Amateur Message Reply format

2016/2/8

Notes : In the data field , C is ASCII character, D is decimal number in ASCII character ('0' - '9')
Call Sign and MessageBody shall be left-justified, and unused data field shall be filled with blank(0x20).

No.	Request	Notes	TYPE	Byte 0–7	Byte 8	Data fields
70001	Get the list of all messages uploaded	Reply includes only message ID number, sender call sign and destination call sign. A reply includes max 5 messages. Reply may be multiple if more than 5 messages are uploaded. If there are less than 5 messages, unused data field are filled with blank(0x20).	MSG	CCCCCCCC (Your Call Sign)	0x46 'F'	
			REPLY	CCCCCCCC (Your Call Sign)	0x46 'F'	DDD (Message ID), CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign), DDD (Message ID), CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign), DDD (Message ID), CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign), DDD (Message ID), CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign), DDD (Message ID), CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign)
70002	Read all messages to specific destination	Reply may be multiple if multiple messages are uploaded.	MSG	CCCCCCCC (Your Call Sign)	0x4D 'M'	CCCCCCCC (Destination Call Sign)
			REPLY	CCCCCCCC (Your Call Sign)	0x4D 'M'	CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign), CCCC...CCCC (MessageBody)
70003	Read all messages to "ALL" or "all"	Reply may be multiple if multiple messages are uploaded.	MSG	CCCCCCCC (Your Call Sign)	0x42 'B'	
			REPLY	CCCCCCCC (Your Call Sign)	0x42 'B'	CCCCCCCC (Sender Call Sign), "ALL" or "all" (Destination Call Sign), CCCC...CCCC (MessageBody)
70004	Send an message		MSG	CCCCCCCC (Your Call Sign)	0x57 'W'	CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign), CCCC...CCCC (MessageBody)
			REPLY	CCCCCCCC (Your Call Sign)	0x57 'W'	CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign), CCCC...CCCC (MessageBody)
70005	Delete all messages from specific sender "and" to spesific destination	Only messages matching sender "and" destination are deleted.	MSG	CCCCCCCC (Your Call Sign)	0x4B 'K'	CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign)
			REPLY	CCCCCCCC (Your Call Sign)	0x4B 'K'	CCCCCCCC (Sender Call Sign), CCCCCCCC (Destination Call Sign)

MSG/REPLY Data (Hatching area is filled with blank (0x20)). Byte columns: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104

MSG upload & REPLY downlink sequence
(1) Make an 105-words request message file with your text editor according to the format above.
(2) Send the message file from your terminal window with 145.84MHz FSK 1k2 bps.
(3) As soon as you send the request message, the satellite replies with 437.100MHz(ChubuSat-2)/437.425MHz(ChubuSat-3) GMSK 9k6 bps and the reply will be displayed on your terminal window.