TCN Generation

The TCN for Texas DPS AFIS submissions is an 11 digit numeric field formatted in the following fashion:

```
yyyyyyzzzzzc
```

where

- `yyyy` = DPS assigned Livescan Identification number (LSID)
- `zzzzz` = a “one up” numbering scheme for submissions from the device in question starting with 00001
- `c` = check digit

The check digit is computed utilizing a modified modulus 10 computation methodology.

Example:

```
TCN = 0100123456c
```

The weighting of the relative positions of the TCN alternates between 2 and 1, starting with 2.

```
0 x 2 = 0
1 x 1 = 1
0 x 2 = 0
0 x 1 = 0
1 x 2 = 2
2 x 1 = 2
3 x 2 = 6
4 x 1 = 4
5 x 2 = 10
6 x 1 = 6
```

**Total** 31

Modulus 10 of 31 = 1 (31/10 leaves a remainder of 1)

The check digit will be the complement of 10 for the remainder (10 minus (-) the remainder, in this case 10 - 1 = 9).

The resulting TCN will be 01001234569

**Note:** When the remainder equals zero the check digit will be zero.