Note on Abccom and prototype software

ABCCOM functionality :

- ➢ Abccom takes commands from TELESET and forward commands to particular sub-system.
- ➢ Abccom open individual thread for each sub-system.
- ➢ Decoding of all high level command is done by Abccom.
- ➢ Control bytes (Hex codes) for controlling and monitoring of Antenna base sub-system is generated by Abccom software.
- ➢ Every 30 sec track command for servo system is generated by Abccom software.

Prototype software to communicate with New MCM using TCP/IP protocol :

1. We developed and successfully tested prototype server-client TCP/IP program which can be used to communicate between PC and New MCM over Ethernet.
2. We have used structure to send command/Response to and from PC and MCM.
3. Below is the structures used for command and response.

```
/**** Command structure *****/
typedef struct
{
 int seq;
 char timestamp[64];
 char system_name[16];
 char op_name[16];
 short int number_param;
 char parameter_name[32][16];
 char Argument_Ch1[32][16];
 char Argument_Ch2[32][16];
} cmd;
/***** Response structure *******/
typedef struct
{
 int response_type;
 int seq;
 char timestamp[64];
 char system_name[16];
 char Mon_raw[64][8];
 char Mon_sum[32][64];
 short int num_resp_msg;
 char response_message[32][64];
} resp;
```