connection to settle before the communication process begins.

4.1.1.2 Composition

The handshake tone sequence shall consist of:

- A burst of 1400 Hz. ±3% tone with a duration of 100 msec. ±5%
- A pause of 100 msec. ±5%
- A burst of 2300 Hz. ±3% tone with a duration of 100 msec. ±5%

Note: Transmitters shall accept a frequency error of at least ± 5% to ensure back-compatibility with older receivers.

4.1.2 Message Blocks

A Message Block is sent by the TRANSMITTER for each message in the transmitter's message queue. Each message block contains sufficient information to report an event in the system.

4.1.2.1 Placement

The first message block is sent beginning 250 msec. (250 min.,300 max.) after the end of either the Handshake Tone sequence or after a Kissoff (Acknowledgement) tone. The delay is timed from the end of the tone.

4.1.2.2 Message Composition

The form of the message is:

ACCT MT QXYZ GG CCC

where:

ACCT = 4 Digit Account number (0-9, B-F)

MT = Message Type. This 2-digit sequence is used to identify the Contact ID message to the receiver. It may be transmitted as either 18 (preferred) or 98 (optional). New receiver implementations shall accept either a 18 or a 98. Note that some older receivers may not accept 98 .

Q = Event qualifier, which gives specific event information:

1 = New Event or Opening
3 = New Restore or Closing
6 = Previously reported condition still present (Status report)

XYZ = Event code (3 Hex digits 0-9,B-F)

GG = Group or Partition number (2 Hex digits 0-9, B-F). Use 00 to indicate that no specific group or partition information applies.

CCC = Zone number (Event reports) or User # (Open / Close reports) (3 Hex digits 0-9,B-F). Use 000 to indicate that no specific zone or user information applies

S = 1 Digit Hex checksum calculated such that:

(Sum of all message digits + S) MOD 15 = 0

Note: A '0' shall be transmitted as a 10 and valued as a 10 for checksum purposes even though it is displayed and printed as '0'. It uses the same tone pair as the '0' (OPER) key on a standard telephone.

4.1.2.3 Data Tones

The message is sent using standard DTMF tones.

The timing of the tones shall be as follows:

Burst ON time - 50 msec. (50 min.,60 max.)
Burst OFF time- 50 msec. (50 min.,60 max.)

The details of the tones are contained in the following table.