP_LIMIT, 235	wifi_get_delay_to_ps, 208
MAX NUM CHANS IN NBOR RPT, 234	wifi_get_device_firmware_version_ext, 191
MBIT, 234	wifi_get_device_mac_addr, 190
region_string_2_region_code, 230	wifi get device uap mac addr, 191
register_csi_user_callback, 228	wifi_get_fw_info, 212
reset_ie_index, 184	wifi_get_indrst_cfg, 230
	_ - -
send_sleep_confirm_command, 207	wifi_get_ipv4_multicast_mac, 197
set_event_chanswann, 205	wifi_get_ipv6_multicast_mac, 198
unregister_csi_user_callback, 228	wifi_get_last_cmd_sent_ms, 192
WIFI_COMMAND_RESPONSE_WAIT_MS, 233	wifi_get_listen_interval, 208
WIFI_MGMT_ACTION, 234	wifi_get_outbuf, 192
WIFI_MGMT_AUTH, 234	wifi_get_region_code, 200
WIFI_MGMT_DEAUTH, 234	wifi_get_rf_band, 220
WIFI_MGMT_DIASSOC, 234	wifi_get_rf_bandwidth, 220
WIFI_REG16, 232	wifi_get_rf_channel, 220
WIFI REG32, 232	wifi_get_rf_otp_cal_data, 223
WIFI REG8, 232	wifi_get_rf_otp_mac_addr, 223
WIFI_WRITE_REG16, 233	wifi_get_rf_per, 220
WIFI WRITE REG32, 233	wifi_get_rf_radio_mode, 220
WIFI_WRITE_REG8, 233	wifi_get_rf_rx_antenna, 221
wifi_11d_is_channel_allowed, 202	wifi_get_rf_tx_antenna, 221
wifi_11h_enable, 210	wifi_get_scan_result, 193
wifi_add_mcast_filter, 196	wifi_get_scan_result_count, 194
wifi_add_to_bypassq, 186	wifi_get_sec_channel_offset, 226
wifi_cfg_rf_he_tb_tx, 222	wifi_get_tsf_info, 219
wifi_clear_mgmt_ie, 214	wifi_get_turbo_mode, 229
wifi_cloud_keep_alive, 214	wifi_get_twt_report, 217
wifi_config_bgscan_and_rssi, 192	wifi_get_tx_power, 204
wifi_config_roaming, 192	wifi_get_txratecfg, 209
wifi_configure_delay_to_ps, 208	wifi_get_uap_channel, 201
wifi_configure_listen_interval, 208	wifi_get_uap_turbo_mode, 229
wifi_configure_null_pkt_interval, 208	wifi_get_value1, 192
wifi csi cfg, 227	wifi_get_wakeup_reason, 207
wifi_deauthenticate, 229	wifi get wpa ie in assoc, 196
wifi_deinit, 183	wifi_get_xfer_pending, 209
wifi_deregister_amsdu_data_input_callback, 185	wifi_handle_event_data_pause, 224
wifi_deregister_data_input_callback, 184	wifi_host_11k_cfg, 213
wifi_deregister_deliver_packet_above_callback,	wifi_host_11k_neighbor_req, 213
185	wifi_host_11v_bss_trans_query, 213
wifi_deregister_wrapper_net_is_ip_or_ipv6_←	wifi_host_mbo_cfg, 227
callback, 186	wifi_init, 182
wifi_disable_11d_support, 203	wifi_init_fcc, 183
wifi_disable_uap_11d_support, 203	wifi_inject_frame, 225
wifi_enable_11d_support, 203	wifi_is_remain_on_channel, 231
wifi_enable_low_pwr_mode, 195	wifi_is_wpa_supplicant_input, 225
wifi_enable_uap_11d_support, 203	wifi_low_level_output, 186
wifi_enter_deepsleep_power_save, 207	wifi_mbo_preferch_cfg, 227
	wifi_mbo_send_preferch_wnm, 227
wifi_enter_ieee_power_save, 206	
wifi_enter_wnm_power_save, 207	wifi_mem_access, 199
wifi_exit_deepsleep_power_save, 207	wifi_nxp_reset_scan_flag, 226
wifi_exit_ieee_power_save, 206	wifi_nxp_scan_res_get, 226



wifi_nxp_set_default_scan_ies, 226	wifi_set_rssi_low_threshold, 224
wifi_nxp_survey_res_get, 226	wifi_set_rts, 213
wifi_process_hs_cfg_resp, 198	wifi_set_rx_status, 184
wifi_process_ps_enh_response, 199	wifi_set_sta_mac_filter, 214
wifi_raw_packet_recv, 215	wifi_set_turbo_mode, 229
wifi_raw_packet_send, 214	wifi_set_twt_setup_cfg, 216
wifi_reg_t, 236	wifi_set_twt_teardown_cfg, 217
wifi_register_amsdu_data_input_callback, 185	wifi_set_tx_power, 204
wifi_register_data_input_callback, 184	wifi_set_tx_status, 183
wifi_register_deliver_packet_above_callback, 185	wifi_set_txbfcap, 204
wifi_register_event_queue, 193	wifi_set_txratecfg, 209
wifi_register_fw_dump_cb, 223	wifi_set_uap_turbo_mode, 229
wifi_register_wrapper_net_is_ip_or_ipv6_callback,	wifi_set_xfer_pending, 209
185	wifi_show_os_mem_stat, 225
wifi_remove_mcast_filter, 197	wifi_shutdown_enable, 238
wifi_rf_trigger_frame_cfg, 222	wifi_sta_ampdu_rx_disable, 190
wifi_rx_block_cnt, 237	wifi_sta_ampdu_rx_enable, 188
wifi_rx_status, 237	wifi_sta_ampdu_rx_enable_per_tid, 188
wifi_same_ess_ft, 213	wifi_sta_ampdu_rx_enable_per_tid_is_allowed,
wifi_scan_process_results, 199	188
wifi_send_hs_cfg_cmd, 205	wifi_sta_ampdu_tx_disable, 187
wifi_send_mgmt_auth_request, 228	wifi_sta_ampdu_tx_enable, 187
wifi_send_scan_cmd, 228	wifi sta ampdu tx enable per tid, 187
wifi_set_11ax_cfg, 216	wifi_sta_ampdu_tx_enable_per_tid_is_allowed,
wifi_set_11ax_rutxpowerlimit, 215	187
wifi_set_11ax_rutxpowerlimit_legacy, 215	wifi_sta_deauth, 195
wifi_set_11ax_tol_time, 215	wifi_stop_bgscan, 192
wifi_set_11ax_tx_omi, 215	wifi_supp_inject_frame, 225
wifi_set_antenna, 198	wifi_tcp_keep_alive, 214
wifi_set_auto_arp, 214	wifi_test_independent_reset, 231
wifi_set_btwt_cfg, 216	wifi_trigger_oob_indrst, 231
wifi_set_cal_data, 195	wifi_twt_information, 217
wifi_set_clocksync_cfg, 219	wifi_tx_block_cnt, 237
wifi_set_country_code, 201	wifi_tx_card_awake_lock, 209
wifi_set_country_ie_ignore, 201	wifi_tx_card_awake_unlock, 210
wifi_set_frag, 213	wifi tx status, 237
wifi_set_htcapinfo, 204 wifi_set_httxcfg, 204	wifi_uap_ampdu_rx_disable, 189 wifi_uap_ampdu_rx_enable, 189
wifi set indrst cfg, 230	
•	wifi_uap_ampdu_rx_enable_per_tid, 189
wifi_set_mac_addr, 196	wifi_uap_ampdu_rx_enable_per_tid_is_allowed,
wifi_set_packet_filters, 211	189
wifi_set_packet_retry_count, 186	wifi_uap_ampdu_tx_disable, 190 wifi uap ampdu tx enable, 189
wifi_set_power_save_mode, 207	
wifi_set_ps_cfg, 205	wifi_uap_ampdu_tx_enable_per_tid, 190
wifi_set_region_code, 200	wifi_uap_ampdu_tx_enable_per_tid_is_allowed,
wifi_set_region_power_cfg, 203	190
wifi_set_rf_band, 220	wifi_uap_bss_sta_list, 194
wifi_set_rf_bandwidth, 220	wifi_uap_client_assoc, 230
wifi_set_rf_channel, 219	wifi_uap_client_deauth, 230
wifi_set_rf_otp_cal_data, 223	wifi_uap_config_wifi_capa, 212
wifi_set_rf_otp_mac_addr, 223	wifi_uap_do_acs, 212
wifi_set_rf_radio_mode, 219	
	wifi_uap_enable_11d_support, 202
wifi_set_rf_rx_antenna, 221	wifi_uap_enable_sticky_bit, 208
wifi_set_rf_test_mode, 219	wifi_uap_enable_sticky_bit, 208 wifi_uap_get_bandwidth, 212
wifi_set_rf_test_mode, 219 wifi_set_rf_tx_antenna, 221	wifi_uap_enable_sticky_bit, 208 wifi_uap_get_bandwidth, 212 wifi_uap_get_pmfcfg, 213
wifi_set_rf_test_mode, 219 wifi_set_rf_tx_antenna, 221 wifi_set_rf_tx_cont_mode, 221	wifi_uap_enable_sticky_bit, 208 wifi_uap_get_bandwidth, 212 wifi_uap_get_pmfcfg, 213 wifi_uap_pmf_getset, 202
wifi_set_rf_test_mode, 219 wifi_set_rf_tx_antenna, 221	wifi_uap_enable_sticky_bit, 208 wifi_uap_get_bandwidth, 212 wifi_uap_get_pmfcfg, 213



wifi_uap_ps_sta_ageout_timer_getset, 199	reconnect_interval, 33
wifi_uap_rates_getset, 199	wifi_bandcfg_t, 34
wifi_uap_set_bandwidth, 212	config_bands, 34
wifi_uap_set_httxcfg, 204	fw bands, 34
wifi_uap_set_httxcfg_int, 204	wifi bss features
wifi_uap_sta_ageout_timer_getset, 199	wifi-decl.h, 180
wifi_uap_start, 211	wifi_bss_security
wifi_uap_stant, 211	wifi-decl.h, 180
wifi_unregister_event_queue, 193	wifi_btwt_config_t, 35
wifi_unset_rf_test_mode, 219	action, 35
wifi_update_last_cmd_sent_ms, 192	max_sta_support, 35
wifi_wake_up_card, 209	nominal_wake, 35
wifi_wmm_get_packet_cnt, 224	sp_gap, <mark>36</mark>
wifi_wmm_get_pkt_prio, 224	sub_id, <mark>35</mark>
wifi_wmm_init, 224	twt_exponent, 36
wifi_wmm_tx_stats_dump, 224	twt_mantissa, 35
wifi_wpa_supplicant_eapol_input, 226	twt_offset, 36
wlan_nlist_mode, 236	wifi_cal_data_t, 36
wlan_rrm_beacon_reporting_detail, 236	data, 37
wrapper_clear_media_connected_event, 206	data_len, 36
wrapper_wifi_assoc, 208	wifi_cfg_rf_he_tb_tx
wrapper_wlin_assoc, 200 wrapper_wlan_11d_clear_parsedtable, 206	wifi.h, 222
wrapper_wlan_11d_enable, 210	wifi_chan_info_t, 37
wrapper_wlan_11d_support_is_enabled, 205	chan_freq, 37
wrapper_wlan_cmd_11n_addba_rspgen, 210	chan_num, 37
wrapper_wlan_cmd_11n_ba_stream_timeout, 209	passive_scan_or_radar_detect, 37
wrapper_wlan_cmd_11n_delba_rspgen, 210	wifi_chan_list_param_set_t, 38
wrapper_wlan_cmd_get_hw_spec, 205	chan_scan_param, 38
wrapper_wlan_ecsa_enable, 210	no_of_channels, 38
wrapper_wlan_sta_ampdu_enable, 211	wifi_chan_scan_param_set_t, 39
wrapper_wlan_uap_11d_enable, 210	chan_number, 39
wrapper_wlan_uap_ampdu_enable, 211	max_scan_time, 39
wifi_11ax_config_t, 31	min_scan_time, 39
band, 31	wifi_chanlist_t, 39
ext_id, 31	chan_info, 40
he_mac_cap, 31	num_chans, 40
he_phy_cap, 32	wifi_channel_desc_t, 40
he_txrx_mcs_support, 32	chan_num, 41
id, 31	chan_width, 41
len, 31	start_freq, 41
val, <mark>32</mark>	wifi_clear_mgmt_ie
wifi_11d_is_channel_allowed	wifi.h, 214
wifi.h, 202	wifi_clock_sync_gpio_tsf_t, 41
wifi_11h_enable	clock_sync_Role, 42
wifi.h, 210	clock_sync_gpio_level_toggle, 42
wifi SubBand t	clock_sync_gpio_pin_number, 42
wifi-decl.h, 181	clock sync gpio pulse width, 42
wifi_add_mcast_filter	clock_sync_mode, 41
wifi.h, 196	wifi_cloud_keep_alive
	_ · · ·
wifi_add_to_bypassq	wifi.h, 214
wifi.h, 186	wifi_cloud_keep_alive_t, 42
wifi_antcfg_t, 32	cached, 43
ant_mode, 32	dst_ip, 44
current_antenna, 33	dst_mac, 44
evaluate_time, 33	dst_port, 44
wifi_auto_reconnect_config_t, 33	enable, 43
flags, 34	mkeep_alive_id, 43
reconnect_counter, 33	packet, 44
	I



pkt_len, 44	wifi.h, 184
reset, 43	wifi_deregister_deliver_packet_above_callback
retry_count, 43	wifi.h, 185
retry_interval, 43	wifi_deregister_wrapper_net_is_ip_or_ipv6_callback
send interval, 43	wifi.h, 186
src_ip, 44	wifi_disable_11d_support
src_mac, 44	wifi.h, 203
src_port, 44	wifi_disable_uap_11d_support
wifi_config_bgscan_and_rssi	wifi.h, 203
wifi.h, 192	wifi_ds_command_type
wifi_config_roaming	wifi-decl.h, 181
wifi.h, 192	wifi_ds_rate, 50
wifi_configure_delay_to_ps	data_rate, 51
wifi.h, 208	param, 51
wifi_configure_listen_interval	rate_cfg, 51
wifi.h, 208	sub_command, 51
wifi_configure_null_pkt_interval	wifi_ecsa_info, 51
wifi.h, 208	band config, 52
wifi_csi_cfg	bss_type, 52
wifi.h, 227	channel, 52
wifi_csi_config_params_t, 45	wifi_ed_mac_ctrl_t, 52
band_config, 46	ed_ctrl_2g, 52
bss_type, 45	ed_ctrl_5g, 53
channel, 46	ed_offset_2g, 53
chip_id, 46	ed_offset_5g, 53
csi_enable, 45	wifi_enable_11d_support
csi_filter, 46	wifi.h, 203
csi_filter_cnt, 46	wifi_enable_low_pwr_mode
csi_monitor_enable, 46	wifi.h, 195
head_id, 45	
	wifi_enable_uap_11d_support wifi.h, 203
ra4us, 46	
tail_id, 46	wifi_enter_deepsleep_power_save
wifi_csi_filter_t, 47	wifi.h, 207
flags, 47	wifi_enter_ieee_power_save
mac_addr, 47 pkt_type, 47	wifi.h, 206
	wifi_enter_wnm_power_save
subtype, 47	wifi.h, 207
wifi_cw_mode_ctrl_t, 48	wifi_event
chanlnfo, 48	wifi_events.h, 238
channel, 48	wifi_event_reason
mode, 48	wifi_events.h, 240
pktLength, 49	wifi_events.h, 238
rateInfo, 49	wifi_event, 238
txPower, 48	wifi_event_reason, 240
wifi_data_rate_t, 49	wifi_wakeup_event_t, 240
rx_bw, 50	wlan_bss_role, 240
rx_data_rate, 49	wlan_bss_type, 240
rx_gi, 50	wifi_exit_deepsleep_power_save
tx_bw, 50	wifi.h, 207
tx_data_rate, 49	wifi_exit_ieee_power_save
tx_gi, 50	wifi.h, 206
wifi_deauthenticate	wifi_exit_wnm_power_save
wifi.h, 229	wifi.h, 207
wifi_deinit	wifi_ext_coex_config_t, 53
wifi.h, 183	DefaultPriority, 54
wifi_deregister_amsdu_data_input_callback	EXT_RADIO_PRI_ip_gpio_num, 54
wifi.h, 185	EXT_RADIO_PRI_ip_gpio_polarity, 54
wifi deregister data input callback	EXT RADIO REQ ip apio num. 54



	EXT_RADIO_REQ_ip_gpio_polarity, 54	wifi_get_region_code
	Enabled, 54	wifi.h, 200
	IgnorePriority, 54	wifi_get_rf_band
	reserved_1, 55	wifi.h, 220
	reserved_2, 55	wifi_get_rf_bandwidth
	WLAN_GRANT_op_gpio_num, 54	wifi.h, 220
	WLAN_GRANT_op_gpio_polarity, 55	wifi_get_rf_channel
wifi_	ext_coex_stats_t, 55	wifi.h, 220
	ext_radio_pri_count, 56	wifi_get_rf_otp_cal_data
	ext_radio_req_count, 55	wifi.h, 223
	wlan_grant_count, 56	wifi_get_rf_otp_mac_addr
witi_	flt_cfg_t, 56	wifi.h, 223
	criteria, 56	wifi_get_rf_per
	mef_entry, 57	wifi.h, 220
	nentries, 56	wifi_get_rf_radio_mode
WITI_	frame_t, 57	wifi.h, 220
	frame_type, 57	wifi_get_rf_rx_antenna
witi_	frame_type_t	wifi.h, 221
	wifi-decl.h, 182	wifi_get_rf_tx_antenna
witi_	fw_version_ext_t, 57	wifi.h, 221
	version_str, 58	wifi_get_scan_result
	version_str_sel, 58	wifi.h, 193
witi_	fw_version_t, 58	wifi_get_scan_result_count
	version_str, 58	wifi.h, 194
witi_	get_11ax_rutxpowerlimit_legacy	wifi_get_sec_channel_offset
	wifi.h, 215	wifi.h, 226
wifi_	get_antenna	wifi_get_tsf_info
	wifi.h, 198	wifi.h, 219
wifi_	get_country_code	wifi_get_turbo_mode
	wifi.h, 201	wifi.h, 229
wifi_	get_data_rate	wifi_get_twt_report
	wifi.h, 212	wifi.h, 217
WITI_	get_default_ht_capab	wifi_get_tx_power
	wifi.h, 229	wifi.h, 204
WITI_	get_default_vht_capab	wifi_get_txratecfg
	wifi.h, 230	wifi.h, 209
WITI_	get_delay_to_ps	wifi_get_uap_channel
	wifi.h, 208	wifi.h, 201
WITI_	get_device_firmware_version_ext	wifi_get_uap_turbo_mode
	wifi.h, 191	wifi.h, 229
WITI_	get_device_mac_addr	wifi_get_value1
:4:	wifi.h, 190	wifi.h, 192
WITI_	get_device_uap_mac_addr	wifi_get_wakeup_reason
:	wifi.h, 191	wifi.h, 207
WITI_	get_fw_info	wifi_get_wpa_ie_in_assoc
	wifi.h, 212	wifi.h, 196
WITI_	get_indrst_cfg	wifi_get_xfer_pending
:	wifi.h, 230	wifi.h, 209
WITI_	get_ipv4_multicast_mac	wifi_handle_event_data_pause
	wifi.h, 197	wifi.h, 224
WITI_	get_ipv6_multicast_mac	wifi_host_11k_cfg
:	wifi.h, 198	wifi.h, 213
WITI_	get_last_cmd_sent_ms	wifi_host_11k_neighbor_req
:	wifi.h, 192	wifi.h, 213
WITI_	get_listen_interval	wifi_host_11v_bss_trans_query
, , ,; £:	wifi.h, 208	wifi.h, 213
WITI_	get_outbuf	wifi_host_mbo_cfg
	wifi.h, 192	wifi.h, 227



wifi_indrst_cfg_t, 59	wifi_mfg_cmd_generic_cfg_t, 64
gpio_pin, 59	action, 64
ir_mode, 59	data1, 64
wifi_init	data2, 65
wifi.h, 182	data3, 65
wifi_init_fcc	device_id, 64
wifi.h, 183	error, 64
wifi_inject_frame	mfg_cmd, 64
wifi.h, 225	wifi_mfg_cmd_he_tb_tx_t, 65
wifi_is_remain_on_channel	action, 65
wifi.h, 231	aid, 66
wifi_is_wpa_supplicant_input	axq_mu_timer, 66
wifi.h, 225	device_id, 66
wifi_low_level_output	enable, 66
wifi.h, 186	error, 66
wifi_mac_addr_t, 59	mfg_cmd, 65
mac, 60	qnum, 66
wifi_mbo_preferch_cfg	tx_power, 66
wifi.h, 227	wifi_mfg_cmd_otp_cal_data_rd_wr_t, 69
wifi_mbo_send_preferch_wnm	action, 69
wifi.h, 227	cal_data, 70
wifi_mef_entry_t, 60	cal_data_len, 70
action, 60	cal_data_status, 70
filter_item, 61	device_id, 70
filter_num, 60	error, 70
mode, 60	mfg_cmd, 69
rpn, 61	wifi_mfg_cmd_otp_mac_addr_rd_wr_t, 70
wifi_mef_filter_t, 61	action, 71
byte_seq, 62	device_id, 71
fill_flag, 61	error, 71
mask_seq, 63	mac_addr, 71
num_byte_seq, 62	mfg_cmd, 71
num_bytes, 62	wifi_mfg_cmd_tx_cont_t, 71
num_mask_seq, 62	act sub ch, 73
offset, 62	action, 72
pattern, 62	cs mode, 73
repeat, 62	cw mode, 72
	device_id, 72
type, 62	
wifi_mem_access	enable_tx, 72
wifi.h, 199	error, 72
wifi_message, 63	mfg_cmd, 72
data, 63	payload_pattern, 72
event, 63	rsvd, 73
reason, 63	tx_rate, 73
wifi_mfg_cmd_IEEEtypes_CtlBasicTrigHdr_t, 67	wifi_mfg_cmd_tx_frame_t, 74
action, 67	act_sub_ch, 76
basic_trig_user_info, 69	action, 74
dest_addr, 68	adjust_burst_sifs, 75
device_id, 67	adv_coding, 76
duration, 68	BeamChange, 77
enable_tx, 68	bssid, 75
error, 68	burst_sifs_in_us, 76
frmCtl, 68	data_rate, 75
mfg_cmd, 67	Dcm, 77
src_addr, 68	device_id, 75
standalone_hetb, 68	Doppler, 77
trig_common_field, 68	enable, 75
trig_user_info_field, 69	error, 75
แเลาดา และ เกเดา และ เกาสาราชาวิทยา	GIIUI, / J



	frame_length, 75		mfpc, 82
	frame_pattern, 75		mfpr, 82
	gf_mode, 76	wifi_	process_hs_cfg_resp
	MaxPE, 77		wifi.h, 198
	mfg_cmd, 74	wifi	process_ps_enh_response
	MidP, 77		wifi.h, 199
	NumPkt, 77	wifi	rate_cfg_t, 82
	QNum, 78		nss, 83
	rsvd, 77		rate, 83
	short_gi, 76		rate_format, 83
	short_preamble, 76		rate_index, 83
	signal_bw, 77	:	rate_setting, 83
	stbc, 76	WITI_	raw_packet_recv
	tx_bf, 76		wifi.h, 215
witi_	mgmt_frame_t, 78	WITI_	raw_packet_send
	addr1, 79		wifi.h, 214
	addr2, 79	wifi_	reg_t
	addr3, 79		wifi.h, 236
	addr4, 79	wifi_	register_amsdu_data_input_callback
	duration_id, 79		wifi.h, 185
	frame_ctrl_flags, 79	wifi_	register_data_input_callback
	frame_type, 78		wifi.h, 184
	frm_len, 78	wifi	register_deliver_packet_above_callback
	payload, 79		wifi.h, 185
	seq_ctl, 79	wifi	register_event_queue
	nat_keep_alive_t, 80		wifi.h, 193
**	dst_ip, 80	wifi	register_fw_dump_cb
	dst_mac, 80	VVIII_	wifi.h, 223
		wifi	
	dst_port, 80	WIII_	register_wrapper_net_is_ip_or_ipv6_callback
	interval, 80	.,.	wifi.h, 185
	nxp_reset_scan_flag	WITI_	remain_on_channel_t, 84
	wifi.h, 226		bandcfg, 84
	nxp_scan_res_get		channel, 84
	wifi.h, 226		remain_period, 84
	nxp_set_default_scan_ies		remove, 84
	wifi.h, 226		status, 84
wifi_	nxp_survey_res_get	wifi_	remove_mcast_filter
	wifi.h, 226		wifi.h, 197
wifi_	os_mem_info, 81	wifi_	rf_channel_t, 85
	alloc_cnt, 81		current_channel, 85
	free_cnt, 81		rf_type, 85
	line_num, 81	wifi	rf_trigger_frame_cfg
	name, 81		wifi.h, 222
	size, 81	wifi	rssi_info_t, 86
wifi	ping.h, 241	•••••	bcn_nf_avg, 87
**	PING_DEFAULT_COUNT, 243		bcn_nf_last, 87
	PING_DEFAULT_SIZE, 243		bon rssi avg, 87
	PING DEFAULT TIMEOUT SEC, 243		bon rssi last, 87
			:
	PING_INTERVAL, 242		bcn_snr_avg, 87
	PING_ID, 242		bcn_snr_last, 86
	PING_MAX_COUNT, 243		data_nf_avg, 86
	PING_MAX_SIZE, 243		data_nf_last, 86
	ping_cli_deinit, 242		data_rssi_avg, 86
	ping_cli_init, 241		data_rssi_last, 86
	ping_e, 242		data_snr_avg, 87
	ping_stats, 241		data_snr_last, 87
	ping_w, 242	wifi_	rupwrlimit_config_t, 88
wifi	pmf_params_t, 82		chan_num, 88



ruPower, 88	pvhtcap_ie_present, 98
start_freq, 88	RSSI, 96
width, 88	rsn mcstCipher, 96
wifi_rutxpwrlimit_t, 89	rsn_ucstCipher, 97
num_chans, 89	ssid, 95
rupwrlimit_config, 89	ssid_len, 95
wifi_rx_block_cnt	trans_bssid, 99
wifi.h, 237	trans mode, 98
wifi_rx_status	trans_ssid, 99
wifi.h, 237	trans_ssid_len, 99
wifi_same_ess_ft	WPA_WPA2_WEP, 96
wifi.h, 213	wmm_ie_present, 98
wifi_scan_chan_list_t, 90	wpa2_entp_IE_exist, 98
chan_number, 90	wpa_mcstCipher, 96
num_of_chan, 90	wpa_mostOipher, 96
wifi_scan_channel_list_t, 90	wpa_destolpher, 50 wps_IE_exist, 98
chan_number, 91	wps_session, 98
radio_type, 91	wifi_send_hs_cfg_cmd
scan_time, 91	wifi.h, 205
scan_time, 91 scan_type, 91	
	wifi_send_mgmt_auth_request
wifi_scan_params_t, 91	wifi.h, 228
bss_type, 92	wifi_send_scan_cmd
bssid, 91	wifi.h, 228
channel, 92	wifi_set_11ax_cfg
scan_duration, 92	wifi.h, 216
split_scan_delay, 92	wifi_set_11ax_rutxpowerlimit
ssid, 92	wifi.h, 215
wifi_scan_params_v2_t, 92	wifi_set_11ax_rutxpowerlimit_legacy
bssid, 93	wifi.h, 215
cb, 94	wifi_set_11ax_tol_time
chan_list, 93	wifi.h, 215
is_bssid, 93	wifi_set_11ax_tx_omi
is_ssid, 93	wifi.h, 215
num_channels, 93	wifi_set_antenna
num_probes, 94	wifi.h, 198
scan_chan_gap, 94	wifi_set_auto_arp
scan_only, 93	wifi.h, 214
ssid, 93	wifi_set_btwt_cfg
wifi_scan_process_results	wifi.h, 216
wifi.h, 199	wifi_set_cal_data
wifi_scan_result2, 94	wifi.h, 195
ap_mfpc, 97	wifi_set_clocksync_cfg
ap_mfpr, 97	wifi.h, 219
ap_pwe, 97	wifi_set_country_code
band, 98	wifi.h, 201
beacon_period, 96	wifi_set_country_ie_ignore
bss_transition_supported, 99	wifi.h, 201
bssid, 95	wifi_set_frag
Channel, 96	wifi.h, 213
dtim_period, 96	wifi_set_htcapinfo
is_ibss_bit_set, 95	wifi.h, 204
is_pmf_required, 97	wifi_set_httxcfg
mbo_assoc_disallowed, 99	wifi.h, 204
mdid, 99	wifi_set_indrst_cfg
neighbor_report_supported, 99	wifi.h, 230
phecap_ie_present, 98	wifi_set_mac_addr
phtcap_ie_present, 97	wifi.h, 196
phtinfo_ie_present, 97	wifi_set_packet_filters
primio_ie_present, 31	wiii_3et_pachet_iiite13



wifi.h, 211	wifi.h, 229
	•
wifi_set_packet_retry_count	wifi_set_xfer_pending
wifi.h, 186	wifi.h, 209
wifi_set_power_save_mode	wifi_show_os_mem_stat
wifi.h, 207	wifi.h, 225
wifi_set_ps_cfg	wifi_shutdown_enable
wifi.h, 205	wifi.h, 238
wifi_set_region_code	wifi_sta_ampdu_rx_disable
wifi.h, 200	wifi.h, 190
wifi_set_region_power_cfg	wifi_sta_ampdu_rx_enable
wifi.h, 203	wifi.h, 188
wifi_set_rf_band	wifi_sta_ampdu_rx_enable_per_tid
wifi.h, 220	wifi.h, 188
wifi_set_rf_bandwidth	wifi_sta_ampdu_rx_enable_per_tid_is_allowed
wifi.h, 220	wifi.h, 188
wifi_set_rf_channel	wifi_sta_ampdu_tx_disable
wifi.h, 219	wifi.h, 187
wifi_set_rf_otp_cal_data	wifi_sta_ampdu_tx_enable
wifi.h, 223	wifi.h, 187
wifi_set_rf_otp_mac_addr	wifi_sta_ampdu_tx_enable_per_tid
wifi.h, 223	wifi.h, 187
wifi_set_rf_radio_mode	wifi_sta_ampdu_tx_enable_per_tid_is_allowed
wifi.h, 219	wifi.h, 187
wifi_set_rf_rx_antenna	wifi_sta_deauth
wifi.h, 221	wifi.h, 195
	wifi_sta_info_t, 100
wifi_set_rf_test_mode	
wifi.h, 219	mac, 100
wifi_set_rf_tx_antenna	power_mgmt_status, 100
witi h 221	rssi, 100
wifi.h, 221	
wifi_set_rf_tx_cont_mode	wifi_sta_list_t, 101
wifi_set_rf_tx_cont_mode	wifi_sta_list_t, 101
wifi_set_rf_tx_cont_mode wifi.h, 221	wifi_sta_list_t, 101 count, 101
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tott_offset_t, 102 avg_tbtt_offset, 103
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi_set_twt_teardown_cfg	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217 wifi_set_tx_power	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104 enable, 103
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217 wifi_set_tx_power wifi.h, 204	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104 enable, 103 interval, 104
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217 wifi_set_tx_power wifi.h, 204 wifi_set_tx_status	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104 enable, 103 interval, 104 max_keep_alives, 104
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217 wifi_set_tx_power wifi.h, 204 wifi_set_tx_status wifi.h, 183	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104 enable, 103 interval, 104 max_keep_alives, 104 reset, 103
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217 wifi_set_tx_power wifi.h, 204 wifi_set_tx_status wifi.h, 183 wifi_set_txbfcap	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104 enable, 103 interval, 104 max_keep_alives, 104 reset, 103 seq_no, 104
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217 wifi_set_tx_power wifi.h, 204 wifi_set_tx_status wifi.h, 183 wifi_set_txbfcap wifi.h, 204	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104 enable, 103 interval, 104 max_keep_alives, 104 reset, 103 seq_no, 104 src_tcp_port, 104
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217 wifi_set_tx_power wifi.h, 204 wifi_set_tx_status wifi.h, 183 wifi_set_txbfcap wifi.h, 204 wifi_set_txratecfg	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104 enable, 103 interval, 104 max_keep_alives, 104 reset, 103 seq_no, 104 src_tcp_port, 104 timeout, 104
wifi_set_rf_tx_cont_mode wifi.h, 221 wifi_set_rf_tx_frame wifi.h, 222 wifi_set_rf_tx_power wifi.h, 221 wifi_set_rssi_low_threshold wifi.h, 224 wifi_set_rts wifi.h, 213 wifi_set_rx_status wifi.h, 184 wifi_set_sta_mac_filter wifi.h, 214 wifi_set_turbo_mode wifi.h, 229 wifi_set_twt_setup_cfg wifi.h, 216 wifi_set_twt_teardown_cfg wifi.h, 217 wifi_set_tx_power wifi.h, 204 wifi_set_tx_status wifi.h, 183 wifi_set_txbfcap wifi.h, 204	wifi_sta_list_t, 101 count, 101 wifi_stop_bgscan wifi.h, 192 wifi_sub_band_set_t, 101 first_chan, 101 max_tx_pwr, 102 no_of_chan, 102 wifi_supp_inject_frame wifi.h, 225 wifi_tbtt_offset_t, 102 avg_tbtt_offset, 103 max_tbtt_offset, 102 min_tbtt_offset, 102 wifi_tcp_keep_alive wifi.h, 214 wifi_tcp_keep_alive_t, 103 dst_ip, 104 dst_mac, 104 dst_tcp_port, 104 enable, 103 interval, 104 max_keep_alives, 104 reset, 103 seq_no, 104 src_tcp_port, 104



wiff tulnamen and include	if: b 400
wifi_trigger_oob_indrst	wifi.h, 189
wifi.h, 231	wifi_uap_ampdu_rx_enable
wifi_tsf_info_t, 105	wifi.h, 189
tsf, 105	wifi_uap_ampdu_rx_enable_per_tid
tsf_format, 105	wifi.h, 189
tsf info, 105	wifi_uap_ampdu_rx_enable_per_tid_is_allowed
tsf_offset, 105	wifi.h, 189
wifi_twt_information	wifi_uap_ampdu_tx_disable
wifi.h, 217	wifi.h, 190
wifi_twt_information_t, 106	wifi_uap_ampdu_tx_enable
flow_identifier, 106	wifi.h, 189
information_state, 106	wifi_uap_ampdu_tx_enable_per_tid
suspend_duration, 106	wifi.h, 190
wifi_twt_report_t, 107	wifi_uap_ampdu_tx_enable_per_tid_is_allowed
data, 107	wifi.h, 190
length, 107	wifi_uap_bss_sta_list
reserve, 107	wifi.h, 194
type, 107	wifi_uap_client_assoc
wifi_twt_setup_config_t, 108	wifi.h, 230
announced, 108	wifi_uap_client_deauth
flow_identifier, 109	wifi.h, 230
hard_constraint, 109	wifi_uap_client_disassoc_t, 114
implicit, 108	reason_code, 114
negotiation_type, 108	sta_addr, 114
trigger_enabled, 108	wifi_uap_config_wifi_capa
twt_exponent, 109	wifi.h, 212
twt_info_disabled, 108	wifi_uap_do_acs
twt_mantissa, 109	wifi.h, 212
twt_request, 109	wifi_uap_enable_11d_support
twt_wakeup_duration, 109	wifi.h, 202
wifi_twt_teardown_config_t, 110	wifi_uap_enable_sticky_bit
flow_identifier, 110	wifi.h, 208
negotiation_type, 110	wifi_uap_get_bandwidth
teardown_all_twt, 110	wifi.h, 212
wifi_tx_block_cnt	wifi_uap_get_pmfcfg
wifi.h, 237	wifi.h, 213
wifi_tx_card_awake_lock	wifi_uap_pmf_getset
wifi.h, 209	wifi.h, 202
wifi_tx_card_awake_unlock	wifi_uap_ps_inactivity_sleep_enter
wifi.h, 210	wifi.h, 206
wifi tx power t, 110	wifi_uap_ps_inactivity_sleep_exit
current level, 111	wifi.h, 206
max_power, 111	wifi_uap_ps_sta_ageout_timer_getset
min_power, 111	wifi.h, 199
wifi_tx_status	wifi_uap_rates_getset
wifi.h, 237	wifi.h, 199
wifi_txpwrlimit_config_t, 111	wifi_uap_set_bandwidth
chan_desc, 112	wifi.h, 212
num_mod_grps, 112	wifi_uap_set_httxcfg
txpwrlimit_entry, 112	wifi.h, 204
wifi_txpwrlimit_entry_t, 112	wifi_uap_set_httxcfg_int
mod_group, 113	wifi.h, 204
_ -	
tx_power, 113	wifi_uap_sta_ageout_timer_getset
wifi_txpwrlimit_t, 113	wifi.h, 199
num_chans, 113	wifi_uap_start
subband, 113	wifi.h, 211
txpwrlimit_config, 114	wifi_uap_stop
wifi_uap_ampdu_rx_disable	wifi.h, 211



wifi_unregister_event_queue	FILE_TYPE_ENTP_SERVER_CERT, 381
wifi.h, 193	FILE_TYPE_ENTP_SERVER_KEY, 381
wifi_unset_rf_test_mode	FILE_TYPE_NONE, 380
wifi.h, 219	get_scan_params, 245
wifi_update_last_cmd_sent_ms	HASH_MAX_LENGTH, 370
wifi.h, 192	HOST_WAKEUP_GPIO_PIN, 372
wifi_wake_up_card	Host_Sleep_Action, 389
wifi.h, 209	IDENTITY MAX LENGTH, 370
wifi_wakeup_event_t	IEEEtypes_ADDRESS_SIZE, 368
wifi_events.h, 240	IEEEtypes_Bss_t, 385
wifi_wmm_get_packet_cnt	IEEEtypes_SSID_SIZE, 368
wifi.h, 224	is_ep_valid_security, 244
wifi_wmm_get_pkt_prio	is_sta_connected, 259
wifi.h, 224	is_sta_ipv4_connected, 259
wifi_wmm_init	is_sta_ipv6_connected, 259
wifi.h, 224	is_uap_started, 258
wifi_wmm_tx_stats_dump	is_valid_security, 244
wifi.h, 224	MAX CHANNEL LIST, 379
wifi_wowlan_pattern_t, 115	MAX_USERS, 370
mask, 115	NUM_CHAN_BAND_ENUMS, 378
pattern, 115	PAC_OPAQUE_ENCR_KEY_MAX_LENGTH, 370
pattern_len, 115	PASSWORD_MAX_LENGTH, 370
pkt_offset, 115	print_mac, 312
wifi_wowlan_ptn_cfg_t, 115	ScanMode e, 391
enable, 116	set_scan_params, 245
n_patterns, 116	TX_AMPDU_CTS_2_SELF, 379
patterns, 116	TX_AMPDU_DISABLE_PROTECTION, 379
wifi_wpa_supplicant_eapol_input	TX_AMPDU_DYNAMIC_RTS_CTS, 379
wifi.h, 226	TX_AMPDU_RTS_CTS, 379
wlan.h, 243	verify_scan_channel_value, 244
A_ID_MAX_LENGTH, 370	verify_scan_duration_value, 244
ACTION_GET, 368	verify_split_scan_delay, 244
ACTION_SET, 368	WLAN_11D_SCAN_LIMIT, 368
ARG UNUSED, 367	WLAN CIPHER AES 128 CMAC, 377
address types, 393	WLAN_CIPHER_BIP_CMAC_256, 378
BIN COUNTER LEN, 378	WLAN_CIPHER_BIP_GMAC_128, 378
CARD WAKEUP GPIO PIN, 372	WLAN_CIPHER_BIP_GMAC_256, 378
CONFIG_WLAN_KNOWN_NETWORKS, 367	WLAN_CIPHER_CCMP_256, 377
Chan2Offset_e, 391	WLAN_CIPHER_CCMP, 377
ChanBand e, 390	WLAN CIPHER GCMP 256, 377
ChanWidth e, 390	WLAN CIPHER GCMP, 377
DFS_REC_HDR_LEN, 378	WLAN_CIPHER_GTK_NOT_USED, 378
DFS_REC_HDR_NUM, 378	WLAN_CIPHER_NONE, 376
DOMAIN MATCH MAX LENGTH, 370	WLAN CIPHER SMS4, 377
ENH_PS_MODES, 389	WLAN_CIPHER_TKIP, 377
EU CRYPTO AAD MAX LENGTH, 380	WLAN_CIPHER_WEP104, 377
EU_CRYPTO_DATA_MAX_LENGTH, 379	WLAN_CIPHER_WEP40, 376
EU_CRYPTO_KEY_MAX_LENGTH, 379	WLAN_DRV_VERSION, 367
EU_CRYPTO_KEYIV_MAX_LENGTH, 379	WLAN_ERROR_ACTION, 372
EU_CRYPTO_NONCE_MAX_LENGTH, 380	WLAN ERROR NOMEM, 371
eap_tls_cipher_type, 392	WLAN_ERROR_NONE, 371
FILE_TYPE_ENTP_CA_CERT2, 380	WLAN_ERROR_NOT_SUPPORTED, 372
FILE_TYPE_ENTP_CA_CERT, 380	WLAN_ERROR_PARAM, 371
FILE_TYPE_ENTP_CLIENT_CERT2, 380	WLAN_ERROR_PS_ACTION, 372
FILE_TYPE_ENTP_CLIENT_CERT, 380	WLAN_ERROR_STATE, 371
FILE_TYPE_ENTP_CLIENT_KEY2, 381	WLAN_KEY_MGMT_CCKM, 374
FILE TYPE ENTP CLIENT KEY, 380	WLAN KEY MGMT DPP, 376
FILE_TYPE_ENTP_DH_PARAMS, 381	WLAN_KEY_MGMT_FILS_SHA256, 375



WLAN_KEY_MGMT_FILS_SHA384, 375	wlan_check_11ax_capa, 351
WLAN_KEY_MGMT_FT_FILS_SHA256, 375	wlan_check_11n_capa, 350
WLAN_KEY_MGMT_FT_FILS_SHA384, 375	wlan_clear_mgmt_ie, 296
WLAN_KEY_MGMT_FT_IEEE8021X_SHA384,	wlan_cli_deinit, 285
376	wlan_cli_init, 285
WLAN_KEY_MGMT_FT_IEEE8021X, 373	wlan_clock_sync_gpio_tsf_t, 384
WLAN_KEY_MGMT_FT_PSK, 373	wlan_cloud_keep_alive_enabled, 356
WLAN_KEY_MGMT_FT_SAE, 374	wlan_cloud_keep_alive_t, 382
WLAN_KEY_MGMT_FT, 376	wlan_config_mef, 345
WLAN_KEY_MGMT_IEEE8021X_NO_WPA, 373	wlan_configure_delay_to_ps, 271
WLAN_KEY_MGMT_IEEE8021X_SHA256, 374	wlan configure listen interval, 270
WLAN_KEY_MGMT_IEEE8021X_SUITE_B_192,	wlan configure null pkt interval, 272
375	wlan_connect, 249
WLAN_KEY_MGMT_IEEE8021X_SUITE_B, 375	wlan_connect_opt, 251
WLAN_KEY_MGMT_IEEE8021X, 373	wlan_connection_state, 388
WLAN KEY MGMT NONE, 373	wlan_csi_cfg, 346
WLAN KEY MGMT OSEN, 375	wlan_csi_config_params_t, 384
WLAN KEY MGMT OWE, 375	wlan_csi_opt, 390
WLAN KEY MGMT PASN, 376	wlan_cw_mode_ctrl_t, 383
WLAN_KEY_MGMT_PSK_SHA256, 374	wlan_deepsleepps_off, 275
WLAN KEY MGMT PSK, 373	wlan_deepsleepps_on, 275
WLAN KEY MGMT SAE EXT KEY, 376	wlan_deinit, 246
WLAN KEY MGMT SAE, 374	wlan_disconnect, 252
WLAN_KEY_MGMT_WAPI_CERT, 374	wlan_dpp_auth_init, 362
WLAN_KEY_MGMT_WAPI_PSK, 374	wlan_dpp_bootstrap_gen, 361
WLAN_KEY_MGMT_WPA_NONE, 373	wlan_dpp_bootstrap_get_uri, 361
WLAN_KEY_MGMT_WPS, 374	wlan_dpp_chirp, 364
WLAN_MAC_ADDR_LENGTH, 371	wlan_dpp_configurator_add, 359
WLAN_MAX_KNOWN_NETWORKS, 371	wlan_dpp_configurator_params, 360
WLAN_MAX_STA_FILTER_NUM, 371	wlan_dpp_configurator_sign, 364
WLAN MGMT ACTION, 373	wlan_dpp_listen, 362
WLAN_MGMT_AUTH, 372	wlan_dpp_mud_url, 360
WLAN MGMT DEAUTH, 372	wlan_dpp_pkex_add, 363
WLAN MGMT DIASSOC, 372	wlan dpp qr code, 361
WLAN_NETWORK_NAME_MAX_LENGTH, 369	wlan_dpp_reconfig, 364
WLAN_NETWORK_NAME_MIN_LENGTH, 369	wlan_dpp_stop_listen, 363
WLAN PASSWORD MAX LENGTH, 369	wlan_ds_rate, 382
WLAN PASSWORD MIN LENGTH, 369	wlan ed mac ctrl t, 382
WLAN_PMK_LENGTH, 371	wlan enable disable htc, 333
WLAN PSK MAX LENGTH, 369	wlan enable low pwr mode, 264
WLAN_PSK_MIN_LENGTH, 369	wlan_enable_low_pwl_mode, 204 wlan enhanced cli deinit, 286
WLAN_REASON_CODE_PREV_AUTH_NOT_←	:
	wlan_enhanced_cli_init, 286
VALID, 368	wlan_event_reason, 386
WLAN_RECONNECT_LIMIT, 369 WLAN RESCAN LIMIT, 368	wlan_ext_coex_config_t, 383
<u> </u>	wlan_ext_coex_stats_t, 383
wlan_11ax_config_t, 383	wlan_flt_cfg_t, 382
wlan_add_network, 248	wlan_free_entp_cert_files, 350
wlan_auto_reconnect_config_t, 382	wlan_ft_roam, 340
wlan_auto_reconnect_disable, 303	wlan_get_11ax_cfg, 336
wlan_auto_reconnect_enable, 302	wlan_get_11ax_rutxpowerlimit_legacy, 335
wlan_bandcfg_t, 382	wlan_get_11d_enable_status, 296
wlan_basic_cli_deinit, 284	wlan_get_address, 254
wlan_basic_cli_init, 284	wlan_get_antcfg, 273
wlan_btwt_config_t, 384	wlan_get_auto_reconnect_config, 303
wlan_cal_data_t, 381	wlan_get_average_signal_strength, 297
wlan_cfg_rf_he_tb_tx, 317	wlan_get_beacon_period, 276
wlan_chanlist_t, 383	wlan_get_board_type, 366
wlan_check_11ac_capa, 351	wlan_get_btwt_cfg, 337



wlan_get_cal_data, 299	wlan_get_uap_max_clients, 288
wlan_get_chanlist, 300	wlan_get_uap_supported_max_clients, 288
wlan_get_connection_state, 261	wlan_get_uap_turbo_mode, 353
wlan_get_current_bssid, 282	wlan_get_wlan_region_code, 294
wlan_get_current_channel, 282	wlan_host_11k_cfg, 341
wlan_get_current_network, 256	wlan_host_11k_neighbor_req, 342
wlan_get_current_network_bssid, 257	wlan_host_11v_bss_trans_query, 342
wlan_get_current_network_ssid, 257	wlan_host_set_sta_mac_filter, 365
wlan_get_current_nf, 245	wlan_ieeeps_off, 275
wlan_get_current_rssi, 245	wlan_ieeeps_on, 274
wlan get current signal strength, 297	wlan_independent_reset, 365
wlan_get_current_uap_network, 257	wlan_indrst_cfg_t, 385
wlan_get_current_uap_network_ssid, 258	wlan_init, 245
wlan_get_data_rate, 277	wlan_initialize_sta_network, 247
wlan_get_delay_to_ps, 271	wlan_initialize_uap_network, 247
wlan_get_dciay_to_ps, 277 wlan_get_dtim_period, 276	wlan_is_power_save_enabled, 272
wlan_get_dtini_period, 270 wlan_get_ed_mac_mode, 266	wlan_mef_set_auto_arp, 344
wlan get entp cert files, 350	wlan_mer_set_auto_ping, 344
wlan_get_ext_coex_stats, 295	wlan_mef_type, 393 wlan mgmt frame t, 384
wlan_get_firmware_version_ext, 273	_ •
wlan_get_host_11k_status, 341	wlan_monitor_opt, 390
wlan_get_indrst_cfg, 365	wlan_pmksa_flush, 343
wlan_get_listen_interval, 271	wlan_pmksa_list, 343
wlan_get_mac_address, 254	wlan_ps_mode, 388
wlan_get_mac_address_uap, 254	wlan_ps_state, 389
wlan_get_mgmt_ie, 294	wlan_reassociate, 252
wlan_get_network, 259	wlan_register_csi_user_callback, 346
wlan_get_network_byname, 260	wlan_register_fw_dump_cb, 324
wlan_get_network_count, 261	wlan_remain_on_channel, 298
wlan_get_otp_user_data, 298	wlan_remove_all_network_profiles, 247
wlan_get_pmfcfg, 277	wlan_remove_network, 248
wlan_get_ps_mode, 282	wlan_rf_trigger_frame_cfg, 318
wlan_get_region_code, 359	wlan_rssi_info_t, 385
wlan_get_rf_band, 315	wlan_rutxpwrlimit_t, 383
wlan_get_rf_bandwidth, 316	wlan_rx_mgmt_indication, 340
wlan_get_rf_channel, 314	wlan_save_cloud_keep_alive_params, 356
wlan_get_rf_otp_cal_data, 324	wlan_scan, 262
wlan_get_rf_otp_mac_addr, 323	wlan_scan_channel_list_t, 381
wlan_get_rf_per, 316	wlan_scan_params_v2_t, 381
wlan_get_rf_radio_mode, 314	wlan_scan_with_opt, 263
wlan_get_rf_rx_antenna, 321	wlan_security_type, 391
wlan get rf tx antenna, 320	wlan_send_debug_htc, 333
wlan_get_roaming_status, 270	wlan send hostcmd, 332
wlan_get_scan_result, 263	wlan set 11ax cfg, 336
wlan get signal info, 351	wlan_set_11ax_rutxpowerlimit, 335
wlan_get_sta_tx_power, 293	wlan_set_11ax_rutxpowerlimit_legacy, 335
wlan_get_tsf, 274	wlan set 11ax tol time, 334
wlan_get_tsf_info, 339	wlan_set_11ax_tx_omi, 334 wlan_set_11ax_tx_omi, 334
wlan_get_turbo_mode, 353	wlan_set_11d_state, 359
— -	
wlan_get_twt_report, 338	wlan_set_antcfg, 272
wlan_get_twt_setup_cfg, 337	wlan_set_auto_arp, 281
wlan_get_twt_teardown_cfg, 338	wlan_set_btwt_cfg, 336
wlan_get_txpwrlimit, 301	wlan_set_cal_data, 266
wlan_get_txratecfg, 293	wlan_set_chanlist, 300
wlan_get_uap_address, 255	wlan_set_chanlist_and_txpwrlimit, 299
wlan_get_uap_channel, 256	wlan_set_clocksync_cfg, 339
wlan_get_uap_connection_state, 262	wlan_set_country_code, 357
wlan_get_uap_ed_mac_mode, 266	wlan_set_country_ie_ignore, 358



wlan_set_crypto_AES_CCMP_decrypt, 329	wlan_set_uap_max_clients, 289
wlan_set_crypto_AES_CCMP_encrypt, 329	wlan_set_uap_rts, 311
wlan_set_crypto_AES_ECB_decrypt, 327	wlan_set_uap_turbo_mode, 355
wlan_set_crypto_AES_ECB_encrypt, 326	wlan_set_wwsm_txpwrlimit, 294
wlan_set_crypto_AES_GCMP_decrypt, 331	wlan_show_os_mem_stat, 340
wlan_set_crypto_AES_GCMP_encrypt, 330	wlan_sta_ampdu_rx_disable, 309
wlan_set_crypto_AES_WRAP_decrypt, 328	wlan_sta_ampdu_rx_enable, 309
wlan_set_crypto_AES_WRAP_encrypt, 327	wlan_sta_ampdu_tx_disable, 308
wlan_set_crypto_RC4_decrypt, 325	wlan_sta_ampdu_tx_enable, 308
wlan_set_crypto_RC4_encrypt, 325	wlan_start, 246
wlan_set_ed_mac_mode, 264	wlan_start_ap_wps_pbc, 349
wlan_set_entp_cert_files, 349	wlan_start_ap_wps_pin, 348
wlan_set_ext_coex_config, 296	wlan_start_cloud_keep_alive, 357
wlan_set_frag, 311	wlan_start_network, 252
wlan_set_htcapinfo, 289	wlan_start_wps_pbc, 348
wlan_set_httxcfg, 290	wlan_start_wps_pin, 347
wlan_set_ieeeps_cfg, 270	wlan_stop, 246
wlan_set_indrst_cfg, 365	wlan_stop_cloud_keep_alive, 357
wlan_set_ipv6_ns_mef, 345	wlan_stop_network, 253
wlan_set_ipv6_ns_offload, 281	wlan_string_dup, 366
wlan_set_mac_addr, 268	wlan_tcp_keep_alive, 275
wlan_set_mgmt_ie, 295	wlan_tcp_keep_alive_t, 382
wlan_set_network_ip_byname, 366	wlan_test_mode_cli_deinit, 287
wlan_set_okc, 342	wlan_test_mode_cli_init, 287
wlan_set_packet_filters, 278	wlan_tsf_info_t, 384
wlan_set_ps_cfg, 355	wlan_twt_information, 338
wlan_set_reassoc_control, 303	wlan_twt_information_t, 384
wlan_set_region_code, 358	wlan_twt_report_t, 384
wlan_set_region_power_cfg, 299	wlan_twt_setup_config_t, 383
wlan_set_rf_band, 314	wlan_twt_teardown_config_t, 384
wlan_set_rf_bandwidth, 315	wlan_tx_ampdu_prot_mode, 344
wlan_set_rf_channel, 313	wlan_txpwrlimit_t, 383
wlan_set_rf_otp_cal_data, 323	wlan_txrate_setting, 385
wlan_set_rf_otp_mac_addr, 322	wlan_uap_ampdu_rx_disable, 310
wlan_set_rf_radio_mode, 313	wlan_uap_ampdu_rx_enable, 309
wlan_set_rf_rx_antenna, 320	wlan_uap_ampdu_tx_disable, 309
wlan_set_rf_test_mode, 312	wlan_uap_ampdu_tx_enable, 309
wlan_set_rf_tx_antenna, 319	wlan_uap_client_disassoc_t, 385
wlan_set_rf_tx_cont_mode, 317	wlan_uap_ctrl_deauth, 306
wlan_set_rf_tx_frame, 322	wlan_uap_disconnect_sta, 366
wlan_set_rf_tx_power, 321	wlan_uap_get_bandwidth, 304
wlan_set_rg_power_cfg, 353	wlan_uap_get_pmfcfg, 278
wlan_set_roaming, 269	wlan_uap_set_bandwidth, 304
wlan_set_rssi_low_threshold, 347	wlan_uap_set_beacon_period, 304
wlan_set_rts, 310	wlan_uap_set_ecsa, 307
wlan_set_scan_channel_gap, 341	wlan_uap_set_hidden_ssid, 306
wlan_set_scan_interval, 343	wlan_uap_set_htcapinfo, 307
wlan_set_sta_mac_addr, 268	wlan_uap_set_httxcfg, 308
wlan_set_sta_mac_filter, 312	wlan_uap_set_scan_chan_list, 310
wlan_set_sta_tx_power, 293	wlan_unregister_csi_user_callback, 346
wlan_set_turbo_mode, 355	wlan_unset_rf_test_mode, 312
wlan_set_twt_setup_cfg, 337	wlan_version_extended, 273
wlan_set_twt_teardown_cfg, 337	wlan_wakeup_event_t, 387
wlan_set_txpwrlimit, 301	wlan_wfa_basic_cli_deinit, 283
wlan_set_txratecfg, 291	wlan_wfa_basic_cli_init, 283
wlan_set_uap_ed_mac_mode, 265	wlan_wlcmgr_send_msg, 283
wlan_set_uap_frag, 311	wlan_wmm_tx_stats_dump, 341
wlan_set_uap_mac_addr, 268	wlan_wowlan_cfg_ptn_match, 281



wlan_wowlan_ptn_cfg_t, 382	rsvd, 118
wlan_wps_ap_cancel, 349	rsvd2, 119
wlan_wps_cancel, 348	sms4, 118
wlan_wps_generate_pin, 347	tkip, 117
wlcm_d, 367	wep104, 117
wlcm_e, 367	wep40, 117
wlcm_w, 367	wlan_clear_mgmt_ie
wm_wlan_errno, 385	wlan.h, 296
wlan_11ax_config_t	wlan_cli_deinit
wlan.h, 383	wlan.h, 285
wlan_11d.h, 393	wlan_cli_init
wlan_enable_11d, 394	wlan.h, 285
wlan_enable_uap_11d, 394	wlan_clock_sync_gpio_tsf_t
wlan_add_network	wlan.h, 384
wlan.h, 248	wlan_cloud_keep_alive_enabled
wlan_auto_reconnect_config_t	wlan.h, 356
wlan.h, 382	wlan_cloud_keep_alive_t
wlan_auto_reconnect_disable	wlan.h, 382
wlan.h, 303	wlan_config_mef
wlan_auto_reconnect_enable	wlan.h, 345
wlan.h, 302	wlan_configure_delay_to_ps
wlan_bandcfg_t	wlan.h, 271
wlan.h, <mark>382</mark>	wlan_configure_listen_interval
wlan_basic_cli_deinit	wlan.h, 270
 wlan.h, <mark>284</mark>	wlan_configure_null_pkt_interval
wlan_basic_cli_init	wlan.h, 272
wlan.h, 284	wlan connect
wlan_bss_role	wlan.h, 249
wifi events.h, 240	wlan_connect_opt
wlan_bss_type	wlan.h, 251
wifi_events.h, 240	wlan_connection_state
wlan_btwt_config_t	wlan.h, 388
wlan.h, 384	wlan_csi_cfg
wlan_cal_data_t	wlan.h, 346
wlan.h, 381	wlan_csi_config_params_t
wlan_capa	wlan.h, 384
wlan_network, 127	wlan_csi_opt
wlan_retwork, 127 wlan_cfg_rf_he_tb_tx	wlan.h, 390
wlan-oig_n-ne_to_tx wlan.h, 317	wlan_cw_mode_ctrl_t
wlan_chanlist_t	wlan_cw_mode_cm_t wlan.h, 383
wlan.h, 383	wlan_deepsleepps_off
wlan check 11ac capa	wlan.h, 275
wlan-h, 351	wlan deepsleepps on
wlan_check_11ax_capa	wlan.h, 275
wlan-h, 351	•
	wlan_deinit wlan.h, 246
wlan_check_11n_capa	
wlan.h, 350	wlan_disconnect
wlan_cipher, 116	wlan.h, 252
aes_128_cmac, 117	wlan_dpp_auth_init
bip_cmac_256, 118	wlan.h, 362
bip_gmac_128, 118	wlan_dpp_bootstrap_gen
bip_gmac_256, 118	wlan.h, 361
ccmp, 117	wlan_dpp_bootstrap_get_uri
ccmp_256, 118	wlan.h, 361
gcmp, 117	wlan_dpp_chirp
gcmp_256, 118	wlan.h, 364
gtk_not_used, 118	wlan_dpp_configurator_add
none, 117	wlan.h, 359



	wlan_get_beacon_period
wlan.h, 360	wlan.h, <mark>276</mark>
wlan_dpp_configurator_sign	wlan_get_board_type
wlan.h, 364	wlan.h, 366
wlan_dpp_listen	wlan_get_btwt_cfg
wlan.h, 362	wlan.h, 337
wlan_dpp_mud_url	wlan_get_cal_data
wlan.h, 360	wlan.h, 299
	wlan_get_chanlist
wlan.h, 363	wlan.h, 300
	wlan_get_connection_state
wlan.h, 361	wlan.h, 261
	wlan_get_current_bssid
wlan.h, 364	wlan.h, 282
	wlan_get_current_channel
wlan.h, 363	wlan.h, 282
	wlan_get_current_network
wlan.h, 382	wlan.h, 256
	wlan_get_current_network_bssid
wlan.h, 382	wlan.h, 257
	wlan_get_current_network_ssid
wlan_11d.h, 394	wlan.h, <mark>257</mark>
wlan_enable_disable_htc	wlan_get_current_nf
wlan.h, 333	wlan.h, 245
wlan_enable_low_pwr_mode	wlan_get_current_rssi
wlan.h, 264	wlan.h, 245
wlan_enable_uap_11d	wlan_get_current_signal_strength
wlan_11d.h, 394	wlan.h, 297
wlan_enhanced_cli_deinit	wlan_get_current_uap_network
wlan.h, 286	wlan.h, 257
wlan_enhanced_cli_init	wlan_get_current_uap_network_ssid
wlan.h, 286	wlan.h, 258
	wlan_get_data_rate
wlan.h, 386	wlan_get_data_rate wlan.h, 277
	wlan_get_delay_to_ps
	_ , _ , _ ,
wlan.h, 383	wlan.h, 271
	wlan_get_dtim_period
wlan.h, 383	wlan.h, 276
	wlan_get_ed_mac_mode
wlan.h, 382	wlan.h, 266
	wlan_get_entp_cert_files
wlan.h, 350	wlan.h, 350
	wlan_get_ext_coex_stats
wlan.h, 340	wlan.h, 295
wlan_get_11ax_cfg	wlan_get_firmware_version_ext
wlan.h, 336	wlan.h, 273
wlan_get_11ax_rutxpowerlimit_legacy	wlan_get_host_11k_status
wlan.h, 335	wlan.h, 341
wlan_get_11d_enable_status	wlan_get_indrst_cfg
wlan.h, 296	wlan.h, 365
	wlan_get_listen_interval
wlan.h, 254	wlan.h, 271
	wlan_get_mac_address
wlan.h, 273	wlan.h, 254
	wlan_get_mac_address_uap
wlan.h, 303	wlan_get_mac_address_dap wlan.h, 254
	wlan_get_mgmt_ie
wlan_get_average_signal_strength	wlan_get_ingint_ie wlan.h, 294
**************************************	wianin, <u>Lut</u>



wlan_get_network	wlan_get_uap_channel
wlan.h, 259	wlan.h, 256
wlan_get_network_byname wlan.h, 260	wlan_get_uap_connection_state wlan.h, 262
wlan_get_network_count wlan.h, 261	wlan_get_uap_ed_mac_mode wlan.h, 266
wlan_get_otp_user_data wlan.h, 298	wlan_get_uap_max_clients wlan.h, 288
wlan_get_pmfcfg	wlan_get_uap_supported_max_clients
wlan.h, 277	wlan.h, 288
wlan_get_ps_mode wlan.h, 282	wlan_get_uap_turbo_mode wlan.h, 353
wlan_get_region_code	wlan_get_wlan_region_code
wlan.h, 359	wlan.h, 294
wlan_get_rf_band	wlan_grant_count
wlan.h, 315	wifi_ext_coex_stats_t, 56
wlan_get_rf_bandwidth	wlan_host_11k_cfg
wlan.h, 316	wlan.h, 341
wlan_get_rf_channel	wlan_host_11k_neighbor_req
wlan.h, 314	wlan.h, 342
wlan_get_rf_otp_cal_data wlan.h, 324	wlan_host_11v_bss_trans_query wlan.h, 342
•	wlan_host_set_sta_mac_filter
wlan_get_rf_otp_mac_addr	wlan.h, 365
wlan.h, 323	
wlan_get_rf_per	wlan_ieeeps_config, 119
wlan.h, 316	adhoc_awake_period, 120
wlan_get_rf_radio_mode	bcn_miss_timeout, 120
wlan.h, 314	delay_to_ps, 120
wlan_get_rf_rx_antenna	listen_interval, 119
wlan.h, 321	multiple_dtim_interval, 119
wlan_get_rf_tx_antenna	ps_mode, 120
wlan.h, 320	ps_null_interval, 119
wlan_get_roaming_status	wlan_ieeeps_off
wlan.h, 270	wlan.h, 275
wlan_get_scan_result	wlan_ieeeps_on
wlan.h, 263	wlan.h, 274
wlan_get_signal_info	wlan_independent_reset
wlan.h, 351	wlan.h, 365
wlan_get_sta_tx_power	wlan_indrst_cfg_t
wlan.h, 293	wlan.h, 385
wlan_get_tsf	wlan_init
wlan.h, 274	wlan.h, 245
wlan_get_tsf_info	wlan_initialize_sta_network
wlan.h, 339	wlan.h, 247
wlan_get_turbo_mode	wlan_initialize_uap_network
wlan.h, 353	wlan.h, 247
wlan_get_twt_report	wlan_ip_config, 120
wlan.h, 338	ipv4, 121
wlan_get_twt_setup_cfg	ipv6, 121
wlan.h, 337	ipv6_count, 121
wlan_get_twt_teardown_cfg	wlan_is_power_save_enabled
wlan.h, 338	wlan.h, 272
wlan_get_txpwrlimit	wlan_mef_set_auto_arp
wlan.h, 301	wlan.h, 344
wlan_get_txratecfg	wlan_mef_set_auto_ping
wlan.h, 293	wlan.h, 344
wlan_get_uap_address	wlan_mef_type
wlan.h, 255	wlan.h, 393



wlan_message, 121	client_key_len, 134
data, 121	client_key_passwd, 134
id, 121	dh_data, 136
wlan_mgmt_frame_t	dh_len, 136
wlan.h, 384	domain_match, 134
wlan_monitor_opt	domain_suffix_match, 135
wlan.h, 390	dpp_c_sign_key, 137
wlan network, 122	dpp_connector, 137
acs band, 124	dpp_net_access_key, 138
beacon_period, 127	eap_crypto_binding, 133
bss_transition_supported, 127	eap_password, 133
	. —
bssid, 123	eap_result_ind, 133
bssid_specific, 125	eap_ver, 132
btm_mode, 127	fast_prov, 137
channel, 124	group_cipher, 130
channel_specific, 126	group_mgmt_cipher, 130
dot11ac, 126	identities, 137
dot11ax, 126	identity, 133
dot11n, 126	is_pmf_required, 130
dtim_period, 127	key_mgmt, 129
ft_1x, 127	mcstCipher, 130
ft_psk, 127	mfpc, 132
ft_sae, 127	mfpr, 132
he_oper_chwidth, 125	nusers, 136
ht_capab, 124	pac_opaque_encr_key, 137
id, 123	pairwise_cipher, 130
ip, 125	password, 131
mdid, 126	password_len, 131
name, 123	passwords, 137
·	passwords, 137 peap_label, 132
neighbor_report_supported, 128	
role, 125	pkc, 130
rssi, 124	pmk, 131
sec_channel_offset, 124	pmk_valid, 132
security, 125	psk, 130
security_specific, 126	psk_len, 131
ssid, 123	pwe_derivation, 131
ssid_specific, 125	sae_groups, 131
type, 125	server_cert_data, 136
vht_capab, 124	server_cert_len, 136
vht_oper_chwidth, 124	server_key_data, 136
wlan_capa, 127	server_key_len, 136
wps_network, 123	server_key_passwd, 136
wlan_network_security, 128	tls_cipher, 133
a id, 137	transition_disable, 131
anonymous_identity, 133	type, 129
ca_cert2_data, 135	ucstCipher, 130
ca cert2 len, 135	wpa3_sb, 132
ca_cert_data, 133	wpa3_sb_192, 132
ca_cert_hash, 134	wlan_nlist_mode
ca cert len, 134	wifi.h, 236
:	
client_cert2_data, 135	wlan_nlist_report_param, 138
client_cert2_len, 135	bssid, 139
client_cert_data, 134	btm_mode, 139
client_cert_len, 134	channels, 138
client_key2_data, 135	dialog_token, 139
client_key2_len, 135	dst_addr, 139
client_key2_passwd, 135	nlist_mode, 138
client_key_data, 134	num_channels, 138



protect, 139	wlan_save_cloud_keep_alive_params
wlan_pmksa_flush	wlan.h, 356
wlan.h, 343	wlan_scan
wlan_pmksa_list	wlan.h, <mark>262</mark>
wlan.h, 343	wlan_scan_channel_list_t
wlan_ps_mode	wlan.h, <mark>381</mark>
wlan.h, 388	wlan_scan_params_v2_t
wlan_ps_state	wlan.h, <mark>38</mark> 1
wlan.h, 389	wlan_scan_result, 144
wlan_reassociate	ap_mfpc, 149
wlan.h, 252	ap_mfpr, 149
wlan_register_csi_user_callback	ap_pwe, 149
wlan.h, 346	beacon_period, 149
wlan_register_fw_dump_cb	bss_transition_supported, 149
wlan.h, 324	bssid, 145
wlan_remain_on_channel	channel, 145
wlan.h, 298	dot11ac, 146
wlan_remove_all_network_profiles	dot11ax, 146
wlan.h, 247	dot11n, 145
wlan_remove_network	dtim_period, 149
wlan.h, 248	ft_1x, 147
wlan_rf_trigger_frame_cfg	ft_1x_sha384, 148
wlan.h, 318	ft_psk, 148
wlan_rrm_beacon_report_data, 139	ft_sae, 148
bits_field, 141	neighbor_report_supported, 149
bssid, 140	role, 145
channel, 140	rssi, 148
channel_num, 140	ssid, 145
duration, 140	ssid_len, 145
last_ind, 140	trans_bssid, 148
report_detail, 141	trans_ssid, 148
ssid, 140	trans_ssid_len, 148
ssid_length, 140	type, 145
token, 140	wep, 146
wlan_rrm_beacon_reporting_detail	wmm, 146
wifi.h, 236	wpa, 146
wlan_rrm_neighbor_ap_t, 141	wpa2, 147
	•
bssid, 141	wpa2_entp, 147 wpa2_entp_sha256, 147
bssidInfo, 141	. – .–
channel, 142	wpa2_sha256, 147
freq, 142	wpa3_1x_sha256, 147
op_class, 142	wpa3_1x_sha384, 147
phy_type, 142	wpa3_sae, 147
ssid, 141	wps, 146
wlan_rrm_neighbor_report_t, 142	wps_session, 146
neighbor_ap, 142	wlan_scan_with_opt
neighbor_cnt, 143	wlan.h, 263
wlan_rrm_scan_cb_param, 143	wlan_security_type
dialog_tok, 143	wlan.h, 391
dst_addr, 143	wlan_send_debug_htc
protect, 143	wlan.h, 333
rep_data, 143	wlan_send_hostcmd
wlan_rssi_info_t	wlan.h, 332
wlan.h, 385	wlan_set_11ax_cfg
wlan_rutxpwrlimit_t	wlan.h, 336
wlan.h, 383	wlan_set_11ax_rutxpowerlimit
wlan_rx_mgmt_indication	wlan.h, 335
wlan.h, 340	wlan_set_11ax_rutxpowerlimit_legacy



wlan.h, 335	wlan.h, 270
wlan_set_11ax_tol_time	wlan_set_indrst_cfg
wlan.h, 334	wlan.h, 365
wlan_set_11ax_tx_omi	wlan_set_ipv6_ns_mef
wlan.h, 334	wlan_set_ipvo_ns_mer
•	ŕ
wlan_set_11d_state	wlan_set_ipv6_ns_offload
wlan.h, 359	wlan.h, 281
wlan_set_antcfg	wlan_set_mac_addr
wlan.h, 272	wlan.h, 268
wlan_set_auto_arp	wlan_set_mgmt_ie
wlan.h, 281	wlan.h, 295
wlan_set_btwt_cfg	wlan_set_network_ip_byname
wlan.h, 336	wlan.h, 366
wlan_set_cal_data	wlan_set_okc
wlan.h, 266	wlan.h, 342
wlan_set_chanlist	wlan_set_packet_filters
wlan.h, 300	wlan.h, 278
wlan_set_chanlist_and_txpwrlimit	wlan_set_ps_cfg
wlan.h, 299	wlan.h, 355
wlan_set_clocksync_cfg	wlan_set_reassoc_control
wlan.h, 339	wlan.h, 303
wlan_set_country_code	wlan_set_region_code
wlan.h, 357	wlan.h, 358
wlan set country ie ignore	wlan_set_region_power_cfg
wlan.h, 358	wlan.h, 299
wlan_set_crypto_AES_CCMP_decrypt	wlan_set_rf_band
wlan.h, 329	wlan.h, 314
wlan_set_crypto_AES_CCMP_encrypt	wlan_set_rf_bandwidth
wlan.h, 329	wlan.h, 315
wlan_set_crypto_AES_ECB_decrypt	wlan_set_rf_channel
wlan.h, 327	wlan.h, 313
wlan_set_crypto_AES_ECB_encrypt	wlan_set_rf_otp_cal_data
wlan.h, 326	wlan.h, 323
wlan_set_crypto_AES_GCMP_decrypt	wlan_set_rf_otp_mac_addr
wlan.h, 331	wlan.h, 322
wlan_set_crypto_AES_GCMP_encrypt	wlan_set_rf_radio_mode
wlan.h, 330	wlan.h, 313
wlan_set_crypto_AES_WRAP_decrypt	wlan_set_rf_rx_antenna
wlan.h, 328	wlan.h, 320
wlan_set_crypto_AES_WRAP_encrypt	wlan_set_rf_test_mode
wlan.h, 327	wlan.h, 312
wlan_set_crypto_RC4_decrypt	wlan_set_rf_tx_antenna
wlan.h, 325	wlan.h, 319
wlan_set_crypto_RC4_encrypt	wlan_set_rf_tx_cont_mode
wlan.h, 325	wlan.h, 317
wlan_set_ed_mac_mode	wlan_set_rf_tx_frame
wlan.h, 264	wlan.h, 322
wlan_set_entp_cert_files	wlan_set_rf_tx_power
wlan.h, 349	wlan.h, <mark>321</mark>
wlan_set_ext_coex_config	wlan_set_rg_power_cfg
wlan.h, 296	wlan.h, 353
wlan_set_frag	wlan_set_roaming
wlan.h, 311	wlan.h, 269
wlan_set_htcapinfo	wlan_set_rssi_low_threshold
wlan.h, 289	wlan.h, 347
wlan_set_httxcfg	wlan_set_rts
wlan.h, 290	wlan.h, 310
wlan_set_ieeeps_cfg	wlan_set_scan_channel_gap



wlan.h, 341	wlan.h, 246
wlan_set_scan_interval	wlan_stop_cloud_keep_alive
wlan.h, 343	wlan.h, 357
wlan_set_sta_mac_addr	wlan_stop_network
wlan.h, 268	wlan.h, 253
wlan_set_sta_mac_filter	wlan_string_dup
wlan.h, 312	wlan.h, 366
wlan_set_sta_tx_power	wlan_tcp_keep_alive
wlan.h, 293	wlan.h, 275
wlan set turbo mode	wlan_tcp_keep_alive_t
wlan.h, 355	wlan.h, 382
wlan set twt setup cfg	wlan test mode cli deinit
wlan.h, 337	wlan.h, 287
wlan_set_twt_teardown_cfg	wlan_test_mode_cli_init
wlan.h, 337	wlan.h, 287
wlan_set_txpwrlimit	wlan_tests.h, 395
wlan.h, 301	print_txpwrlimit, 395
wlan_set_txratecfg	test_wlan_cfg_process, 39
wlan.h, 291	wlan_tsf_info_t
wlan_set_uap_ed_mac_mode	wlan.h, 384
wlan.h, 265	wlan_twt_information
wlan_set_uap_frag	wlan.h, <mark>338</mark>
wlan.h, 311	wlan_twt_information_t
wlan_set_uap_mac_addr	wlan.h, 384
wlan.h, 268	wlan_twt_report_t
wlan_set_uap_max_clients	wlan.h, 384
wlan.h, 289	wlan_twt_setup_config_t
wlan_set_uap_rts	wlan.h, 383
wlan.h, 311	wlan_twt_teardown_config_t
wlan_set_uap_turbo_mode	wlan.h, 384
wlan.h, 355	wlan_tx_ampdu_prot_mode
wlan_set_wwsm_txpwrlimit	wlan.h, 344
wlan.h, 294	wlan_txpwrlimit_t
wlan_show_os_mem_stat	wlan.h, 383
wlan.h, 340	wlan_txrate_setting
wlan_sta_ampdu_rx_disable	wlan.h, 385
wlan.h, 309	
wlan sta ampdu rx enable	wlan_type wifi-decl.h, 181
wlan.h, 309	
	wlan_uap_ampdu_rx_disable
wlan_sta_ampdu_tx_disable	wlan.h, 310
wlan.h, 308	wlan_uap_ampdu_rx_enable
wlan_sta_ampdu_tx_enable	wlan.h, 309
wlan.h, 308	wlan_uap_ampdu_tx_disable
wlan_start	wlan.h, 309
wlan.h, 246	wlan_uap_ampdu_tx_enable
wlan_start_ap_wps_pbc	wlan.h, 309
wlan.h, 349	wlan_uap_client_disassoc_t
wlan_start_ap_wps_pin	wlan.h, 385
wlan.h, 348	wlan_uap_ctrl_deauth
wlan_start_cloud_keep_alive	wlan.h, 306
wlan.h, 357	wlan_uap_disconnect_sta
wlan_start_network	wlan.h, 366
wlan.h, 252	wlan_uap_get_bandwidth
wlan_start_wps_pbc	wlan.h, 304
wlan.h, 348	wlan_uap_get_pmfcfg
wlan_start_wps_pin	wlan.h, 278
wlan.h, 347	wlan_uap_set_bandwidth
wlan_stop	wlan.h, 304



wlan_uap_set_beacon_period	NET_BLOCKING_OFF, 409
wlan.h, 304	NET_BLOCKING_ON, 409
wlan_uap_set_ecsa	NET_ENOBUFS, 409
wlan.h, 307	NET_ERROR, 408
wlan_uap_set_hidden_ssid	NET_SUCCESS, 408
wlan.h, 306	net_accept, 410
wlan_uap_set_htcapinfo	net_address_types, 411
wlan.h, 307	net_alloc_client_data_id, 400
wlan_uap_set_httxcfg	net_bind, 409
wlan.h, 308	net_close, 410
wlan_uap_set_scan_chan_list	net_configure_address, 402
wlan.h, 310	net_configure_dns, 403
wlan_unregister_csi_user_callback	net_connect, 410
wlan.h, 346	net_dhcp_hostname_set, 396
wlan_unset_rf_test_mode	net_get_if_addr, 403
wlan.h, 312	net_get_if_ip_addr, 406
wlan_version_extended	net_get_if_ip_mask, 406
wlan.h, 273	net_get_if_ipv6_addr, 403
wlan_wakeup_event_t	net_get_if_ipv6_pref_addr, 404
wlan.h, 387	net_get_if_name, 405
wlan_wfa_basic_cli_deinit	net_get_mlan_handle, 411
wlan.h, 283	net_get_sock_error, 397
wlan_wfa_basic_cli_init	net_get_sta_handle, 400
wlan.h, 283	net_get_sta_interface, 399
wlan_wlcmgr_send_msg	net_get_uap_handle, 400
wlan.h, 283	net_get_uap_interface, 400
wlan_wmm_tx_stats_dump	net_inet_aton, 397
wlan.h, 341	net_inet_ntoa, 398
wlan_wowlan_cfg_ptn_match	net_interface_dhcp_cleanup, 402
wlan.h, 281	net_interface_dhcp_stop, 402
wlan_wowlan_ptn_cfg_t	net_interface_down, 401
wlan.h, 382	net_interface_up, 401
wlan_wps_ap_cancel	net_ipv4stack_init, 408
wlan.h, 349	net_listen, 410
wlan_wps_cancel	net_read, 410
wlan.h, 348	net_select, 409
wlan_wps_generate_pin	net_shutdown, 410
wlan.h, 347	net_sock_to_interface, 398
wlcm_d	net_socket, 409
wlan.h, 367	net_socket_blocking, 396
wlcm_e	net_stack_buffer_skip, 398
wlan.h, 367	net_stat, 408
wlcm_w	net_stop_dhcp_timer, 396
wlan.h, 367	net_wlan_deinit, 399
wm_bin2hex	net_wlan_init, 399
wm_utils.h, 412	net_wlan_set_mac_address, 397
wm_dhcpd_errno	net_write, 411
dhcp-server.h, 159	wm_rand_seed
wm_frac_part_of	osa.h, 171
wm_utils.h, 415	wm_strtof
wm_hex2bin	wm_utils.h, 416
wm_utils.h, 412	wm_utils.h, 411
wm_int_part_of	WM_ALIGN, 418
wm_utils.h, 420	dump_ascii, 419
wm_net.h, 396	dump_hex, 419
ipv6_addr_addr_to_desc, 405	dump_hex_ascii, 419
ipv6_addr_state_to_desc, 404	dump_json, 420
ipv6_addr_type_to_desc, 405	ffs, 418



fill_sequential_pattern, 417	wpa3_sae
get_random_sequence, 415	_SecurityMode_t, 13
NORETURN, 418	wlan_scan_result, 147
PACK END, 418	wpa3_sb
PACK_START, 418	wlan_network_security, 132
print ascii, 419	wpa3_sb_192
random_hdlr_t, 420	wlan_network_security, 132
random_initialize_seed, 414	wpa_mcstCipher
random_register_handler, 413	wifi scan result2, 96
random_register_seed_handler, 413	wpa_ucstCipher
random_unregister_handler, 413	wifi_scan_result2, 96
random_unregister_seed_handler, 414	wpaNone
sample_initialise_random_seed, 415	_SecurityMode_t, 13
soft_crc32, 416	wps
	wlan_scan_result, 146
strdup, 415	wps_IE_exist
verify_sequential_pattern, 417	wifi_scan_result2, 98
WARN_UNUSED_RET, 418	wps_network
WM_MASK, 418	
wm_bin2hex, 412	wlan_network, 123
wm_frac_part_of, 415	wps_session
wm_hex2bin, 412	wifi_scan_result2, 98
wm_int_part_of, 420	wlan_scan_result, 146
wm_strtof, 416	wrapper_clear_media_connected_event
wmpanic, 412	wifi.h, 206
wm_wlan_errno	wrapper_wifi_assoc
wlan.h, 385	wifi.h, 208
wmm	wrapper_wlan_11d_clear_parsedtable
wlan_scan_result, 146	wifi.h, 206
wmm_ie_present	wrapper_wlan_11d_enable
wifi_scan_result2, 98	wifi.h, 210
wmpanic	wrapper_wlan_11d_support_is_enabled
wm_utils.h, 412	wifi.h, 205
wnm_sleep_result_t, 150	wrapper_wlan_cmd_11n_addba_rspgen
action, 150	wifi.h, 210
result, 150	wrapper_wlan_cmd_11n_ba_stream_timeout
wpa	wifi.h, 209
	wrapper_wlan_cmd_11n_delba_rspgen
_SecurityMode_t, 12	wifi.h, 210
wlan_scan_result, 146	wrapper_wlan_cmd_get_hw_spec
wpa2	wifi.h, 205
_SecurityMode_t, 13	wrapper_wlan_ecsa_enable
wlan_scan_result, 147	wifi.h, 210
wpa2_entp	wrapper_wlan_sta_ampdu_enable
_SecurityMode_t, 13	wifi.h, 211
wlan_scan_result, 147	wrapper_wlan_uap_11d_enable
wpa2_entp_IE_exist	wifi.h, 210
wifi_scan_result2, 98	wrapper_wlan_uap_ampdu_enable
wpa2_entp_sha256	wifi.h, 211
_SecurityMode_t, 13	write_index
wlan_scan_result, 147	csi_local_buff_statu, 17
wpa2_sha256	0000a0aotata,
_SecurityMode_t, 13	
wlan_scan_result, 147	
wpa3_1x_sha256	
SecurityMode_t, 14	
wlan_scan_result, 147	
wpa3_1x_sha384	
_SecurityMode_t, 14	
wlan_scan_result, 147	
wan_soan_rosult, 17/	

