

# Reference Manual

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# Chapter 1

## Class Index

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## Chapter 2

# Class Documentation

### 2.1 `_CWPrivateSafeElement` Struct Reference

#### Public Attributes

- void \* **pData**
- int **nSize**
- struct `_CWPrivateSafeElement` \* **pPrev**
- struct `_CWPrivateSafeElement` \* **pNext**

#### 2.1.1 Detailed Description

Definition at line 36 of file `CWSafeList.h`.

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

- `CWSafeList.h`

### 2.2 `_CWPrivateSafeList` Struct Reference

#### Public Attributes

- `CWThreadMutex` \* **pThreadMutex**
- `CWThreadCondition` \* **pThreadCond**
- unsigned long **nCount**
- `CWPrivateSafeElement` \* **pFirstElement**
- `CWPrivateSafeElement` \* **pLastElement**

### 2.2.1 Detailed Description

Definition at line 44 of file CWSafeList.h.

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

- CWSafeList.h

## 2.3 `_FREQ_MONITOR_DATA` Struct Reference

### Public Attributes

- int **numberOfCells**
- [FreqQualityInfo](#) \* **qualityOfCells**

### 2.3.1 Detailed Description

Definition at line 68 of file WTPFreqStatsReceive.h.

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

- WTPFreqStatsReceive.h

## 2.4 `_FreqQualityInfo` Struct Reference

### Public Attributes

- uint8 **version**
- char **ESSID** [MAX\_ESSID\_LENGTH]
- char **Address** [MAX\_MAC\_ADDR\_LENGTH]
- uint8 **channel**
- uint8 **assocStations**
- uint8 **throughStations**
- [quality](#) **qualityLevel**
- int **signalLevel**
- int **noiseLevel**

### 2.4.1 Detailed Description

Definition at line 56 of file WTPFreqStatsReceive.h.

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

- WTPFreqStatsReceive.h



## 2.5 `_MM_MONITOR_DATA` Struct Reference

### Public Attributes

- int **nInterfaceId**
- struct timeval **timeData**
- unsigned long **nInputFrame**
- unsigned long **nInputBandwidth**
- unsigned long **nOutputFrame**
- unsigned long **nOutputBandwidth**
- struct [ath\\_stats\\_clone](#) **athCurrentStats**

### 2.5.1 Detailed Description

Definition at line 172 of file `WTPStatsReceive.h`.

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

- `WTPStatsReceive.h`

## 2.6 `_quality` Struct Reference

### Public Attributes

- uint8 **numerator**
- uint8 **denominator**

### 2.6.1 Detailed Description

Definition at line 51 of file `WTPFreqStatsReceive.h`.

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

- `WTPFreqStatsReceive.h`

## 2.7 `_s` Struct Reference

### Public Attributes

- void \* **data**
- struct `_s` \* **next**

### 2.7.1 Detailed Description

Definition at line 34 of file CWList.h.

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

- CWList.h

## 2.8 ACIPv4ListValues Struct Reference

### Public Attributes

- int **ACIPv4ListCount**
- int \* **ACIPv4List**

### 2.8.1 Detailed Description

Definition at line 34 of file WTPProtocol.h.

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

- WTPProtocol.h

## 2.9 ACIPv6ListValues Struct Reference

### Public Attributes

- int **ACIPv6ListCount**
- struct in6\_addr \* **ACIPv6List**

### 2.9.1 Detailed Description

Definition at line 39 of file WTPProtocol.h.

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

- WTPProtocol.h

## 2.10 applicationsManager Struct Reference

### Public Attributes

- CWSocket **appSocket** [MAX\_APPS\_CONNECTED\_TO\_AC]

- CWBool **isFree** [MAX\_APPS\_CONNECTED\_TO\_AC]
- CWThreadMutex **socketMutex** [MAX\_APPS\_CONNECTED\_TO\_AC]
- int **numSocketFree**
- CWThreadMutex **numSocketFreeMutex**

### 2.10.1 Detailed Description

Definition at line 85 of file CWAC.h.

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

- CWAC.h

## 2.11 ath\_stats\_clone Struct Reference

### Public Attributes

- u\_int32\_t **ast\_watchdog**
- u\_int32\_t **ast\_hardware**
- u\_int32\_t **ast\_bmiss**
- u\_int32\_t **ast\_rxorn**
- u\_int32\_t **ast\_rxeol**
- u\_int32\_t **ast\_txurn**
- u\_int32\_t **ast\_mib**
- u\_int32\_t **ast\_tx\_packets**
- u\_int32\_t **ast\_tx\_bytes**
- u\_int32\_t **ast\_tx\_mgmt**
- u\_int32\_t **ast\_tx\_discard**
- u\_int32\_t **ast\_tx\_invalid**
- u\_int32\_t **ast\_tx\_qstop**
- u\_int32\_t **ast\_tx\_encap**
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- u\_int32\_t **ast\_tx\_altrate**

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- `u_int32_t ast_rx_orn`
- `u_int32_t ast_rx_crcerr`
- `u_int32_t ast_rx_fifoerr`
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- `u_int32_t ast_rx_mgt`
- `u_int32_t ast_rx_ctl`
- `int8_t ast_tx_rssi`
- `int8_t ast_rx_rssi`
- `u_int32_t ast_be_xmit`
- `u_int32_t ast_be_nobuf`
- `u_int32_t ast_per_cal`
- `u_int32_t ast_per_calfail`
- `u_int32_t ast_per_rfgain`
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- `u_int32_t ast_rate_raise`
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- `u_int32_t ast_ant_defswitch`
- `u_int32_t ast_ant_txswitch`
- `u_int32_t ast_ant_rx` [8]
- `u_int32_t ast_ant_tx` [8]
- struct [ath\\_stats\\_wme\\_clone](#) `ast_wme` [WME\_NUM\_AC]

### 2.11.1 Detailed Description

Definition at line 107 of file WTPStatsReceive.h.

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

- WTPStatsReceive.h

## 2.12 ath\_stats\_wme\_clone Struct Reference

### Public Attributes

- `u_int32_t tx_packetscount`
- `u_int32_t tx_packetslen`

- `u_int32_t rx_packetscount`
- `u_int32_t rx_packetslen`
- `u_int32_t tx_shortretry`
- `u_int32_t tx_longretry`
- `u_int32_t tx_pending`
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- `u_int8_t wme_chan_logcwmax`
- `u_int8_t wme_chan_aifsn`
- `u_int16_t wme_chan_txopLimit`
- `u_int8_t wme_bss_logcwmmin`
- `u_int8_t wme_bss_logcwmax`
- `u_int8_t wme_bss_aifsn`
- `u_int16_t wme_bss_txopLimit`

### 2.12.1 Detailed Description

Definition at line 85 of file WTPStatsReceive.h.

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

- WTPStatsReceive.h

## 2.13 bindingValues Struct Reference

### Public Attributes

- [WTPQosValues](#) \* `qosValues`

### 2.13.1 Detailed Description

Definition at line 121 of file CWBinding.h.

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

- CWBinding.h

## 2.14 BIO\_memory\_data Struct Reference

### Public Attributes

- CWSocket `sock`

- CWNetworkLev4Address **sendAddress**
- CWSafeList \* **pRecvAddress**
- unsigned int **nMtu**

### 2.14.1 Detailed Description

Definition at line 46 of file CWOpenSSLBio.c.

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

- CWOpenSSLBio.c

## 2.15 CWACDescriptor Struct Reference

### Public Attributes

- char \* **address**
- CWBool **received**
- int **seqNum**

### 2.15.1 Detailed Description

Definition at line 46 of file CWWTP.h.

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

- CWWTP.h

## 2.16 CWACInfoValues Struct Reference

### Public Attributes

- int **stations**
- int **limit**
- int **activeWTPs**
- int **maxWTPs**
- CWAuthSecurity **security**
- int **RMACField**
- int **DTLSPolicy**
- [CWACVendorInfos](#) **vendorInfos**
- char \* **name**
- [CWProtocolIPv4NetworkInterface](#) \* **IPv4Addresses**
- int **IPv4AddressesCount**
- [CWProtocolIPv6NetworkInterface](#) \* **IPv6Addresses**

- int **IPv6AddressesCount**
- [ACIPv4ListValues](#) **ACIPv4ListInfo**
- [ACIPv6ListValues](#) **ACIPv6ListInfo**
- CWNetworkLev4Address **preferredAddress**
- CWNetworkLev4Address **incomingAddress**

### 2.16.1 Detailed Description

Definition at line 44 of file WTPProtocol.h.

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

- WTPProtocol.h

## 2.17 CWACNamesWithIndex Struct Reference

### Public Attributes

- int **count**
- [CWACNameWithIndexValues](#) \* **ACNameIndex**

### 2.17.1 Detailed Description

Definition at line 493 of file CWProtocol.h.

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

- CWProtocol.h

## 2.18 CWACNameWithIndexValues Struct Reference

### Public Attributes

- int **index**
- char \* **ACName**

### 2.18.1 Detailed Description

Definition at line 488 of file CWProtocol.h.

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

- CWProtocol.h

## 2.19 CWACThreadArg Struct Reference

### Public Attributes

- int **index**
- CWSocket **sock**
- int **interfaceIndex**

### 2.19.1 Detailed Description

Definition at line 113 of file ACMainLoop.c.

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

- ACMainLoop.c

## 2.20 CWACVendorInfos Struct Reference

### Public Attributes

- int **vendorInfosCount**
- [CWACVendorInfoValues](#) \* **vendorInfos**

### 2.20.1 Detailed Description

Definition at line 452 of file CWProtocol.h.

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

- CWProtocol.h

## 2.21 CWACVendorInfoValues Struct Reference

### Public Types

- enum { **CW\_AC\_HARDWARE\_VERSION** = 4, **CW\_AC\_SOFTWARE\_VERSION** = 5 }

### Public Attributes

- int **vendorIdentifier**
- enum CWACVendorInfoValues:: { ... } **type**
- int **length**
- int \* **valuePtr**



### 2.21.1 Detailed Description

Definition at line 442 of file CWProtocol.h.

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

- CWProtocol.h

## 2.22 CWBindingConfigurationRequestValues Struct Reference

### Public Attributes

- int **qosCount**
- [RadioQosValues](#) \* **radioQosValues**

### 2.22.1 Detailed Description

Definition at line 38 of file WTPBinding.h.

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

- WTPBinding.h

## 2.23 CWBindingConfigurationUpdateRequestValues Struct Reference

### Public Attributes

- int **qosCount**
- [RadioQosValues](#) \* **radioQosValues**

### 2.23.1 Detailed Description

Definition at line 43 of file WTPBinding.h.

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

- WTPBinding.h

## 2.24 CWBindingConfigurationUpdateRequestValuesOFDM Struct Reference

### Public Attributes

- unsigned char **radioid**

- [OFDMControlValues](#) \* **radioOFDMValues**

### 2.24.1 Detailed Description

Definition at line 54 of file WTPBinding.h.

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

- WTPBinding.h

## 2.25 CWBindingDataListElement Struct Reference

### Public Attributes

- [CWProtocolMessage](#) \* **frame**
- [CWBindingTransportHeaderValues](#) \* **bindingValues**

### 2.25.1 Detailed Description

Definition at line 134 of file CWBinding.h.

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

- CWBinding.h

## 2.26 CWBindingTransportHeaderValues Struct Reference

### Public Attributes

- char **RSSI**
- char **SNR**
- int **dataRate**

### 2.26.1 Detailed Description

Definition at line 128 of file CWBinding.h.

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

- CWBinding.h

## 2.27 CWConfigValue Struct Reference

### Public Types

- enum { **CW\_INTEGER**, **CW\_STRING**, **CW\_STRING\_ARRAY** }

### Public Attributes

- enum CWConfigValue:: { ... } **type**
- union {
  - int **int\_value**
  - char \* **str\_value**
  - char \*\* **str\_array\_value** } **value**
- char \* **code**
- char \* **endcode**
- int **count**

#### 2.27.1 Detailed Description

Definition at line 34 of file CWConfigFile.h.

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

- CWConfigFile.h

## 2.28 CWControlHeaderValues Struct Reference

### Public Attributes

- unsigned int **messageTypeValue**
- unsigned char **seqNum**
- unsigned short **msgElemsLen**

#### 2.28.1 Detailed Description

Definition at line 354 of file CWProtocol.h.

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

- CWProtocol.h

## 2.29 CWDecryptErrorReportInfo Struct Reference

### Public Attributes

- int **radiosCount**
- [CWDecryptErrorReportValues](#) \* **radios**

### 2.29.1 Detailed Description

Definition at line 562 of file CWProtocol.h.

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

- CWProtocol.h

## 2.30 CWDecryptErrorReportValues Struct Reference

### Public Attributes

- int **ID**
- unsigned char **numEntries**
- unsigned char **length**
- CWMACAddress \* **decryptErrorMACAddressList**

### 2.30.1 Detailed Description

Definition at line 555 of file CWProtocol.h.

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

- CWProtocol.h

## 2.31 CWDiscoveryRequestValues Struct Reference

### Public Types

- enum { **CW\_MSG\_ELEMENT\_DISCOVERY\_TYPE\_BROADCAST** = 0, **CW\_MSG\_ELEMENT\_DISCOVERY\_TYPE\_CONFIGURED** = 1 }

### Public Attributes

- enum CWDiscoveryRequestValues:: { ... } **type**
- [CWWTPVendorInfos](#) **WTPBoardData**

- [CWWTPDescriptor](#) **WTPDescriptor**
- CWframeTunnelMode **frameTunnelMode**
- CWMACType **MACType**

### 2.31.1 Detailed Description

Definition at line 408 of file CWProtocol.h.

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

- CWProtocol.h

## 2.32 CWErrorHandlingInfo Struct Reference

### Public Attributes

- CWErrorCode **code**
- char **message** [256]
- int **line**
- char **fileName** [64]

### 2.32.1 Detailed Description

Definition at line 50 of file CWErrorHandling.h.

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

- CWErrorHandling.h

## 2.33 CWInterfaceThreadArg Struct Reference

### Public Attributes

- int **index**

### 2.33.1 Detailed Description

Definition at line 49 of file ACInterface.c.

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

- ACInterface.c

## 2.34 CWMsgElemData Struct Reference

### Public Attributes

- int **type**
- int **value**

### 2.34.1 Detailed Description

Definition at line 285 of file CWProtocol.h.

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

- CWProtocol.h

## 2.35 CWMultiHomedInterface Struct Reference

### Public Types

- enum { **CW\_PRIMARY**, **CW\_BROADCAST\_OR\_ALIAS** }

### Public Attributes

- CWNetworkLev4Address **addr**
- CWNetworkLev4Address **addrIPv4**
- CWSocket **sock**
- enum CWMultiHomedInterface:: { ... } **kind**
- short **systemIndex**

### 2.35.1 Detailed Description

Definition at line 37 of file ACMultiHomedSocket.h.

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

- ACMultiHomedSocket.h

## 2.36 CWMultiHomedSocket Struct Reference

### Public Attributes

- int **count**
- [CWMultiHomedInterface](#) \* **interfaces**

### 2.36.1 Detailed Description

Definition at line 49 of file ACMultiHomedSocket.h.

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

- ACMultiHomedSocket.h

## 2.37 CWPendingRequestMessage Struct Reference

### Public Attributes

- unsigned char **msgType**
- unsigned char **seqNum**
- int **timer\_sec**
- void(\* **timer\_hdl** )(void \*)
- CWTimerArg **timer\_arg**
- CWTimerID **timer**
- int **retransmission**
- [CWProtocolMessage](#) \* **msgElems**
- int **fragmentsNum**

### 2.37.1 Detailed Description

Definition at line 329 of file CWProtocol.h.

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

- CWProtocol.h

## 2.38 CWProtocolChangeStateEventRequestValues Struct Reference

### Public Attributes

- [CWRadiosOperationalInfo](#) **radioOperationalInfo**
- CWProtocolResultCode **resultCode**

### 2.38.1 Detailed Description

Definition at line 75 of file ACProtocol.h.

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

- ACProtocol.h

## 2.39 CWProtocolConfigurationUpdateRequestValues Struct Reference

### Public Attributes

- void \* **bindingValues**
- void \* **protocolValues**

### 2.39.1 Detailed Description

Definition at line 85 of file WTPProtocol.h.

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

- WTPProtocol.h

## 2.40 CWProtocolConfigureRequestValues Struct Reference

### Public Attributes

- char \* **ACName**
- [CWACNamesWithIndex](#) **ACinWTP**
- int **radioAdminInfoCount**
- [CWRadioAdminInfoValues](#) \* **radioAdminInfo**
- int **StatisticsTimer**
- [WTPRebootStatisticsInfo](#) \* **WTPRebootStatistics**

### 2.40.1 Detailed Description

Definition at line 66 of file ACProtocol.h.

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

- ACProtocol.h

## 2.41 CWProtocolConfigureResponseValues Struct Reference

### Public Attributes

- [ACIPv4ListValues](#) **ACIPv4ListInfo**
- [ACIPv6ListValues](#) **ACIPv6ListInfo**
- int **discoveryTimer**
- int **echoRequestTimer**



- int **radioOperationalInfoCount**
- [CWRadioOperationalInfoValues](#) \* **radioOperationalInfo**
- [WTPDecryptErrorReport](#) **radiosDecryptErrorPeriod**
- int **idleTimeout**
- int **fallback**
- void \* **bindingValues**

### 2.41.1 Detailed Description

Definition at line 72 of file WTPProtocol.h.

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

- WTPProtocol.h

## 2.42 CWProtocolFragment Struct Reference

### Public Attributes

- char \* **data**
- int **dataLen**
- [CWProtocolTransportHeaderValues](#) **transportVal**

### 2.42.1 Detailed Description

Definition at line 361 of file CWProtocol.h.

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

- CWProtocol.h

## 2.43 CWProtocolIPv4NetworkInterface Struct Reference

### Public Attributes

- int **WTPCount**
- struct sockaddr\_in **addr**

### 2.43.1 Detailed Description

Definition at line 432 of file CWProtocol.h.

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

- CWProtocol.h

## 2.44 CWProtocolIPv6NetworkInterface Struct Reference

### Public Attributes

- int **WTPCount**
- struct sockaddr\_in6 **addr**

### 2.44.1 Detailed Description

Definition at line 437 of file CWProtocol.h.

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

- CWProtocol.h

## 2.45 CWProtocolJoinRequestValues Struct Reference

### Public Attributes

- char \* **location**
- char \* **name**
- [CWWTPVendorInfos](#) **WTPBoardData**
- unsigned int **sessionID**
- [CWWTPDescriptor](#) **WTPDescriptor**
- struct sockaddr\_in **addr**
- CWframeTunnelMode **frameTunnelMode**
- CWMACType **MACType**

### 2.45.1 Detailed Description

Definition at line 54 of file ACProtocol.h.

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

- ACProtocol.h

## 2.46 CWProtocolJoinResponseValues Struct Reference

### Public Attributes

- [CWACInfoValues](#) **ACInfoPtr**
- CWProtocolResultCode **code**
- [ACIPv4ListValues](#) **ACIPv4ListInfo**
- [ACIPv6ListValues](#) **ACIPv6ListInfo**

### 2.46.1 Detailed Description

Definition at line 65 of file WTPProtocol.h.

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

- WTPProtocol.h

## 2.47 CWProtocolMessage Struct Reference

### Public Attributes

- char \* **msg**
- int **offset**
- int **data\_msgType**

### 2.47.1 Detailed Description

Definition at line 319 of file CWProtocol.h.

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

- CWProtocol.h

## 2.48 CWProtocolNetworkInterface Struct Reference

### Public Attributes

- CWNetworkLev4Address **addr**
- struct sockaddr\_in **addrIPv4**
- int **WTPCount**

### 2.48.1 Detailed Description

Definition at line 425 of file CWProtocol.h.

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

- CWProtocol.h

## 2.49 CWProtocolTransportHeaderValues Struct Reference

### Public Attributes

- int **payloadType**

- int **type**
- int **isFragment**
- int **last**
- int **fragmentID**
- int **fragmentOffset**
- int **keepAlive**
- [CWBindingTransportHeaderValues](#) \* **bindingValuesPtr**

### 2.49.1 Detailed Description

Definition at line 343 of file CWProtocol.h.

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

- CWProtocol.h

## 2.50 CWProtocolVendorSpecificValues Struct Reference

### Public Attributes

- unsigned short **vendorPayloadType**
- void \* **payload**

### 2.50.1 Detailed Description

Definition at line 617 of file CWProtocol.h.

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

- CWProtocol.h

## 2.51 CWProtocolWTPDataTransferRequestValues Struct Reference

### Public Attributes

- int **data**
- int **length**
- char \* **debug\_info**

### 2.51.1 Detailed Description

Definition at line 117 of file ACProtocol.h.

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

- ACProtocol.h

## 2.52 CWProtocolWTPEventRequestValues Struct Reference

### Public Attributes

- int **errorReportCount**
- [CWDecryptErrorReportValues](#) \* **errorReport**
- [WTPDuplicateIPv4](#) \* **duplicateIPv4**
- [WTPDuplicateIPv6](#) \* **duplicateIPv6**
- int **WTPOperationalStatisticsCount**
- [WTPOperationalStatisticsValues](#) \* **WTPOperationalStatistics**
- int **WTPRadioStatisticsCount**
- [WTPRadioStatisticsValues](#) \* **WTPRadioStatistics**
- [WTPRebootStatisticsInfo](#) \* **WTPRebootStatistics**

### 2.52.1 Detailed Description

Definition at line 105 of file ACProtocol.h.

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

- ACProtocol.h

## 2.53 CWRadioAdminInfoValues Struct Reference

### Public Attributes

- int **ID**
- CWstate **state**
- CWAdminCause **cause**

### 2.53.1 Detailed Description

Definition at line 533 of file CWProtocol.h.

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

- CWProtocol.h

## 2.54 CWRadioInformationValues Struct Reference

### Public Types

- enum {

```
CW_802_DOT_11b = 1, CW_802_DOT_11a = 2, CW_802_DOT_11g = 4, CW_802_DOT_11n = 8,  
CW_ALL_RADIO_TYPES = 0x0F }
```

### Public Attributes

- int **ID**
- enum CWRadioInformationValues:: { ... } **type**

#### 2.54.1 Detailed Description

Definition at line 498 of file CWProtocol.h.

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

- CWProtocol.h

## 2.55 CWRadioOperationalInfoValues Struct Reference

### Public Attributes

- int **ID**
- CWstate **state**
- CWOperationalCause **cause**

#### 2.55.1 Detailed Description

Definition at line 544 of file CWProtocol.h.

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

- CWProtocol.h

## 2.56 CWRadiosAdminInfo Struct Reference

### Public Attributes

- int **radiosCount**
- [CWRadioAdminInfoValues](#) \* **radios**

### 2.56.1 Detailed Description

Definition at line 539 of file CWProtocol.h.

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

- CWProtocol.h

## 2.57 CWRadiosInformation Struct Reference

### Public Attributes

- int **radiosCount**
- [CWRadioInformationValues](#) \* **radios**

### 2.57.1 Detailed Description

Definition at line 509 of file CWProtocol.h.

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

- CWProtocol.h

## 2.58 CWRadiosOperationalInfo Struct Reference

### Public Attributes

- int **radiosCount**
- [CWRadioOperationalInfoValues](#) \* **radios**

### 2.58.1 Detailed Description

Definition at line 550 of file CWProtocol.h.

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

- CWProtocol.h

## 2.59 CWThreadTimerArg Struct Reference

### Public Attributes

- CWThread \* **requestedThreadPtr**
- int **signalToRaise**

### 2.59.1 Detailed Description

Definition at line 682 of file CWThread.c.

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

- CWThread.c

## 2.60 CWUpdateDescriptor Struct Reference

### Public Attributes

- char **version** [BUF\_SIZE]
- char **pre\_script** [BUF\_SIZE]
- char **post\_script** [BUF\_SIZE]

### 2.60.1 Detailed Description

Definition at line 54 of file WUA.c.

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

- WUA.c

## 2.61 CWVendorUciValues Struct Reference

### Public Attributes

- unsigned char **command**
- char \* **commandArgs**
- char \* **response**

### 2.61.1 Detailed Description

Definition at line 42 of file CWVendorPayloads.h.

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

- CWVendorPayloads.h

## 2.62 CWVendorWumValues Struct Reference

### Public Attributes

- unsigned char **type**



- union {
  - [mess\\_version\\_info](#) **v\_resp**
  - [mess\\_up\\_req](#) **up\_req**
  - [mess\\_cup](#) **cup**

### 2.62.1 Detailed Description

Definition at line 61 of file CWVendorPayloads.h.

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

- CWVendorPayloads.h

## 2.63 CWWTPDescriptor Struct Reference

### Public Attributes

- int **maxRadios**
- int **radiosInUse**
- int **encCapabilities**
- [CWWTPVendorInfos](#) **vendorInfos**

### 2.63.1 Detailed Description

Definition at line 388 of file CWProtocol.h.

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

- CWProtocol.h

## 2.64 CWWTPManager Struct Reference

### Public Types

- enum { **CW\_DTLS\_HANDSHAKE\_IN\_PROGRESS**, **CW\_WAITING\_REQUEST**, **CW\_COMPLETED** }

### Public Attributes

- CWNetworkLev4Address **address**
- CWThread **thread**
- CWSecuritySession **session**

- CWBool **isNotFree**
- CWBool **isRequestClose**
- CWStateTransition **currentState**
- int **interfaceIndex**
- CWSocket **socket**
- char **buf** [CW\_BUFFER\_SIZE]
- enum CWWTPManager:: { ... } **subState**
- CWSafeList **packetReceiveList**
- CWTimerID **currentTimer**
- CWTimerID **heartbeatTimer**
- [CWList](#) **fragmentsList**
- int **pathMTU**
- int **interfaceResult**
- CWBool **interfaceCommandProgress**
- int **interfaceCommand**
- CWThreadMutex **interfaceSingleton**
- CWThreadMutex **interfaceMutex**
- CWThreadCondition **interfaceWait**
- CWThreadCondition **interfaceComplete**
- [WTPQosValues](#) \* **qosValues**
- [OFDMControlValues](#) \* **ofdmValues**
- [CWProtocolVendorSpecificValues](#) \* **vendorValues**
- int **applicationIndex**
- [CWWTPProtocolManager](#) **WTPProtocolManager**
- [CWProtocolMessage](#) \* **messages**
- int **messagesCount**
- int **retransmissionCount**
- CWTimerID **currentPacketTimer**
- CWBool **isRetransmitting**
- int **responseType**
- int **responseSeqNum**

### 2.64.1 Detailed Description

Definition at line 101 of file CWAC.h.

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

- CWAC.h

## 2.65 CWWTPProtocolManager Struct Reference

### Public Attributes

- char \* **locationData**

- char \* **name**
- unsigned int **sessionID**
- [CWWTPDescriptor](#) **descriptor**
- struct sockaddr\_in **ipv4Address**
- [CWWTPRadiosInfo](#) **radiosInfo**
- char \* **ACName**
- [CWACNamesWithIndex](#) **ACNameIndex**
- [CWRadiosAdminInfo](#) **radioAdminInfo**
- int **StatisticsTimer**
- [CWWTPVendorInfos](#) **WTPBoardData**
- [WTPRebootStatisticsInfo](#) \* **WTPRebootStatistics**
- void \* **bindingValuesPtr**

### 2.65.1 Detailed Description

Definition at line 34 of file ACProtocol.h.

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

- ACProtocol.h

## 2.66 CWWTPRadiInfoValues Struct Reference

### Public Attributes

- unsigned int **radioID**
- [CWList](#) **decryptErrorMACAddressList**
- unsigned int **reportInterval**
- CWstate **adminState**
- CWAdminCause **adminCause**
- CWstate **operationalState**
- CWOperationalCause **operationalCause**
- unsigned int **TxQueueLevel**
- unsigned int **wirelessLinkFramesPerSec**
- [WTPRadioStatisticsInfo](#) **statistics**
- void \* **bindingValuesPtr**

### 2.66.1 Detailed Description

Definition at line 586 of file CWProtocol.h.

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

- CWProtocol.h

## 2.67 CWWTPRadiosInfo Struct Reference

### Public Attributes

- int **radioCount**
- [CWWTPRadioInfoValues](#) \* **radiosInfo**

### 2.67.1 Detailed Description

Definition at line 608 of file CWProtocol.h.

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

- CWProtocol.h

## 2.68 CWWTPVendorInfos Struct Reference

### Public Attributes

- int **vendorInfosCount**
- [CWWTPVendorInfoValues](#) \* **vendorInfos**

### 2.68.1 Detailed Description

Definition at line 383 of file CWProtocol.h.

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

- CWProtocol.h

## 2.69 CWWTPVendorInfoValues Struct Reference

### Public Types

- enum {  
    **CW\_WTP\_MODEL\_NUMBER = 0, CW\_WTP\_SERIAL\_NUMBER = 1, CW\_-  
BOARD\_ID = 2, CW\_BOARD\_REVISION = 3,**  
    **CW\_WTP\_HARDWARE\_VERSION = 0, CW\_WTP\_SOFTWARE\_VERSION = 1,  
CW\_BOOT\_VERSION = 2 }**

### Public Attributes

- int **vendorIdentifier**
- enum CWWTPVendorInfoValues:: { ... } **type**
- int **length**
- int \* **valuePtr**

#### 2.69.1 Detailed Description

Definition at line 367 of file CWProtocol.h.

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

- CWProtocol.h

## 2.70 edcf\_acparam Struct Reference

### Public Attributes

- uint8 **ACI**
- uint8 **ECW**
- uint16 **TXOP**

#### 2.70.1 Detailed Description

Definition at line 520 of file WTPBcmDriverInteraction.h.

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

- WTPBcmDriverInteraction.h

## 2.71 ieee802\_11\_hdr Struct Reference

### Public Attributes

- u\_char **frame\_control**
- u\_char **flags**
- u\_short **duration**
- u\_char **addr1** [6]
- u\_char **addr2** [6]
- u\_char **addr3** [6]
- u\_short **frag\_and\_seq**

### 2.71.1 Detailed Description

Definition at line 84 of file WTPBcmFrameReceive.h.

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

- WTPBcmFrameReceive.h

## 2.72 ieee\_802\_11\_mgt\_frame Struct Reference

### Public Attributes

- u\_char **timestamp** [8]
- u\_short **bcn\_interval**
- u\_short **caps**

### 2.72.1 Detailed Description

Definition at line 102 of file WTPBcmFrameReceive.h.

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

- WTPBcmFrameReceive.h

## 2.73 ifi\_info Struct Reference

### Public Attributes

- char **ifi\_name** [IFI\_NAME]
- short **ifi\_index**
- short **ifi\_flags**
- struct sockaddr \* **ifi\_addr**
- struct sockaddr \* **ifi\_brdaddr**
- struct [ifi\\_info](#) \* **ifi\_next**

### 2.73.1 Detailed Description

Definition at line 38 of file CWStevens.h.

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

- CWStevens.h

## 2.74 iw\_discarded Struct Reference

### Public Attributes

- `__u32 nwid`
- `__u32 code`
- `__u32 fragment`
- `__u32 retries`
- `__u32 misc`

### 2.74.1 Detailed Description

Definition at line 706 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.75 iw\_encode\_ext Struct Reference

### Public Attributes

- `__u32 ext_flags`
- `__u8 tx_seq [IW_ENCODE_SEQ_MAX_SIZE]`
- `__u8 rx_seq [IW_ENCODE_SEQ_MAX_SIZE]`
- struct sockaddr `addr`
- `__u16 alg`
- `__u16 key_len`
- `__u8 key [0]`

### 2.75.1 Detailed Description

Definition at line 808 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.76 iw\_event Struct Reference

### Public Attributes

- `__u16 len`
- `__u16 cmd`
- union `iwreq_data u`

### 2.76.1 Detailed Description

Definition at line 1066 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.77 iw\_freq Struct Reference

### Public Attributes

- `__s32 m`
- `__s16 e`
- `__u8 i`
- `__u8 flags`

### 2.77.1 Detailed Description

Definition at line 679 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.78 iw\_michaelmicfailure Struct Reference

### Public Attributes

- `__u32 flags`
- struct sockaddr `src_addr`
- `__u8 tsc [IW_ENCODE_SEQ_MAX_SIZE]`

### 2.78.1 Detailed Description

Definition at line 844 of file wireless\_copy.h.

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

- wireless\_copy.h



## 2.79 iw\_missed Struct Reference

### Public Attributes

- `__u32 beacon`

### 2.79.1 Detailed Description

Definition at line 719 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.80 iw\_mlme Struct Reference

### Public Attributes

- `__u16 cmd`
- `__u16 reason_code`
- struct sockaddr `addr`

### 2.80.1 Detailed Description

Definition at line 822 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.81 iw\_param Struct Reference

### Public Attributes

- `__s32 value`
- `__u8 fixed`
- `__u8 disabled`
- `__u16 flags`

### 2.81.1 Detailed Description

Definition at line 652 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.82 iw\_pmkid\_cand Struct Reference

### Public Attributes

- \_\_u32 **flags**
- \_\_u32 **index**
- struct sockaddr **bssid**

#### 2.82.1 Detailed Description

Definition at line 853 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.83 iw\_pmksa Struct Reference

### Public Attributes

- \_\_u32 **cmd**
- struct sockaddr **bssid**
- \_\_u8 **pmkid** [IW\_PMKID\_LEN]

#### 2.83.1 Detailed Description

Definition at line 836 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.84 iw\_point Struct Reference

### Public Attributes

- void \_\_user \* **pointer**
- \_\_u16 **length**
- \_\_u16 **flags**

### 2.84.1 Detailed Description

Definition at line 664 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.85 iw\_priv\_args Struct Reference

### Public Attributes

- `__u32 cmd`
- `__u16 set_args`
- `__u16 get_args`
- char **name** [IFNAMSIZ]

### 2.85.1 Detailed Description

Definition at line 1048 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.86 iw\_quality Struct Reference

### Public Attributes

- `__u8 qual`
- `__u8 level`
- `__u8 noise`
- `__u8 updated`

### 2.86.1 Detailed Description

Definition at line 690 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.87 iw\_range Struct Reference

### Public Attributes

- `__u32 throughput`
- `__u32 min_nwid`
- `__u32 max_nwid`
- `__u16 old_num_channels`
- `__u8 old_num_frequency`
- `__u32 event_capa [6]`
- `__s32 sensitivity`
- struct `iw_quality max_qual`
- struct `iw_quality avg_qual`
- `__u8 num_bitrates`
- `__s32 bitrate [IW_MAX_BITRATES]`
- `__s32 min_rts`
- `__s32 max_rts`
- `__s32 min_frag`
- `__s32 max_frag`
- `__s32 min_pmp`
- `__s32 max_pmp`
- `__s32 min_pmt`
- `__s32 max_pmt`
- `__u16 pmp_flags`
- `__u16 pmt_flags`
- `__u16 pm_capa`
- `__u16 encoding_size [IW_MAX_ENCODING_SIZES]`
- `__u8 num_encoding_sizes`
- `__u8 max_encoding_tokens`
- `__u8 encoding_login_index`
- `__u16 txpower_capa`
- `__u8 num_txpower`
- `__s32 txpower [IW_MAX_TXPOWER]`
- `__u8 we_version_compiled`
- `__u8 we_version_source`
- `__u16 retry_capa`
- `__u16 retry_flags`
- `__u16 r_time_flags`
- `__s32 min_retry`
- `__s32 max_retry`
- `__s32 min_r_time`
- `__s32 max_r_time`
- `__u16 num_channels`
- `__u8 num_frequency`
- struct `iw_freq freq [IW_MAX_FREQUENCIES]`
- `__u32 enc_capa`

### 2.87.1 Detailed Description

Definition at line 946 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.88 iw\_scan\_req Struct Reference

### Public Attributes

- `__u8 scan_type`
- `__u8 essid_len`
- `__u8 num_channels`
- `__u8 flags`
- struct sockaddr `bssid`
- `__u8 essid [IW_ESSID_MAX_SIZE]`
- `__u32 min_channel_time`
- `__u32 max_channel_time`
- struct `iw_freq channel_list [IW_MAX_FREQUENCIES]`

### 2.88.1 Detailed Description

Definition at line 746 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.89 iw\_statistics Struct Reference

### Public Attributes

- `__u16 status`
- struct `iw_quality qual`
- struct `iw_discarded discard`
- struct `iw_missed miss`

### 2.89.1 Detailed Description

Definition at line 865 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.90 iw\_thrspy Struct Reference

### Public Attributes

- struct sockaddr **addr**
- struct iw\_quality **qual**
- struct iw\_quality **low**
- struct iw\_quality **high**

### 2.90.1 Detailed Description

Definition at line 727 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.91 iwreq Struct Reference

### Public Attributes

- union {  
    char **ifr\_name** [IFNAMSIZ]  
} **ifr\_ifrn**
- union iwreq\_data **u**

### 2.91.1 Detailed Description

Definition at line 925 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.92 iwreq\_data Union Reference

### Public Attributes

- char **name** [IFNAMSIZ]
- struct iw\_point **essid**
- struct iw\_param **nwid**
- struct iw\_freq **freq**
- struct iw\_param **sens**

- struct [iw\\_param](#) **bitrate**
- struct [iw\\_param](#) **txpower**
- struct [iw\\_param](#) **rts**
- struct [iw\\_param](#) **frag**
- [\\_\\_u32](#) **mode**
- struct [iw\\_param](#) **retry**
- struct [iw\\_point](#) **encoding**
- struct [iw\\_param](#) **power**
- struct [iw\\_quality](#) **qual**
- struct [sockaddr](#) **ap\_addr**
- struct [sockaddr](#) **addr**
- struct [iw\\_param](#) **param**
- struct [iw\\_point](#) **data**

### 2.92.1 Detailed Description

Definition at line 887 of file wireless\_copy.h.

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

- wireless\_copy.h

## 2.93 mess\_cup Struct Reference

### Public Attributes

- unsigned int **seq\_num**
- unsigned int **size**
- char \* **buf**

### 2.93.1 Detailed Description

Definition at line 59 of file CWVendorPayloads.h.

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

- CWVendorPayloads.h

## 2.94 mess\_up\_req Struct Reference

### Public Attributes

- [mess\\_version\\_info](#) **v\_info**
- unsigned int **pack\_size**

### 2.94.1 Detailed Description

Definition at line 58 of file CWVendorPayloads.h.

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

- CWVendorPayloads.h

## 2.95 mess\_version\_info Struct Reference

### Public Attributes

- unsigned char **major\_v**
- unsigned char **min\_v**
- unsigned char **revision**

### 2.95.1 Detailed Description

Definition at line 57 of file CWVendorPayloads.h.

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

- CWVendorPayloads.h

## 2.96 OFDMControlValues Struct Reference

### Public Attributes

- int **currentChan**
- unsigned char **BandSupport**
- unsigned int **TThreshold**

### 2.96.1 Detailed Description

Definition at line 104 of file CWBinding.h.

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

- CWBinding.h

## 2.97 prism\_did Struct Reference

### Public Attributes

- u\_short **did**



- u\_short **status1**
- u\_short **status2**
- u\_short **length**

### 2.97.1 Detailed Description

Definition at line 119 of file WTPBcmFrameReceive.h.

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

- WTPBcmFrameReceive.h

## 2.98 prism\_hdr Struct Reference

### Public Attributes

- u\_int **msg\_code**
- u\_int **msg\_length**
- char **cap\_device** [16]

### 2.98.1 Detailed Description

Definition at line 113 of file WTPBcmFrameReceive.h.

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

- WTPBcmFrameReceive.h

## 2.99 RadioQosValues Struct Reference

### Public Attributes

- unsigned char **radioID**
- [WTPQosValues](#) **qosValues** [NUM\_QOS\_PROFILES]

### 2.99.1 Detailed Description

Definition at line 33 of file WTPBinding.h.

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

- WTPBinding.h

## 2.100 timer Struct Reference

### Public Attributes

- unsigned int **timeout**
- int2 \* **event**
- void(\* **ast**)(void \*, int)
- CWTimerArg **myArg**
- struct timeval **timeout**
- void(\* **handler**)(void \*)
- void \* **handler\_arg**
- int **id**
- int **in\_use**
- int **cancelled**
- [tl\\_timer\\_t](#) \* **next**
- [tl\\_timer\\_t](#) \* **prev**

### 2.100.1 Detailed Description

Definition at line 108 of file CWTimer.h.

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

- CWTimer.h
- timerlib.c

## 2.101 UNIX\_SOCKETS\_INFO Struct Reference

### Public Attributes

- struct sockaddr\_un **servaddr**
- struct sockaddr\_un **clntaddr**
- int **data\_stats\_sock**

### 2.101.1 Detailed Description

Definition at line 198 of file CWAC.h.

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

- CWAC.h

## 2.102 wl\_ioctl Struct Reference

### Public Attributes

- uint **cmd**
- void \* **buf**
- uint **len**
- bool **set**
- uint **used**
- uint **needed**

### 2.102.1 Detailed Description

Definition at line 529 of file WTPBcmDriverInteraction.h.

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

- WTPBcmDriverInteraction.h

## 2.103 WTPDecryptErrorReport Struct Reference

### Public Attributes

- int **radiosCount**
- [WTPDecryptErrorReportValues](#) \* **radios**

### 2.103.1 Detailed Description

Definition at line 482 of file CWProtocol.h.

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

- CWProtocol.h

## 2.104 WTPDecryptErrorReportValues Struct Reference

### Public Attributes

- int **radioid**
- int **reportInterval**

### 2.104.1 Detailed Description

Definition at line 476 of file CWProtocol.h.

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

- CWProtocol.h

## 2.105 WTPDuplicateIPv4 Struct Reference

### Public Attributes

- int **ipv4Address**
- unsigned int **length**
- unsigned char \* **MACoffendingDevice\_forIPv4**
- int **status**

### 2.105.1 Detailed Description

Definition at line 91 of file ACProtocol.h.

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

- ACProtocol.h

## 2.106 WTPDuplicateIPv6 Struct Reference

### Public Attributes

- struct in6\_addr **ipv6Address**
- unsigned int **length**
- unsigned char \* **MACoffendingDevice\_forIPv6**
- int **status**

### 2.106.1 Detailed Description

Definition at line 98 of file ACProtocol.h.

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

- ACProtocol.h

## 2.107 WTPOperationalStatisticsValues Struct Reference

### Public Attributes

- unsigned int **radioID**
- unsigned int **TxQueueLevel**
- unsigned int **wirelessLinkFramesPerSec**

### 2.107.1 Detailed Description

Definition at line 80 of file ACProtocol.h.

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

- ACProtocol.h

## 2.108 WTPQosValues Struct Reference

### Public Attributes

- unsigned char **queueDepth**
- int **cwMin**
- int **cwMax**
- unsigned char **AIFS**
- unsigned char **dot1PTag**
- unsigned char **DSCPTag**

### 2.108.1 Detailed Description

Definition at line 111 of file CWBinding.h.

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

- CWBinding.h

## 2.109 WTPRadioStatisticsInfo Struct Reference

### Public Types

- enum {  
    **STATISTICS\_NOT\_SUPPORTED** = 0, **SW\_FAILURE\_TYPE** = 1, **HD\_FAILURE\_**  
    **TYPE** = 2, **OTHER\_TYPES** = 3,  
    **UNKNOWN\_TYPE** = 255 }

## Public Attributes

- enum WTPRadioStatisticsInfo:: { ... } **lastFailureType**
- short int **resetCount**
- short int **SWFailureCount**
- short int **HWFailureCount**
- short int **otherFailureCount**
- short int **unknownFailureCount**
- short int **configUpdateCount**
- short int **channelChangeCount**
- short int **bandChangeCount**
- short int **currentNoiseFloor**

### 2.109.1 Detailed Description

Definition at line 567 of file CWProtocol.h.

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

- CWProtocol.h

## 2.110 WTPRadioStatisticsValues Struct Reference

### Public Attributes

- unsigned int **radioid**
- [WTPRadioStatisticsInfo](#) **WTPRadioStatistics**

### 2.110.1 Detailed Description

Definition at line 86 of file ACProtocol.h.

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

- ACProtocol.h

## 2.111 WTPRebootStatisticsInfo Struct Reference

### Public Types

- enum {  
    **NOT\_SUPPORTED** = 0, **AC\_INITIATED** = 1, **LINK\_FAILURE** = 2, **SW\_FAILURE**  
    = 3,  
    **HD\_FAILURE** = 4, **OTHER\_FAILURE** = 5, **UNKNOWN** = 255 }

### Public Attributes

- int **rebootCount**
- int **ACInitiatedCount**
- int **linkFailurerCount**
- int **SWFailureCount**
- int **HWFailuireCount**
- int **otherFailureCount**
- int **unknownFailureCount**
- enum WTPRebootStatisticsInfo:: { ... } **lastFailureType**

#### 2.111.1 Detailed Description

Definition at line 457 of file CWProtocol.h.

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

- CWProtocol.h

## 2.112 WUMState Struct Reference

### Public Attributes

- unsigned char **state**
- FILE \* **cupTmp**
- int **cupSize**
- int **total\_fragments**
- int **received\_fragments**

#### 2.112.1 Detailed Description

Definition at line 142 of file CWVendorPayloadsWTP.c.

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

- CWVendorPayloadsWTP.c

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