

S/C Commands Format

1 Verbose mode:

verbose 0 //remove any messages (MSG, ERR, WAR), keeps only [OK] or [ERC]:[ERR_NUM]
 //not recommended for Get commands since nothing will be returned
verbose value //enable messages, value = bit array (Get MSG=1, info MSG=2, Error/Warning MSG=4)

- There can be several messages encapsulated within [MSG]...[/MSG] for a single slave answer
- 2 levels of errors:
 - o Error:
 - [ERR]:Error message ... (several lines)[/ERR]
 - [ERC]:[ERR_NUM]
 - o Warning:
 - [WAR]:Warning message ... (several lines)[/WAR]
 - [WAR]:[WAR_NUM]

2 Single Command

MASTER REQ:

Cmd param1 param2 ...

SLAVE ANS:

No message / OK, or OK / Verbose 0:

[OK]
[END]

Message / OK / Verbose 3:

[MSG]:Message ... (several lines)[/MSG]
[MSG]:2nd Message ... (several lines)[/MSG]
...
[MSG]:Nth Message ... (several lines)[/MSG]
[OK]
[END]

No message / ERR / Verbose 4:

[ERR]:Error message ... (several lines)[/ERR]
[ERC]:[ERR_NUM]
[END]

Message / ERR / Verbose 7:

[MSG]:Message ... (several lines)[/MSG]
[ERR]:Error message ... (several lines)[/ERR]
[ERC]:[ERR_NUM]
[END]

ERR / Verbose 0

[ERC]:[ERR_NUM]
[END]

3 Single or multiple index command, e.g. enable FEB

MASTER REQ:

Cmd /A param1 param2 ... /A for all indexes

Cmd /x param1 param2 ... /x for index x

- Same answer format for a single index x but only with [OK:x], [MSG:x], [ERR:x], [ERC:x] answer for index x
- Indexes might not be consecutives i.e. 0,1,2,3,7,8,9,10 (depending on FEB filled slots on backplane) => last answer [OK] means all OK
- On previous slots example, single index 'Cmd /4 ...' would return an error (Empty slot)
- Multiple index command stops loop on 1st error found

NB: We could also continue indexes even after an error (is it safe? ... TBD)

SLAVE ANS:

No message / OK, or OK / Verbose 0:

[OK:0]

[OK:1]

...

[OK:N]

[END]

Message / OK / Verbose 3:

[MSG:0]:Message ... (several lines)[/MSG]

[OK:0]

[MSG:1]:Message ... (several lines)[/MSG]

[OK:1]

...

[MSG:N]:Message ... (several lines)[/MSG]

[OK:N]

[END]

No message / ERR / Verbose 4, always stops on 1st error e.g. on index=3:

[OK:0]

[OK:1]

[OK:2]

[ERR:3]:Error message ... (several lines)[/ERR]

[ERC:3]:[ERR_NUM]

[END]

Message / ERR / Verbose 7, always stops on 1st error e.g. on index=1:

[MSG:0]:Message ... (several lines)[/MSG]

[MSG:0]:2nd Message ... (several lines)[/MSG]

[OK:0]

[ERR:1]:Error message ... (several lines)[/ERR]

[ERC:1]:[ERR_NUM]

[END]

ERR / Verbose 0, always stops on 1st error e.g. on index=7:

[OK:0]

[OK:1]

[OK:2]

...

[OK:6]

[ERR:7]:[ERR_NUM]

[END]