

Implementing Unique NYSP Signaling in the CIM-1000

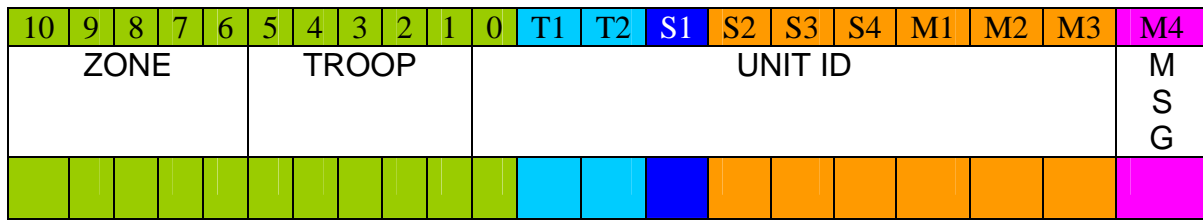


Figure 1

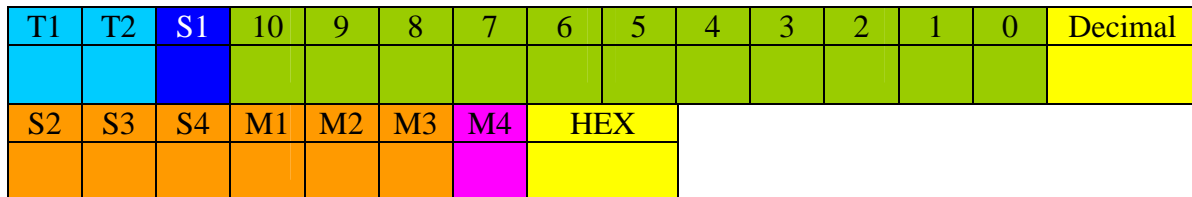


Figure 2

Alpha definitions from bit patterns					
0	00000	B	01011	M	10110
1	00001	C	01100	N	10111
2	00010	D	01101	V	11000
3	00011	E	01110	P	11001
4	00100	F	01111	Q	11010
5	00101	G	10000	R	11011
6	00110	H	10001	S	11100
7	00111	I	10010	T	11101
8	01000	J	10011	X	11110
9	01001	K	10100	Z	11111
A	01010	L	10101		

Table 1

Using the template in Figure 1, enter the desired zone and troop in binary per table 1. Then convert the desired decimal unit ID into binary and enter that – right justified – into the template. The MSG slot of Figure 1 should be a 0 (zero) for PTT ANI and a 1 (one) for Emergency.

Move the information from Figure 1 into Figure 2 maintaining the associated locations that are color coded and labeled (7 to 7, T1 to T1, M2 to M2, etc).

Take the binary value that is in the top row of Figure 2 and convert it into Decimal. Place the decimal value in the cell labeled DECIMAL. Take the binary value that is in the bottom row of Figure 2 and convert it to HEX. Place the HEX value in the cell labeled HEX.. If the resultant value is only one digit, add a zero to the left of the single digit (e.g. 00001111 becomes F becomes 0F).

Now place the CIM-1000 in program mode and move to the GE Star® screen as shown below:

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SIGNALING = GESTAR
  ID Type : B
  ANI ID : 2047
  AuxANI ID : 2047
  EMR ID : 2047
  ANI Msg : 01
  EMR Msg : 07
  TOT Msg : 09
  MAN Msg : 0F
  Preamble : 024 bit
  
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Leave “ID Type” as “B”, and enter the Decimal value from Figure 2 top row into program areas for “ANI ID”, “AuxANI ID” and “EMR ID”.

With “M4” set at “0”, Enter the HEX value from Figure 2 bottom row into the program area for “ANI Msg”. Then, With “M4” set at “1”, Enter the HEX value from Figure 2 bottom row into the program area for “EMR Msg”. Now gracefully leave program mode of the CIM-1000 by pressing <enter>, then <\>, then <X>. The device is programmed.

An Example follows for a board With Troop “F”, Zone “3” and ID “65”

10	9	8	7	6	5	4	3	2	1	0	T1	T2	S1	S2	S3	S4	M1	M2	M3	M4	
ZONE				TROOP				UNIT ID								M S G					
0	0	0	1	1	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0/1

T1	T2	S1	10	9	8	7	6	5	4	3	2	1	0	Decimal
0	0	1	0	0	0	1	1	0	1	1	1	1	0	2270
S2	S3	S4	M1	M2	M3	M4	HEX							
0	0	0	0	0	1	0/1	02/03							

Do the calculations twice, once with M4 as a zero for PTT ID and again with M4 as a one for Emergency ID. The resulting programming information would be:

SIGNALING = GESTAR

ID Type : B
ANI ID : 2270
AuxANI ID : 2270
EMR ID : 2270
ANI Msg : 02
EMR Msg : 03
TOT Msg : 09
MAN Msg : 0F
Preamble : 024 bit