

PC'ver Host Control Interface Definition

(Big Endian Format)

Header				
Name	Description	Type	Offset	Size
p	Packet Identifier "pcvuh"	Integer	0	1 byte
c	Packet Identifier "pcvuh"	Integer	1	1 byte
v	Packet Identifier "pcvuh"	Integer	2	1 byte
u	Packet Identifier "pcvuh"	Integer	3	1 byte
h	Packet Identifier "pcvuh"	Integer	4	1 byte
H_IdentTerm	0	Integer	5	1 byte
ProtocolVersion	Always 1	Integer	6	1 byte
MessageType	0=Heartbeat 1=Full Packet	Integer	7	1 byte
Alignment_Byte	Always zero 2 bytes	Integer	8..9	2 bytes
Packet_Size	4x4 Packet = 600, 2x2 Packet = 280	Integer	10..11	2 bytes
Spare	(4 bytes)	Integer	12..15	4 bytes
End Of Header				
Configuration Parameters				
DatalsValid	0=Not Valid, 1=Vaild	Integer	16	1 byte
TxDISVersion	4,5,6	Integer	17	1 byte
PTT_Polarity	0=Positive, 1=Negative	Integer	18	1 byte
SampleRateIndex	0=8KHz, 1=16KHz, 2=24KHz, 3=48KHz	Integer	19	1 byte
EncodingIndex_R	(For Future Use Only)	Integer	20	1 byte
EncodingIndex_I	(For Future Use Only)	Integer	21	1 byte
TxHeartBeat	2 - 20 sec (1 sec increments)	Integer	22	1 byte
RxTimeout	10 - 60 sec (10 sec increments)	Integer	23	1 byte
RadioTxMode	0=Vox, 1=PTT, 2=Vox or PTT	Integer	24	1 byte
IntercomTxMode	0=Vox, 1=PTT, 2=Vox or PTT	Integer	25	1 byte
VoxThreshold	0-100%	Integer	26	1 byte
SideToneVolume	0-100%	Integer	27	1 byte
MasterVolume	0-100%	Integer	28	1 byte
SoftwarePTT	0=Off, 1=On	Integer	29	1 byte
Spare		Integer	30	1 byte
Spare		Integer	31	1 byte
Match_Mod_Param	0=Off, 1=On	Integer	32	1 byte
StrictCrypto_Rx	0=Off, 1=On	Integer	33	1 byte
CypherToneOn_Rx	0=Off, 1=On	Integer	34	1 byte
RxMultiRadios	0=Off, 1=On	Integer	35	1 byte
NoUnsupported	0=Off, 1=On	Integer	36	1 byte
CCTTSINCGARS_Rx	0=Off, 1=On	Integer	37	1 byte
Set_PCV_in_PDU	0=Off, 1=On	Integer	38	1 byte
Spare		Integer	39	1 byte
Spare		Integer	40	1 byte
Spare		Integer	41	1 byte
Spare		Integer	42	1 byte
Spare		Integer	43	1 byte
Spare		Integer	44	1 byte
Spare		Integer	45	1 byte
Spare		Integer	46	1 byte
Spare		Integer	47	1 byte
VoxHoldTime	500-5000 ms (500ms increments)	Integer	48..49	2 bytes
PlayDelayMs	20-400ms (10ms increments)	Integer	50..51	2 bytes
RadioPDUSize	100-1000 bytes (50 byte increments)	Integer	52..53	2 bytes
IntercomPDUSize	100-1000 bytes (50 byte increments)	Integer	54..55	2 bytes
End of Configuration Parameters				

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Radio 1 Parameters				
DatalsValid	0=Not Valid, 1=Valid	Integer	56	1 byte
TxRxState	0=Off, 1=Rx, 2=TxRx	Integer	57	1 byte
Rx_Volume	0-100%	Integer	58	1 byte
ExerciseID	1-255	Integer	59	1 byte
LocationIndicat	0=None, 1=from Lat/Lon, 2=from Entity	Integer	60	1 byte
CryptoOn	0=No, 1=Yes	Integer	61	1 byte
Crypto_System	0-5	Integer	62	1 byte
Output_Channel	0=Both, 1=Left, 2=Right	Integer	63	1 byte
Crypto_Key	0-65534	Integer	64..65	2 bytes
SiteID	1-65534	Integer	66..67	2 bytes
ApplicationID	1-65534	Integer	68..69	2 bytes
EntityID	1-65534	Integer	70..71	2 bytes
RadiolD	1-65534	Integer	72..73	2 bytes
SpreadSprectrum	2 bytes	Integer	74..75	2 bytes
Modulate_Major	2 bytes	Integer	76..77	2 bytes
Modulate_Minor	2 bytes	Integer	78..79	2 bytes
Modulate_System	2 bytes	Integer	80..81	2 bytes
NetID	2 bytes	Integer	82..83	2 bytes
HopSet	2 bytes	Integer	84..85	2 bytes
LockOutSet	2 bytes	Integer	86..87	2 bytes
FHSecurityKey	2 bytes	Integer	88..89	2 bytes
<i>Spare</i>		Integer	90..91	2 bytes
<i>SyncOffset</i>		Integer	92..95	4 bytes
Bandwidth	0.0 - +100000.0 KHz	Float	96..99	4 bytes
Power	-500.0 - +500.0 dBm	Float	100..103	4 bytes
Frequency	1.0 - 99999.0 MHz	Float	104..111	8 bytes
Latitude	-89.0 - +89.0 Degrees	Float	112..119	8 bytes
Longitude	-180.0 - +180.0 Degrees	Float	120..127	8 bytes
Height	-10000.0 - +200000.0 Feet	Float	128..135	8 bytes
End of Radio 1 Parameters				

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Radio 2 Parameters				
DatalsValid	0=Not Valid, 1=Valid	Integer	136	1 byte
TxRxState	0=Off, 1=Rx, 2=TxRx	Integer	137	1 byte
Rx_Volume	0-100%	Integer	138	1 byte
ExerciseID	1-255	Integer	139	1 byte
LocationIndicat	0=None, 1=from Lat/Lon, 2=from Entity	Integer	140	1 byte
CryptoOn	0=No, 1=Yes	Integer	141	1 byte
Crypto_System	0-5	Integer	142	1 byte
Output_Channel	0=Both, 1=Left, 2=Right	Integer	143	1 byte
Crypto_Key	0-65534	Integer	144..145	2 bytes
SiteID	1-65534	Integer	146..147	2 bytes
ApplicationID	1-65534	Integer	148..149	2 bytes
EntityID	1-65534	Integer	150..151	2 bytes
RadiolID	1-65534	Integer	152..153	2 bytes
SpreadSprectrum	2 bytes	Integer	154..155	2 bytes
Modulate_Major	2 bytes	Integer	156..157	2 bytes
Modulate_Minor	2 bytes	Integer	158..159	2 bytes
Modulate_System	2 bytes	Integer	160..161	2 bytes
NetID	2 bytes	Integer	162..163	2 bytes
HopSet	2 bytes	Integer	164..165	2 bytes
LockOutSet	2 bytes	Integer	166..167	2 bytes
FHSecurityKey	2 bytes	Integer	168..169	2 bytes
<i>Spare</i>		Integer	170..171	2 bytes
<i>SyncOffset</i>		Integer	172..175	4 bytes
Bandwidth	0.0 - +100000.0 KHz	Float	176..179	4 bytes
Power	-500.0 - +500.0 dBm	Float	180..183	4 bytes
Frequency	1.0 - 99999.0 MHz	Float	184..191	8 bytes
Latitude	-89.0 - +89.0 Degrees	Float	192..199	8 bytes
Longitude	-180.0 - +180.0 Degrees	Float	200..207	8 bytes
Height	-10000.0 - +200000.0 Feet	Float	208..215	8 bytes
End of Radio 2 Parameters				

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Radio 3 Parameters				
DatalsValid	0=Not Valid, 1=Valid	Integer	216	1 byte
TxRxState	0=Off, 1=Rx, 2=TxRx	Integer	217	1 byte
Rx_Volume	0-100%	Integer	218	1 byte
ExerciseID	1-255	Integer	219	1 byte
LocationIndicat	0=None, 1=from Lat/Lon, 2=from Entity	Integer	220	1 byte
CryptoOn	0=No, 1=Yes	Integer	221	1 byte
Crypto_System	0-5	Integer	222	1 byte
Output_Channel	0=Both, 1=Left, 2=Right	Integer	223	1 byte
Crypto_Key	0-65534	Integer	224..225	2 bytes
SiteID	1-65534	Integer	226..227	2 bytes
ApplicationID	1-65534	Integer	228..229	2 bytes
EntityID	1-65534	Integer	230..231	2 bytes
RadiolID	1-65534	Integer	232..233	2 bytes
SpreadSprectrum	2 bytes	Integer	234..235	2 bytes
Modulate_Major	2 bytes	Integer	236..237	2 bytes
Modulate_Minor	2 bytes	Integer	238..239	2 bytes
Modulate_System	2 bytes	Integer	240..241	2 bytes
NetID	2 bytes	Integer	242..243	2 bytes
HopSet	2 bytes	Integer	244..245	2 bytes
LockOutSet	2 bytes	Integer	246..247	2 bytes
FHSecurityKey	2 bytes	Integer	248..249	2 bytes
<i>Spare</i>		Integer	250..251	2 bytes
<i>SyncOffset</i>		Integer	252..255	4 bytes
Bandwidth	0.0 - +100000.0 KHz	Float	256..259	4 bytes
Power	-500.0 - +500.0 dBm	Float	260..263	4 bytes
Frequency	1.0 - 99999.0 MHz	Float	264..271	8 bytes
Latitude	-89.0 - +89.0 Degrees	Float	272..279	8 bytes
Longitude	-180.0 - +180.0 Degrees	Float	280..287	8 bytes
Height	-10000.0 - +200000.0 Feet	Float	288..295	8 bytes
End of Radio 3 Parameters				

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Radio 4 Parameters				
DatalsValid	0=Not Valid, 1=Valid	Integer	296	1 byte
TxRxState	0=Off, 1=Rx, 2=TxRx	Integer	297	1 byte
Rx_Volume	0-100%	Integer	298	1 byte
ExerciseID	1-255	Integer	299	1 byte
LocationIndicat	0=None, 1=from Lat/Lon, 2=from Entity	Integer	300	1 byte
CryptoOn	0=No, 1=Yes	Integer	301	1 byte
Crypto_System	0-5	Integer	302	1 byte
Output_Channel	0=Both, 1=Left, 2=Right	Integer	303	1 byte
Crypto_Key	0-65534	Integer	304..305	2 bytes
SiteID	1-65534	Integer	306..307	2 bytes
ApplicationID	1-65534	Integer	308..309	2 bytes
EntityID	1-65534	Integer	310..311	2 bytes
RadiolD	1-65534	Integer	312..313	2 bytes
SpreadSprectrum	2 bytes	Integer	315..316	2 bytes
Modulate_Major	2 bytes	Integer	317..318	2 bytes
Modulate_Minor	2 bytes	Integer	318..319	2 bytes
Modulate_System	2 bytes	Integer	320..321	2 bytes
NetID	2 bytes	Integer	322..323	2 bytes
HopSet	2 bytes	Integer	324..325	2 bytes
LockOutSet	2 bytes	Integer	326..327	2 bytes
FHSecurityKey	2 bytes	Integer	328..329	2 bytes
<i>Spare</i>		Integer	330..331	2 bytes
<i>SyncOffset</i>		Integer	332..335	4 bytes
Bandwidth	0.0 - +100000.0 KHz	Float	336..339	4 bytes
Power	-500.0 - +500.0 dBm	Float	340..343	4 bytes
Frequency	1.0 - 99999.0 MHz	Float	344..351	8 bytes
Latitude	-89.0 - +89.0 Degrees	Float	352..359	8 bytes
Longitude	-180.0 - +180.0 Degrees	Float	360..367	8 bytes
Height	-10000.0 - +200000.0 Feet	Float	368..375	8 bytes
End of Radio 4 Parameters				

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Intercom 1 Parameters				
DatalsValid	0=Not Valid, 1=Valid	Integer	376	1 byte
TxRx_State	0=Off, 1=Rx, 2=TxRx	Integer	377	1 byte
Rx_Volume	0-100%	Integer	378	1 byte
ExerciseID	1-255	Integer	379	1 byte
Location_Ind	0=None, 1=from Lat/Lon, 2=from Entity	Integer	380	1 byte
Output_Channel	0=Both, 1=Left, 2=Right	Integer	381	1 byte
Spare		Integer	382	1 byte
Spare		Integer	383	1 byte
Channel	1-32000	Integer	384..385	2 bytes
SiteID	1-65534	Integer	386..387	2 bytes
ApplicationID	1-65534	Integer	388..389	2 bytes
EntityID	1-65534	Integer	390..391	2 bytes
RadiolID	1-65534	Integer	392..393	2 bytes
Spare		Integer	394..395	2 bytes
Spare		Integer	396..397	2 bytes
Spare		Integer	398..399	2 bytes
Bandwidth	0.0 - 100000.0 KHz	Float	400..403	4 bytes
Power	-500.0 - +500.0 dBm	Float	404..407	4 bytes
Latitude	-89.0 - +89.0 Degrees	Float	408..415	8 bytes
Longitude	-180.0 - +180.0 Degrees	Float	416..423	8 bytes
Height	-10000.0 - +200000.0 Feet	Float	424..431	8 bytes
End of Intercom 1 Parameters				

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Intercom 2 Parameters				
DatalsValid	0=Not Valid, 1=Valid	Integer	432	1 byte
TxRx_State	0=Off, 1=Rx, 2=TxRx	Integer	433	1 byte
Rx_Volume	0-100%	Integer	434	1 byte
ExerciseID	1-255	Integer	435	1 byte
Location_Ind	0=None, 1=from Lat/Lon, 2=from Entity	Integer	436	1 byte
Output_Channel	0=Both, 1=Left, 2=Right	Integer	437	1 byte
Spare		Integer	438	1 byte
Spare		Integer	439	1 byte
Channel	1-32000	Integer	440..441	2 bytes
SiteID	1-65534	Integer	442..443	2 bytes
ApplicationID	1-65534	Integer	444..445	2 bytes
EntityID	1-65534	Integer	446..447	2 bytes
RadiolID	1-65534	Integer	448..449	2 bytes
Spare		Integer	450..451	2 bytes
Spare		Integer	452..453	2 bytes
Spare		Integer	454..455	2 bytes
Bandwidth	0.0 - 100000.0 KHz	Float	456..459	4 bytes
Power	-500.0 - +500.0 dBm	Float	460..463	4 bytes
Latitude	-89.0 - +89.0 Degrees	Float	464..471	8 bytes
Longitude	-180.0 - +180.0 Degrees	Float	472..479	8 bytes
Height	-10000.0 - +200000.0 Feet	Float	480..487	8 bytes
End of Intercom 2 Parameters				

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Intercom 3 Parameters				
DatalsValid	0=Not Valid, 1=Valid	Integer	488	1 byte
TxRx_State	0=Off, 1=Rx, 2=TxRx	Integer	489	1 byte
Rx_Volume	0-100%	Integer	490	1 byte
ExerciseID	1-255	Integer	491	1 byte
Location_Ind	0=None, 1=from Lat/Lon, 2=from Entity	Integer	492	1 byte
Output_Channel	0=Both, 1=Left, 2=Right	Integer	493	1 byte
Spare		Integer	494	1 byte
Spare		Integer	495	1 byte
Channel	1-32000	Integer	496..497	2 bytes
SiteID	1-65534	Integer	498..499	2 bytes
ApplicationID	1-65534	Integer	500..501	2 bytes
EntityID	1-65534	Integer	502..503	2 bytes
RadiolID	1-65534	Integer	504..505	2 bytes
Spare		Integer	506..507	2 bytes
Spare		Integer	508..509	2 bytes
Spare		Integer	510..511	2 bytes
Bandwidth	0.0 - 100000.0 KHz	Float	512..515	4 bytes
Power	-500.0 - +500.0 dBm	Float	516..519	4 bytes
Latitude	-89.0 - +89.0 Degrees	Float	520..527	8 bytes
Longitude	-180.0 - +180.0 Degrees	Float	528..535	8 bytes
Height	-10000.0 - +200000.0 Feet	Float	536..543	8 bytes
End of Intercom 3 Parameters				

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Intercom 4 Parameters				
DatalsValid	0=Not Valid, 1=Valid	Integer	544	1 byte
TxRx_State	0=Off, 1=Rx, 2=TxRx	Integer	545	1 byte
Rx_Volume	0-100%	Integer	546	1 byte
ExerciseID	1-255	Integer	547	1 byte
Location_Ind	0=None, 1=from Lat/Lon, 2=from Entity	Integer	548	1 byte
Output_Channel	0=Both, 1=Left, 2=Right	Integer	549	1 byte
Spare		Integer	550	1 byte
Spare		Integer	551	1 byte
Channel	1-32000	Integer	552..553	2 bytes
SiteID	1-65534	Integer	554..555	2 bytes
ApplicationID	1-65534	Integer	556..557	2 bytes
EntityID	1-65534	Integer	558..559	2 bytes
RadiolID	1-65534	Integer	560..561	2 bytes
Spare		Integer	562..563	2 bytes
Spare		Integer	564..565	2 bytes
Spare		Integer	566..567	2 bytes
Bandwidth	0.0 - 100000.0 KHz	Float	568..571	4 bytes
Power	-500.0 - +500.0 dBm	Float	572..575	4 bytes
Latitude	-89.0 - +89.0 Degrees	Float	576..583	8 bytes
Longitude	-180.0 - +180.0 Degrees	Float	584..591	8 bytes
Height	-10000.0 - +200000.0 Feet	Float	592..599	8 bytes
End of Intercom 4 Parameters				