TCN Generation

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

yyyyyzzzzzc where

yyyyy = 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 = 0100123456**c**
The weighting of the relative positions of the TCN alternates between 2 and 1, starting with 2.

$0 \times 2 = 0$
$1 \times 1 = 1$
$0 \times 2 = 0$
$0 \times 1 = 0$
$1 \times 2 = 2$
$2 \times 1 = 2$
$3 \times 2 = 6$
$4 \times 1 = 4$
$5 \times 2 = 10$
$6 \times 1 = 6$

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.