



## SECTION 18 - CONTROL STATUS WORD BIT COMMANDS (GROUP)

The **FUTURA™** operating system provides Control Status Words for customizing the operation of the elevator. An example would be the ability to enable or disable pre-opening of the doors. Each Control Status Word is made up of 16 bits labeled 0-15. Each bit controls a specific operation of the elevator or one of its devices. Each bit can be set (1) or reset (0) and the operation which each bit controls is affected by the state (set or reset) of the bit.

The command <BITS> and <BITR> are used to set or reset the individual control flags (bits) of the control status word parameters. Each bit of a control status word is used to activate or deactivate a particular service or function. These control status words are found both in the individual car controllers and in the group controller.

- ✓ Set designates that a bit is a logic 1 (True)
- ✓ Reset designates that a bit is a logic 0 (False)
- ✓ There are 16 bits per control status word, referenced 0-15
- ✓ Control Status Words (GROUP) available: CSW (CS0), CS1, CS2, CS3, CS4.

**Note:** *The number of Control Status Words used on a particular job depends on the job itself. Your particular job may not contain all the Control Status Words.*

<b>&lt;COMMAND&gt;</b>	<b>FUNCTION</b>
BITRx,n <enter ↵>	Resets bit n of CSx (where x = 0-4, n = 0-15)
BITSx,n, <enter ↵>	Sets bit n of CSx (where x = 0-4, n = 0-15 )
BITD <enter ↵>	Displays the current bit status of all control status words in tabular form.

Figure 18-1

### CSW Group (Control Status Word 0)

<b>BIT</b>	<b>AFFECT</b>	<b>DEF</b>	<b>DESCRIPTION</b>
0	CALL	R	Hall Call Latching (Reset) or Canceling (Set) mode of operation: When set, allows cross-cancellation of hall calls with existing dispatch controller. (useful during installation)
1	NEXTUP	R	When set, doors close on Next-Up car after initial Next-up courtesy time expires as set by NDH. When reset, doors remain open till Motor Generator (MG) set shuts-down.
2	NEXTUP	R	When set, doors close after Motor Generator (MG) time out.
3	NEXTUP	R	When set, rear doors close on Next-Up car after initial Next-Up courtesy time expires per NDH. When Reset, rear doors remain open till Motor Generator (MG) set shuts-down.
4	ZONING	R	If set, free (available) cars are parked at zone floors (ZN1 through ZN5).
5	ZONING	R	If set, free (available) cars are parked at specific floors by priority.
6	ZONING	R	If set, cars not required at lobby floor park at zone floors (ZN1 through ZN5).
7			<b>Not used on Futura™</b>
8	BLUE	R	Controls assignment of a Code Blue call. When reset, a Code Blue call is assigned to the closest car that can respond. When Set, a Code blue call is assigned in a pre-established order as defined by commands CB1 through CB8.



BIT	AFFECT	DEF	DESCRIPTION
9	LOBBY	R	If set, use alternate lobby Next-Up floor (ALY) parameter instead of normal lobby floor (LBY).
10	LOBBY	R	When set, initiates DUAL lobby next-up mode.
11	LOBBY	R	When set any cars with rear lobby doors go into rear lobby Next-Up mode.
12		R	Reserved
13		R	Reserved
14		R	Reserved
15	CALL	R	Rear Hall Call Latching (Reset) or Canceling (Set) mode of operation. When set, allows cross-cancellation of REAR hall calls with existing dispatch controller. (Useful during installation.)

Figure 18-2

**CS1 Group (Control Status Word 1)**

BIT	AFFECT	DEF	DESCRIPTION
0			Not used on Futura™
1			Not used on Futura™
2		R	Reserved
3		R	Reserved
4		R	Reserved
5		R	Reserved
6		R	Reserved
7	FIRE	R	Fire Operation: When set, the Fire Light for hallway will flash On and Off.
8	CALL	R	If set, no hall call latching if the call cannot be assigned. (On certain jobs only.)
9	BLUE	R	If set, no Code Blue call latching if call cannot be assigned to an automatic operation car.
10	RCALL	R	If set, no Rear hall call latching if call cannot be assigned (On certain jobs only.)
11	VIP	R	If set, the VIP call is self latching. (Configured on certain jobs only. The job must be purchased with VIP call option.)
12	VIP	R	If set, the VIP call is self latching.
13		R	Reserved
14		R	Reserved
15	UPPEAK	R	If set, all cars requested to lobby during Up Peak.

Figure 18-3

**CS2 Group (Control Status Word 2)**

BIT	AFFECT	DEF	DESCRIPTION
0	VIP	R	This bit must be set to allow car # 1 to answer a VIP call.
1	VIP	R	This bit must be set to allow car # 2 to answer a VIP call.
2	VIP	R	This bit must be set to allow car # 3 to answer a VIP call.
3	VIP	R	This bit must be set to allow car # 4 to answer a VIP call.
4	VIP	R	This bit must be set to allow car # 5 to answer a VIP call.
5	VIP	R	This bit must be set to allow car # 6 to answer a VIP call.
6	VIP	R	This bit must be set to allow car # 7 to answer a VIP call.
7	VIP	R	This bit must be set to allow car # 8 to answer a VIP call.
8		R	Reserved
9		R	Reserved
10		R	Reserved
11		R	Reserved



BIT	AFFECT	DEF	DESCRIPTION
12	VIDEO	R	<b>Not used on Futura™</b>
13	VIDEO	R	<b>Not used on Futura™</b>
14	VIDEO	R	Set to display car status on group screen.
15	VIDEO	R	If set, do not blink car on lobby screen.

Figure 18-4

**CS3 Group (Control Status Word 3)**

BIT	AFFECT	DEF	DESCRIPTION
0			<b>Not used on Futura™</b>
1	CALL	R	If set, then front Hall Call inputs will internally latch.
2	CALL	R	If set, then rear Hall Call inputs will internally latch.
3	CALL	R	If set, then Hall Call will only latch if a car is available.
4	DNPEAK	R	If set, down peak zoning is active even if there is no blind shaft.
5	ZONE	R	If set, zone to floor with most calls, else zone to floor with the longest wait.
6	ZONE	R	If set, zone car with a pilot.
7	ZONE	R	If set, remove zone as soon as call is assigned.
8	ZONE	R	If set, disables up peak zoning with a pilot on up peak.
9	ZONE	R	If set, will not zone a car to the lobby on up peak if ETA to lobby is too great.
10	NEXTUP	R	Reset to allow multiple Next Up cars.
11	BLUE	R	If set, then Code Blue call inputs will internally latch.
12		R	Reserved
13		R	Reserved
14		R	Reserved
15		R	Reserved

Figure 18-5

**CS4 Group (Control Status Word 4)**

BIT	AFFECT	DEF	DESCRIPTION
0	COMM	R	<b>Not used on Futura™</b>
1	COMM	R	<b>Not used on Futura™</b>
2	COMM	R	<b>Not used on Futura™</b>
3		R	Set to disable EDS with loss of HPU comm.
4	CALL	R	Enable cross cancellation operation.
5	CALL	R	Set to use I2C for Hall Calls else HPUs
6	COMM	R	<b>Not used on Futura™</b>
7		R	Reserved
8	COMM	R	<b>Not used on Futura™</b>
9	ERROR	R	Set to disable interrupt error display.
10	EMP	R	Set to activate inter-group emergency power.
11		R	Reserved
12		R	Reserved
13	CALL	R	Set to enable front auxiliary riser.
14	CALL	R	Set to enable rear auxiliary riser.
15		R	Reserved

Figure 18-6



**CS5 Group (Control Status Word 5)**

BIT	AFFECT	DEFAULT	DESCRIPTION
0		R	Unused.
1		R	Unused.
2		R	Unused.
3		R	Unused.
4		R	Unused.
5		R	Unused.
6		R	Unused.
7		R	Unused.
8		R	Unused.
9		R	Unused.
10		R	Unused.
11		R	Unused.
12		R	Unused.
13		R	Unused.
14		R	Unused.
15		R	Unused.

Figure 18-7

**CS6 Group (Control Status Word 6)**

BIT	AFFECT	DEFAULT	DESCRIPTION
0		R	Unused.
1		R	Unused.
2		R	Unused.
3		R	Unused.
4		R	Unused.
5		R	Unused.
6		R	Unused.
7		R	Unused.
8		R	Unused.
9		R	Unused.
10		R	Unused.
11		R	Unused.
12		R	Unused.
13		R	Unused.
14		R	Unused.
15		R	Unused.

Figure 18-8

**CS7 Group (Control Status Word 7)**

BIT	AFFECT	DEFAULT	DESCRIPTION
0		R	Unused.
1		R	Unused.
2		R	Unused.
3		R	Unused.
4		R	Unused.
5		R	Unused.
6		R	Unused.
7		R	Unused.
8		R	Unused.



BIT	AFFECT	DEFAULT	DESCRIPTION
9		R	Unused.
10		R	Unused.
11		R	Unused.
12		R	Unused.
13		R	Unused.
14		R	Unused.
15		R	Unused.

Figure 18-9

**CS8 Group (Control Status Word 8)**

BIT	AFFECT	DEFAULT	DESCRIPTION
0		R	Unused.
1		R	Unused.
2		R	Unused.
3		R	Unused.
4		R	Unused.
5		R	Unused.
6		R	Unused.
7		R	Unused.
8		R	Unused.
9		R	Unused.
10		R	Unused.
11		R	Unused.
12		R	Unused.
13		R	Unused.
14		R	Unused.
15		R	Unused.

Figure 18-10

**CS9 Group (Control Status Word 9)**

BIT	AFFECT	DEFAULT	DESCRIPTION
0		R	Unused.
1		R	Unused.
2		R	Unused.
3		R	Unused.
4		R	Unused.
5		R	Unused.
6		R	Unused.
7		R	Unused.
8		R	Unused.
9		R	Unused.
10		R	Unused.
11		R	Unused.
12		R	Unused.
13		R	Unused.
14		R	Unused.
15		R	Unused.

Figure 18-11