

# Bit Stream Definitions (External)

## Version 1.6

### Bit Descriptors:

E or Ex references an even parity bit  
O or Ox references an odd parity bit  
0 indicates bit is always set to zero  
1 indicates bit is always set to one  
F is a Facility Code bit  
B is a Badge ID bit  
C is a City Code bit  
I is an Issue Code bit  
X is a checksum bit

### Bit Stream Formats:

#### 26 Bit Formats

##### W26-0

E F F F F F F F B B B B B B B B B B B B B B B B B B O

Facility Code Range: 0 – 255

Badge ID Range: 0 – 65,535

E is calculated over: E F F F F F F F B B B B B B B B B B B B B B B B B B O

O is calculated over: E F F F F F F F B B B B B B B B B B B B B B B B B B O

##### W26-1

E F F F F F F F B B B B B B B B B B B B B B B B B B O

Facility Code Range: 0 – 255

Badge ID Range: 0 – 65,535

E is calculated over: E F F F F F F F B B B B B B B B B B B B B B B B B B O

O is calculated over: E F F F F F F F B B B B B B B B B B B B B B B B B B O



## 40 Bit Formats

### W40-0

EEEEEEEEFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBO

Facility Code Range: 0 – 1,023

Badge ID Range: 0 – 268,435,455

E is calculated over: EEEEEEEEEFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBO

O is calculated over: EEEEEEEEEFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBO

### W40-3

EEEEEEEEFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBO

Facility Code Range: 0 – 255

Badge ID Range: 0 – 67,108,863

E is calculated over: EEEEEEEEEFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBO

O is calculated over: EEEEEEEEEFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBO

## 56 Bit Formats

### W56-0

EBBO

No Facility Code

Badge ID Range: 0 - 7.2057594037928E+16

E is calculated over:

EBBO

O is calculated over:

EBBO

### W56-1

FFFFFFFFFFFFFFFFFFFFFFFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB

BBBBB

Facility Code Range: 0 – 16,777,215

Badge ID Range: 0 - 4,294,967,295

No Parity Bits